FLUVANNA COUNTY BOARD OF SUPERVISORS

REGULAR MEETING AGENDA

Morris Room, Fluvanna County Administration Building

May 6, 2020 at 4:00 pm

TAB	AGENDA ITEMS
1 - CALL TO ORDER	
2 - PLEDGE OF ALLEGIANCE AND MOMENT OF SILENCE	
3 – ADOPTION OF AGENDA	
4 – COUNTY ADMINISTRATOR'S REPORT	
5 – PUBLIC COMMENTS #1 (5 minutes each)	
6 – PUBLIC HEARING	
A	Public Hearing for a Temporary Ordinance for the Postponement of Penalty and Interest on the First Half Taxes of 2020 – Eric Dahl, County Administrator
7 – ACTION MATTERS	
B	FY20 CIP Transfer of Funds to Unassigned Fund Balance – Liz McIver, Management Analyst
C	Fluvanna Business Recovery Loan – Bryan Rothamel, Economic Development Coordinator
D	Self-Contained Breathing Apparatus Contract – Cyndi Toler, Purchasing Officer
E	FY21 FCPS State Revenue Supplemental Appropriation – Mary Anna Twisdale, Director Finance
F	Authorization to Advertise a Public Hearing for Continuity of Operations Ordinance – Eric Dahl, County Administrator
7A – APPOINTMENTS	
8 – PRESENTATIONS (normally not to exceed 10 minutes each)	
G	Tax Bill Penalty and Interest Review – Eric Dahl, County Administrator
9 – CONSENT AGENDA	
H	Minutes of April 8, 2020 – Caitlin Solis, Clerk to the Board
I	Minutes of April 15, 2020 – Caitlin Solis, Clerk to the Board
10 – UNFINISHED BUSINESS	
	TBD
11 – NEW BUSINESS	
	TBD
12 – PUBLIC COMMENTS #2 (5 minutes each)	
13 – CLOSED MEETING	
	TBD
14 – ADJOURN	

Fluvanna County…The heart of Virginia and your gateway to the future!

For the Hearing-Impaired – Listening device available in the Board of Supervisors Room upon request. TTY access number is 711 to make arrangements.
For Persons with Disabilities – If you have special needs, please contact the County Administrator's Office at 591-1910.

County Administrator Review

PLEDGE OF ALLEGIANCE

I pledge allegiance, to the flag,
of the United States of America,
and to the Republic for which it stands,
one nation, under God, indivisible,
with liberty and justice for all.

GENERAL RULES OF ORDER

1. It shall be the duty of the Chairman to maintain order and decorum at meetings. The Chairman shall speak to points of order in preference to all other members.

2. In maintaining decorum and propriety of conduct, the Chairman shall not be challenged and no debate shall be allowed until after the Chairman declares that order has been restored. In the event the Board wishes to debate the matter of the disorder or the bringing of order; the regular business may be suspended by vote of the Board to discuss the matter.

3. No member or citizen shall be allowed to use defamatory or abusive language directed at any member of the Board or other person, to create excessive noise, or in any way incite persons to use such tactics. The Chair shall be the judge of such breaches, however, the Board may by majority vote of the Board members present and voting to overrule the judgment of the Chair.

4. When a person engages in such breaches, the Chairman shall order the person's removal from the building, or may order the person to stand silent, or may, if necessary, order the person removed from the County property.

RULES OF PROCEDURE FOR PUBLIC HEARINGS

1. PURPOSE
   - The purpose of a public hearing is to receive testimony from the public on certain resolutions, ordinances or amendments prior to taking action.
   - A hearing is not a dialogue or debate. Its express purpose is to receive additional facts, comments and opinion on subject items.
2. SPEAKERS
   - Speakers should approach the lectern so they may be visible and audible to the Board.
   - Each speaker should clearly state his/her name and address.
   - All comments should be directed to the Board.
   - All questions should be directed to the Chairman. Members of the Board are not expected to respond to questions, and response to questions shall be made at the Chairman's discretion.
   - Speakers are encouraged to contact staff regarding unresolved concerns or to receive additional information.
   - Speakers with questions are encouraged to call County staff prior to the public hearing.
   - Speakers should be brief and avoid repetition of previously presented comments.
3. ACTION
   - At the conclusion of the public hearing on each item, the Chairman will close the public hearing.
   - The Board will proceed with its deliberation and will act on or formally postpone action on such item prior to proceeding to other agenda items.
   - Further public comment after the public hearing has been closed generally will not be permitted.

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FLUVANNA COUNTY BOARD OF SUPERVISORS
AGENDA ITEM STAFF REPORT

TAB A

MEETING DATE:	May 6, 2020				
AGENDA TITLE:	Public Hearing for a temporary Ordinance for the postponement of penalty and interest on the first half taxes of 2020				
MOTION(s):	I move the Board of Supervisors approve "A TEMPORARY ORDINANCE TO PROVIDE FOR CERTAIN RELIEF FROM PENALTY AND INTEREST FOR LATE PAYMENT OF TAXES FOR THE FIRST HALF OF 2020."				
STRATEGIC INITIATIVE?	Yes	No	**If yes, list initiative(s):**		
		X			
AGENDA CATEGORY:	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
	X				
STAFF CONTACT(S):	Eric Dahl, County Administrator				
PRESENTER(S):	Eric Dahl, County Administrator				
RECOMMENDATION:	Approve				
TIMING:	Normal				
DISCUSSION:	This ordinance is designed to be temporary in nature and therefore will only apply to the payment of the first half taxes. It extends the time at which penalty and interest will be imposed until June 30 but not beyond. It does NOT extend the time for payment of taxes beyond June 5, merely suspending the penalty and interest. It will expire according to its terms after June 30. Since it is temporary in nature, it is not intended to be set out in the County Code.				
FISCAL IMPACT:	N/A				
POLICY IMPACT:	N/A				
LEGISLATIVE HISTORY:	N/A				
ENCLOSURES:	A TEMPORARY ORDINANCE TO PROVIDE FOR CERTAIN RELIEF FROM PENALTY AND INTEREST FOR LATE PAYMENT OF TAXES FOR THE FIRST HALF OF 2020				
REVIEWS COMPLETED:	Legal	Finance	Purchasing	HR	Other
	X				

A TEMPORARY ORDINANCE TO PROVIDE FOR CERTAIN RELIEF FROM PENALTY AND INTEREST FOR LATE PAYMENT OF TAXES FOR THE FIRST HALF OF 2020

BE IT ORDAINED BY THE FLUVANNA BOARD OF SUPERVISORS as follows:

WHEREAS the Commonwealth of Virginia and the County of Fluvanna are currently subject to a pandemic infection of the virus commonly known as COVID 19; and

WHEREAS the citizens of Fluvanna County have been greatly inconvenienced by the consequences of the said pandemic, including a significant disruption of their lives and economic activities; and

WHEREAS it is anticipated that such inconveniences will not be remedied prior to the date due for payment of real and tangible personal property taxes on June 5, 2020, as required by County Code Section 20-1-2; and

WHEREAS the Board of Supervisors has determined that, it is appropriate to postpone the imposition of penalty and interest for late payment of such taxes until June 30, 2020;

NOW THEREFORE BE IT ORDAINED

(1) that the penalty and interest provisions for failing to pay real estate and tangible personal property taxes on June 5, 2020, as set out in Chapter 20, Article 1, Sec. 2.1, of the Fluvanna County Code shall not apply to the payment of such taxes made after June 5, 2020, but not later than June 30, 2020: provided that payment of such taxes after June 30, 2020, shall thereafter be subject to the penalty and interest provisions as set out in Chapter 20, Article 1, Sec. 2.1.

(2) The foregoing amendment shall expire and shall be of no further effect after June 30, 2020.

FLUVANNA COUNTY BOARD OF SUPERVISORS
AGENDA ITEM STAFF REPORT

TAB B

MEETING DATE:	May 6, 2020					
AGENDA TITLE:	FY20 CIP Transfer of Funds to Unassigned Fund Balance					
MOTION(s):	**I move that the Board of Supervisors approve a transfer of $_____ from Pending CIP Projects:** A. Historic Courthouse $250,130 B. Paving at Pleasant Grove $98,000 C. Ambulance $190,000 D. Library & Sheriff's Office Potable Water $50,000 E. Recoat Middle School WWTP $70,000 **to the FY20 Unassigned Fund Balance**					
STRATEGIC INITIATIVE?	Yes	No	**If yes, list initiative(s):**			
		X				
AGENDA CATEGORY:	Public Hearing	Action Matter	Presentation	Consent Agenda	Other	
		X				
STAFF CONTACT(S):	Liz McIver, Management Analyst Mary Anna Twisdale, Finance Director					
PRESENTER(S):	Liz McIver, Management Analyst Mary Anna Twisdale, Finance Director					
RECOMMENDATION:	Approval					
TIMING:	Effective Immediately					
DISCUSSION:	Close current pending CIP Projects and return to Fund Balance in order augment the current balance. Some of these projects were approved more than two years ago and have not yet been started. This would give the county additional funds in case of a shortfall due to the current COVID-19 crisis. • Historic Courthouse $250,130 • Paving at Pleasant Grove $98,000 • Cash Funded Ambulance $190,000 • Library & Sheriff's Office Potable Water $50,000 • Recoat Middle School WWTP $70,000 A total amount of $658,130 could be returned to Unassigned Fund Balance.					
FISCAL IMPACT:	Increase Unassigned Fund Balance by above approved amount.					
POLICY IMPACT:	NA					
LEGISLATIVE HISTORY:	NA					

ENCLOSURES:	NA				
REVIEWS COMPLETED:	Legal	Finance	Purchasing	HR	Other
		X			

FLUVANNA COUNTY BOARD OF SUPERVISORS
AGENDA ITEM STAFF REPORT

TAB C

MEETING DATE:	May 6, 2020					
AGENDA TITLE:	Fluvanna Business Recovery Loan					
MOTION(s):	**I move the Board of Supervisors allow the remaining $34,000 of the restricted donation to the Community Investment Collaborative to be used for low-interest, microloans to Fluvanna-based businesses in response to the COVID-19 disruption, with new loan requirements as presented, and once the COVID-19 loans are repaid, the Fluvanna Community Investment Collaborative microloan program would return to the previous requirements.**					
STRATEGIC INITIATIVE?	Yes	No	**If yes, list initiative(s):**			
		X				
AGENDA CATEGORY:	Public Hearing	Action Matter	Presentation	Consent Agenda	Other	
		X				
STAFF CONTACT(S):	Bryan Rothamel, Economic Development Coordinator					
PRESENTER(S):	Bryan Rothamel, Economic Development Coordinator					
RECOMMENDATION:	Approval					
TIMING:	Routine					
DISCUSSION:	• Fluvanna Board of Supervisors in 2012 approved a restricted donation to Community Investment Collaborative to establish a micro-loan program for Fluvanna entrepreneurs. • In 2019 the Fluvanna Board of Supervisors removed the qualification of "acceptance in the Community Investment Collaborative" program as a requirement for recipients. • In response to COVID-19 disruptions, area communities have utilized the Community Investment Collaborative's expertise in loan funds to create business recovery funds. • The Fluvanna Loan Fund has $34,000 available currently. • The Fluvanna Loan Fund can be re-designated as a response to COVID-19 disruptions. • Staff recommends up to $5,000 per business, requiring a physical location in Fluvanna, be operational as of March 1, show an ability to repay prior to March 1, require a personal guarantee with credit check, and did not receive federal funding through the Payroll Protection Plan. • Albemarle and Charlottesville's Business Recovery Fund is included as an example.					
FISCAL IMPACT:	None					
POLICY IMPACT:	None					

LEGISLATIVE HISTORY:	04/20/2011	BOS approved, as part of the motion adopting the FY13 budget, a $125,000 appropriation for Workforce Development and a $125,000 appropriation for Microfinance.
	02/01/2012	BOS authorized the County Administrator to implement and disburse the funds appropriated for the Workforce Development and Microfinance initiatives in accordance with the general parameters identified by the Board
	05/02/2012	BOS adopted FY 13 Budget including $80,000 for Microloan Initiative and $80,000 for Workforce Development
	05/16/2012	BOS de-allocated $125,000 for Microloan Initiative and $125,000 for Workforce Development in FY12 in support of the school budget
	06/06/2012	BOS deferred action on the CIC MOU pending CIC receipt of the IRS determination letter designating non-profit status, entering into Memorandum of Understanding agreements with the Fluvanna Education Foundation (FEF) and the Economic Development Authority (EDA), and agreeing to disburse FY13 funds for Workforce Development to FEF in the amount of $80,000 and to the EDA in the amount of $35,000 for Micro-Finance Initiatives. Pending later action by the BOS, $45,000 was left available for Micro-Finance Initiatives through CIC
	08/07/2019	BOS approved a revision of the terms of the loan program, removing acceptance in the Community Investment Collaborative program as a requirement for qualification. Acceptance in the program is now optional.
ENCLOSURES:	-Presentation -Albemarle and Charlottesville's Business Recovery Fund	

REVIEWS COMPLETED:	Legal	Finance	Purchasing	HR	Other

Business Recovery Fund

The Business Recovery Fund is a microloan program intended to provide existing businesses in the City of Charlottesville and Albemarle County with funds to restart operations once the COVID-19 pandemic subsides. CIC will administer the loans as part of our microloan program. The fund will offer microloans up to $10,000.

TERMS:

- Amount: Up to $10,000 or 100% of prior year expenses (whichever is less)
- 3 year repayment period, monthly payments
- 1% interest rate
- 6 months grace period before payments begin
- Loans cannot be used for paying existing debt, purchasing equipment or real property.

ELIGIBILITY:

- Must be physically located (as listed on your W-9) in the City of Charlottesville or Albemarle County
- Had a 2019 Albemarle or Charlottesville business license in addition to a current business license OR be a nonprofit physically located in Albemarle or Charlottesville
- Had at least 1 non-owner employee as of March 1, 2020
- Can demonstrate a capacity to repay from business revenue prior to March 1, 2020
- No significant personal credit issues in the last 12 months

PROCESS:

Step 1 – Complete this form to be notified when applications are open and to be invited to the application portal. This step must be completed by Friday, May 8, 2020, at 5 PM.

Step 2 – Gather the required documents:

- Loan Application – complete with this link
- 2019 Tax Return or 2018 Tax Return & 2019 Profit & Loss Statement
- Business Bank Statements for December 2019, January 2020, and February 2020.
- Copy of 2019 Business License and 2020 Business License (if 2019 not current)

Step 3 – You will be invited to our application portal, Lender Fit, on Friday, April 24, or within 1 business day of completing step 1 above.

Step 4 – You have until Monday, May 11, 2020, at 5 PM to submit the necessary documents in the application portal. CIC staff may ask questions or follow up as necessary using the portal.

Step 5 – We anticipate loan decisions being made no later than Tuesday, May 19, 2020.

QUESTIONS:

Contact Grace Burkhart, grace@cicville.org

FLUVANNA COUNTY BOARD OF SUPERVISORS
AGENDA ITEM STAFF REPORT

TAB D

MEETING DATE:	May 6, 2020					
AGENDA TITLE:	Self-Contained Breathing Apparatus Contract					
MOTION(s):	**I move the Board of Supervisors approve the emergency contract with Fire & Safety Equipment Co., Inc. for Self-Contained Breathing Apparatus (SCBA) and related Equipment totaling $767,568.94, and further authorize the County Administrator to execute the agreement subject to approval as to form by the County Attorney.**					
STRATEGIC INITIATIVE?	Yes	No	**If yes, list initiative(s):**			
		X				
AGENDA CATEGORY:	Public Hearing	Action Matter	Presentation	Consent Agenda	Other	
		XX				
STAFF CONTACT(S):	Cyndi Toler, Purchasing Officer					
PRESENTER(S):	Cyndi Toler, Purchasing Officer					
RECOMMENDATION:	Approve					
TIMING:	Immediate					
DISCUSSION:	• The County has an emergent need for Self-Contained Breathing Apparatus and related equipment as many of the County's units are beyond their expected useful life and their replacement is a matter of public safety and this procurement is conducted under 2.2-4303(F); Emergency Procurement. • In January 2020 Fluvanna applied for the Assistance to Firefighters Grant that if awarded would pay for the county to replace the SCBA's for the fire department. • Unfortunately, we will not receive a decision on the grant quickly enough to ensure the safety of our volunteers. • If the grant is awarded to the county we will be reimbursed the amount of the award. $818,000.00 was requested for the grant. • There is a CIP for this project in the amount of $939,000 • The project is for the purchase of the SCBA Masks, air tanks, 4 air compressor systems, and a fit test machine. • This contract is for the MSA brand masks and tanks only. • There is an RFP issued on April 27, 2020 for the air compressor systems to be installed in each fire station, as well as a small procurement to purchase the Fit Test machine.					
FISCAL IMPACT:	There is a CIP for this project in the amount of $939,000. This contract will reduce that amount by $767,568.94					
POLICY IMPACT:	None					

LEGISLATIVE HISTORY:	None				
ENCLOSURES:	Contract				
REVIEWS COMPLETED:	Legal	Finance	Purchasing	HR	Other
	XX	**XX**			

Self-Contained Breathing Apparatus Contract with Fire & Safety Equipment Co., Inc.

This Self Contained Breathing Apparatus Contract (the "Contract") dated the ____ day of _____, 2020 is between Fire & Safety Equipment Co., Inc. ("Contractor"), a Virginia corporation; and **Fluvanna County (the "County")**, a political subdivision of the Commonwealth of Virginia, sets forth the terms and conditions for Contractor's provision of those Products and Services as set forth in this Contract to County.

Whereas, the Houston-Galveston Area Council (the "HGAC") issued that solicitation for offers EE08-19 "Emergency Medical & Rescue Equipment" on March 7, 2019 (the "Cooperative Solicitation"), which Cooperative Solicitation is attached hereto as **Exhibit 2** and incorporated herein as a material part of this Contract;

Whereas, MSA Safety Sales, LLC, ("MSA") responded to the Cooperative Solicitation with its proposal (the "Proposal") dated March 15, 2019, which Proposal is attached hereto as **Exhibit 3** and incorporated herein as a material part of this Contract;

Whereas, MSA and HGAC entered into that Cooperative Agreement (the "Original Cooperative Agreement") fully executed on July 12, 2019 for that performance period beginning August 1, 2019 and terminating July 31, 2021, which Original Cooperative Agreement is attached hereto as **Exhibit 4** and incorporated herein as a material part of this Contract. The Original Cooperative Agreement incorporated by reference the Cooperative Solicitation and Proposal, and as used herein Original Cooperative Agreement shall be defined to be the same including all documents incorporated by reference into the same;

Whereas, such Original Cooperative Agreement was assigned to Contractor by that Contract Assignment and Assumption Agreement (the Assignment") by and between HGAC, MSA and Contractor fully executed on November 19, 2019, which Assignment is attached hereto as **Exhibit 5** and incorporated herein as a material part of this Contract;

Whereas, the pricing under such Original Cooperative Agreement was modified by that letter dated February 25, 2020 from HGAC to MSA approving the MSA's request for the Original Cooperative Agreement be amended to reflect product updates published January 2020, with such products still subject to the discounted pricing required by the Original Cooperative Agreement, such letter and the MSA 2020 Suggested Price List and 2020 Catalog (collectively the "Price Amendment") is attached hereto as **Exhibit 6** and incorporated herein as a material part of this Contract;

Whereas, the Original Cooperative Agreement as modified by the Assignment and Price Amendment is referred to herein as the "Cooperative Procurement";

Whereas, the County is a member of HGAC and may cooperatively procure products and services from the Cooperative Agreement pursuant to Virginia Code Section 2.2-4304;

Whereas, in addition, the County has an emergent need for Self-Contained Breathing Apparatus and related equipment as many of the County's units are beyond their expected useful life and their replacement is a matter of public safety and this procurement is conducted under 2.2-4303(F);

Whereas, the County participates in mutual aid for safety and rescue services with Louisa County, Albemarle County, and Goochland County, and such counties all use MSA systems and therefore Fluvanna County requires an MSA compatible system so (i) it is trained on an MSA

system and could use the other county's systems without further training; (ii) Fluvanna County could lend or borrow parts or equipment to the other counties easily; and (iii) it has inter-operability of its equipment with that of the mutual aid counties;

Whereas the County has applied for a FEMA Assistance to Firefighters Grant Program (the "Grant"), which is pending;

Whereas, the Contractor has indicated they are sole provider of MSA's products in Fluvanna County and surrounding area as set out in the Assignment making the Contractor the sole source for MSA products which will be compatible with the mutual aid counties;

Whereas, the County wishes to purchase certain products and associated installations, services and warranties (the "Products") under the Cooperative Agreement as set out in that Quote 224461 dated February 11, 2020 from the Contractor (the "Quote") and attached hereto as **Exhibit 1** and incorporated herein as a material part of this Contract;

Whereas, the Contractor wishes to provide the Products and certain related training, manuals, installation, equipment, warranties, work, and other related services (collectively referred as the "Products and Services") to County;

NOW THEREFORE, the parties hereby agree as follows:

1. **RECITATIONS AND WARRANTIES.** The foregoing recitations are incorporated herein by reference as material terms of the Contract between the County and Contractor. The Products and Services are purchased as a cooperative sole source cooperative procurement and the County has relied on statements of Contractor that the Contractor is the sole provider of such services for the County's Products in entering into this Contract. Contractor agrees it is the assignee of the Cooperative Agreement and shall provide all Products and Services in strict conformance to the Cooperative Agreement requirements. Contractor agrees to complete and attach the forms attached hereto as **Exhibit 7** which are material part hereof.

2. **PRODUCTS AND SERVICES**. Contractor will sell to County all those products and services and perform related labor, installation, warranties, maintenance, work, items and functions (the "Products and Services") shown on the Quote. The Contractor in providing the Products and Services must comply with the following requirements:

a All Products and Services will be provided in strict conformance to this Contract, the Cooperative Agreement, all Applicable Law and the County's General Terms, Conditions and Instructions to Bidders and Contractor's attached hereto as **Exhibit 8** and incorporated herein as a material part hereof. Applicable Law as used herein means all applicable federal, State and local laws, ordinances, rules and regulations or similar standards in any way related to performance of the Contract.

b In addition to other requirements under this Contract, the Products and Services must meet or exceed: (i) all specifications, requirements, and capabilities identified for the Products in the Cooperative Agreement, including without limitation the Cooperative Solicitation, the Proposal, and the Price Amendment; (ii) all specifications, features and guarantees for the Products in any marketing marketing materials and Product information pamphlets included in any exhibit hereto; (iii) all specifications of the

Quote; and (iv) requirements of Applicable law, safety standards, and applicable industry standards.

c The Contractor understands the Products are replacing existing equipment which is integral to the County's Fire and Safety program, and agrees to install the Products in such a way as to provide a seamless integration of the Products with existing equipment, if applicable, and to work with the County to coordinate installation, training and related services. The Contractor understands and acknowledges that the County must have functional SCBA equipment at all times, that there can be no down-times, and shall insure that all Products are working, fully functionally and training has taken place before any trade-in equipment is removed from service at the County. The County must approve in writing the exact quantities and items which shall be picked up as trade-in equipment by the Contractor under this Contract. The Contractor agrees to take all steps necessary to integrate the Products with the existing equipment as applicable and other equipment of the County. The Contractor will schedule the installation and related activities of the Products at a time convenient for the County in advance. The Contractor understands and acknowledges that the Products are replacing existing equipment which is integral to the operation and success of the County's Fire & Safety System and is also integral to the County's compliance with other applicable law.

d Any applicable manufacturer's warranties or other warranties shall be assigned and delivered to the County upon delivery of the Products and Services. This shall be in addition to all other warranties of any kind required under this Contract or any exhibit hereto and in addition to those express warranties contained in **Exhibit W** attached hereto and incorporated herein by reference as a material part hereof. Notwithstanding any language to the contrary in Exhibit W, the warranty provide under Exhibit W shall be in addition to other warranties required under this Contract or any exhibit hereto and shall not limit any other warranty required or offered hereunder, but shall be in addition to such other warranties.

3. LOCATION FOR SERVICES: Delivery of Products shall be to the following address: Palmyra Fire Station 14567 James Madison Hwy., Palmyra, VA 2296. Training shall occur at locations designated by the County after delivery of the Products. The Contractor must coordinate with the County on convenient training and delivery times.

4. COUNTY CONTACT INFORMATION:

Fluvanna County, Attn: Ms. Cyndi Toler, 132 Main Street Palmyra, VA 22963, telephone: (434) 591-1937 (billing and service and product inquiries)

Fluvanna County, Attn: Mr. Eric Dahl, County Administrator, 132 Main Street Palmyra, VA 22963, telephone: (434) 591-1910 (contract inquiries)

With a Copy to: Fluvanna County Attorney, 414 E. Jefferson Street, Charlottesville, VA 22902

Any notices under this Contract shall be sent to all three County contacts above. Any required or permitted notices hereunder must be given in writing at the address of each party set forth above, or to such other address as either party may substitute by written

notice to the other in the manner contemplated herein, by one of the following methods: hand delivery; registered, express, or certified mail, return receipt requested, postage prepaid; or nationally-recognized private express courier.

5. **PERFORMANCE: The Products and Services related hereto shall be installed, provided, and delivered within forty-five (45) days of execution of this Contract by the County**; time being of the essence. Any warranties on the Products and Services shall begin on the later of the date that the County accepts all the Products without reservation. All applicable warranties, promises and covenants relating to the Products and Services provided for hereunder and any manufacturer's warranties benefiting the County shall continue according to the terms thereof and shall survive any earlier termination of this Contract. Secondary to the state of the Pandemic and/or National Declarations of Emergency- delivery time on products ordered could be effected and delayed. These example reasonings for cause may be but not limited to: supply chain issues, transportation delays, and so forth. Contractor will do everything possible to communicate any issues we may have throughout this time of uncertainty. Notwithstanding anything to the contrary contained herein including without limitation any force related provisions, in the event that the Products and Services related hereto are not installed, provided and delivered within ninety (90) days the County may terminate this Contract without further responsibility or obligation and no amounts of any kind will be owing to the Contractor hereunder.

6. **COMPENSATION:** Consistent with the Quote, the Contractor shall be paid a flat fee of Seven Hundred Sixty-Seven Thousand Five Hundred Sixty-Eight AND 94/100 DOLLARS ($767,568.94) for the Products and Services relating to the Products (equipment, training, and installation, etc.). Payment and Invoice terms are governed by the County's General Terms, but in no event will the Contractor be paid before the Completion Date (as defined below). Any additional Products or Services must be purchased only under a written amendment of this Contract signed by authorized representatives of both parties. Invoices should be directed to Fluvanna County. The date that all Products and Services are installed, operational and in compliance with this Contract to the satisfaction of the County is the "**Completion Date**".

7. **EXHIBITS AND RESOLVING CONFLICTS**. The rights and duties of the County and Contractor under this Contract are set out herein and in Exhibit 1 through 9 (the "Exhibits") attached hereto. Whenever possible, the terms of the above Contract and the Exhibits shall be read together and where there are similar provision each shall apply, however in the event of a direct conflict, the order of control shall be this Contract, then Exhibit 1, then each remaining numbered Exhibit in reverse order, and finally Exhibit W. In other words, the Contract shall control over the Exhibits in the event of a direct conflict, Exhibit 1 shall control over Exhibits 2-8 and W, Exhibit 8 shall control over Exhibits 2-7 and W, Exhibit 7 shall control over Exhibits 2-6 and W, and so forth, with Exhibit 3 controlling over Exhibit 2 and W, and Exhibit 2 controlling over Exhibit W.

8. **MISCELLANEOUS.** The headings of the sections of this Contract are inserted for convenience only and do not alter or amend the provisions hereof. A word importing the masculine or neuter gender only may extend and be applied to females and to corporations as well as males, and vice versa. A word importing the singular number only may extend and be applied to several persons or things as well as to one person or thing; and a word

importing the plural number only may extend and be applied to one person or thing, as well as to several persons or things. This contract may be executed in multiple counterparts each of which shall be deemed an original and together which shall constitute the Contract. This Contract may be executed in duplicate originals, any of which shall be equally authentic.

[SIGNATURE PAGE TO FOLLOW.]

Self-Contained Breathing Apparatus Contract with Fire & Safety Equipment Co., Inc.

Fire & Safety Equipment Co., Inc.		**Fluvanna County**	
By:	Donna Lawson	**By:**	
Printed:	Donna Lawson	**Printed:**	
Title:	President	**Title:**	
Date:	April 27, 2020	**Date:**	

Approved as to Form: _____

Fluvanna County Attorney

Quote

FIRE & SAFETY
EQUIPMENT COMPANY

Date	Quote #
2/11/2020	224461

Phone: 434-993-2425 Fax: 434-993-2679

Project

Name / Address
Fluvanna County PO Box 540 Palmyer, VA 22963

Rep	BLL
Terms	Due on receipt

Item	Description	Qty	Cost	Total
A-G1FS-442MA2C2LCR	G1 4500 45Min, QC, Chest Strap, Adjust. Swivel, Solid, EBS, Telem, Rechar	87	5,239.17	455,807.79
A-G1FS-442MA1C2LGR	G1 4500 45Min,QC,CHEST STRAP,METAL BAND,ADJ LUMBER,PURGE LEFT SHOULDER,CONTI,EXTENDAIRE II,LEFT CHEST,PASS W/TIC,RECHARGEABLE	9	6,051.40	54,462.60
10144231-SP	KIT FILTER ADAPT.ASSY G1 FSCEPEICE	1	152.48	152.48
10175708	G1 Cyl, RC, 4500 PSIG, 45 Min-LOW PROFILE	192	877.16	168,414.72
10149702-SP	G-1 Quick connect adaptor	20	45.99	919.80
FM1M401	MSA G1 MASK - NO ELECTRONICS OR SNAG POINTS	137	266.87	36,561.19
10158385	MSA G1 Smart Charger	4	528.20	2,112.80
10148741-SP	G-1 RechargeableBattery	24	262.84	6,308.16
10162403	MSA Fill Station QC Quick Adapter	11	320.95	3,530.45
10161130	Rescueaire II ,hp, 4500, G1 with cy.	9	4,073.87	36,664.83
RBL303	True North L3 Lite Speed RIT Bag	9	292.68	2,634.12

Thank you for allowing us to quote this!!

Subtotal	$767,568.94
Sales Tax (5.3%)	$0.00
Total	$767,568.94

QUOTE VALID UNTIL	5/1/2020

Signature: _____

P.O. Box 939
Concord, Va. 24538

Web Site
www.fireandsafety.net

COOPERATIVE PURCHASING PROGRAM
Houston-Galveston Area Council of Governments
3555 Timmons, Suite 120, Houston, TX 77027
Phone: 800-926-0234 Fax: 713-993-4548
www.hgacbuy.org

INVITATION TO SUBMIT COMPETITIVE: ☒ **BIDS** ☐ **PROPOSALS**

INVITATION NO.: EE08-19 ISSUE DATE: **March 7, 2019**

CATEGORY: **Emergency Medical & Rescue Equipment**

PURPOSE OF THIS INVITATION

The Cooperative Purchasing Program (HGACBuy) of the Houston-Galveston Area Council of Governments is soliciting offerings for the furnishing of products/services as described herein. These products/services may be purchased by any of more than 7000 member local governments, districts, agencies in 49 states across the nation.

Responses must be submitted in an original and one (1) copy, and shall be subject to the terms, conditions, requirements and specifications detailed in the documents comprising this Invitation. Responses are scheduled to be opened publicly at **H-GAC** offices on the date indicated. For Bid Invitations, responses will be available for public review until 4:00 p.m. CT that day, and on subsequent days by appointment only. Any Responses submitted later than 1:00 p.m. on the due date will be returned unopened to the bidder/proposer.

PROCUREMENT SCHEDULE & DETAILS

DRAFT SPECIFICATION / INVITATION:	January 10, 2019
PRE-BID/PROPOSAL CONFERENCE:	February 7, 2019 @ 9:00 a.m. CT; H-GAC Offices
FINAL SPECIFICATION / INVITATION:	March 7, 2019
BID/PROPOSAL RESPONSES DUE:	April 4, 2019 @ 1:00 p.m. CT; H-GAC Clock
PUBLIC RESPONSE OPENING:	April 4, 2019 @ 2:00 p.m. CT; H-GAC Clock
RECOMMENDATIONS TO BOARD:	May 21, 2019
CONTRACT START DATE & TERM:	August 01, 2019 through July 31, 2021
The documents comprising this Invitation are available via web download at: **https://www.hgacbuy.org/bids/**	
For assistance regarding this Invitation, please contact: Name: **Jackie Palmer** Phone: **713-993-2466** E-mail: **jpalmer@h-gac.com**	

CONTENTS OF THIS INVITATION

SECTION A - General Terms & Conditions

SECTION B - Product/Service Specific Requirements & Specifications (Final)

SECTION C - **HGACBuy** *FORMS* (Final)

SECTION D - Pro-Forma (Sample) Contract

This procurement conforms to government requirements for Competitive Procurement.

LABELING OF SEALED RESPONSE PACKAGE

IMPORTANT:
You must affix an identifying label to the outside of your Sealed Response Package to ensure proper identification and log-in at HGACBuy offices on receipt. HGACBuy is not responsible for any response that might be lost or misdirected due to improper or unclear labeling. Your label should look as follows and should be affixed conspicuously to the package.

H-GAC Cooperative Purchasing

Sealed Bid/Proposal No. **EE08-19**

DO NOT OPEN IN MAIL ROOM

Responses by E-mail or FAX will not be acceptable. Hard copies, as described herein, plus appropriate electronic media are required.

SECTION A

GENERAL TERMS & CONDITIONS
FOR BIDS AND PROPOSALS

INVITATION NO. EE08-19
DESCRIPTION: EMERGENCY MEDICAL & RESCUE EQUIPMENT
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1. INTRODUCTION

The Houston-Galveston Area Council (**H-GAC)** is a "Government-to-Government" procurement service for States, State Agencies, Local Governments, Districts, Authorities, and qualifying Not-for-Profit Corporations (**End User**s). End Users become **Members** of the **H-GAC** Cooperative Purchasing Program (**HGACBuy**) by executing an Interlocal Contract, which is free of cost and evergreen unless cancelled. **HGACBuy**, acting on behalf of **Members**, is soliciting competitive offerings for the furnishing of products and/or services, as described elsewhere, which MAY be purchased by **Members** during the contract term. **Members** using the Program issue purchase orders directly to **HGACBuy** contractors.

2. DEFINITIONS, ABBREVIATIONS & ACRONYMS

The following definitions, abbreviations and acronyms may be found in these specifications, and shall be interpreted herein as specified below.

Definitions and Abbreviations:

Acceptance. Acceptance takes place when the **End User** agrees with the **Contractor** that the terms and conditions of the contract have been met and verified. Acceptance is not the same as Receipt, and can only occur after intact shipping, inspection by **End User**, and any onsite testing that has been stipulated as part of the order

Aggregate/Single Occurrence. The term *"aggregate"* in insurance terms is the sum of all claims against a specific policy for a specific loss incident. The term *"single occurrence"* differentiates between multiple claims and single claims against a specific policy. The inherent value of a policy's aggregate value is less important to an **End User** than is the value of a single claim as stated under *"single occurrence."*

Approved. Acceptable to the "authority having jurisdiction."

ARO. "After Receipt of Order". Used in conjunction with a defined time period (usually days or weeks) to establish the delivery or lead time pursuant to any individual purchase transaction. In the case of orders for bodies which will be mounted on a customer furnished cab/chassis, the term ARO shall be construed to mean "After Receipt Of Cab/Chassis".

Authority Having Jurisdiction. The authority shall be either **H-GAC** or the relevant **End User** based on the requirements as stated in each specification item. Unless specifically stated, the authority shall be **H-GAC**.

Bidder. Any entity that submits a competitive bid to this Invitation. (See also "**Offeror**")

Change Order. Request by an **End User** for a change in the composition of an already submitted purchase order, for example to change quantity ordered, add or delete items, etc.

Contract. Specifically, a contract between **H-GAC** and a successful **Offeror** which is executed based on an award made pursuant this Invitation.

Contract Pricing Worksheet. The standard **H-GAC** form to by used by **Contractor** in preparing a quotation to an End User, upon which End User's purchase order will be based. **Contractor** may use another quotation form provided it contains required information, and only if approved by **H-GAC**.

Contractor. The contracted business entity responsible for fulfilling a contract executed pursuant to this Invitation.

Dealer/Distributor. A duly authorized and/or franchised business entity which sells and services a manufacturer's product in a specified marketing area.

Defect. A discontinuity in a part or a failure to function that interferes with the service or reliability for which the part was intended.

Electronic Media. As used herein, means computer based media such as 100mb Zip Disk, CDRom, e-mail, e-mail attachment, file downloaded from the web, etc.

End User. (See "**Participant**" and "**Member**")

Listed. Equipment or materials included in a list published by an organization, acceptable to the "Authority Having Jurisdiction" and concerned with product evaluation, that conducts periodic inspection of production of listed equipment or materials and whose listing states either that the equipment or materials meet appropriate standards or has been tested and found suitable for use in a specified manner. NOTE: The means for identifying listed equipment may vary for each organization concerned with product evaluation, some of which do not recognize equipment as listed unless it is also labeled. The "authority having jurisdiction" should utilize the system employed by the listing organization to identify a listed product.

Manufacturer. The person or persons, company firm, corporation, partnership, or other organization responsible for taking raw materials or components and making a finished product.

May. A term indicating a permissive use or an acceptable alternative to a specified requirement.

Member. An authorized Participant in the Program. (See "**Participant**" and "**End User**")

Motor Vehicle. The meaning of this term shall be based on the legal definition ascribed to it by the laws and/or regulations of the state in which any specific sale made pursuant to a Contract takes place.

Must. A term indicating a mandatory requirement.

Offer or Offering. Any product or service offered in reply to this Invitation.

Offeror. Any entity that submits a competitive bid or proposal in response to this Invitation. Bidder or Proposer.

Participant. Generally, any qualifying governmental or non-profit entity which has executed an Interlocal Contract for cooperative purchasing services with **H-GAC.**

Product Liability Insurance. Failure of Components and/or assembled equipment resulting in personal injury, disability or death and/or property damage is covered under the product liability insurance provisions.

Product or **Product Item.** Any of the specific goods, materials, equipment or service(s) specified in this Invitation. This term encompasses the base line item itself, and any and all accessories, options, modifications, ancillary services, assembly, testing, etc. that may be included in the delivered Product.

Proposer. Any entity that submits a competitive proposal in response to this Invitation. (See also "**Offeror**")

Purchaser. The **End User** having responsibility for the specification, requisition, ordering and acceptance of the Product or Service. (See also "**End User**")

Purchasing Authority. The agency that has sole responsibility and authority for negotiating, placing and, if necessary, modifying any solicitation, purchase order, or other award issued by a governing body [**H-GAC**].

Quotation. See "Contract Pricing Worksheet".

Receipt. Receipt takes place when a Product or Service is delivered to an **End User** and a document is executed that establishes that the Product is now in the possession of the **End User** or that the Service has been completed. Receipt DOES NOT connote or imply Acceptance.

Response. All or part of any offering submitted in response to this Invitation.

Shall. A term indicating a mandatory requirement or action.

Should. A term indicating a recommended or advised response to a specified requirement.

Vendor. A manufacturer's representative or dealer authorized to make sales and supply parts and service.

Acronyms:

ANSI = American **N**ational **S**tandards **I**nstitute

ASTM = **A**merican **S**ociety for **T**esting and **M**aterials

ASME = **A**merican **S**ociety of **M**echanical **E**ngineers

CFR = U.S. **C**ode of **F**ederal **R**egulations

DOJ = U.S. **D**epartment **O**f **J**ustice
DOT = U.S. **D**epartment **O**f **T**ransportation
EPA = U.S. **E**nvironmental **P**rotection **A**gency
FAA = **F**ederal **A**viation **A**dministration
FMVSS = U.S. **F**ederal **M**otor **V**ehicle **S**afety **S**tandards
H-GAC = **H**ouston-**G**alveston **A**rea **C**ouncil of Governments
IEEE = **I**nstitute of **E**lectrical and **E**lectronics **E**ngineers
MVD = **M**otor **V**ehicle **D**ivision of Texas Department of Transportation
NFPA = **N**ational **F**ire **P**rotection **A**ssociation
NHTSA = **N**ational **H**ighway **T**raffic **S**afety **A**dministration
NIOSH = **N**ational **I**nstitute **F**or **O**ccupational **S**afety And **H**ealth
NIST = **N**ational **I**nstitute of **S**tandards and **T**echnology
NTEA = **N**ational **T**ruck **E**quipment **A**ssociation
OSHA = U.S. **O**ccupational **S**afety and **H**ealth **A**dministration
RRC = **R**ail**r**oad **C**ommission of Texas
SAE = **S**ociety of **A**utomotive **E**ngineers
TBPC = **T**exas **B**uilding and **P**rocurement **C**ommission (formerly GSC)
TxDOT = **T**exas **D**epartment **O**f **T**ransportation
UL = **U**nderwriter's **L**aboratories Inc.
VTCS = **V**ernon's **T**exas **C**ivil **S**tatutes

3. NON-BINDING ORAL COMMENTS

No oral comment, utterance or response made by any employee, member, or agent of **H-GAC** or any Member of the Cooperative Purchasing Program shall be considered factual or binding with regard to this Invitation, or any contract awarded as a result of this Invitation. Valid and binding terms, conditions, provisions, changes or clarifications, or requests thereof, shall ONLY be communicated written form.

4. STRUCTURE OF RESPONSE

Depending on the Product or Service, market structures and sales practices can differ substantially. For example, dealers may sell into any market or may be restricted to certain territories, manufacturers may sell direct or may be limited by law to selling thru independent dealerships, etc. **H-GAC**'s objective is to ensure that **End Users**, no matter where located, can buy contracted products/services and receive quality and timely service and support, while at the same time allowing for the most appropriate and effective response to this Invitation. Therefore, responses to this Invitation will be accepted in conformance with the following scenarios and requirements:

A. Single Respondent Acting Alone Or As "Lead" For A Group:

Offeror shall complete and sign a **Form A** and, if contracted, shall be solely responsible for all contractual requirements including administration, processing of purchase orders and handling of payments for transactions which may involve other dealers who actually deliver the products or services.

B. Multiple Respondents Acting Jointly:

A single Response shall be submitted, and each party to the Response shall complete and sign a separate **Form A** to be included in the single Response. If the Response is successful each party shall sign a separate contract with **H-GAC** and shall be responsible for compliance with all terms and conditions. Only those which have executed a written contract with **H-GAC** may process purchase orders and payments.

In any event, Offeror may be a party to one, and only one, response.

5. BASIC REQUIREMENTS & CONDITIONS

a. The final requirements and specifications contained herein may be different, perhaps materially, from those in the "Invitation To Attend Pre-Bid / Pre-Proposal Conference", if any. It is **Offeror**'s sole responsibility to thoroughly examine and review all documentation associated with this Invitation, including any Addendums, and to insure that any response submitted complies in every respect with all requirements.

b. Any Addendum to this Invitation which may be required prior to the Response due date will be delivered to those prospective Offerors of record who have previously obtained a copy of this Invitation from **H-GAC**. Prospective Offerors shall be responsible for obtaining all documents relating to submission of a Response.

c. **Offeror** shall thoroughly examine any drawings, specifications, schedules, instructions and any other documents, supplied as a part of this Invitation, and is solely responsible for understanding and compliance.

d. **H-GAC** shall not be liable for **Offeror's** incomplete documentation, or for any costs associated with preparation and submission of any Response hereto. Additionally, all components of any Response become the property of **H-GAC, and shall be considered to be in the public domain**.

e. **Offeror** shall make all investigations necessary to become thoroughly informed regarding any plan and/or infrastructure that may be required to support delivery of any Product or Service covered by this Invitation. No plea of ignorance by **Offeror** stemming from failure to investigate conditions that may now or hereafter exist, shall be accepted as a basis for varying **H-GAC's** requirements**,** or **Offeror's/Contractor's** obligations or entitlements.

f. Requests for changes to the requirements or specifications herein must be in writing (e-mail, fax, letter) and must be received by **H-GAC** no later than fifteen (15) calendar days prior to the Response Due Date. **H-GAC** will review such requests, but may or may not make changes at its sole discretion. Changes, if any, will only be made by written Addendum sent to addressees of record. In any event, it is **Offeror's** sole responsibility to insure that any and all Addendums which may have been issued have been received and addressed.

g. By submission of a response, **Offeror** expressly understands and agrees that all terms and conditions herein will be part of any subsequent contract that is executed pursuant to this Invitation.

h. **Offeror** is advised that all **H-GAC** contracts are subject to the legal requirements established in any applicable Local, State or Federal statute.

i. **Offeror/Contractor** must be in compliance with all licensing, permitting, registration and other applicable legal or regulatory requirements imposed by any governmental authority having jurisdiction. It is **Offeror/Contractor's** responsibility to insure that this requirement is met, and to supply to **H-GAC** upon request, copies of any license, permit or other documentation bearing on such compliance.

j. Unless otherwise established elsewhere in this Invitation, NO minimum purchase quantities or spending levels are provided or guaranteed by **H-GAC** or any **End User**.

k. This Invitation is not meant to restrict competition, but rather is intended to allow for a wide range of responses.

l. Responses which are 'qualified' with conditional clauses or alterations of or exceptions to any of the terms and conditions in this Invitation may be deemed non-compliant at **H-GAC**'s sole discretion.

m. The term '**Offeror**', or derivative thereof, shall become synonymous with '**Contractor**' for any successful **Offeror** recommended for a contract pursuant to this Invitation.

n. **H-GAC** reserves the right to:

- Reject any and all offers received in response to this Invitation.
- Reject any part of an offer received in response to this Invitation.
- Determine the correct price and/or terminology in the event of any discrepancies in any response.
- Accept a response from, and enter into agreement with, other than the lowest price **Offeror**.
- Accept responses and award contracts to as many or as few **Offeror**s as **H-GAC** may select.
- Amend, waive, modify, or withdraw (in part or in whole) this Invitation, or any requirements herein.
- Hold discussions with **Offeror**s, although award may be made without discussion.
- Request an **Offeror** to give a presentation of the Response at a time and place scheduled by **H-GAC**.
- Exercise any of these rights at any time without liability to any **Offeror**.

o. **H-GAC** reserves the right to determine that conditions exist which prevent the public opening of responses on the date and at the time advertised, and to reschedule the public opening for a future date and time. Responses received by **H-GAC** by the original deadline will be secured unopened until the rescheduled opening date and time, and those having timely submitted such responses will be notified.

6. OFFEROR'S AUTHORIZED SIGNATORY

The signatory shall be authorized to sign and contractually bind **Offeror**, and shall sign any and all Response documentation requiring a signature.

7. SURETY FOR INSURANCE

Contractor shall be responsible for using a surety company properly licensed by any and all states in which Contractor will do business with Participants. The surety company shall not expose itself to any loss on any one risk in an amount exceeding ten percent (10%) of its surplus to policy holders, provided any risk or portion of any risk shall have been reinsured, and such reinsurance shall be deducted in determining the limitation of risk applicable to **H-GAC**'s insurance requirements.

8. CONFIDENTIAL / PROPRIETARY MATERIALS

All documentation submitted as part of **Offeror's** response to this Invitation will be considered to be in the public domain and may be made available to Members and others, after contract award, upon properly submitted request. If **Offeror** submits documents marked "confidential" or "proprietary", the Response may be deemed non-compliant.

9. REFERENCES

a. **Offeror** shall list the names of at least five government agencies within the continental United States which have purchased from **Offeror** products or services similar to those covered by this Invitation, within the last two years. **H-GAC** reserves the right to determine if such products or services are appropriately similar.

b. **Offeror** may provide reference information in whatever format desired, but each should include the following specific information:

- Agency name
- Contact person name
- Address
- Phone & Fax numbers
- Description of product(s) or service(s) and date sold

c. Other information, including criticism however learned, may be used by **H-GAC** in evaluation of responses.

10. INSURANCE

a. Unless otherwise stipulated in Section B, **Offeror/Contractor** must have the following insurance and coverage minimums:

General liability insurance with a Single Occurrence limit of at least $1,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit.

Product liability insurance with a Single Occurrence limit of at least $1,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit for all Products except Automotive Fire Apparatus. For Automotive Fire Apparatus, see Section B – Product Specific of this Invitation.

Property Damage or Destruction insurance is required for coverage of **End User** owned equipment while in **Contractor**'s possession, custody or control. The minimum Single Occurrence limit is $500,000.00 and the General Aggregate limit must be at least two times the Single Occurrence limit. This insurance may be carried in several ways, e.g. under an Inland Marine policy, as part of Automobile coverage, or under a Garage Keepers policy. In any event, this coverage must be specifically and clearly listed on insurance certificate(s) submitted to **H-GAC**.

b. Insurance coverage shall be in effect for the length of any contract made pursuant to this Invitation, and for any extensions thereof, plus the number of days/months required to *deliver* any outstanding order after the close of the contract period.

c. Original Insurance Certificates must be furnished to **H-GAC** on request, showing **Offeror/Contractor** as the insured and showing coverage and limits for the insurances listed above.

d. If any Product(s) or Service(s) will be provided by parties other than **Offeror/Contractor**, all such parties are required to carry the minimum insurance coverages specified herein, and if requested by **H-GAC**, a separate insurance certificate must be submitted for each such party.

e. **H-GAC** reserves the right to contact insurance underwriters to confirm policy and certificate issuance and document accuracy.

11. OFFEROR CERTIFICATIONS

Offeror, by submission of a Response hereto, makes the following certifications under penalty of perjury and possible contract termination if any of these certifications are found to be false.

Non-Collusive Response

a. The prices in the Response have been arrived at independently without collusion, consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices with any other **Offeror** or potential competitor.

b. The prices which have been quoted in the Response (unless otherwise required by law), have not been knowingly disclosed by **Offeror** and will not be knowingly disclosed by **Offeror** prior to the public response opening, either directly or indirectly, to any other **Offeror** or competitor.

c. No attempt has been made or will be made by **Offeror** to induce any other person, partnership or corporation to submit or not to submit a response for the purpose of restricting competition.

Non-Biased Specifications

This Invitation contains no requirements considered to be unduly biased in favor of **Offeror** or any other **Offeror**s that may be competing for this procurement.

No Financial Interest or Other Conflict

a. No **H-GAC** officer, employee, Board of Directors member or member of any **H-GAC** board or commission, nor family member of any such person, has a financial interest, direct or indirect, in **Offeror** or in any contract **Offeror** might enter into with **H-GAC**.

b. No economic or employment opportunity, gift, loan, gratuity, special discount, trip, favor or service has been, or will be, offered or given to any officer, employee, Board of Directors member, or member of any **H-GAC** board or commission, nor to any family member of any such person.

Debarment and Suspension Status

a. **Offeror** is not currently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any government agency, nor is **Offeror** an agent of any person or entity that is currently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transaction by any government agency.

b. **Offeror** has not within a three year period preceding this Invitation been convicted of or had a civil suit judgement renedered against **Offeror** for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain or performing a public transaction or contract under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, or receiving stolen property.

c. **Offeror** is not presently indicted for or otherwise criminally or civilly charged by a government entity (federal, state, or local) with commission of any of the offenses enumerated above.

d. Offeror has not, within a three year period preceding this Invitation, had any government (federal, state, or local) transactions terminated for cause or default.

Insurance Coverages

Offeror has and will maintain insurance coverage in accordance with the requirements of this Invitation.

Licensing & Permits

Offeror(s) has (have) all licenses and/or permits, required by any and all governmental entities having jurisdiction, to legally sell the products/services offered.

12. HISTORICALLY UNDERUTILIZED BUSINESS (HUB) PARTICIPATION

a. To satisfy Texas' statutory requirements [Government Code, Chapter 2161, Subchapter D], **H-GAC** requires all **Offeror**s to supply information in any bid/proposal response listing (1) the total number of subcontracts and (2) the total number of HUB contracts applicable to the Products or Services offered in the response. Local governments often require this information for their own reporting requirements prior to placing orders through the **H-GAC** Cooperative Purchasing Program.

b. **Offeror** must complete **Form B** and include subcontracts with HUB's that provide any materials or services related to sales that may be made thru **H-GAC**'s Cooperative Purchasing Program.

13. NON-RESIDENT RECIPROCAL SALES ACT

As required by Texas Civil Statutes in the award of contracts, an offeror which is not a Texas resident business must determine if its state of residence prohibits award of government contracts to Texas resident offerors without penalty. If **Offeror's** resident state DOES penalize Texas offerors, **Offeror** must provide this information along with a copy of its applicable resident state's statute in the Response.

14. TEXAS MOTOR VEHICLE COMMISSION CODE & LICENSING

Sales of motor vehicles in the State of Texas are subject to the Texas Motor Vehicle Commission Code. If this Invitation includes any motor vehicle to be sold in the State of Texas, **Offeror** certifies by submission of a response hereto that all required Texas Motor Vehicle Commission licenses are in place and current, and that copies of all such licenses **have been submitted with the Response.** Further, it shall be **Contractor**'s responsibility to keep current all required Texas Motor Vehicle Commission licensing during the term of the contract, and to furnish license copies at any time on request by **H-GAC**. If **Contractor** does not maintain current licensing, **H-GAC** reserves the right to immediately terminate the contract.

NOTE: In accordance with the Texas Motor Vehicle Commission Code, contracts for motor vehicles to be sold within the state of Texas may be made **ONLY** with properly licensed Texas Motor Vehicle Dealers. Therefore, to be considered for a contract covering Texas End Users, the Response must include a **Form A** from a licensed Texas Motor Vehicle Dealer

15. INTENT AND SCOPE OF SPECIFICATIONS

a. The intent of the specifications herein is to provide **Offeror** with sufficient information concerning the Products/Services to be contracted such that **Offeror** can prepare and submit an acceptable Response.

b. The specifications may be detailed or general in nature with regard to any particular Product/Service. Where not otherwise specified, details of construction, materials, or the way in which services will be provided, are left to the discretion of the **Offeror**, provided only that any offering shall conform, as a minimum, to best Industry standards and practices and to what is currently being sold in the marketplace.

c. Responses shall be considered only from **Offerors** that have established good reputations in their markets, and who furnish satisfactory evidence of ability to supply the Products/Services specified herein.

d. **Offeror** shall show proof of ability to provide to **End User**s prompt and competent service, including parts if applicable, for all Products/Services covered by this Invitation, by proper completion of a Service Organization Document as described elsewhere herein.

16. REQUIREMENTS APPLICABLE TO PHYSICAL GOODS

In the case of physical goods (e.g. equipment, material, supplies, as opposed to services), all Products offered must, unless otherwise stipulated in Section B:

a. Be new, unused, and not refurbished.

b. Not be a prototype insofar as the general design, operation and performance. This requirement is NOT meant to preclude **Offeror** from offering new models or configurations which incorporate improvements in a current design or add functionality, but which in such new model or configuration may be new to the marketplace.

c. Include any and all accessories which may or may not be specifically mentioned herein, but which are normally furnished or which are necessary to make a delivered Product ready for its intended use. Such accessories shall be assembled, installed and adjusted such that the Product is ready for continuous operation at time of delivery.

d. Have assemblies, sub-assemblies and component parts that are standard and interchangeable throughout the entire quantity of a particular Product as may be purchased simultaneously by any individual **End User**.

a. Be designed and constructed using current industry accepted engineering and safety practices, and materials.

b. Be available for inspection at any time prior to or after procurement.

17. PRODUCT CODES

Unless otherwise addressed in Section B of this Invitation, the following requirements shall apply:

a. Each Product/Service offered shall be uniquely identified using an **H-GAC** Product Code, which shall be determined as described in Section B of this Invitation. **Offeror** shall offer ONLY ONE Product for any particular Product Code. For example, **Offeror** may wish to submit a bid for Product Code ABC and may have another offering that also meets the requirements for ABC. **Offeror** MAY NOT submit two offerings for ABC. The alternate offering that also meets the requirements for ABC must be offered as an option "upgrade/downgrade" to ABC on **Form E**.

b. Pricing for optional upgrades or downgrades to base bid items should be quoted as an “adder” or “deduct” amount as appropriate, to be applied to the offered price of the base Product Item listed on **Form D**.

c. Base bid items and their associated HGACBuy Product Codes are included in the Section B and/or on **Form D**.

d. Selection of Product Codes for which to submit an offer is at **Offeror**’s sole discretion.

18. SPECIFIC DESCRIPTIVE REFERENCES

Except for Base Product Items listed on **Form D**, any reference to a specific catalog, data sheet, form, brochure, model name or number, etc. used herein to describe an item such as an option or accessory is only descriptive and is not to be considered restrictive unless otherwise noted. Such references are normally used only to indicate a type, general description, level of quality and/or required performance standards.

19. MANUALS

Unless otherwise specified or superceded herein, each Product delivered under an **H-GAC** contract, and if applicable any options thereto, shall be supplied with at least one (1) copy of a safety and operating manual. The cost of any such manuals must be included in the base price for any Product Item offered hereunder. If more detailed and technically orientated parts and maintenance manuals are available for a Product or option, at a cost, they shall be offered as options on the *FORM* designated herein for such options, or elsewhere in the Response as may be directed herein.

20. STANDARD FEATURES & OPTIONS

The following requirements are applicable primarily to physical goods.

Standard Features

a. The stated minimum requirements for all Products listed herein include what **H-GAC** considers to be “standard” features. Even though such features might normally be offered as options rather than as standard, they are nonetheless considered to be standard in this Invitation, and must be included in the base price for any Product offered. Such features **SHOULD NOT** be offered as options except as deducts for their omission from the base Product.

b. If it is unclear in the Response that an **H-GAC** standard feature is included in the base price, it will be assumed that such is the case. If awarded a contract **Offeror** will be expected to sell the Product with all **H-GAC** specified standard features included in the base price.

c. Any feature or accessory normally offered by manufacturer as "standard" shall be considered a standard feature and shall be included in the base price of any offering, even though not specifically listed as a requirement in **H-GAC**’s specifications. Such features **SHOULD NOT** be offered as options except as deducts for their omission from the base Product.

Options - General

a. Options are considered to be any features or accessories, other than **H-GAC**'s and Manufacturer's "standard" features or accessories.

b. Options should be offered on the *FORMS* designated for quoting options. Each option should be listed and described on a separate line, and should include any Manufacturer's/Dealer's code number. If no Manufacturer's/Dealer's code number exists, **Offeror** should create one.

c. Prices for all offered options shall be assumed to include any installation or mounting required to make it a fully functional component of the Product, unless otherwise stated in **Offeror's** response.

Required Options

a. Product specifications in this Invitation may include **H-GAC** "Required Options". If so, **Offeror** must quote a price for ALL such options, and, if there is an **H-GAC** Option Code provided in this Invitation for such options, it MUST be used as part of the description.

b. For any specific "Required Option", **Offeror** may quote an equivalent so long as its design and performance are as good as, or better than, the specified option item. Responses which do not include pricing for Required Options may be considered non-compliant.

Other Options

a. "Suggested" or "Other" options may be listed for any particular Product in this Invitation, and **Offeror** is encouraged to quote pricing for such options. The extent of offered options in any response may be taken into consideration as part of the award criteria, at **H-GAC**'s sole discretion.

b. **Offeror** is encouraged to include options for non-equipment items that may be applicable to a sale, such as: Extended Warranties, Maintenance Agreements, Buy-back or Trade-In Agreements, Out-of-state Delivery Charges, Quantity or Special Discounts, Extended Training Classes, etc.

Published & Unpublished Options

a. H-GAC Cooperative Purchasing Program (Program) contracts are awarded through a public competitive bid or proposal (RFP) process. Further to that process, Program policy considers an 'option' listed and priced in a bid or RFP Response: (1) To be a "**Published Option**"; (2) To be part of any awarded contract; and (3) To be available for purchase by Program members separately and independently from associated base line items. However, since Published Options may have not been subjected to the same scrutiny as the associated base line items, it cannot be concluded they were directly competed. Therefore, pursuant to Local Government Code 252.021(a), purchase of a published option costing more than $50,000 shall not be allowed. Furthermore, **H-GAC** reserves the right at its sole discretion to disallow purchase of any Published Option through the Program if deemed contrary to the intent of the law.

b. Any option that has not been listed and priced in the Response is considered to be an "**Unpublished Option**"**.** Unpublished Options may be sold, but only in connection with the sale of a base Product Item, and only insofar as the total cost of all Unpublished Options remains below twenty five percent (25%) of the total summed cost of the base Product(s) plus any Published Options.

c. No Published or Unpublished Option may be sold which essentially converts a Product such that it competes with a Product Item awarded to another contractor.

21. WARRANTIES, SALES & SERVICE

Unless otherwise addressed in Section B, the following requirements shall apply:

a. Offeror must be a properly franchised dealer authorized to sell and service, including warranty service, all products offered and sold in response to the bid invitation or under any **H-GAC** contract.

b. **Offeror** shall provide detailed Parts and Labor Warranty information with the Response. If **Offeror** submits a warranty with the Response which does not meet the minimum requirements herein, **Offeror** agrees by submission of a Response that such warranty shall be considered to be amended to meet those minimums.

c. Warranties shall be manufacturer's standard and shall be inclusive of any other warranty requirements which may be stipulated elsewhere herein.

d. Any warranties offered by a dealer shall be in addition to the manufacturer's standard warranty, and shall not be a substitute for such. **Offeror**'s base price for any Product shall be inclusive of the standard warranty.

e. Complete warranty information will be supplied to **End User** with each Product sold.

a. Warranties need not apply to normal maintenance service or adjustments, or to any product reasonably shown to have been repaired or altered in any way so as to affect its stability, or to any product which has been subject to misuse, negligence, or accident.

f. **Offeror/Contractor** is encouraged to offer extended warranties as an option.

g. Neither **H-GAC** nor **End User** assume any warranty or liability on **Contractor**'s behalf unless made or assumed in writing, initiated by **Contractor**, and agreed to in writing by **H-GAC** or the **End User** respectively.

h. **Contractor** shall be responsible for the execution and effectiveness of all product warranty, and shall be the sole source for solution to problems arising from warranty claims. **Contractor** agrees to respond directly to correct warranty claims and to ensure reconciliation of warranty claims that have been assigned to a third party.

22. H-GAC ORDER PROCESSING CHARGE

H-GAC will levy an Order Processing Charge on **Contractor** for each sale done thru the **H-GAC** contract, **with the exception of orders for motor vehicles**. Any bid pricing submitted will be considered to include the Charge. The amount of the applicable charge shall be per the most current **H-GAC** schedule. For motor vehicle orders, the Processing Charge shall be levied on and paid by the **End User**.

23. PRE-PAYMENTS AND DISCOUNTS

a. Progress, pre-payment and special discounts of any kind may be offered and detailed in the Response. Such discounts shall be clearly explained, but shall not be a determining factor in awarding contracts except in the case of tie offerings.

b. Quantity discounts applicable to similar Products sold to one or more **End User** Departments may be offered. Determination as to product similarity shall rest solely with **Contractor**.

c. For specific purchases, any proposed quantity, pre-payment or special discounts shall be clearly shown on the Contract Pricing Worksheet.

24. INSPECTION / TESTING

All Products sold pursuant to this Invitation shall be subject to inspection/testing by or at the direction of **H-GAC** and/or the ordering **End User**, either at the delivery destination or the place of manufacture. In the event a Product fails to meet or exceed all requirements of this Invitation, and unless otherwise agreed in advance, the cost of any inspection and/or testing, shall be borne by the **Contractor**.

25. PRODUCT DELIVERY

Unless otherwise addressed in Section B, the following requirements shall apply:

a. Title to goods, and responsibility and liability for loss and/or damage in shipping pass to **End User** at the delivery destination after receipt and acceptance have taken place. Cost of shipping/delivery shall be paid by **End User** unless otherwise agreed to by **Contractor**. If **Contractor** will be paying for shipping/delivery, shipping terms must be "F.O.B. Destination, Freight Prepaid". If **End User** will be paying for shipping/delivery, shipping terms must be “F.O.B. Destination – Freight Collect”.

b. The details for the application and calculation of shipping and delivery charges must be stated in the Response on **Form E**. Any freight, shipping or delivery charged to **End User** will be prepaid and added to the invoice, and will be clearly shown an any Contract Pricing Worksheet or other quote presented to the **End User**.

c. The estimated delivery time after receipt of order (ARO), inclusive of Saturdays, Sundays and holidays, for all Products offered must be stated in the Response. Actual delivery for any particular order must be confirmed with **End User** at time of order placement, and must be stated clearly on the Contract Pricing Worksheet.

d. **Contractor** shall be responsible for delivery and Acceptance according to the requirements of the Contract and the Purchase Order.

e. Contractor shall advise **End User** prior to making any shipment/delivery, and shall make such shipment/delivery in accordance with **End User**'s requirements, providing only that such arrangements do not contravene any requirement of the **H-GAC** contract unless agreed to by **Contractor**.

f. The execution of all required tests, certifications and/or licensing, and costs thereof, shall be the responsibility of **Contractor**. Upon request by **End User** or **H-GAC**, **Contractor** shall provide any documentation or certification related to such tests, certifications or licensing.

26. OFFERED PRODUCT ITEM VARIANCES

Any variance in the specifications or performance of Products offered pursuant to this Invitation shall be acceptable to **H-GAC** only insofar as it MEETS or EXCEEDS the specifications and requirements of this Invitation.

27. REQUIREMENTS FOR SUBMISSION OF A RESPONSE

Unless otherwise addressed in Section B, the following requirements shall apply:

a. Responses shall be submitted in two complete printed sets including an Original and one (1) Copy in separate "hard side" three-ring binders. The outer spine of each binder shall be labeled showing this Invitation No., **Offeror** Name, and either "Original" or "Copy", as applicable. The Original printed response will be

considered to be the binding Response in case of any conflicts between printed copies and electronic copies. Except for required forms, **H-GAC** Invitation documents should not be included in the Response.

b. The Original and the Copy shall be submitted complete, except that the Electronic Media should be submitted only with the Copy.

c. All required **H-GAC** *FORMS* and documents shall be properly completed, without exception or **Offeror**'s Response may be deemed non-compliant. **Offeror** may not modify the format of any **H-GAC** *FORM* in any way. **Offeror** may photocopy or print blank *FORMS* as needed. Information submitted on the printed copies of the *FORMS* may not be handwritten except for signatures and initials. It is **Offeror**'s responsibility to insure that printed *FORMS* are clear and legible. Handwritten and illegible entries may be rejected. **Offeror**'s printed, stamped or typed name shall appear on every *FORM* submitted in the Response.

d. **The entire response submission** shall also be submitted on electronic media, including all required **H-GAC** *FORMS*. **Offeror** is strongly advised to make and work with copies of the original electronic *FORMS*. The originals can then be used to make additional electronic or printed copies of the blank *FORMS*. Signatures are not required on the electronic *FORMS*.

e. The Response shall include ample written evidence, in the form of technical specifications, cut/tear sheets, brochures, pictures, drawings, etc., to demonstrate that all specifications herein have been met and/or exceeded.

f. The Response shall include, in any format desired, an overview of the **Service Organization** which will support Products sold under any **H-GAC** contract. The overview must include facility locations, phone numbers and Service Manager names, as well as the following:

- The procedure to be used by an **End User** requiring repairs.
- Typical turn-around time on repairs.
- Service Department days and hours of operation.
- Number of qualified / factory trained service personnel normally on hand.
- Description of the parts inventory on hand.
- Training services, facilities and personnel available.

g. Responses shall be enclosed in a sealed package(s) addressed to the Houston-Galveston Area Council, Cooperative Purchasing. The following information shall be stated on the exterior of the package(s):

- Name and address of **Offeror**.
- Date and hour of public response opening.
- Bid/Proposal Invitation number.
- The statement: **"SEALED BID/PROPOSAL, DO NOT OPEN IN MAIL ROOM"**.

H-GAC shall not be responsible for any Response not properly labeled.

h. Submission of a COMPLETE Response by telegraphic or electronic transmission is not acceptable. However, Responses may be modified by telegraphic or electronic notice if such notice is received prior to the deadline for submission.

i. Samples, when required, shall be submitted within the time specified and at no expense to **H-GAC**. If not destroyed or consumed during testing, samples will be returned upon request at **Offeror**'s expense.

j. **Offeror** shall provide firm contract pricing for all Products and Options being offered.

k. If applicable, responses shall include copies of all current licensing which may be required by the Texas Motor Vehicle Division for execution of sales pursuant to any contract with **H-GAC**.

l. Due to the complexity of responses and to aid in evaluation, the Response should contain **ALL** required information in tabbed sections as detailed below. Omission of any required *FORM* or information will be sufficient grounds for **H-GAC** to consider your response to be non-compliant.

m. **First Section:**

- **Form(s) A – Offeror Identification & Signatory:** Identifies the offering party(ies), and should be completed by each party to the Response. If awarded, a contract will be executed with each.
- **Form B – Historically Underutilized Business Enterprises:** Used to collect information about disadvantaged and minority suppliers and subcontractors, and to commit **Offeror** to working with Participants toward their program goals.
- **Form C – Response Checklist:** Certification, and also an aid, to insure that all required information has been included in your Response.

- **Form W-9 – Request for Taxpayer Identification Number and Certification**: Should be completed by each party to the response.
- **Form CIQ – Conflict Of Interest Questionnaire:** Chapter 176 of the Texas Local Government Code requires vendors and consultants contracting or seeking to contract with **H-GAC** to file a Conflict of Interest Questionnaire (CIQ) if they have an employment or other business relationship with an **H-GAC** officer or an officer's close family member. The required questionnaire is located at the Texas Ethics Commission website: http://www.ethics.state.tx.us/whatsnew/conflict_forms.htm. It is Bidder's responsibility to download the form and furnish a completed copy with the Response.
- **Form 1295 – Certificate of Interested Parties** – Must be filled out electronically with the Texas Ethics Commission's online filing application, printed out, signed and provided from each entity that has submitted a Form A for this submission.
- **House Bill HB 89 Verification Form** – completed and signed and provided from each entity that has submitted a Form A for this submission.
- **References,** formatted as described elsewhere herein.
- **Service Organization Document**, formatted as described elsewhere herein.

Second Section:

- **Form D – Offered Items Pricing:** For Bids, contains the list of the Product Items covered by this Invitation. Select the items offered and fill in the price for each. (For RFPs, follow the instructions in Section B as this **Form** may or may not be used.)
- **Form E – Published Options:** Used to list and price all offered options. List, each on a separate line, all upgrades, downgrades, optional equipment, features, accessories and services which you desire to sell thru the **H-GAC** contract, if awarded. Published catalogs/price sheets may be listed, along with the discount structure that will apply. (For RFPs, follow the instructions in Section B as this **Form** may or may not be used.)

Third Section:

- Technical Specifications, Product Brochures, Tear Sheets, Cut Sheets, Strippers, etc. which clearly list and show all the standard features and capabilities of each Product Item offered on **Form D**.
- Warranty Documentation, as described elsewhere herein, for all items offered.

Fourth Section:

- Copies of any applicable Texas MVD Licenses.
- Electronic Media, containing the complete response including all required *FORMS*, stored in a pouch or an envelope such that it will not fall out of the binder. (Required in 'Copy' only, not in 'Original'.)

n. By submittal of Response, **Offeror** certifies to the best of its knowledge that all information is true and correct.

28. CLARIFICATION TO SPECIFICATIONS & REQUIREMENTS

a. If **Offeror** is in doubt as to the meaning of any item in this Invitation, a written request for clarification may be submitted to **H-GAC** up to fifteen (15) calendar days prior to the deadline for response submission. **H-GAC** shall not be responsible for late delivery. Requests may be transmitted by FAX or e-mail to the assigned Specification Specialist, and should clearly reference this Invitation number and the specific page and paragraph in question. If there are multiple questions, they should be stated separately and numbered.

b. Any interpretation of Invitation documents, if made, will be by written Addendum duly issued. A copy of such Addendum will be mailed or delivered to each person officially on record as having been sent a copy of this Invitation. **H-GAC** will not be responsible for any other explanation or interpretation of the Invitation documents made or given prior to the award of the contract.

c. Any objections to the Invitation documents must be filed in writing with **H-GAC** on or before fifteen (15) calendar days prior to the deadline for submission of responses.

d. Prospective offerors are advised that, after a draft specification has been issued, the Pre-Bid/Proposal Conference is the primary forum through which comments and suggestions may be offered for consideration by **H-GAC** prior to issuance of the final invitation and specifications.

e. All best efforts have been made to insure that the product/service descriptions and associated specification information in Sections B & C are correct, and adequate time has been given to prospective Offerors to point out mistakes. However, if an error remains and is caught by Offeror before the scheduled bid/proposal opening, Offeror shall make note of the required correction in the Response, and shall also notify **H-GAC** prior to the opening of responses.

29. INCONSISTENT INFORMATION

H-GAC review of responses supplied on **H-GAC** *FORMS* is a significant part of the evaluation process. **Offeror** shall state clearly all information required on the *FORMS*. **Offeror**'s information supplied on the *FORMS* shall take precedence in the event any standard "boilerplate" type language included in **Offeror**'s response is inconsistent with the information supplied by **Offeror** on the **H-GAC** *FORMS*. In all cases, information on **H-GAC**'s printed *FORMS* supplied as part of **Offeror**'s response shall take precedence over information supplied on electronic media.

30. REJECTION OF RESPONSES

a. **H-GAC** may reject a response if:
   - **Offeror** misstates or conceals any material fact in the Response, or if,
   - **Offeror** does not strictly conform to law or the requirements of this Invitation.

b. **H-GAC** may reject any and all responses, and may reject any part of a response.

c. **H-GAC, at it's sole discretion,** may also waive any formalities or irregularities in any response, or ask for corrected information except for pricing.

d. **The following occurrences require disqualification of the bid/proposals:**
   - Unsigned or unauthorized signatures on bids/proposals;
   - Bids received after the date and time for opening
   - Bids where prices are conditional on award of another bid or are subject to unlimited escalation

e. **H-GAC** may refuse to award a contract to or enter into a transaction with an apparent low bidder if that bidder is indebted to **H-GAC.**

31. WITHDRAWAL OR MODIFICATION OF RESPONSES

Once received by **H-GAC**, responses may be modified or withdrawn prior to the submission deadline only if the request to do so is in writing submitted by **Offeror's** authorized representative. Responses and requests for modification received after the submission deadline will not be accepted. Requests for response withdrawal received after the submission deadline will be accepted if the request to do so is in writing submitted by **Offeror's** authorized representative.

32. RESPONSE EVALUATION

For Bid Responses:

a. Section B will state whether the contract will be awarded to the lowest responsible bidder or to the bidder who provides goods or services at the best value for **H-GAC** and its participants.

b. If the contract will be awarded based on best value, Section B will state any relevant criteria which **H-GAC** will consider.

c. For each offered Product Item, **H-GAC** may use the offered price, prices for Required Options, and the prices of selected common Published Options to determine the lowest responsible offer.

d. Failure of **Offeror** to submit pricing for **frequently purchased** options and any **H-GAC** required options may cause response to be considered non-compliant at **H-GAC**'s sole discretion.

For Proposal Responses:

e. **H-GAC** will evaluate proposals as detailed in Section B.

f. By submission of a Response Offeror indicates acceptance of the evaluation technique, and recognizes and accepts that **H-GAC** may at it's sole discretion make subjective judgments during the evaluation process.

33. ORDER OF PRECEDENCE PRIOR TO CONTRACT AWARD

In the event of conflict between this document and any references or documents cited herein, this document shall take precedence prior to contract award.

34. AWARD OF CONTRACT

a. **H-GAC** reserves the right to accept or reject any Product Item or option offered. Additionally, all options included in Offeror's response and accepted by **H-GAC** are understood to be included in any contract.

b. **H-GAC** shall award contract(s) for line items or groups of line items, at its sole discretion.

c. With authority granted by the **H-GAC** Board of Directors, a written contract shall be presented to the successful **Offeror**(s) and shall be subject to acceptance by the successful **Offeror**(s) within forty-five (45) calendar days after presentation by **H-GAC**. If a contract is not executed within forty-five (45) calendar days, **H-GAC** may rescind the contract offer and award a contract to the next **Offeror** in order of rank as determined by **H-GAC**.

d. Delivery time and prompt payment discounts, including time allowed for payment, may be considered in tie-breaking of offers which are judged by **H-GAC** to be equal in all other criteria.

e. The contract shall include the following documents in the stated order of precedence:

1st The contract document signed by **H-GAC** and **Offeror**.
2nd This Invitation and all specifications referenced herein.
3rd **Offeror**'s response to this Invitation.

35. PRO-FORMA CONTRACT

This Invitation includes a Pro-Forma (sample) Contract which successful offerors will be expected to sign. The actual final contract will be the same or nearly the same as the Pro-Forma. NOTE: Successful Offerors MAY NOT process any purchase orders until the contract documents have been executed and returned to **H-GAC**.

36. CONTRACT TERM

The contract shall be in effect throughout the period stated elsewhere in the contract documents, and thereafter until such time as any outstanding orders against the contract have been fulfilled. The contract may be extended if deemed by **H-GAC** to be in the best interests of the Program, and subject to mutual agreement of the parties.

37. PERFORMANCE & PAYMENT BOND

H-GAC's contractual requirements DO NOT include a Performance & Payment Bond (PPB), and offered pricing should reflect this cost saving. However, **Contractor** must be prepared to offer a PPB to cover any specific order if so requested by **End User**. **Contractor** shall quote a price to **End User** for provision of any requested PPB, and agrees to furnish the PPB within ten business (10) days of receipt of **End User's** purchase order.

38. CHANGE ORDERS

End Users shall have the right to make additions by addenda for the purpose of clarification or inclusion of additional specifications, qualifications, conditions, etc. Any such addenda shall be made in writing and agreed upon by **Contractor** and the **End User** agency prior to issuance of any Change Order. A copy of any such Change Order shall be furnished by **Contractor** to **H-GAC**.

39. DUPLICATION OF TERMS OR STATEMENTS

Where statements or terms are duplicated or are extremely similar, **H-GAC** and the **End User** reserve the right to use the statement or term most favorable to **H-GAC** and/or the **End User**.

40. PUBLICITY

H-GAC encourages contractors to "market" the Program, and can provide some information and artwork to be used in published promotional materials. However, any publicity or published material released by **Contractor** referencing the contract, whether in the form of a press release, brochure, photographic coverage, or verbal announcement, shall be issued only with prior review and approval by **H-GAC**.

41. TAXES

HGAC and **End User** participants are either units of government or qualified non-profit agencies, and are generally exempt from Federal and State sales, excise or use taxes. **Offeror** shall not include any such taxes in the Response. Further, it shall be the responsibility of **Contractor** to determine the applicability of any taxes to a particular order and act accordingly. Exemption certificates will be provided upon request.

42. DRUG FREE WORKPLACE

Contractor shall provide notice to its employees and sub-contractors, as required under the Drug-Free Workplace Act of 1988. A copy of **Contractor's** Drug-Free Workplace policy shall, on request, be furnished to any **End User**.

43. PRODUCT NOTICES & MAILINGS

H-GAC is NOT the owner of Products sold pursuant to this Invitation, but acts only in the capacity of purchasing agent. In that regard, **Contractor** accepts sole responsibility for insuring that notices and mailings, such as Safety Alerts, Safety Recall Notices and Customer Surveys, are sent directly to the **End User** of record.

44. HANDLING OF ORDERS & PAYMENTS

In general, orders and payments will be handled as described below. More specific instructions and information regarding handling of purchase orders and the Order Processing Charge may be provided after contract award. Established procedures may be changed at any time by **H-GAC** as may be dictated by efficient business practice. The particulars of any sale, e.g. specific products, pricing, delivery, warranty, etc., will be in strict accordance with the terms and conditions of this Invitation and the specific contract awarded to **Contractor**. Beyond that:

a. For any particular procurement to be made under the provisions of an **H-GAC** contract, **End User** and **Contractor** will discuss requirements and agree as to what will be provided.

b. **Contractor** will prepare a Contract Pricing Worksheet and provide it to **End User**. The Worksheet will list everything being purchased including the base bid item(s), all published and unpublished options and the delivery date. All pricing shall be per the current contract.

c. **End User** will send a purchase document to **Contractor**, which **Contractor** will send **H-GAC** together with the Contract Pricing Worksheet. **NOTE: Contractor** agrees not to offer, agree to or accept from End User any terms or conditions that conflict with or contravene those in **Contractor**'s **H-GAC** contract, except for pricing discounts.

d. **H-GAC** will prepare an "Order Confirmation" and send it to **End User** and to **Contractor**. The Order Confirmation verifies that **Contractor** has a valid **H-GAC** contract and that the order is in compliance with the requirements of the **H-GAC** Cooperative Purchasing Program. **Contractor** will not ship any goods before receipt of both **End User**'s purchase document and **H-GAC**'s Order Confirmation.

e. On notification that **Contractor** has received an order, **H-GAC** will invoice **Contractor** for the applicable Order Processing Charge. **NOTE:** The Order Processing Charge is charged to **Contractor**, **EXCEPT in the case of motor vehicles**. For all sales of motor vehicles the Order Processing Charge is levied on the **End User**, collected by **Contractor**, and remitted to **H-GAC** by Contractor.

f. **Contractor** will deliver products/services ordered, and will invoice **End User** for products/services accepted by **End User**. (See other Sub-Section herein dealing with Product Delivery.) **Contractor** will not invoice before shipment has been made.

g. **End User** will pay **Contractor** for those products and/or services ordered which have been received and accepted. Under no circumstances shall any check be made payable to a representative or agent. Should a representative or agent submit an invoice to **End User** for any cost related to a purchase order issued to **Contractor** for products/services covered by an **H-GAC** contract, such invoice shall be forwarded to **Contractor** and **Contractor** will take action to correct the error.

h. Upon delivery of any product/service by **Contractor** and acceptance by **End User**, **Contractor** shall remit to **H-GAC** the full amount of the applicable Order Processing Charge in accordance with the payment terms established in the **H-GAC** contract. Note, the Order Processing Charge is due whether or not **Contractor** has ever received an invoice from **H-GAC**. Sales executed based on the particulars of **Contractor**'s **H-GAC** contract, without payment of the Order Processing Charge, may constitute fraud.

45. PRICE CHANGES

a. Any permanent increase or decrease in offered pricing for a base contract item or published option is considered to be a price change. Temporary increases in pricing by whatever name (e.g. 'surcharge', 'adjustment', 'equalization charge', 'compliance charge', 'recovery charge', etc.), are also considered to be price changes.

b. Except in the case of contracted published catalogs and price sheets, prices for Base Bid Items and Published Options are expected to be held firm for a minimum of 90 days from the date an awarded Offeror signs the H-GAC contract. Thereafter, changes will be considered if accompanied by justifying documentation satisfactory to H-GAC. For published catalogs and price sheets which are on an H-GAC contract, requests to amend the contract to reflect any new published catalog or price sheet may be submitted whenever the manufacturer publishes the new document. Any such request must include the new catalog or price sheet.

c. If **Contractor** routinely offers discounted contract pricing, **H-GAC** may request **Contractor** to accept amended contract pricing equivalent to the routinely discounted pricing.

d. No price change will be allowed unless it has been reviewed and approved by **H-GAC** in writing. **Contractor** must have received **H-GAC's** written approval of any change prior to charging the new price or using it in any quotation prepared for an End User.

e. Price change requests must be submitted to **H-GAC** in writing and must be received by **H-GAC** at least thirty (30) calendar days prior to the requested effective date of the change, and must state the time period for which the requested pricing will remain firm.

f. Price change requests shall include **H-GAC Forms D** and **E**, or whatever documentation was used to submit pricing in the original Response hereto, showing all affected items with current contract price, requested price, and percentage change shown clearly for each. This documentation should be submitted in MSExcel format to facilitate analysis and updating of the website.

g. Price change requests **MUST** be supported with substantive documentation (e.g. manufacturer's price increase notices, copies of invoices from suppliers, etc.) showing that **Contractor's** actual costs have increased. The Producer Price Index (PPI) may be used as partial justification, subject to approval by **H-GAC**, but no price increase based solely on an increase in the PPI will be allowed.

h. All Products shall, at time of sale, be equipped as may be required under any then current applicable local, state, and federal government requirements. If, during the course of any contract, changes are made to such government requirements which cause a manufacturer's costs of production to increase, **Contractor** may increase Product pricing to the extent of **Contractor's** actual cost increase. The increase must be substantiated with support documentation acceptable to **H-GAC** prior to taking effect. Modifications to a Product required to comply with such requirements which become effective after the date of any sale shall be the responsibility of the **End-User**.

i. In cases involving contract extensions exceeding sixty-one (61) days beyond the stated expiration date of the contract, **Contractor** may request a price change based on the same conditions as stated above. However the thirty (30) day prior notice is waived and **H-GAC** will consider the request immediately on receipt.

j. H-GAC reserves the right to accept or reject any price change request. Acceptance, if granted, will be in writing and the approved changes will become part of the contract.

46. CONTRACT ITEM CHANGES

a. If a manufacturer discontinues a contracted item, that item will automatically be considered to be deleted from the contract with no penalty to Contractor. However, **H-GAC** may at it's sole discretion elect to make a contract award to the next low offeror for the item, or take any other action deemed by **H-GAC** to be in the best interests of **End User**s, at its sole discretion.

b. If a manufacturer makes any change in a contracted item which does not affect the contract price, Contractor shall advise **H-GAC** of the details. If the 'new' item is equal to or better than the originally contracted item, the 'new' item shall be approved as a replacement. Otherwise **H-GAC** may allow or reject the change, or take any other action deemed by **H-GAC** to be in the best interests of **End User**s, at its sole discretion. If the change is rejected there will be no penalty to Contractor.

c. If a manufacturer makes any kind of change in a contracted item which affects the contract price, Contractor shall advise **H-GAC** of the details. **H-GAC** may allow or reject the change at its sole discretion. If the change is rejected there will be no penalty to Contractor. However, **H-GAC** may elect to make a contract award to the next low offeror for the item, or take any other action deemed by **H-GAC** to be in the best interests of **End User**s, at its sole discretion.

d. In the case of specifically identified catalogs or price sheets which have been contracted as base bid items or as published options, routine published changes to products and pricing shall be automatically incorporated into the contract. However, **Contractor** must still provide thirty (30) calendar days written notice and an explanation of the changes to products and pricing. **H-GAC** will respond with written approval.

47. FORCE MAJEURE

If either party shall be wholly or partially prevented from the performance of any contractual obligation or duty by reason of or through strikes, stoppage of labor, riot, fire, flood, acts of war, insurrection, accident., order of any court, act of God, or specific cause reasonably beyond the party's control and not attributable to its neglect or nonfeasance, in such event, the time for the performance of such obligation or duty shall be suspended until such disability to perform is removed. Determination of Force Majeure shall rest solely with **H-GAC**..

48. PERFORMANCE UNDER CONTRACT

H-GAC is committed to insuring that **Contractor** provides effective and efficient service to all Participants in the Cooperative Purchasing Program, and expects that certain Performance Conditions must be met. Failure to meet these conditions may result in contract termination. In that regard, **Contractor shall:**

a. Appoint a dedicated representative to be the contact person and focal point for all matters relating to End User quotations and orders. The representative shall have: A toll free phone number with voice mail; A fax number; A working e-mail address; and A postal address.

b. Insure that the representative timely monitors all communication modes listed above, and promptly responds to communications from **End User**s and **H-GAC** in any of these modes. Phone calls will be promptly returned, in any event not later than the next business day. Acceptable failure will be due only to Force Majeure.

c. Maintain sufficient qualified staff to promptly process all communications from **H-GAC** or **End User**s, and to efficiently, effectively and accurately service all requirements of the contract.

d. As may be requested by **H-GAC**, replace any staff members who are not providing the service and expertise deemed necessary by **H-GAC** for acceptable support of **End Users**.

e. Properly prepare and provide to **End User** a Contract Pricing Worksheet, or a quotation in other format as approved by **H-GAC**, for each and every order that is to be executed.

f. Furnish, on request of **H-GAC**, reasonable data, forms and graphic material to be used in brochures or other print media, or on **H-GAC**'s website.

g. Allow access to **H-GAC** authorized personnel for inspection of operating facilities, and auditing of purchase orders during the contract period, and for a period extending thru the completion of any outstanding orders. Site inspection may be arranged not less than ten (10) calendar days prior, shall include the names of all participants, and shall be at no expense to **Contractor**.

h. **Reporting Requirements:**

- **Contractor** agrees to submit written quarterly reports to **H-GAC** detailing all transactions during the previous three month period. Such reports shall include, but are not limited to the following:
- **End User** name
- Product/Service purchased, including Product Code if applicable
- End User Purchase Order Number
- Purchase Order Date
- Product/Service dollar amount
- **HGACBuy** Order Processing Charge amount
- Reports must be provided to **H-GAC** in MSExcel or other acceptable electronic format, and are due by the 30th day of the month following the applicable quarter being reported.

i. Should **Contractor** default in providing Products or Services as required by this Invitation and the contract, recourse may be exercised thru cancellation of the contract and other legal remedies as may be appropriate.

49. CONTRACTOR ORIENTATION/TRAINING

H-GAC believes that **Contractor's** familiarity with the operational policies and requirements of the Cooperative Purchasing Program is a key factor in achieving **End User** satisfaction. In that regard, the Contact Person listed on **Form A**, or an alternate, shall be required to participate in an **H-GAC** vendor orientation/training as soon as

possible after contract award. In addition, any other of Contractor's staff who will be involved in any way with the HGACBuy Program should participate in orientation. The orientation may be presented as a teleconference or webinar, or may be held in **H-GAC**'s offices as may be determined by **H-GAC** and Contractor to be the most efficient and effective form of delivery.

50. LEGAL & CONTRACTUAL REMEDIES

RESOLUTION OF PROTESTED SOLICITATIONS AND AWARDS

Procedure

Any actual or prospective **Offeror** or **Contractor** who is aggrieved in connection with a purchase transaction may file a grievance. The grievance may be filed at any phase of the procurement. In order for an above mentioned party to enter the grievance process, a written complaint must be sent to the Chief Operations Officer (COO) of **H-GAC** by certified mail which identifies the following:

1. Name, mailing address and business phone number of the complainant.

2. Appropriate identification of the procurement being questioned.

3. A precise statement of reasons for the protest.

4. Supporting exhibits evidence or documents to substantiate any claims.

The grievance must be based on an alleged violation of **H-GAC**'s Procurement Procedures, a violation of State or Federal law (if applicable), or a violation of applicable grant or contract agreements to which **H-GAC** is a party. Failure to receive a procurement award from **H-GAC** in and of itself does not constitute valid grievance. Upon receipt of grievance, the Chief Operations Officer will initiate the informal resolution process.

Expedited Resolution

The Procurement Officer or Departmental Director responsible for the solicitation shall contact the complainant and all interested parties and attempt to resolve the allegations informally within ten (10) working days from date of complaint. If the allegations are successfully resolved by mutual agreement, documentation will be forwarded to the Chief Operations Officer of the resolution with specifics on each point addressed in the original complaint.

If the Procurement Officer or Departmental Director is not successful in resolving the allegations, the complaint along with the comments will be forwarded to the Chief Operations Officer immediately. The Chief Operations Officer will review all documentation. All interested parties will be given written notice of the date, time, and place of the hearing and an opportunity to present evidence. A written decision will be issued within five (5) working days after the hearing along with notice of appeal rights.

Appeals

The complainant may appeal the Chief Operations Officer's decision by submitting a written appeal, within five (5) working days, to the Executive Director of **H-GAC**. The Executive Director, upon receipt of a written notice of appeal, shall contact the complainant and schedule a hearing within ten (10) working days. The Executive Director of **H-GAC** has the option of appointing a Hearing Officer to preside over the hearing. If appointed, the Hearing Officer shall conduct a hearing and forward a summary and recommended resolution to the Executive Director.

The decision reached by the Executive Director or his designee shall be final and conclusive. This decision will be forwarded to the complainant in writing within thirty (30) working days.

The **Contractor** may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a Court of competent jurisdiction.

RESOLUTION OF CONTRACT DISPUTES

Upon breach or default, **H-GAC** shall give the **Contractor** written notice of default. If the default is not remedied, within a reasonable specified time from date of notification, to the satisfaction and approval of **H-GAC**, default will be declared.

Upon breach of contract or default, **H-GAC** may exercise any and all of its rights afforded by law, including but not limited to those referenced in the General Contract Provisions.

SOLICITATIONS OR AWARDS IN VIOLATION OF THE LAW

Contracts awarded in violation of the competitive process or otherwise in violation of the law are voidable by **H-GAC**.

51. NATIONWIDE SALES OPPORTUNITIES

HGACBuy provides purchasing services to local governments qualifying non-profits throughout the nation, and desires to make established contracts available to them wherever and whenever practicable. Therefore, once a contract is awarded, **Contractor** is expected to expand the scope of its marketing effort to include sales to **End User**s in all areas of the United States, and/or to assign any **H-GAC** contract to another contractor(s) as deemed appropriate by **H-GAC** in the interest of its End Users.

- **Contractor** may sell through **HGACBuy** anywhere subject to compliance with applicable laws and regulations. If the market structure in which **Contractor** operates requires a contract assignment for any particular sale, **H-GAC** will expect **Contractor** to assign the contract to a Manufacturer or to another Dealer(s). Such assignment must be approved by **H-GAC**.
- **Contractor**'s differential costs (e.g. transportation & delivery charges) and allowances (e.g. manufacturer's sales incentives) related to any sale may be charged to buyer.

End of Section A General Terms And Conditions

SECTION B – PRODUCT SPECIFIC REQUIREMENTS
For
EE08-19 - EMERGENCY MEDICAL & RESCUE EQUIPMENT

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BACKGROUND & PURPOSE:
The Houston-Galveston Area Council **(H-GAC**) is a government agency which provides a Cooperative Purchasing Program as part of its service to other government agencies. The Program currently makes blanket type contracts, covering products and services for the use of its membership of more than 7000 local government participants including cities, counties, emergency service districts, school districts, etc. Any local government may participate in the Program so long as their state has "inter-local cooperation authority" or other joint power provisions that allow participation in cooperative activities. Currently, this practice is approved and provided through most states. There are also **no** costs associated with joining the **H-GAC** Cooperative Purchasing Program.

With this Bid Invitation, **H-GAC** is soliciting bids for the purpose of selecting qualified Manufacturers/Distributors to make their Emergency Medical & Rescue Equipment available to all current and future participants in this Cooperative Purchasing Program. This provides qualified governmental entities, political subdivisions and non-profit organizations the ability to purchase this equipment in an efficient, cost effective and competitive procurement method. This will be a multi-source contract for all Contractors/Distributors meeting or exceeding the minimum specifications set forth herein as well as meeting the lowest bidding requirements.

COMMITMENT
Offeror is required to make some basic commitments to insure the overall success of this program. By submission of a response, offeror commits to the following:

- **Corporate/Sales Commitment** – A commitment that **HGACBuy** has the support of senior management and that **HGACBuy** will be the primary government contracting vehicle when offering services/products awarded from this solicitation to eligible end users nationwide. A further commitment to aggressively market the program, both independently as well in partnership with **HGACBuy.**

- **HUB Participation** – It is **H-GAC's** goal to have Historically Underutilized Business Enterprise (HUB) participation in providing services under a contract. IF **Offeror(s)** intends to employ subcontractors in providing services/products related to this solicitation, **Offeror(s)** shall make and demonstrate a good faith effort to include HUB participation under a contract. **Offeror(s)** good faith effort shall include, but is not limited to the following affirmative steps (ref. 2CFR 200.321):

  1) Placing qualified small and minority businesses and women's business enterprises on solicitation list;

  2) Assuring that small and minority businesses and women's business enterprises are solicited whenever they are potential sources;

  3) Dividing total requirements, when economically feasible, into smaller task or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;

  4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;

  5) Using the services and assistance as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce;

NOTE: The term HUB as used in this solicitation is understood to encompass all programs/business enterprises such as Small Disadvantaged Business (SDB), Disadvantage Business Enterprise (DBE), Minority Owned Business Enterprise (MBE), Women Owned Business Enterprise (WBE) and Disabled Veteran Business Enterprise (DVBE).

PROCUREMENT PROCESS

The **HGACBuy** procurement process operates generally as follows:

a) End User/Buyer contacts Contractor and discusses requirements.

b) Contractor prepares an **HGACBuy** Contract Pricing Worksheet for End User/Buyer, based on **H-GAC** contract.

c) End User/Buyer sends a purchase order to Contractor, and Contractor faxes a copy to **H-GAC** along with the Contract Pricing Worksheet.

d) For each purchase order received, **H-GAC** will prepare an "Order Confirmation" and transmit it to both End User/Buyer and Contractor. The Order Confirmation verifies that Contractor has a valid **H-GAC** contract and that the order is being handled legally thru the **HGACBuy** Program.

e) **H-GAC** will invoice Contractor for the Order Processing Charge.

f) Contractor delivers the ordered product (s) and invoices End User/Buyer.

g) End User/Buyer pays Contractor for products(s) received and accepted.

h) Contractor remits Order Processing Charge to **H-GAC**.

PRICING

1. Offeror's pricing shall be equal to or better than the Offeror's pricing discounts normally extended to local governments.

2. All pricing shall be exclusive of freight, which will be added as a separate PO item at the time of each purchase, specific to the individual H-GAC Member's location, calculated as per carrier invoice. As per Section-A, HGAC orders shall be FOB destination, freight prepaid, with shipping arranged by Contractor (freight billed to Member) and responsibility for the shipment being with the Contractor up to the end user delivery point exchange.

3. For purposes of this Invitation and any subsequent contract, all items offered shall be identified by a seven (7) character alpha-numeric Product Code, as preformatted on **Form-D**. The 5th character represents the general equipment category. The 6th and 7th (alpha) characters represent the

manufacturer or brand and catalog.

4. Please note: **Form-D** is the desired format for specific, preapproved brands and catalogs, (or specific models / solutions). **Form-E** is intended for the pricing of options that are directly related to Form-D line items. **Form-E** is not intended as a medium for Offeror to price non-approved competing equipment, as this does allow for competitive bidding from other potential dealers (for example: if a dealer prices brand "A" lifts on Form-D, then a different brand, "B", may not also be listed on **Form-E**).

5. As described in **Section-A**, for each purchase order under an awarded contract, H-GAC will invoice contractors directly for the **1.5%** H-GAC purchase order processing charge. It is each Offeror's responsibility to take this into consideration when preparing **Form-D** and **Form-E** bid pricing, building this fee into the catalog line items and option prices, accordingly. During the life of the contract, the percentage discount shall still prevail on catalog line items. On purchase orders where a contractor extends an additional point-of-purchase discount, the order processing charge shall still be calculated by H-GAC against the awarded bid pricing before any additional discounts have been applied.

6. **Form-D: Catalog Line Items**

6.1 For each catalog priced under this Invitation, Offeror shall supply a comprehensive, percentage-off-list discount level for the described catalog, on **Form-D**. Catalog line items submitted without any listed discounts (i.e. zero-percent) may be deemed non-compliant. A zero-percent discount should be shown as "List" on Form D/E. If Offeror maintains that a single, comprehensive discount is not feasible for a given catalog bid (i.e. averaged discounts a problem due to very different margins across categories), then Offeror may submit multiple percentage discounts for a given catalog, by category; HOWEVER, in such a scenario, Offeror should limit the number of discount variances to the broad equipment categories found in a given catalog. **In the event of competition for said catalog, an average of these multiple discounts will be taken for evaluation purposes.**

6.2 Catalogs and their associated pricing shall be those official documents that are in effect at the time of the bid submittal (i.e. April 2019). If a manufacturer's catalog represented under this contract is changed (i.e. new and/or dropped items) during the contract period, Contractor shall notify HGAC of change and supply a digital copy of the new catalog version for a formal contract update.

6.3 For every Form-D listed catalog bid under this Invitation, Offeror shall include the following with bid package -- a copy of:

- The applicable manufacturer's catalog (**printed and digital copies**) with list pricing, and,
- If normally a separate document, an associated list price book/sheet (printed and digital copies), with manufacturer item codes, options descriptions, and list prices.

Clarification: for catalogs bid that do not include list pricing as integral to the catalog, a separate price book/list must be included. Failure to include this will result in Offerors' bid for this specific catalog being deemed non-compliant.

7. **Form-E Options Pricing:**

7.1 Offeror shall use **Form-E** to price all common options and services that relate to the base items bid on **Form-D**. For catalog line items, Offeror shall include those related value-added services and accessories that fall outside the catalog, such as extended warranties or installation.

PRODUCT CATEGORIES:

This Invitation is meant to include a comprehensive range of different types Emergency Medical & Rescue Equipment from various manufacturers. The Product Categories covered by this bid are defibrillators, chest compression systems and related rescue equipment:

Portable Defibrillators & Chest Compression Systems

- **A.** In-Home / Work & Onsite Public Access AED
- **B.** Biphasic Automated External Defibrillators
- **C.** Semi-Automatic Biphasic Defibrillators w/ECG Monitoring
- **D.** Manual Biphasic Defibrillators w/ECG Monitoring
- **E.** Semi-Automatic Manual Biphasic Defibrillators
- **F.** Chest Compression Systems
- **G.** Other Products Related To Defibrillators

Emergency Rescue Equipment

- **A.** Self-Contained Breathing Apparatus (SCBA)
- **B.** Spreaders
- **C.** Cutters
- **D.** Combination Spreader/Cutter Tools
- **E.** Rams
- **F.** Stabilization/Shoring Struts
- **G.** Air Lift Rescue Bags
- **H.** Hand-Held Thermal Imaging Equipment
- **I.** Fire Rescue Saws
- **J.** Electronic Personnel Accountability System (STAND-ALONE)
- **K.** Breathing Air Systems
- **L.** Bunker Gear

Note: Each Base Product covered by this Invitation has been pre-listed on **Forms D (**Portable Defibrillators & Chest Compression Systems) **& D1 (**Emergency Rescue Equipment), and is identified by a unique **H-GAC** Product Code. Bidders shall decide which line items to bid and shall fill in a bid price in the appropriate cell on **Forms D & D1**. It is this bid pricing that will determine contract awards.

STANDARD EQUIPMENT & ACCESSORIES:

All products bid and purchased hereunder must be the manufacturer's complete standard equipment and accessories, with all basic features as shown in the manufacturer's printed literature, except as may be explicitly modified by these specifications.

Note: Bidder shall supply a spec sheet for each product code bid on Form D and/or D1. These sheets should detail Model No's and what features are included in the price quoted for each of these line items.

Note: Defibrillator batteries to be priced/included in bid price.

A. In-HOME / WORK & ONSITE PUBLIC ACCESS AED

- Biphasic waveform
- Clear voice instructions, including guidance through CPR
- Designed to deliver shock ONLY if needed
- All electrical leads and connections shall be isolated
- Ability to use on an Adult as well as a Child/Infant

- To include a training video at a minimum
- Self-tests its system, daily or weekly

B. BIPHASIC AUTOMATED EXTERNAL DEFIBRILLATOR

- Biphasic waveform
- Standards: AAMI, IEC 60601, CSA
- Unit to be waterproof
- Batteries: Non-Rechargeable, Lithium or rechargeable sealed lead-acid batteries.
- Energy output not to exceed 360 joules

Electrical Protection: All leads protected against high voltage defibrillator pulses.
Output Energy Sequence: Three levels, user configurable.
Audible tones and voice prompt to assist user throughout the operation sequence.

- Event Documentation: Internal digital memory or approved equal
- Controls: POWER ON; ANALYZE and/or starts ECG analysis

C. SEMI-AUTOMATIC BIPHASIC DEFIBRILLATOR w/ECG MONITORING

- Biphasic waveform
- Standards: AAMI, UL544, IEC 601, CSA
- Defibrillator Advisory: Evaluate electrode connection and patient ECG to determine if defibrillation is needed.
- Batteries: Rechargeable.
- Energy output not to exceed 360 joules

Smart Alarms: Meeting standards and guidelines set by the AAMI and AHA.
Display: High-resolution.
Heart Rate Display and Alarms: Manufacturers standard following AAMI and AHA standards and guidelines.
Thermal array recorder.

D. MANUAL BIPHASIC DEFIBRILLATOR w/ECG MONITORING

- Biphasic waveform
- Standards: AAMI, UL544, IEC 601, CSA
- Defibrillator Advisory: Evaluate electrode connection and patient ECG to determine if defibrillation is needed.
- Batteries: Rechargeable.
- Energy output not to exceed 360 joules

Display: Hi-Resolution.
Patient Connection: 3-lead ECG cable, paddle and electrodes.
ECG monitoring
Recorder: Initiated by alarm conditions and defibrillator discharge.
Event memory: Continuous recording of ECG data and device status.

E. SEMI-AUTOMATIC MANUAL BIPHASIC DEFIBRILLATOR w/ESCALATING JOULES

The following specifications will describe a basic, semi-automatic manual biphasic external defibrillator with an escalating energy output not to exceed 360 joules, battery powered, compact and waterproofed. The following specifications are minimum requirements except where noted.

- Biphasic waveform
- Standards: MIL-STD-461D, RE101; EN55011, class B, Group 1. Susceptibility: MIL-STD-461D, CS114, RS101.
- Unit to be waterproof.
- Defibrillator Advisory: Evaluate electrode connection and patient ECG to determine if defibrillation is needed.

Event Recording: Continuous recording of ECG data and events (including waveform and annotations)
Monitor: ECG patient monitoring.

- Batteries: NiCad or rechargeable SLA (sealed lead-acid).
- Energy output not to exceed 360 joules

Display: Monochrome.
Recording capabilities.

F. CHEST COMPRESSION SYSTEMS:

All systems must be delivered and ready for immediate use. These compression systems may be mode of operation may be pneumatic or electrical. These systems must be designed to deliver uninterrupted compressions at a consistent rate and depth to facilitate return of spontaneous circulation.

LCD Display
AHA Guidelines
Memory for downloading data for CPR review and documentation
Audible alarms prompting for ventilation, pausing and patient movement

G. OTHER PRODUCTS RELATED TO DEFIBRILLATORS:

H-GAC is always looking for new products to better serve its End Users. These shall be products that are similar in nature to defibrillators, generally hi-tech, not normally considered an off-the-shelf item, and should have a significant dollar value. These new product listings are items already being purchased by various governmental agencies and or non-profit organizations. **H-GAC** always has the right to eliminate any products listed and priced on **Form D** and **Form E**, due to the inability to enhance this contract. These "other products" shall be listed and priced on **Form E** as options. Bidder can list these products individually or provide a price list/catalog and identifying the pricing method for H-GAC members (i.e. % discount etc.).

COMPLIANCE REQUIREMENTS FOR SCBA'S & RESCUE EQUIPMENT:
Bidders shall specify whether the Rescue Equipment being bid is compliant with the standards (NFPA 1936/1981/1982, NIOSH, CBRN, NFPA 1801) specified in Section B and listed on Form D1. Bidder shall simply enter (yes/no or n/a) in the appropriate column for each item being bid where applicable. Compliance with these standards is not mandatory in order to participate in this bid process. Contract awards will be based on bid pricing provided on Forms D & D1.

HYDRAULIC-POWERED EXTRICATION EQUIPMENT

There are four (4) categories of Extrication Equipment: **Spreaders**; **Cutters**; **Combos**; and **Rams**. Each category contains minimum design and package configurations for a number of extrication equipment models. Bidders shall choose one or more of the models listed, each designated by a distinctive three alpha character product code pre-listed on **Form D1** to bid. Bidder shall reference the specific model on H-GAC documents by these product codes. The following descriptions shall represent minimum design parameters for each tool. Each Base Unit shall be designed for the purpose of extrication on structurally collapsed settings or vehicle/machinery entrapment.

Note: Bidder must specify for each of the above four categories whether or not the equipment being bid is compliant with the NFPA 1936 *Standard for Power Rescue Tool Systems* (latest edition) -- including accessories (safety factor minimums per NFPA) on **Form D1**.

Note: Independent, third party compliance certification, per NFPA guidelines shall be provided for NFPA 1936 compliant tools bid upon request.

Note: Each system shall come equipped with a detailed operator's manual (the price of which shall be included in the bidder's Base Unit price) and be warranted against manufacturer's defects (workmanship and materials) for a minimum of one (1) year, effective on delivery.

Note: Compatible Power Units are to be listed as options and priced accordingly for any hydraulically powered extrication tool being quoted on **Form E**.

A. SELF-CONTAINED BREATHING APPARATUS (SCBA)

The following description shall represent minimum design parameters for each SCBA. Each unit shall be designed for the purpose of mobile breathing support in fire settings. Each model shall be an open circuit, positive pressure ("pressure demand") type, self-contained breathing instrument. All units sold shall have all pneumatics, harness & back plate, cylinders, and headpiece-mask warranted against manufacturer's defects (workmanship and materials) for a minimum of five (5) years, effective upon delivery, and electronics warranted against manufacturer's defects (workmanship and materials) for a minimum of two (2) years, effective upon delivery. Each base unit SCBA system shall be priced with the following:

a) 100 LPM high airflow performance (NFPA 1981 standards at the time of bid shall take precedence).
b) Air cylinder, with connections
c) Mask (medium size), with an anti-fog lens of polycarbonate or equally-performing material
d) A flame-resistant harness and padded back plate
e) EOS Indicators – Two (2) (per NFPA 1981, Sections 4)
f) A low-pressure warning signal (@ 33% of cylinder's capacity), with an analog/digital-monitoring gauge. An independent, two-stage pressure regulator system, with a manual bypass operation. The first stage pressure reducer shall be a fail-safe design, initially reducing pressure, directly mounted to cylinder valve or via high-pressure hose connection. The second stage, pressure demand regulator, working in tandem with the first, responsive to operator's respiratory demand. The regulatory design shall incorporate an emergency by-pass valve, under separate circuitry.
g) Heads-Up-Display (HUD), activated by pressurization of system, constantly visible to user (NFPA 1981, latest edition)
h) Rapid intervention crew ("RIC") universal air line connection to facilitate the replenishment of air to SCBA cylinder, permanently mounted (per NFPA 1981, latest edition)

Note: SCBA's bid are to be compliant with the Latest Edition of NFPA 1981/1982.

B. SPREADERS

The following description shall represent minimum design parameters for each spreader. Each Base Unit shall be a variable speed hydraulic design, with a quick-connect coupler, in tool steel, aluminum alloy, or comparably performing metals for the body, arms, tips, pistons, and valves. Each unit priced and sold under this invitation shall possess a positive operation "deadman" safety engagement design and be warranted against manufacturer's defects (workmanship and materials) for a minimum of one (1) year, effective upon delivery.
Note- Electric or Electric over Hydraulic Spreaders are to be environmentally sound, such that there are no exposed hydraulic or gasoline fluids. These tool systems shall be battery powered, portable and suitable for both outdoor and indoor use. Bidder shall quote controller units, power cables, battery packs, jumper cables, & battery chargers as options on **Form E.**

C: CUTTERS

The following description shall represent minimum design parameters for each cutter. Each unit shall be designed for the purpose of extrication on structurally collapsed settings or vehicle/machinery entrapment, with at least one moveable blade that is used to cut/shear/sever material. Each Base Unit shall be a variable speed hydraulic design, in tool steel, aluminum alloy, or comparably performing metals for the body, blades, tips, pistons, and valves. Each unit priced shall possess a positive operation "deadman" safety engagement design and be warranted against manufacturer's defects (workmanship and materials) for a minimum of one (1) year, effective upon delivery.
Note- Electric or Electric over Hydraulic Cutters are to be environmentally sound, such that there are no exposed hydraulic or gasoline fluids. These tool systems shall be battery powered, portable and suitable for both outdoor and indoor use. Bidder shall quote controller units, power cables, battery packs, jumper cables, & battery chargers as options on **Form E**.

D. COMBINATION SPREADER/CUTTER TOOLS

The following description shall represent minimum design parameters for each combination tool. Each unit shall be designed for the purpose of extrication on structurally collapsed settings or vehicle/machinery entrapment, with both spreading and cutting capabilities. Each Base Unit shall be a variable speed hydraulic design, in tool steel, aluminum alloy, or comparably performing metals for the body, blades, tips, pistons, and valves. Each unit priced shall possess a positive operation "deadman" safety engagement design and be warranted against manufacturer's defects (workmanship and materials) for a minimum of one (1) year, effective upon delivery.
Note- Electric or Electric over Hydraulic Combination spreader/cutter tools are to be environmentally sound, such that there are no exposed hydraulic or gasoline fluids. These tool systems shall be battery powered, portable and suitable for both outdoor and indoor use. Bidder shall quote controller units, power cables, battery packs, jumper cables, & battery chargers as options on **Form E**.

E. RAMS

The following description shall represent minimum design parameters for each hydraulic ram. Each unit shall be designed for the purpose of extrication on structurally collapsed settings or vehicle/machinery entrapment. Each Base Unit shall be a variable speed hydraulic design, in tool steel, aluminum alloy, or comparably performing metals for the body, piston rods, and ram ends. Each unit priced shall possess a positive operation "deadman" safety engagement design and be warranted against manufacturer's defects (workmanship and materials) for a minimum of one (1) year, effective upon delivery.

Note- Electric or Electric over Hydraulic Rams are to be environmentally sound, such that there are no exposed hydraulic or gasoline fluids. These tool systems shall be battery powered, portable and suitable for both outdoor and indoor use. Bidder shall quote controller units, power cables, battery packs, jumper cables, & battery chargers as options on **Form E**.

F. STABILIZATION/SHORING STRUTS

The following description shall represent minimum design parameters for each tool. Each *stabilization /shoring strut* shall be designed for fire & rescue personnel for bracing applications on collapsed light structure settings (walls, ceilings, etc.) and/or vehicle/machinery entrapment, providing vertical, horizontal, and angled support capability. Each base unit strut shall be manually, pneumatically, or hydraulic activation designs, positive locking, in high strength steel, alloy, or composite material. All units sold shall be warranted against manufacturer's defects (workmanship and materials) for a minimum of one (1) year, effective upon delivery.

G. AIR LIFT RESCUE BAGS

The following description shall represent minimum design parameters for each bag. Each unit shall be designed for the purpose of vehicle/machinery lifting and stabilization in low, medium, and high pressure designs. Each unit shall be an inflatable design, constructed of neoprene, aramid, or nylon, and rubber, in reinforced layers, with neoprene or rubber covers. Each unit shall be capable of inflation to a desired air volume/height, with an SCBA cylinder (2216/3000/4500 PSI), compressor, or compressed air source (equipped with appropriate connections).

H. HAND-HELD THERMAL IMAGING EQUIPMENT

The following description shall represent minimum design parameters for each imager. Each unit shall be designed for the purpose of victim and fire identification by detecting gradations in environmental temperatures, by the detection and conversion of infrared radiation into a visible light picture. Each Base Unit shall be a hand held thermal imager designed for the purpose of rescue vision enhancement, designed in a barium strontium titanate ceramic (BST) or microbolometer sensor types).

Each base unit imager shall be priced with the following:

- Two (2) rechargeable batteries, (12 volt & 120 volt adapter) and Charger Base
- Shock absorbent rear visor/shroud and adjustable side strap
- Padded carrying case (to be bid as an option on Form E)

Note: Bidder must specify on **Form D1** if bid unit is compliant with NFPA 1801 regarding water proofing, and FCC requirements for electromagnetic emissions, static discharge and AC voltage fluctuations.

I. FIRE RESCUE SAWS

The following description shall represent minimum (i.e. base unit) design parameters for each saw. Each unit shall be designed for the purpose of satisfying rescue, ventilation, and extraction needs for fire/rescue personnel, in building and/or vehicle settings. Each base unit shall be designed and equipped to cut through wood; asphalt, metal, & wood shingles; doors, trees, and gauged steel sheeting. Each unit shall be built in accordance to all current EPA regulations, including Phase II standards (HC, CO, Nox) for Class III, IV, and V ("Non-Road Spark Ignition Engines"). All units sold shall be warranted against manufacturer's defects (workmanship and materials) for a minimum of one (1) year, effective upon delivery. All base units shall come equipped with:

- Handle
- Scrench tool
- Lubrication system
- Guide bar (on chain models)

- A positive operation "deadman" safety engagement design
- A general purpose carbide/alloy segmented blade /chain* (as applicable)
- A low vibration design
- Chain brake (where applicable)
- Muffler
- Blade guard (on circular saw models)
- Oil filtration system
- Detailed operator's manual
- Carry Case

J. Electronic Personnel Accountability System (Stand-Alone)

The following description shall represent the minimum design parameters for each system. Each system to consist of a Command Base or a PC based Command platform configured in a 2-way signaling capability to communicate with NFPA 1982 compliant (NFPA 1982 standards at the time of bid shall take precedence) stand-alone PASS (Personal Alert Safety System) devices, and portable repeaters if needed. System shall provide Command immediate notification of a downed or distressed firefighter and can be used to transmit Evacuation signals to personnel when deemed appropriate by Command. Notification of firefighter distress conditions shall include audible and visual alerts. The Stand-Alone Electronic Accountability System ensures automatic monitoring via the 2-way signaling PASS of the life safety status of each person on the fire scene by Command, with or without the use of SCBA, for total fire scene accountability.

K. BREATHING AIR SYSTEMS

Systems (mobile & stationary) pre-listed on Form D1 being bid must be compliant with current NFPA standards where applicable. These units shall be completely assembled, adjusted, and all equipment including standard and supplemental equipment shall be installed and the unit made ready for continuous operation. Options for these systems are to be listed on **Form E**.

L. BUNKER / WILDLAND RESCUE GEAR

Bidders are encouraged to quote Bunker and Wildland Rescue Gear and Protective Accessories. Bunker Gear materials and construction shall meet or exceed NFPA Standard 1971 (latest edition), and/or OSHA for structural fire fighters protective clothing. Wildland Gear shall meet the latest editions of both NFPA 1977 and 1951 standards. These manufacturers have been pre-listed on **Form D1** for bid purposes. Bidder shall quote the manufacturer catalog listed in the form of a % discount (off list/retail). Discount to be shown in the Base Offered Price Column.

Note: An electronic copy of any mfg. catalog and retail price sheet listed on **Form D1** must be included with the bid.

WARRANTY, PREVENTIVE MAINTENANCE AND DISCOUNTS:

Defibrillator Warranty: All devices such as monitors and recorders and optional accessories (other than disposable items) shall be covered by a minimum of a one (1) year warranty on material and workmanship under normal service. Standard warranty times per Product Code and per Contractor may vary and therefore, shall be indicated as such on **Form D.** A fully disclosed list of Product Warranties shall be listed and/or sent as an attachment to **Form E** on the bid document. This shall include all products including all optional components.

Hydraulic Rescue Tools: All units sold shall be warranted against manufacturer's defects (workmanship and materials) for a minimum of one (1) year, effective upon delivery.

Extended Warranties: When so specified and agreed to in an END USER purchase order, an extended warranty shall be provided to cover a period of time from the expiration date of the standard warranty. Extended warranties must be explained and listed in detail (including the cost) on the response **Form E**.

Multiple Unit Discounts: The bidder must state in their bid response **Form E** any discounts for End-Users placing multiple unit orders per purchase order and exactly what parameters must be met in order to receive these additional pricing discounts.

TRAINING:

Defibrillators:

Training shall be carried out either on the device itself using an external ECG rhythm simulator or using a separate AED training unit. This separate training unit shall not deliver any energy and shall be compatible with any CPR manikin system. In-service training videos shall be included with each device. The manufacturer shall make in-house technical service personnel available to answer protocol, training, and device questions. The standard training program or process for each Base Product Code, shall be indicated on **Form E** as well as any cost to the End User associated with any part of the program.

Rescue Equipment:

With the purchase of new equipment described herein, contractors shall provide H-GAC Members with adequate training, which, at the very least, shall be comprised of one (1) detailed operator training manual in written and video (*if produced*) formats), covering operation, preventative maintenance, and safety (**the price of this item(s) shall be included in the base unit price**). Additionally, HGAC Members must have an ongoing opportunity for communication with an engineer, sales engineer, or qualified technician, beginning at the time of delivery and extending for the life of each item sold.

AWARDS

EVALUATIONS AND AWARDS

For each specific **Form-D** line item, H-GAC will recommend awards to the contractor with the highest overall score providing the best value.

- **Scoring Component: Pricing**
  For each line item, a review of Offerors' submitted bid prices will be conducted. Where pricing elements are satisfied, **(including a thorough and accurate Form-E,** electronic copies, et cetera), each Offeror will be ranked first, second, third, et cetera based upon system/product pricing or catalog discount levels, whichever is applicable for a given line item.

  Form-D Base Bid Price will be weighted to 90% of the total score

  For any given line item / product code evaluated, where there more than one Offeror exists, each Offeror will be assigned, based on the aforementioned price ranking (percentage discount level on catalog line items and Base Unit price on non-catalog line items) a rank (1, 2, 3, etc.). Each rank will then be adjusted against the weighed multiplier to arrive at this Pricing subsection score.

  Note: HGAC reserves the right to utilize this Pricing component to adjust for an Offeror's inadequate **Form-E** pricing, whereby, the individual offeror's rank may be adjusted accordingly

- **Scoring Component: Past Performance**
  An evaluation will be conducted of the Offeror's previous sales performance as an HGACBuy Contractor. This is weighted at a maximum 10% of the total score. If an Offeror is a current vendor and has sales, they will receive the full 10%, no sales, 0%. First-time bids will receive the maximum 10% for this scoring component. Each Offeror's rank will be adjusted against the 10% / 0% index to arrive at this Past Performance subsection score

  For each line item, an offeror will receive a final score, comprised of the score for their Pricing and Past Performance scores.

Note: In the event of a tie, H-GAC reserves the right to utilize additional factors in compiling a tie breaker, which may include an offeror's specific H-GAC member sales data, number and location of branches, depth and breadth of priced options, a vendor's reporting and fee remittance history with HGAC, vendor history with respect to HGAC members, et cetera.

NOTE: For joint bids (e.g. a single response from multiple dealers), each Form-A submitted in the offeror's response will be scored per the above criteria and an overall average will be taken of all Form-A's submitted to determine the overall score for each joint bid submission.

MARKETING & SERVICE PLAN (FORM-H)

H-GAC expects proposer to have the capability and willingness to serve any H-GAC Member across the nation, and to promote this contract to the best of its ability. Consistent with this, proposer should acknowledge this, with a description of the resources that will most likely be employed in serving H-GAC Members (e.g. staff appointed to manage the contract, possible revised processes for purchase orders, staff training relating to this contract) and in promoting this contract (e.g. sales calls, mail-out campaigns, et cetera

---------- **This is the end of Section B** ----------

SECTION C - H-GAC FORMS

(Rev 12/02/09)

For Use In Responding To Competitive Bid And Proposal Invitations

Invitation No.: EE08-19

Title: Emergency Medical & Rescue Equipment

This Section contains the following **H-GAC** *FORMS* .

FORM	DESCRIPTION
Form A:	Offeror Identification and Authorized Signatory
Form B:	Historically Underutilized Business Enterprises
Form C:	Response Checklist
Forms D/D1:	Offered Items Pricing
Form E:	Published Options
Form H	Marketing Plan
Form W-9	Request for Taxpayer Identification Number and Certification
Form CIQ	Conflict of Interest Questionnaire
Form 1295	Certificate of Interested Parties
HB 89	Prohibition on Contracts with Companies Boycotting Israel
CCI	Contractor Contact Information

These *FORMS* are hereby made available in electronic format. They should be copied to Offeror's computer for completion and/or printout as required. The *FORMS* **may not** be changed or altered in any way, except as may be specified on the *FORM* .

ALL completed *FORMS* must also be submitted electronically on electronic media (DVD, CDRom, flash/thumb drive), excepting of course for signatures. The printed "Original" of the response will be considered as the official copy in case of any discrepancy between the electronic version and the printed Original.

FORM A - OFFEROR IDENTIFICATION & AUTHORIZED SIGNATORY
(DO NOT handwrite this Form. Information must be typed in.)

Invitation No.: EE08-19

Invitation Title: Emergency Medical & Rescue Equipment

Offeror Company: _____

(Legal name of business which will appear on contract, if awarded)

Offeror Status: ☐ **Manufacturer** ☐ **Dealer/Distributor** ☐ **Other**

Response Type(1): ☐ **Single Offeror Acting Alone Or As Lead** ☐ **Multiple Offerors Acting Jointly**

Contract Signatory(2): _____ **Title:** _____

Mailing Address(3): _____

Street/PO Box City State & Zip

Physical Address: _____

Street City State & Zip

Phone: _____ **Fax:** _____

Email Address: _____

Federal Tax ID No.: _____ **Web Page URL:** _____

(1) If Joint Offering, all parties must submit a signed Form A. A contract will be offered to each.

(2) Person who will sign final contract documents if an award is made.

(3) Address to which final contract documents would be sent for signature.

Member Contact Information

Contact Person(4): _____ **Title:** _____

Mailing Address: _____

Street/PO Box City State & Zip

Physical Address: _____

Street City State & Zip

Toll Free Phone: _____ **Fax:** _____

Email Address: _____

(4) Person who End Users will contact for product information and to get pricing quotes.

The Signatory below, on behalf of Offeror:

- Acknowledges having thoroughly reviewed the Invitation;
- Attests to having the authority to sign this response and commit Offeror to honor all requirements;
- Makes, under penalty of perjury, all required Offeror Certifications as detailed in General Terms;
- Certifies that all information provided in this Response is true and correct.

Signature: _____ **Title:** _____

Printed Name: _____ **Date:** _____

FORM B - HISTORICALLY UNDERUTILIZED BUSINESS ENTERPRISES **Procurement No.:** EE08-19

Title: Emergency Medical & Rescue Equipment

Offeror:

Most, if not all, of the Members of HGACBuy are subject to various requirements relative to purchasing goods and services from Historically Underutilized Business Enterprises (HUBs)(See Note 1). These requirements are promulgated by federal and state governmental authorities, and include measureable criteria such as 'percentage of total dollars spent directed to HUBs', 'number of HUB contractors used', 'HUB subcontractors employed by primary contractors', etc. These requirements are generally formalized in goal oriented programs.

HGACBuy is comitted to promoting full and equal business opportunities for HUB contractors, and to assisting Cooperative Purchasing Program (COOP) Members in meeting mandated HUB goals. In that regard, Contractor shall make a good faith effort to use the services of Certified/Listed (See Note 2) HUBs whenever possible.

As part of a good faith effort, Contractor agrees to work with and assist HGACBuy Members in meeting HUB targets and goals, as may be required by any rules, processes or programs they might have in place. Such assistance may include such things as compliance with reporting requirements, provision of documentation, consideration of 'Certified/Listed' subcontractors, provision of documented evidence that an active participatory role for a HUB entity was considered in a procurement transaction, etc.

Note 1: There are many designations other than "HUB" used across the country within various jurisdictions. Examples include terms such as Disadvantaged Business Enterprise (DBE), Minority Owned Business Enterprise (MBE), Woman Owned Business Enterprise (WBE), Small Disadvantaged Business (SDB), Small, Woman or Minority-owned Business (SWAM), etc. Regardless of the formal designation, the overall objective of the relavant programs is basically the same, i.e. to insure that disadvantaged and underutilized members of the business community receive a fair share of public spending. The term HUB as used herein shall be understood to encompass all such programs/business enterprises, no matter what terminology is used by the Member.

Note 2: The terms "Certified" and "Listed" as used in conjunction with HUB programs relate to the process of HUB qualification review. Jurisdictions usually require that companies claiming HUB status be reviewed and confirmed as meeting certain minimum requirements to claim that status, and that the review and confirmation process be carried out by certain designated entities. They are then "Certified" or "Listed" by having their name included on an official listing published by the Certifying or Listing Authority.

Accepted and Agreed By:	
Title:	Date:

HUB Status Of Offeror

☐ Offeror is a HUB, as detailed below. ☐ Offeror is not a HUB.

Designation(s): ☐ HUB ☐ DBE ☐ MBE ☐ WBE ☐ Other

Certifying/Listing Authority(s):

Subcontracts

On a separate sheet, list any subcontractors that would be employed in providing products or services related to this procurement. Include subcontractor name, designation (HUB, DBE, etc.) and certifying/listing authority.

☐ Subcontractor List attached. ☐ No Subcontractors will be used.

FORM C - RESPONSE CHECKLIST | **Procurement No.:** EE08-19

Title: Emergency Medical & Rescue Equipment

Offeror:

This *FORM* is provided to help insure that all required Response elements have been completed and included, or certified as being available upon request. **Responses that do not comply with all requirements may be considered non-compliant.** Offeror's signatory must review each item below, and certify by initialing in the space to the right.

	This Response Includes:	**Init.**
1	An "Original" hard copy of the **COMPLETE** submission, including all required *FORMS,* plus one copy, each in a separate **hard-sided** 3-ring binder.	
2	A copy of the **COMPLETE** submission, including all required *FORMS*, in **electronic format** (CD, DVD, flash drive). **Forms D & E are to be provided in an excel format.**	
3	An originally signed **Form A** from all entities who are party to this submission and who should be offered a contract if this submission is successful.	
4	**Forms-- A, B, C, D, E, H (EXCEL FORMAT) 1295, W-9, CIQ, HB89, CCI. Note: Each Contractor submitting a Form A must provide a 1295, W-9, CIQ, HB89 & CCI form.**	
5	The required list of **References**.	
6	Details of "**Service Organization"**, including locations, hours, personnel and parts/service availability. (Applies to hard goods only.)	
7	Complete **Warranty Documentation** for all Products offered.	
8	The manufacturer's latest **Specification Documents** detailing standard features, operating characteristics, etc., for all products offered. **Note: Bidder shall supply a spec/quote sheet for each product code bid on Form D/D1. These sheets should detail what features are included in the price quoted on Forms D/D1.**	
9	If the **Non-Resident Reciprocal Bid Act** applies, a copy of your state statute and a determination of the status of Texas bidders/proposers in your home state. If not applicable, indicate "N/A"	
10	If offer includes motor vehicles to be sold in Texas, copies of all current licenses as required by the Texas Motor Vehicle Commission.	
11	A Bid/Proposal Bond, or Cashier's Check in the amount of $3,000.00. (A percentage bond is NOT acceptable.)	**N/A**

H-GAC 'FORM D' - PRODUCT ITEM -- BASE OFFERING PRICES		
	Offeror Name:	
	Invitation No.:	**EE08-19 - Emergency Medical & Rescue Equipment**

INSTRUCTIONS: Fill in unshaded areas. Shaded columns for H-GAC use only.

Offeror shall price the current version (at the time of this invitation's open bid period) of the chosen catalog(s) listed below, and shall include, per Section-B: (a) printed and electronic copy of each catalog; (b) a separate list price sheet/book if not part of the manufacture catalog (printed and electronic copy); (c) percentage discount off list prices, on Form-D; (d) additional pricing on Form-E.

Product Code	Manufacturer	Description	Discount - Off-List Percentage	Bid Price Rank	Bid Price Score (Bid Price Rank x .90)	Bid Price Rank	Past Sales Performance Score (Bid Price Rank x 0/.10)	Awardee (Highest Score) (Columns K + M)
A. In-Home Work & Onsite Public Access AED								
EE19A11	Cardiac Science	CARDIAC SCIENCE 2019 Price List						
EE19A21	HeartSine	HeartSine 2019 Price List						
EE19A31	Physio-Control	Physio-Control 2019 Price List						
EE19A41	Philips	Philips 2019 Price List						
EE19A61	Zoll Medical	Zoll 2019 Price List						
EE19A71	Defibtech	Defibtech 2019 Price List						
B. Biphasic Automated External Defibrillator								
EE19B11	Cardiac Science	CARDIAC SCIENCE 2019 Price List						
EE19B21	Heatsine	HeartSine 2019 Price List						
EE19B31	Physio-Control	Physio-Control 2019 Price List						
EE19B41	Philips	Philips 2019 Price List						
EE19B61	Zoll Medical	Zoll 2019 Price List						
C. Semi-Automatic Biphasic Defibrillator w/ECG Monitoring								
EE19C11	Cardiac Science	CARDIAC SCIENCE 2019 Price List						

EE19C21	HeartSine	HeartSine 2019 Price List						
EE19C31	Physio-Control	Physio-Control 2019 Price List						
EE19C41	Philips	Philips 2019 Price List						
EE19C61	Zoll Medical	Zoll 2019 Price List						
EE19C71	Defibtech	Defibtech 2019 Price List						
D. Manual Biphasic Defibrillator w/ECG Monitoring								
EE19D31	Physio-Control	Physio-Control 2019 Price List						
EE19D41	Philips	Philips 2019 Price List						
EE19D61	Zoll Medical	Zoll 2019 Price List						
EE19D71	Defibtech	Defibtech 2019 Price List						
E. Semi-Automatic Manual Biphasic Defibrillator w/Escalating Joules								
EE19E21	HeartSine	HeartSine 2019 Price List						
EE19E31	Physio-Control	Physio-Control 2019 Price List						
EE19E61	Zoll Medical	Zoll 2019 Price List						
F. Chest Compression Systems								
EE19F61	Zoll Medical	Zoll 2019 Price List						
EE19F91	Physio-Control	Physio-Control 2019 Price List						

H-GAC 'FORM D1' - PRODUCT ITEM BASE OFFERING PRICES		
	Offeror Name:	
	Invitation No.:	**EE08-19 - Emergency Medical & Rescue Equipment**

INSTRUCTIONS: Fill in unshaded areas. Shaded columns for H-GAC use only.

Offeror shall price the current version (at the time of this invitation's open bid period) of the chosen catalog(s) listed below, and shall include, per Section-B: (a) printed and electronic copy of each catalog; (b) a separate list price sheet/book if not part of the manufacture catalog (printed and electronic copy); (c) percentage discount off list prices, on Form-D; (d) additional pricing on Form-E.

Product Code	Mfg.	Model & Description	Discount - Off-List Percentage	Bid Price Rank	Bid Price Score (Bid Price Rank x .90)	Bid Price Rank	Past Sales Performance Score (Bid Price Rank x 0/.10)	Awardee (Highest Score) (Columns K + M)
A. Self-Contained Breathing Apparatus (SCBA)								
EE19AAA	Draeger	Draeger Responder Catalog Effective 03/01/2019						
EE19ABA	Avon Protection Systems	Avon Protection 2019 Supplied Air Price List						
EE19ACA	MSA	MSA 2019 US Suggested List Price Book (Effective Jan 1, 2019)						
EE19ADA	3M Scott Safety	2019 3M Scott Fire & Safety Price List Effective 02/01/2019						
EE19AEA	Interspiro	Interspiro 2019 US Suggested List Price Schedule, Effective 01/01/2019						
EE19AFA	Honeywell	Honeywell Respiratory Protection, 2018-2019 Price List						
B. Spreaders								
EE19BAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						
EE19BBA	Amkus	2019 AMKUS Rescue Systems Price List						
EE19BCA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						

EE19BDA	Hurst Products	Hurst Jaws of Life - Price List 2019 - eDRAULIC						
EE19BDB	Hurst Products	Hurst Jaws of Life - Price List 2019 - 5000 PSI						
EE19BDC	Hurst Products	Hurst Jaws of Life - Price List 2019 - 10,000 PSI						
EE19BDD	Hurst Products	Hurst Jaws of Life - Price List 2019 - StrongArm						
EE19BEA	Power Hawk	Power Hawk S-1601 Spreader, Price List 2018						
EE19BFA	TNT	TNT Rescue Systems Inc Price List						
C. Cutters								
EE19CAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						
EE19CBA	Amkus	2019 AMKUS Rescue Systems Price List						
EE19CCA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						
EE19CDA	Hurst Products	Hurst Jaws of Life - Price List 2019 - eDRAULIC						
EE19CDB	Hurst Products	Hurst Jaws of Life - Price List 2019 - 5000 PSI						
EE19CDC	Hurst Products	Hurst Jaws of Life - Price List 2019 - 10,000 PSI						
EE19CDD	Hurst Products	Hurst Jaws of Life - Price List 2019 - StrongArm						
EE19CEA	Power Hawk	Power Hawk C-1601, Curved Blade-Price List 2018						
EE19CFA	TNT	TNT Rescue Systems Inc Price List						
D. Combination Spreader/Cutter Tools								
EE19DAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						

EE19DBA	Amkus	2019 AMKUS Rescue Systems Price List						
EE19DCA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						
EE19DDA	Hurst Products	Hurst Jaws of Life - Price List 2019 - eDRAULIC						
EE19DDB	Hurst Products	Hurst Jaws of Life - Price List 2019 - 5000 PSI						
EE19DDC	Hurst Products	Hurst Jaws of Life - Price List 2019 - 10,000 PSI						
EE19DDD	Hurst Products	Hurst Jaws of Life - Price List 2019 - StrongArm						
EE19DEA	Power Hawk	Power Hawk CS-1602, Straight Blade- Price List 2018						
EE19DFA	TNT	TNT Rescue Systems Inc Price List						
E. Rams								
EE19EAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						
EE19EBA	Amkus	2019 AMKUS Rescue Systems Price List						
EE19ECA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						
EE19EDA	Hurst Products	Hurst Jaws of Life - Price List 2019 - eDRAULIC						
EE19EDB	Hurst Products	Hurst Jaws of Life - Price List 2019 - 5000 PSI						
EE19EDC	Hurst Products	Hurst Jaws of Life - Price List 2019 - 10,000 PSI						
EE19EDD	Hurst Products	Hurst Jaws of Life - Price List 2019 - StrongArm						
EE19EEA	Power Hawk	Power Hawk P-25, Ram 25 Inches-Price List 2018						

EE19EFA	TNT	TNT Rescue Systems Inc Price List						
F. Stabilization/Shoring Struts								
EE19FAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						
EE19FBA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						
EE19FCA	Paratech	Paratech 2019 List Price Schedule						
EE19FDA	Rescue 42	Rescue 42 2019 Price List						
EE19FEA	ResQtec	Profix PX-M 600 Struts, Profix PXM 880 Struts, Profix PX-M 1400 Struts, Profix PX-M 2300 Struts-Price List 2018						
EE19FFA	AMKUS	2019 AMKUS Rescue Systems Price List						
G. Air Lift Rescue Bags								
EE19GAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						
EE19GBA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						
EE19GCA	Hurst-Vetter	Vetter Rescue Price List 2019						
EE19GDA	Paratech	Paratech 2019 List Price Schedule						
EE19GEA	ResQtec	NT-2 Lifting Bags, NT-4 Lifting Bags, NT-8 Lifting Bags Price List 2018						
H. Hand-Held Thermal Imaging Equipment								
EE19HAA	Bullard	Bullard Fire Thermal Imaging Pricing Effective Feb. 1, 2019						
EE19HBA	Avon Protection Systems	The argus Range of Thermal Imaging Cameras 2019 Price List						
EE19HCA	Scott / ISG	2019 Master Price List, excel-2019 US Price List, PDF						
EE19HDA	MSA	MSA 2019 US Suggested List Price Book (Effective Jan 1, 2019)						

EE19HEA	FLIR	FLIR Fire Segment & UAV Kits 2018-2019 Price List						
EE19HFA	Draeger	Draeger Responder Catalog Effective 03/01/2019						
I. Fire Rescue Saws								
EE19IAA	Cutters Edge	Cutters Edge Retail Price List 2019						
EE19IBA	Tempest	Tempest Technology Fire Price List, 2019						
EE19ICA	Unifire	Unifire Products Price List						
EE19IDA	Super Vac	Super Vac Fan Price List, 2018-2019						
EE19IEA	Stihl	Fire Hooks Unlimited 2019 Price List - Effective 01/01/2019						
EE19IFA	Partner	Fire Hooks Unlimited 2019 Price List - Effective 01/01/2019						
J. Electronic Personnel Accountability System (Stand-Alone)								
EE19JAA	Grace, Ind.	GRACE INDUSTRIES FireFighter Catalog 2019 US Price Pages						
K. Breathing Air Systems								
EE19KAA	3M Scott Safety	3M Scott Safety Compressor Product 2019 Price List						
EE19KBA	Bauer	Bauer Compressors 2019 Price List						
EE19KCA	Stallian air	Stallion Air 2019 Price List						
EE19KDA	Eagle Air	EagleAir Price List - 2019						
EE19KEA	Artic	Artic 2019 List Price - Effective 02/01/2019						
L. Bunker/Wildland Rescue Gear (Pricing to be shown as % discount off List/Retail)								
EE19LAA	Lion	LION Turnouts and Accessories 2019 Price List						
EE19LAB	Lion	LION HEAD & EYE PROTECTION 2019 Price List						
EE19LAC	Lion	LION PROTECTIVE GLOVES 2019 Price List						

EE19LAD	Lion	LION TECHNICAL FOOTWEAR 2019 Price List						
EE19LAE	Lion	LION TR51 TECHNICAL RESCUE AND RECOVERY ENSEMBLE 2019 Price List						
EE19LAF	Lion	LION VERSA PRO 2019 Price List						
EE19LBA	Honeywell	Morining Pride TAILS 2019 Price List						
EE19LBB	Honeywell	Morning Pride RANGER 2019 Price List						
EE19LBC	Honeywell	Morning Pride Viper Edge VE 2019 Price List						
EE19LBD	Honeywell	Morning Pride and EV1 Helmet 2019 Price List						
EE19LBE	Honeywell	Gloves Hoods Suspenders 2019 Price List						
EE19LBF	Honeywell	Footwear 2019 Price List						
EE19LCA	TECGEN	2019 Fire-Dex Consumer Price List						
EE19LCB	TECGEN	RESCUE80 2019 Price List						
EE19LDA	Crewboss Div of Western Shelter	Wildland Gear						
EE19LEA	Veridian	Veridian Fire Protective Gear 2019 Price List						
EE19LFA	Globe	Globe Classix SE 2019						
EE19LFB	Globe	Globe Classix Metro 2019						
EE19LFC	Globe	Globe Letters and Accessories 2019						
EE19LFD	Globe	Globe IH Ready 2019						
EE19LFE	Globe	Globe G-Xtreme 3.0 2019						
EE19LFF	Globe	Globe Athletix 2019						

EE19LFG	Globe	Globe G-Xcel 2019						
EE19LFH	Globe	Globe GX-7 2019						
EE19LFI	Globe	Globe Footgear 2019						
EE19LGA	PGI	Fireline products & Hoods						
EE19LHA	Lakeland Fire	OSX Brand - Lakeland Fire 2019 List Price Schedule - Effective 01/01/2019						
EE19LHB	Lakeland Fire	SCX Brand - Lakeland Fire 2019 List Price Schedule - Effective 01/01/2019						
EE19LHC	Lakeland Fire	MTS Brand - Lakeland Fire 2019 List Price Schedule - Effective 01/01/2019						
EE19LIA	Stanfield's	Lifeliner Hoods Catalog						
EE19LJA	Fire-Dex	2019 Fire-Dex Consumer Price List (Eff. March 2019)						
EE19LKA	Chieftain	2019 Fire-Dex Consumer Price List (Eff. March 2019)						
EE19LLA	Innotex	Innotex Price List 2019 VER 20190101						
EE19LMA	VIKING	2019 Viking Pricing						
EE19LNA	Bullard	Fire & Rescue Helmets Price List (Eff. Feb. 1, 2019)						
EE19LOA	Majestic Fire Apparel	Majestic Fire Apparel 2018-2019						
EE19LPA	Weinbrenner/ Thorogood	Thorogood Fire & Uniform Price List, 2018-2019						
EE19LQA	Shelby Specialty Gloves	Shelby Specialty Gloves, Work/Rescue/Extrication/Fire-NFPA Compliant, 2018-2019						
EE19LRA	Firecraft Safety	Firecraft Safety Products, 2018-2019 Price List						
EE19LSA	Dragon Gloves	Dragon Fire Brand Gloves						

EE19LTA	HAIX	Haix EMS Station Boots, Fire Boots, Forestry Boots, LE Boots, 2019 Price List						
EE19LUA	Cosmas	Footwear - Cosmas 2019 List Price - Effective 01/01/2019						
EE19LVA	MSA	Fire and Rescue Helmets-Effective 01/15/2019						

FORM E - PUBLISHED OPTIONS	**Procurement No.:**	**EE08-19**

Offeror Name:	
Notes: (Important)	1) Use a single **Form E** for ALL Option/Accessory items and quote each on a single, separate line. **DO NOT** use multiple **Form E**'s… Add or insert additional lines as necessary. 2) Completely describe each item. Include the manufacturer's code or part number. Each item listed **MUST** have a unique code or part number so that it can be identified in any subsequest contract. 3) Options which replace standard equipment on a **Form D/D1** Item should be priced net of any credit due for the replaced item. 4) Options which are upgrades/downgrades of a **Form D/D1** Item should be priced at the differential amount between the cost of the **Form D/D1** Item and the upgrade/downgrade option.

Code or Part No.	**Option Description**	**Offered Price**

Form H - Marketing	**Invitation No.: EE08-19**
Offeror Name:	
Bidder shall provide a written narrative explaining in some detail activities that will be undertaken to actively market and promote an H-GAC contract to local government and non-profit End Users.	

H-GAC

Houston-Galveston Area Council
P.O. Box 22777 · 3555 Timmons · Houston, Texas 77227-2777

Cooperative Agreement -

GENERAL PROVISIONS

This Agreement is made and entered into, by and between the Houston-Galveston Area Council hereinafter referred to as H-GAC having its principal place of business at 3555 Timmons Lane, Suite 120, Houston, Texas 77027 and _____., hereinafter referred to as the Contractor, having its principal place of business at _____.

WITNESSETH:

WHEREAS, H-GAC hereby engages the Contractor to perform certain services in accordance with the specifications of the Agreement; and

WHEREAS, the Contractor has agreed to perform such services in accordance with the specifications of the Agreement;

NOW, THEREFORE, H-GAC and the Contractor do hereby agree as follows:

ARTICLE 1: LEGAL AUTHORITY
The Contractor warrants and assures H-GAC that it possesses adequate legal authority to enter into this Agreement. The Contractor's governing body, where applicable, has authorized the signatory official(s) to enter into this Agreement and bind the Contractor to the terms of this Agreement and any subsequent amendments hereto.

ARTICLE 2: APPLICABLE LAWS
The Contractor agrees to conduct all activities under this Agreement in accordance with all applicable rules, regulations, directives, standards, ordinances, and laws, in effect or promulgated during the term of this Agreement, including without limitation, workers' compensation laws, minimum and maximum salary and wage statutes and regulations, and licensing laws and regulations. When required, the Contractor shall furnish H-GAC with satisfactory proof of its compliance therewith.

ARTICLE 3: INDEPENDENT CONTRACTOR
The execution of this Agreement and the rendering of services prescribed by this Agreement do not change the independent status of H-GAC or the Contractor. No provision of this Agreement or act of H-GAC in performance of the Agreement shall be construed as making the Contractor the agent, servant or employee of H-GAC, the State of Texas or the United States Government. Employees of the Contractor are subject to the exclusive control and supervision of the Contractor. The Contractor is solely responsible for employee related disputes and discrepancies, including employee payrolls and any claims arising therefrom.

ARTICLE 4: WHOLE AGREEMENT
The General Provisions, Special Provisions, and Attachments, as provided herein, constitute the complete Agreement ("Agreement") between the parties hereto, and supersede any and all oral and written agreements between the parties relating to matters herein. Except as otherwise provided herein, this Agreement cannot be modified without written consent of the parties.

ARTICLE 5: SCOPE OF SERVICES

The services to be performed by the Contractor are outlined in an Attachment to this Agreement.

ARTICLE 6: PERFORMANCE PERIOD
This Agreement shall be performed during the period which begins _____ and ends _____. All services under this Agreement must be rendered within this performance period, unless directly specified under a written change or extension provisioned under Article 15, which shall be fully executed by both parties to this Agreement.

ARTICLE 7: PAYMENT OR FUNDING
Payment provisions under this Agreement are outlined in the Special Provisions.

ARTICLE 8: REPORTING REQUIREMENTS
If the Contractor fails to submit to H-GAC in a timely and satisfactory manner any report required by this Agreement, or otherwise fails to satisfactorily render performances hereunder, H-GAC may terminate this agreement with notice as identified in Article 16 of these General Provisions. H-GAC has final determination of the adequacy of performance and reporting by Contractor. Termination of this agreement for failure to perform may affect Contractor's ability to participate in future opportunities with H-GAC. The Contractor's failure to timely submit any report may also be considered cause for termination of this Agreement.

Any additional reporting requirements shall be set forth in the Special Provisions of this Agreement.

ARTICLE 9: INSURANCE
Contractor shall maintain insurance coverage for work performed or services rendered under this Agreement as outlined and defined in the attached Special Provisions.

ARTICLE 10: SUBCONTRACTS and ASSIGNMENTS
Except as may be set forth in the Special Provisions, the Contractor agrees not to subcontract, assign, transfer, convey, sublet or otherwise dispose of this Agreement or any right, title, obligation or interest it may have therein to any third party without prior written approval of H-GAC. The Contractor acknowledges that H-GAC is not liable to any subcontractor or assignee of the Contractor. The Contractor shall ensure that the performance rendered under all subcontracts shall result in compliance with all the terms and provisions of this Agreement as if the performance rendered was rendered by the Contractor. Contractor shall give all required notices, and comply with all laws and regulations applicable to furnishing and performance of the work. Except where otherwise expressly required by applicable law or regulation, H-GAC shall not be responsible for monitoring Contractor's compliance, or that of Contractor's subcontractors, with any laws or regulations.

ARTICLE 11: AUDIT
Notwithstanding any other audit requirement, H-GAC reserves the right to conduct or cause to be conducted an independent audit of any transaction under this Agreement, such audit may be performed by the H-GAC local government audit staff, a certified public accountant firm, or other auditors designated by H-GAC and will be conducted in accordance with applicable professional standards and practices. The Contractor understands and agrees that the Contractor shall be liable to the H-GAC for any findings that result in monetary obligations to H-GAC.

ARTICLE 12: EXAMINATION OF RECORDS
The Contractor shall maintain during the course of the work complete and accurate records of all of the Contractor's costs and documentation of items which are chargeable to H-GAC under this Agreement. H-GAC, through its staff or designated public accounting firm, the State of Texas, and United States Government, shall have the right at any reasonable time to inspect, copy and audit those records on or

off the premises by authorized representatives of its own or any public accounting firm selected by H-GAC. The right of access to records is not limited to the required retention period, but shall last as long as the records are retained. Failure to provide access to records may be cause for termination of the Agreement. The records to be thus maintained and retained by the Contractor shall include (without limitation): (1) personnel and payroll records, including social security numbers and labor classifications, accounting for total time distribution of the Contractor's employees working full or part time on the work, as well as cancelled payroll checks, signed receipts for payroll payments in cash, or other evidence of disbursement of payroll payments; (2) invoices for purchases, receiving and issuing documents, and all other unit inventory records for the Contractor's stocks or capital items; and (3) paid invoices and cancelled checks for materials purchased and for subcontractors' and any other third parties' charges.

The Contractor further agrees that the examination of records outlined in this article shall be included in all subcontractor or third-party agreements.

ARTICLE 13: RETENTION OF RECORDS

The Contractor and its subcontractors shall maintain all records pertinent to this Agreement, and all other financial, statistical, property, participant records, and supporting documentation for a period of no less than seven (7) years from the later of the date of acceptance of the final payment or until all audit findings have been resolved. If any litigation, claim, negotiation, audit or other action involving the records has been started before the expiration of the retention period, the records shall be retained until completion of the action and resolution of all issues which arise from it, or until the end of the seven (7) years, whichever is later, and until any outstanding litigation, audit, or claim has been fully resolved.

ARTICLE 14: CHANGES AND AMENDMENTS

A. Any alterations, additions, or deletions to the terms of this Agreement, which are required by changes in federal or state law or by regulations, are automatically incorporated without written amendment hereto, and shall become effective on the date designated by such law or by regulation.
B. To ensure the legal and effective performance of this Agreement, both parties agree that any amendment that affects the performance under this Agreement must be mutually agreed upon and that all such amendments must be in writing. After a period of no less than 30 days subsequent to written notice, unless sooner implementation is required by law, such amendments shall have the effect of qualifying the terms of this Agreement and shall be binding upon the parties as if written herein.

ARTICLE 15: TERMINATION PROCEDURES

The Contractor acknowledges that this Agreement may be terminated for Convenience or Default.

A. *Convenience*
   H-GAC may terminate this Agreement at any time, in whole or in part, with or without cause, whenever H-GAC determines that for any reason such termination is in the best interest of H-GAC, by providing written notice by certified mail to the Contractor. Upon receipt of notice of termination, all services hereunder of the Contractor and its employees and subcontractors shall cease to the extent specified in the notice of termination.

   The Contractor may cancel or terminate this Agreement upon submission of thirty (30) days written notice, presented to H-GAC via certified mail. The Contractor may not give notice of cancellation after it has received notice of default from H-GAC.
B. *Default*

H-GAC may, by written notice of default to the Contractor, terminate the whole or any part of the Agreement, in any one of the following circumstances:

(1) lf the Contractor fails to perform the services herein specified within the time specified herein or any extension thereof; or

(2) If the Contractor fails to perform any of the other provisions of this Agreement for any reason whatsoever, or so fails to make progress or otherwise violates the Agreements that completion of services herein specified within the Agreement term is significantly endangered, and in either of these two instances does not cure such failure within a period often (10) days (or such longer period of time as may be authorized by H-GAC in writing) after receiving written notice by certified mail of default from H-GAC.

ARTICLE 16: SEVERABILITY

H-GAC and Contractor agree that should any provision of this Agreement be determined to be invalid or unenforceable, such determination shall not affect any other term of this Agreement, which shall continue in full force and effect.

ARTICLE 17: FORCE MAJEURE

To the extent that either party to this Agreement shall be wholly or partially prevented from the performance of any obligation or duty placed on such party by reason of or through strikes, stoppage of labor, riot, fire, flood, acts of war, insurrection, accident, order of any court, act of God, or specific cause reasonably beyond the party's control and not attributable to its neglect or nonfeasance, in such event, the time for the performance of such obligation or duty shall be suspended until such disability to perform is removed. Determination of force majeure shall rest solely with H-GAC.

ARTICLE 18: CONFLICT OF INTEREST

No officer, member or employee of the Contractor or subcontractor, no member of the governing body of the Contractor, and no other public officials of the Contractor who exercise any functions or responsibilities in the review or Contractor approval of this Agreement, shall participate in any decision relating to this Agreement which affects his or her personal interest, or shall have any personal or pecuniary interest, direct or indirect, in this Agreement.

ARTICLE 19: FEDERAL COMPLIANCE

Contractor agrees to comply with all federal statutes relating to nondiscrimination, labor standards, and environmental compliance. Additionally, for work to be performed under the Agreement or subcontract thereof, including procurement of materials or leases of equipment, Contractor shall notify each potential subcontractor or supplier of the Contractor's federal compliance obligations. These may include, but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§ 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) the Fair Labor Standards Act of 1938 (29 USC 676 et. seq.), (d) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794), which prohibits discrimination on the basis of handicaps and the Americans with Disabilities Act of 1990; (e) the Age Discrimination in Employment Act of 1967 (29 USC 621 et. seq.) and the Age Discrimination Act of 1974, as amended (42 U.S.C. §§ 6101-6107), which prohibits discrimination on the basis of age; (f) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (g) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to the nondiscrimination on the basis of alcohol abuse or alcoholism; (h) §§ 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (i) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. § 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (j) any other nondiscrimination provisions in any specific statute(s)

applicable to any Federal funding for this Agreement; (k) the requirements of any other nondiscrimination statute(s) which may apply to this Agreement; (l) applicable provisions of the Clean Air Act (42 U.S.C. §7401 et seq.), the Federal Water Pollution Control Act, as amended (33 U.S.C. §1251 et seq.), Section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and the Environmental Protection Agency regulations at 40 CPR Part 15; (m) applicable provisions of the Davis- Bacon Act (40 U.S.C. 276a - 276a-7), the Copeland Act (40 U.S.C. 276c), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-332), as set forth in Department of Labor Regulations at 20 CPR 5.5a; (n) the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

ARTICLE 20: CRIMINAL PROVISIONS AND SANCTIONS

The Contractor agrees to perform the Agreement in conformance with safeguards against fraud and abuse as set forth by the H-GAC, the State of Texas, and the acts and regulations of any related state or federal agency. The Contractor agrees to promptly notify H-GAC of any actual or suspected fraud, abuse, or other criminal activity through the filing of a written report within twenty-four (24) hours of knowledge thereof. Contractor shall notify H-GAC of any accident or incident requiring medical attention arising from its activities under this Agreement within twenty-four (24) hours of such occurrence. Theft or willful damage to property on loan to the Contractor from H-GAC, if any, shall be reported to local law enforcement agencies and H-GAC within two (2) hours of discovery of any such act.

The Contractor further agrees to cooperate fully with H-GAC, local law enforcement agencies, the State of Texas, the Federal Bureau of Investigation and any other duly authorized investigative unit, in carrying out a full investigation of all such incidents.

The Contractor shall notify H-GAC of the threat of lawsuit or of any actual suit filed against the Contractor pertaining to this Agreement or which would adversely affect the Contractor's ability to perform services under this Agreement.

ARTICLE 21: INDEMNIFICATION AND RECOVERY

H-GAC's liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to its order processing charge. In no event will H-GAC be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor agrees, to the extent permitted by law, to defend and hold harmless H-GAC, its board members, officers, agents, officials, employees and indemnities from any and all claims, costs, expenses (including reasonable attorney fees), actions, causes of action, judgements, and liens arising as a result of Contractor's negligent act or omission under this Agreement. Contractor shall notifiy H-GAC of the threat of lawsuit or of any actual suit filed against Contractor relating to this Agreement.

ARTICLE 22: LIMITATION OF CONTRACTOR'S LIABILITY

Except as specified in any separate writing between the Contractor and an END USER, Contractor's total liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, but excluding its obligation to indemnify H-GAC, is limited to the price of the particular products/services sold hereunder, and Contractor agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. In no event will Contractor be liable for any loss of use, loss of time, inconvenience, commercial loss, loss of profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor understands and agrees that it shall be liable to repay and shall repay upon demand to

END USER any amounts determined by H-GAC, its independent auditors, or any agency of State or Federal government to have been paid in violation of the terms of this Agreement.

ARTICLE 23: TITLES NOT RESTRICTIVE

The titles assigned to the various Articles of this Agreement are for convenience only. Titles shall not be considered restrictive of the subject matter of any Article, or part of this Agreement.

ARTICLE 24: JOINT WORK PRODUCT

This Agreement is the joint work product of H-GAC and the Contractor. This Agreement has been negotiated by H-GAC and the Contractor and their respective counsel and shall be fairly interpreted in accordance with its terms and, in the event of any ambiguities, no inferences shall be drawn against any party.

ARTICLE 25: DISPUTES

All disputes concerning questions of fact or of law arising under this Agreement, which are not addressed within the Whole Agreement as defined pursuant to Article 4 hereof, shall be decided by the Executive Director of H-GAC or his designee, who shall reduce his decision to writing and provide notice thereof to the Contractor. The decision of the Executive Director or his designee shall be final and conclusive unless, within thirty (30) days from the date of receipt of such notice, the Contractor requests a rehearing from the Executive Director of H-GAC. In connection with any rehearing under this Article, the Contractor shall be afforded an opportunity to be heard and offer evidence in support of its position. The decision of the Executive Director after any such rehearing shall be final and conclusive. The Contractor may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a court of competent jurisdiction. Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the Agreement and in accordance with H- GAC's final decision.

ARTICLE 26: CHOICE OF LAW: VENUE

This Agreement shall be governed by the laws of the State of Texas. Venue and jurisdiction of any suit or cause of action arising under or in connection with the Agreement shall lie exclusively in Harris County, Texas. Disputes between END USER and Contractor are to be resolved in accordance with the law and venue rules of the state of purchase. Contractor shall immediately notify H-GAC of such disputes.

ARTICLE 27: ORDER OF PRIORITY

In the case of any conflict between or within this Agreement, the following order of priority shall be utilized: 1) General Provisions, 2) Special Provisions, 3) Scope of Work, and, 4) Other Attachments.

SIGNATURES:
H-GAC and the Contractor have read, agreed, and executed the whole Agreement as of the date first written above, as accepted by:

_____

Signature

Name

Title

Date

H-GAC

Signature

Name Chuck Wemple

Title Executive Director

Date

H-GAC

Houston-Galveston Area Council
P.O. Box 22777 · 3555 Timmons · Houston, Texas 77227-2777

Cooperative Agreement -

SPECIAL PROVISIONS

Incorporated by attachment, as part of the whole agreement, H-GAC and the Contractor do, hereby agree to the Special Provisions as follows:

ARTICLE 1: BIDS/PROPOSALS INCORPORATED

In addition to the whole Agreement, the following documents listed in order of priority are incorporated into the Agreement by reference: Bid/Proposal Specifications and Contractor's Response to the Bid/Proposal.

ARTICLE 2: END USER AGREEMENTS ("EUA")

H-GAC acknowledges that the **END USER** may choose to enter into an End User Agreement ("EUA) with the **Contractor** through this Agreement**,** and that the term of the EUA may exceed the term of the current **H-GAC** Agreement. **H-GAC's** acknowledgement is not an endorsement or approval of the End User Agreement's terms and conditions. **Contractor** agrees not to offer, agree to or accept from the **END USER**, any terms or conditions that conflict with those in **Contractor's** Agreement with **H-GAC.** Contractor affirms that termination of its Agreement with H-GAC for any reason shall not result in the termination of any underlying EUA, which shall in each instance, continue pursuant to the EUA's stated terms and duration. Pursuant to the terms of this Agreement, termination of this Agreement will disallow the **Contractor** from entering into any new EUA with **END USERS.** Applicable **H-GAC** order processing charges will be due and payable to **H-GAC** on any EUAs, surviving termination of this Agreement between **H-GAC** and **Contractor.**

ARTICLE 3: MOST FAVORED CUSTOMER CLAUSE

Contractor shall provide its most favorable pricing and terms to H-GAC. If at any time during this Agreement, Contractor develops a regularly followed standard procedure of entering into agreements with other governmental customers within the State of Texas, and offers the same or substantially the same products/services offered to **H-GAC** on a basis that provides prices, warranties, benefits, and or terms more favorable than those provided to **H-GAC**, **Contractor** shall notify **H-GAC** within ten (10) business days thereafter, and this Agreement shall be deemed to be automatically retroactively amended, to the effective date of Contractor's most favorable past agreement with another entity. **Contractor** shall provide the same prices, warranties, benefits, or terms to **H-GAC** and its END USER as provided in its most favorable past agreement. H-GAC shall have the right and option at any time to decline to accept any such change, in which case the amendment shall be deemed null and void. If **Contractor** claims that a more favorable price, warranty, benefit, or term that was charged or offered to another entity during the term of this Agreement, does not constitute more favorable treatment, than **Contractor** shall, within ten (10) business days, notify **H-GAC** in writing, setting forth the detailed reasons **Contractor** believes the aforesaid offer is not in fact most favored treatment. **H-GAC**, after due consideration of Contractor's written explanation, may decline to accept such explanation and thereupon this Agreement between **H-GAC** and **Contractor** shall be automatically amended, effective retroactively, to the effective date of the most favored agreement, to provide the same prices, warranties,

benefits, or terms to H-GAC and the END USER.
EXCEPTION: *This clause shall not be applicable to prices and price adjustments offered by a bidder, Proposer or contractor, which are not within bidder's/proposer's control [example; a manufacturer's bid concession], or to any prices offered to the Federal Government and its agencies.*

ARTICLE 4: PARTY LIABILITY

Contractor's total liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to the price of the particular products/services sold hereunder. Contractor agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. Contractor accepts liability to repay, and shall repay upon demand to END USER, any amounts determined by H-GAC, its independent auditors, or any state or federal agency, to have been paid in violation of the terms of this Agreement.

ARTICLE 5: GOVERNING LAW & VENUE

Contractor and H-GAC agree that Contractor will make every reasonable effort to resolve disputes the **END USER** in accord with the law and venue rules of the state of purchase. **Contractor** shall immediately notify **H-GAC** of such disputes.

ARTICLE 6: SALES AND ORDER PROCESSING CHARGE

Contractor shall sell its products to **END USERS** based on the pricing and terms of this Agreement. **H-GAC** will invoice **Contractor** for the applicable order processing charge when H-GAC receives notification of an END USER order. **Contractor shall remit to H-GAC** the full amount of the applicable order processing charge, after delivery of any product or service and subsequent END USER acceptance**.** Payment of the Order Processing Charge shall be remitted from Contractor to H-GAC, within thirty (30) calendar days or ten (10) business days after receipt of an END USER's payment, whichever comes first, notwithstanding Contractor's receipt of invoice. For sales made by **Contractor** based on this Agreement**,** including sales to entities without Interlocal Agreements, **Contractor** shall pay the applicable order processing charges to **H-GAC.** Further, **Contractor** agrees to encourage entities who are not members of H-GAC**'s** Cooperative Purchasing Program to execute an **H-GAC** Interlocal Agreement. **H-GAC** reserves the right to take appropriate actions including, but not limited to, Agreement termination if **Contractor** fails to promptly remit the appropriate order processing charge to H-GAC. In no event shall **H-GAC** have any liability to **Contractor** for any goods or services an **END USER** procures from **Contractor.** At all times, **Contractor** shall remain liable to pay to **H-GAC** any order processing charges on any portion of the Agreement actually performed**,** and for which compensation was received by **Contractor.**

ARTICLE 7: LIQUIDATED DAMAGES

Contractor and H-GAC agree that Contractor shall cooperate with the END USER at the time an END USER purchase order is placed, to determine terms for any liquidated damages.

ARTICLE 8: INSURANCE

Unless otherwise stipulated in Section B of the Bid/Proposal Specifications, **Contractor** must have the following insurance and coverage minimums:

a. **General liability** insurance with a Single Occurrence limit of at least $1,000,000.00, and a General

Aggregate limit of at least two times the Single Occurrence limit.

Product liability insurance with a Single Occurrence limit of at least $1,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit for all Products except Automotive Fire Apparatus. For Automotive Fire Apparatus, see Section B of the Bid/Proposal Specifications.

Property Damage or Destruction insurance is required for coverage of **End User** owned equipment while in **Contractor's** possession, custody or control. The minimum Single Occurrence limit is $500,000.00 and the General Aggregate limit must be at least two times the Single Occurrence limit. This insurance may be carried in several ways, e.g. under an Inland Marine policy, as art of Automobile coverage, or under a Garage Keepers policy. In any event, this coverage must be specifically and clearly listed on insurance certificate(s) submitted to **H-GAC**.

b. Insurance coverage shall be in effect for the length of any contract made pursuant to the Bid/Proposal, and for any extensions thereof, plus the number of days/months required to *deliver* any outstanding order after the close of the contract period.

c. Original Insurance Certificates must be furnished to **H-GAC** on request, showing **Contractor** as the insured and showing coverage and limits for the insurances listed above.

d. If any Product(s) or Service(s) will be provided by parties other than **Contractor**, all such parties are required to carry the minimum insurance coverages specified herein, and if requested by **H-GAC**, a separate insurance certificate must be submitted for each such party.

e. **H-GAC** reserves the right to contact insurance underwriters to confirm policy and certificate issuance and document accuracy.

ARTICLE 9: PERFORMANCE AND PAYMENT BONDS FOR INDIVIDUAL ORDERS

H-GAC's contractual requirements DO NOT include a Performance & Payment Bond (PPB); therefore, Contractor shall offer pricing that reflects this cost savings. **Contractor** shall remain prepared to offer a PPB to cover any order if so requested by the **END USER**. **Contractor** shall quote a price to **END USER** for provision of any requested PPB, and agrees to furnish the PPB within ten business (10) days of receipt of **END USER's** purchase order.

ARTICLE 10: CHANGE OF STATUS

Contractor shall immediately notify **H-GAC,** in writing, of **ANY** change in ownership, control, dealership/franchisee status, Motor Vehicle license status, or name. Contractor shall offer written guidance to advise H-GAC if this Agreement shall be affected in any way by such change. **H-GAC** shall have the right to determine whether or not such change is acceptable, and to determine what action shall be warranted, up to and including cancellation of Agreement.

ARTICLE 11: TEXAS MOTOR VEHICLE BOARD LICENSING

All that deal in motor vehicles shall maintain current licenses that are required by the Texas Motor Vehicle Commission Code. If at any time during this Agreement term, any required **Contractor** license is denied, revoked, or not renewed, **Contractor** shall be in default of this Agreement, unless the Texas Motor Vehicle

Board issues a stay or waiver. Contractor shall promptly provide copies of all current applicable Texas Motor Vehicle Board documentation to **H-GAC** upon request.

FORM A - OFFEROR IDENTIFICATION & AUTHORIZED SIGNATORY
(DO NOT handwrite this Form. Information must be typed in.)

Invitation No.: EE08-19

Invitation Title: Emergency Medical & Rescue Equipment

Offeror Company: MSA Safety Sales, LLC
(Legal name of business which will appear on contract, if awarded)

Offeror Status: ☒ **Manufacturer** ☐ **Dealer/Distributor** ☐ **Other**

Response Type(1): ☐ **Single Offeror Acting Alone Or As Lead** ☒ **Multiple Offerors Acting Jointly**

Contract Signatory(2): Eleni Lucido *Eleni Lucido* **Title:** President, MSA Safety Sales, LLC

Mailing Address(3): 1000 Cranberry Woods Drive | Cranberry Township, | PA 16066-5207
Street/PO Box | City | State & Zip

Physical Address: 1000 Cranberry Woods Drive | Cranberry Township, | PA 16066-5207
Street | City | State & Zip

Phone: 800-672-2222 **Fax:** 800-967-0398

Email Address: us.cs@MSASafety.com

Federal Tax ID No.: 83-1559281 **Web Page URL:** www.us.msasafety.com

(1) If Joint Offering, all parties must submit a signed Form A. A contract will be offered to each.
(2) Person who will sign final contract documents if an award is made.
(3) Address to which final contract documents would be sent for signature.

Member Contact Information

Contact Person(4): Scott McGuire **Title:** NA Sales Channels Specialist

Mailing Address: 1000 Cranberry Woods Drive | Cranberry Township, | PA 16066-5207
Street/PO Box | City | State & Zip

Physical Address: 1000 Cranberry Woods Drive | Cranberry Township, | PA 16066-5207
Street | City | State & Zip

Toll Free Phone: 724-742-8028 **Fax:** 800-967-0398

Email Address: Scott.McGuire@MSASafety.com

(4) Person who End Users will contact for product information and to get pricing quotes.

The Signatory below, on behalf of Offeror:

- Acknowledges having thoroughly reviewed the Invitation;
- Attests to having the authority to sign this response and commit Offeror to honor all requirements;
- Makes, under penalty of perjury, all required Offeror Certifications as detailed in General Terms;
- Certifies that all information provided in this Response is true and correct.

Signature: *Eleni Lucido* **Title:** President, MSA Safety Sales, LLC

Printed Name: Eleni Lucido **Date:** 3-15-19

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give Form to the requester. Do not send to the IRS.

Print or type. See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.

MSA Safety Incorporated

2 Business name/disregarded entity name, if different from above

MSA Safety Sales, LLC (EIN: 83-1559281)

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only **one** of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☑ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) 5

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.

1000 Cranberry Woods Drive

Requester's name and address (optional)

6 City, state, and ZIP code

Cranberry Township, PA 16066

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN,* later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

			–			–				

or

Employer identification number

4	6	–	4	9	1	4	5	3	9

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here Signature of U.S. person ▶ [signature] Global Tax Director Date ▶ 1/2/2019

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9.*

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, *later.*

CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

FORM CIQ

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176 001(1-a) with a local governmental entity and the vendor meets requirements under Section 176 006(a)

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed *See* Section 176 006(a-1), Local Government Code

A vendor commits an offense if the vendor knowingly violates Section 176 006, Local Government Code An offense under this section is a misdemeanor

OFFICE USE ONLY

Date Received

1 **Name of vendor who has a business relationship with local governmental entity.**

MSA Safety Sales, LLC

2 ☐ **Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate)

3 **Name of local government officer about whom the information is being disclosed.**

N/A

Name of Officer

4 **Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.**

N/A -- NO CONFLICT IDENTIFIED

A Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

☐ Yes ☐ No

B Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes ☐ No

5 **Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.**

N/A

6 ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176 003(a)(2)(B), excluding gifts described in Section 176 003(a-1)

7 Elena Lucio

Signature of vendor doing business with the governmental entity

3-28-19

Date

CERTIFICATE OF INTERESTED PARTIES

FORM 1295

Complete Nos 1 - 4 and 6 if there are interested parties.
Complete Nos 1, 2, 3, 5, and 6 if there are no interested parties

OFFICE USE ONLY
CERTIFICATION OF FILING

Certificate Number:
2019-469434

Date Filed:
03/28/2019

Date Acknowledged:

1 Name of business entity filing form, and the city, state and country of the business entity's place of business.
MSA Safety Sales, LLC
Cranberry Township, PA United States

2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.
Houston-Galveston Area Council of Governments

3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.
EE08-19
Personal Protective Equipment

4 Name of Interested Party	City, State, Country (place of business)	Nature of Interest (check applicable)	
		Controlling	Intermediary
Ryan Family	Cranberry Township, PA United	X	
MSA Safety Inc.	Cranberry Township, PA United	X	
MSA Worldwide, LLC	Cranberry Township, PA United	X	

5 Check only if there is NO Interested Party. ☐

6 UNSWORN DECLARATION

My name is ELENI LUCIDO, and my date of birth is 7/19/76

My address is 1000 CRANBERRY WOODS DRIVE (street), CRANBERRY TWP (city), PA (state), 16066 (zip code), USA (country)

I declare under penalty of perjury that the foregoing is true and correct

Executed in BUTLER County, State of PENNSYLVANIA, on the 28th day of MARCH (month), 20 19 (year)

Eleni Lucido
Signature of authorized agent of contracting business entity
(Declarant)

House Bill 89 Verification Form

Prohibition on Contracts with Companies Boycotting Israel

The 85th Texas Legislature approved new legislation, effective Sept. 1, 2017, which amends Texas Local Government Code Section 1. Subtitle F, Title 10, Government Code by adding Chapter 2270 which states that a governmental entity may not enter into a contract with a company for goods or services unless the contract contains a written verification from the company that it:

1) does not boycott Israel; and
2) will not boycott Israel during the term of the contract

Pursuant to Section 2270.001, Texas Government Code:

1 "Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and

2. "Company" means a for-profit sole proprietorship, organization, association, corporation, partnership, joint venture, limited partnership, limited liability partnership, or any limited liability company, including a wholly owned subsidiary, majority-owned subsidiary, parent company or affiliate of those entities or business associations that exist to make a profit.

I, (authorized official) Eleni Lucido, do hereby depose and verify the truthfulness and accuracy of the contents of the statements submitted on this certification under the provisions of Subtitle F, Title 10, Government Code Chapter 2270 and that the company named below:

1) does not boycott Israel currently; and
2) will not boycott Israel during the term of the contract; and
3) is not currently listed on the State of Texas Comptroller's Companies that Boycott Israel List located at https://comptroller.texas.gov/purchasing/publications/divestment.php

MSA Safety Sales, LLC
Company Name

Eleni Lucido
Signature of Authorized Official

President 3-28-19
Title of Authorized Official Date

CONTRACTOR CONTACT INFORMATION

ATTENTION Houston-Galveston Area Council (H-GAC) Contractor:The following information is needed to communicate with your company concerning contract matters which may arise.To expedite the process, we ask that you provide the information requested below. During the term of this contract, notify H-GAC in writing of any changes to this information by emailing updates to: cpcontractfax@h-gac.com

Section I

CONTRACTOR: **MSA Safety Sales, LLC**	**CONTRACT #:**
Purchase Order Address: 1000 Cranberry Woods Drive, Cranberry Twp, PA 16066	Invoice Address: 1000 Cranberry Woods Drive, Cranberry Twp, PA 16066
Contact Name: Scott McGuire	Contact Name: Scott McGuire
Address: 1000 Cranberry Woods Drive Cranberry Township, PA 16066	Address: 1000 Cranberry Woods Drive Cranberry Township, PA 16066
City *State* *Zip Code*	*City* *State* *Zip Code*
Telephone No.: 724-742-8028	Telephone No.# 724-742-8028
Fax No.# 800-967-0398	Fax No.# 800-967-0398
Email Address: Scott.McGuire@MSASafety.com	Email Address: Scott.McGuire@MSASafety.com

Section II

CONTRACT INFORMATION:

Indicate the person (s) authorized to sign contracts, requests for contract price increases, or other contract-related documents. A copy of your corporate resolution may be acceptable for Section II.

Printed Name of Signatory: Eleni Lucido	Printed Name of Signatory:
Corporate Title: President, MSA Safety Sales, LLC	Corporate Title:
Tel. No.: 800-672-2222	Tel. No.:
Fax No.: 800-967-0398	Fax No.:
Email Address: Eleni.Lucido@MSASafety.com	Email Address:

Section III

SALES CONTACT INFORMATION

Person who End Users will contact for product information and pricing quotes

Contact Name: John Ricciardi / Jasmine Spencer — Title: Regional Manager-First Responder Market Segment Marketing Manager

Address: 1000 Cranberry Woods Drive (Street) Cranberry Township (City) PA (State) 16066 (Zip)

Telephone No.: 630-251-2990 (Ricciardi) / 412-304-1431 (Spencer) — Fax No.: 800-967-0398

Mobile No.: (optional) provided above

Email Address:
John.Ricciardi@MSASafety.com
Jasmine.Spencer@MSASafety.com

Attachment A			
MSA Safety Incorporated			
Emergency Medical & Rescue Equipment			
Contract No.: EE08-19			
Product Code	**Mfg.**	**Model & Description**	**Base Offered Price**
EE19ACA	MSA	MSA 2020 US Suggested List Price Book (Effective Jan 1, 2020)	15%
EE19HDA	MSA	MSA 2020 US Suggested List Price Book (Effective Jan 1, 2020)	5%
EE19LVA	MSA	Fire and Rescue Helmets MSA 2020 US Suggested List Price Book-Effective 01/01/2020	15%

SECTION C - H-GAC FORMS

(Rev 12/02/09)

For Use In Responding To Competitive Bid And Proposal Invitations

Invitation No.: EE08-19

Title: Emergency Medical & Rescue Equipment

This Section contains the following **H-GAC** *FORMS* .

FORM	DESCRIPTION
Form A:	Offeror Identification and Authorized Signatory
Form B:	Historically Underutilized Business Enterprises
Form C:	Response Checklist
Forms D/D1:	Offered Items Pricing
Form E:	Published Options
Form H	Marketing Plan
Form W-9	Request for Taxpayer Identification Number and Certification
Form CIQ	Conflict of Interest Questionnaire
Form 1295	Certificate of Interested Parties
HB 89	Prohibition on Contracts with Companies Boycotting Israel
CCI	Contractor Contact Information

These *FORMS* are hereby made available in electronic format. They should be copied to Offeror's computer for completion and/or printout as required. The *FORMS* **may not** be changed or altered in any way, except as may be specified on the *FORM* .

ALL completed *FORMS* must also be submitted electronically on electronic media (DVD, CDRom, flash/thumb drive), excepting of course for signatures. The printed "Original" of the response will be considered as the official copy in case of any discrepancy between the electronic version and the printed Original.

FORM A - OFFEROR IDENTIFICATION & AUTHORIZED SIGNATORY
(DO NOT handwrite this Form. Information must be typed in.)

Invitation No.: EE08-19

Invitation Title: Emergency Medical & Rescue Equipment

Offeror Company: Casco Industries, Inc.
(Legal name of business which will appear on contract, if awarded)

Offeror Status: ☐ **Manufacturer** ☑ **Dealer/Distributor** ☐ **Other**

Response Type(1): ☐ **Single Offeror Acting Alone Or As Lead** ☑ **Multiple Offerors Acting Jointly**

Contract Signatory(2): David Stewart *David Stewart* **Title:** Purchasing Manager

Mailing Address(3): P.O. BOX 8007 Shreveport LA 71148-8007
Street/PO Box City State & Zip

Physical Address: 607 W. 62nd Street Shreveport LA 71106
Street City State & Zip

Phone: 318-865-5107 **Fax:** 318-865-8157

Email Address: david@cascoindustries.com

Federal Tax ID No.: 72-0698936 **Web Page URL:** www.cascoindustries.com

(1) If Joint Offering, all parties must submit a signed Form A. A contract will be offered to each.
(2) Person who will sign final contract documents if an award is made.
(3) Address to which final contract documents would be sent for signature.

Member Contact Information

Contact Person(4): David Stewart **Title:** Purchasing Manager

Mailing Address: P.O. BOX 8007 Shreveport LA 71148-8007
Street/PO Box City State & Zip

Physical Address: 607 W. 62nd Street Shreveport LA 71106
Street City State & Zip

Toll Free Phone: 318-865-5107 **Fax:** 318-865-8157

Email Address: david@cascoindustries.com

(4) Person who End Users will contact for product information and to get pricing quotes.

The Signatory below, on behalf of Offeror:

- Acknowledges having thoroughly reviewed the Invitation;
- Attests to having the authority to sign this response and commit Offeror to honor all requirements;
- Makes, under penalty of perjury, all required Offeror Certifications as detailed in General Terms;
- Certifies that all information provided in this Response is true and correct.

Signature: *David Stewart* **Title:** Purchasing Manager

Printed Name: David Stewart **Date:** 3/15/2019

FORM B - HISTORICALLY UNDERUTILIZED BUSINESS ENTERPRISES **Procurement No.:** EE08-19

Title: Emergency Medical & Rescue Equipment

Offeror: Casco Industries, Inc.

Most, if not all, of the Members of HGACBuy are subject to various requirements relative to purchasing goods and services from Historically Underutilized Business Enterprises (HUBs)(See Note 1). These requirements are promulgated by federal and state governmental authorities, and include measureable criteria such as 'percentage of total dollars spent directed to HUBs', 'number of HUB contractors used', 'HUB subcontractors employed by primary contractors', etc. These requirements are generally formalized in goal oriented programs.

HGACBuy is comitted to promoting full and equal business opportunities for HUB contractors, and to assisting Cooperative Purchasing Program (COOP) Members in meeting mandated HUB goals. In that regard, Contractor shall make a good faith effort to use the services of Certified/Listed (See Note 2) HUBs whenever possible.

As part of a good faith effort, Contractor agrees to work with and assist HGACBuy Members in meeting HUB targets and goals, as may be required by any rules, processes or programs they might have in place. Such assistance may include such things as compliance with reporting requirements, provision of documentation, consideration of 'Certified/Listed' subcontractors, provision of documented evidence that an active participatory role for a HUB entity was considered in a procurement transaction, etc.

Note 1: There are many designations other than "HUB" used across the country within various jurisdictions. Examples include terms such as Disadvantaged Business Enterprise (DBE), Minority Owned Business Enterprise (MBE), Woman Owned Business Enterprise (WBE), Small Disadvantaged Business (SDB), Small, Woman or Minority-owned Business (SWAM), etc. Regardless of the formal designation, the overall objective of the relavant programs is basically the same, i.e. to insure that disadvantaged and underutilized members of the business community receive a fair share of public spending. The term HUB as used herein shall be understood to encompass all such programs/business enterprises, no matter what terminology is used by the Member.

Note 2: The terms "Certified" and "Listed" as used in conjunction with HUB programs relate to the process of HUB qualification review. Jurisdictions usually require that companies claiming HUB status be reviewed and confirmed as meeting certain minimum requirements to claim that status, and that the review and confirmation process be carried out by certain designated entities. They are then "Certified" or "Listed" by having their name included on an official listing published by the Certifying or Listing Authority.

Accepted and Agreed By:

Title: David Stewart - Purchasing Manager	Date: 3/15/2019

HUB Status Of Offeror

☐ Offeror is a HUB, as detailed below. ☑ Offeror is not a HUB.

Designation(s): ☐ HUB ☐ DBE ☐ MBE ☐ WBE ☐ Other

Certifying/Listing Authority(s):

Subcontracts

On a separate sheet, list any subcontractors that would be employed in providing products or services related to this procurement. Include subcontractor name, designation (HUB, DBE, etc.) and certifying/listing authority.

☐ Subcontractor List attached. ☑ No Subcontractors will be used.

FORM C - RESPONSE CHECKLIST **Procurement No.:** EE08-19

Title: Emergency Medical & Rescue Equipment

Offeror: Casco Industries, Inc.

This *FORM* is provided to help insure that all required Response elements have been completed and included, or certified as being available upon request. **Responses that do not comply with all requirements may be considered non-compliant.** Offeror's signatory must review each item below, and certify by initialing in the space to the right.

	This Response Includes:	**Init.**
1	An "Original" hard copy of the **COMPLETE** submission, including all required *FORMS*, plus one copy, each in a separate **hard-sided** 3-ring binder.	ds
2	A copy of the **COMPLETE** submission, including all required *FORMS*, in **electronic format** (CD, DVD, flash drive). **Forms D & E are to be provided in an excel format.**	ds
3	An originally signed **Form A** from all entities who are party to this submission and who should be offered a contract if this submission is successful.	ds
4	**Forms-- A, B, C, D, E, H (EXCEL FORMAT) 1295, W-9, CIQ, HB89, CCI. Note: Each Contractor submitting a Form A must provide a 1295, W-9, CIQ, HB89 & CCI form.**	ds
5	The required list of **References**.	ds
6	Details of "**Service Organization**", including locations, hours, personnel and parts/service availability. (Applies to hard goods only.)	ds
7	Complete **Warranty Documentation** for all Products offered.	ds
8	The manufacturer's latest **Specification Documents** detailing standard features, operating characteristics, etc., for all products offered. **Note: Bidder shall supply a spec/quote sheet for each product code bid on Form D/D1. These sheets should detail what features are included in the price quoted on Forms D/D1.**	ds
9	If the **Non-Resident Reciprocal Bid Act** applies, a copy of your state statute and a determination of the status of Texas bidders/proposers in your home state. If not applicable, indicate "N/A"	N/A
10	If offer includes motor vehicles to be sold in Texas, copies of all current licenses as required by the Texas Motor Vehicle Commission.	N/A
11	A Bid/Proposal Bond, or Cashier's Check in the amount of $3,000.00. (A percentage bond is NOT acceptable.)	**N/A**

H-GAC 'FORM D' - PRODUCT ITEM -- BASE OFFERING PRICES		
	Offeror Name:	**Casco Industries, Inc.**
	Invitation No.:	**EE08-19 - Emergency Medical & Rescue Equipment**

INSTRUCTIONS: Fill in unshaded areas. Shaded columns for H-GAC use only.

Offeror shall price the current version (at the time of this invitation's open bid period) of the chosen catalog(s) listed below, and shall include, per Section-B: (a) printed and electronic copy of each catalog; (b) a separate list price sheet/book if not part of the manufacture catalog (printed and electronic copy); (c) percentage discount off list prices, on Form-D; (d) additional pricing on Form-E.

Product Code	Manufacturer	Description	Discount - Off-List Percentage	Bid Price Rank	Bid Price Score (Bid Price Rank x .90)	Bid Price Rank	Past Sales Performance Score (Bid Price Rank x 0/.10)	Awardee (Highest Score) (Columns K + M)
A. In-Home Work & Onsite Public Access AED								
EE19A11	Cardiac Science	CARDIAC SCIENCE 2019 Price List						
EE19A21	HeartSine	HeartSine 2019 Price List						
EE19A31	Physio-Control	Physio-Control 2019 Price List						
EE19A41	Philips	Philips 2019 Price List						
EE19A61	Zoll Medical	Zoll 2019 Price List						
EE19A71	Defibtech	Defibtech 2019 Price List						
B. Biphasic Automated External Defibrillator								
EE19B11	Cardiac Science	CARDIAC SCIENCE 2019 Price List						
EE19B21	Heatsine	HeartSine 2019 Price List						
EE19B31	Physio-Control	Physio-Control 2019 Price List						
EE19B41	Philips	Philips 2019 Price List						
EE19B61	Zoll Medical	Zoll 2019 Price List						
C. Semi-Automatic Biphasic Defibrillator w/ECG Monitoring								
EE19C11	Cardiac Science	CARDIAC SCIENCE 2019 Price List						
EE19C21	HeartSine	HeartSine 2019 Price List						

EE19C31	Physio-Control	Physio-Control 2019 Price List						
EE19C41	Philips	Philips 2019 Price List						
EE19C61	Zoll Medical	Zoll 2019 Price List						
EE19C71	Defibtech	Defibtech 2019 Price List						
D. Manual Biphasic Defibrillator w/ECG Monitoring								
EE19D31	Physio-Control	Physio-Control 2019 Price List						
EE19D41	Philips	Philips 2019 Price List						
EE19D61	Zoll Medical	Zoll 2019 Price List						
EE19D71	Defibtech	Defibtech 2019 Price List						
E. Semi-Automatic Manual Biphasic Defibrillator w/Escalating Joules								
EE19E21	HeartSine	HeartSine 2019 Price List						
EE19E31	Physio-Control	Physio-Control 2019 Price List						
EE19E61	Zoll Medical	Zoll 2019 Price List						
F. Chest Compression Systems								
EE19F61	Zoll Medical	Zoll 2019 Price List						
EE19F91	Physio-Control	Physio-Control 2019 Price List						

H-GAC 'FORM D1' - PRODUCT ITEM BASE OFFERING PRICES		
	Offeror Name:	**Casco Industries, Inc.**
	Invitation No.:	**EE08-19 - Emergency Medical & Rescue Equipment**

INSTRUCTIONS: Fill in unshaded areas. Shaded columns for H-GAC use only.

Offeror shall price the current version (at the time of this invitation's open bid period) of the chosen catalog(s) listed below, and shall include, per Section-B: (a) printed and electronic copy of each catalog; (b) a separate list price sheet/book if not part of the manufacture catalog (printed and electronic copy); (c) percentage discount off list prices, on Form-D; (d) additional pricing on Form-E.

Product Code	Mfg.	Model & Description	Discount - Off-List Percentage	Bid Price Rank	Bid Price Score (Bid Price Rank x .90)	Bid Price Rank	Past Sales Performance Score (Bid Price Rank x 0/.10)	Awardee (Highest Score) (Columns K + M)
A. Self-Contained Breathing Apparatus (SCBA)								
EE19AAA	Draeger	Draeger Responder Catalog Effective 03/01/2019						
EE19ABA	Avon Protection Systems	Avon Protection 2019 Supplied Air Price List						
EE19ACA	MSA	MSA 2019 US Suggested List Price Book (Effective Jan 1, 2019)	**15**					
EE19ADA	3M Scott Safety	2019 3M Scott Fire & Safety Price List Effective 02/01/2019						
EE19AEA	Interspiro	Interspiro 2019 US Suggested List Price Schedule, Effective 01/01/2019						
EE19AFA	Honeywell	Honeywell Respiratory Protection, 2018-2019 Price List						
B. Spreaders								
EE19BAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						
EE19BBA	Amkus	2019 AMKUS Rescue Systems Price List						
EE19BCA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						
EE19BDA	Hurst Products	Hurst Jaws of Life - Price List 2019 - eDRAULIC						

EE19BDB	Hurst Products	Hurst Jaws of Life - Price List 2019 - 5000 PSI						
EE19BDC	Hurst Products	Hurst Jaws of Life - Price List 2019 - 10,000 PSI						
EE19BDD	Hurst Products	Hurst Jaws of Life - Price List 2019 - StrongArm						
EE19BEA	Power Hawk	Power Hawk S-1601 Spreader, Price List 2018						
EE19BFA	TNT	TNT Rescue Systems Inc Price List						
C. Cutters								
EE19CAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						
EE19CBA	Amkus	2019 AMKUS Rescue Systems Price List						
EE19CCA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						
EE19CDA	Hurst Products	Hurst Jaws of Life - Price List 2019 - eDRAULIC						
EE19CDB	Hurst Products	Hurst Jaws of Life - Price List 2019 - 5000 PSI						
EE19CDC	Hurst Products	Hurst Jaws of Life - Price List 2019 - 10,000 PSI						
EE19CDD	Hurst Products	Hurst Jaws of Life - Price List 2019 - StrongArm						
EE19CEA	Power Hawk	Power Hawk C-1601, Curved Blade-Price List 2018						
EE19CFA	TNT	TNT Rescue Systems Inc Price List						
D. Combination Spreader/Cutter Tools								
EE19DAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						
EE19DBA	Amkus	2019 AMKUS Rescue Systems Price List						
EE19DCA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						

EE19DDA	Hurst Products	Hurst Jaws of Life - Price List 2019 - eDRAULIC						
EE19DDB	Hurst Products	Hurst Jaws of Life - Price List 2019 - 5000 PSI						
EE19DDC	Hurst Products	Hurst Jaws of Life - Price List 2019 - 10,000 PSI						
EE19DDD	Hurst Products	Hurst Jaws of Life - Price List 2019 - StrongArm						
EE19DEA	Power Hawk	Power Hawk CS-1602, Straight Blade- Price List 2018						
EE19DFA	TNT	TNT Rescue Systems Inc Price List						
E. Rams								
EE19EAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						
EE19EBA	Amkus	2019 AMKUS Rescue Systems Price List						
EE19ECA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						
EE19EDA	Hurst Products	Hurst Jaws of Life - Price List 2019 - eDRAULIC						
EE19EDB	Hurst Products	Hurst Jaws of Life - Price List 2019 - 5000 PSI						
EE19EDC	Hurst Products	Hurst Jaws of Life - Price List 2019 - 10,000 PSI						
EE19EDD	Hurst Products	Hurst Jaws of Life - Price List 2019 - StrongArm						
EE19EEA	Power Hawk	Power Hawk P-25, Ram 25 Inches-Price List 2018						
EE19EFA	TNT	TNT Rescue Systems Inc Price List						
F. Stabilization/Shoring Struts								
EE19FAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						

EE19FBA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						
EE19FCA	Paratech	Paratech 2019 List Price Schedule						
EE19FDA	Rescue 42	Rescue 42 2019 Price List						
EE19FEA	ResQtec	Profix PX-M 600 Struts, Profix PXM 880 Struts, Profix PX-M 1400 Struts, Profix PX-M 2300 Struts-Price List 2018						
EE19FFA	AMKUS	2019 AMKUS Rescue Systems Price List						
G. Air Lift Rescue Bags								
EE19GAA	Genesis Rescue Systems	Genesis Rescue Systems 2019 Product Price Schedule Revised January 14, 2019 Effective January 22, 2019						
EE19GBA	Holmatro	Holmatro Rescue Tools Suggested List Price, Effective January 1, 2019						
EE19GCA	Hurst-Vetter	Vetter Rescue Price List 2019						
EE19GDA	Paratech	Paratech 2019 List Price Schedule						
EE19GEA	ResQtec	NT-2 Lifting Bags, NT-4 Lifting Bags, NT-8 Lifting Bags Price List 2018						
H. Hand-Held Thermal Imaging Equipment								
EE19HAA	Bullard	Bullard Fire Thermal Imaging Pricing Effective Feb. 1, 2019						
EE19HBA	Avon Protection Systems	The argus Range of Thermal Imaging Cameras 2019 Price List						
EE19HCA	Scott / ISG	2019 Master Price List, excel-2019 US Price List, PDF						
EE19HDA	MSA	MSA 2019 US Suggested List Price Book (Effective Jan 1, 2019)	**5**					
EE19HEA	FLIR	FLIR Fire Segment & UAV Kits 2018-2019 Price List						
EE19HFA	Draeger	Draeger Responder Catalog Effective 03/01/2019						
I. Fire Rescue Saws								
EE19IAA	Cutters Edge	Cutters Edge Retail Price List 2019						
EE19IBA	Tempest	Tempest Technology Fire Price List, 2019	**15**					

EE19ICA	Unifire	Unifire Products Price List						
EE19IDA	Super Vac	Super Vac Fan Price List, 2018-2019						
EE19IEA	Stihl	Fire Hooks Unlimited 2019 Price List - Effective 01/01/2019						
EE19IFA	Partner	Fire Hooks Unlimited 2019 Price List - Effective 01/01/2019						
J. Electronic Personnel Accountability System (Stand-Alone)								
EE19JAA	Grace, Ind.	GRACE INDUSTRIES FireFighter Catalog 2019 US Price Pages						
K. Breathing Air Systems								
EE19KAA	3M Scott Safety	3M Scott Safety Compressor Product 2019 Price List						
EE19KBA	Bauer	Bauer Compressors 2019 Price List						
EE19KCA	Stallian air	Stallion Air 2019 Price List						
EE19KDA	Eagle Air	EagleAir Price List - 2019						
EE19KEA	Artic	Artic 2019 List Price - Effective 02/01/2019						
L. Bunker/Wildland Rescue Gear (Pricing to be shown as % discount off List/Retail)								
EE19LAA	Lion	LION Turnouts and Accessories 2019 Price List						
EE19LAB	Lion	LION HEAD & EYE PROTECTION 2019 Price List						
EE19LAC	Lion	LION PROTECTIVE GLOVES 2019 Price List						
EE19LAD	Lion	LION TECHNICAL FOOTWEAR 2019 Price List						
EE19LAE	Lion	LION TR51 TECHNICAL RESCUE AND RECOVERY ENSEMBLE 2019 Price List						
EE19LAF	Lion	LION VERSA PRO 2019 Price List						
EE19LBA	Honeywell	Morining Pride TAILS 2019 Price List						

EE19LBB	Honeywell	Morning Pride RANGER 2019 Price List						
EE19LBC	Honeywell	Morning Pride Viper Edge VE 2019 Price List						
EE19LBD	Honeywell	Morning Pride and EV1 Helmet 2019 Price List						
EE19LBE	Honeywell	Gloves Hoods Suspenders 2019 Price List						
EE19LBF	Honeywell	Footwear 2019 Price List						
EE19LCA	TECGEN	2019 Fire-Dex Consumer Price List						
EE19LCB	TECGEN	RESCUE80 2019 Price List						
EE19LDA	Crewboss Div of Western Shelter	Wildland Gear	**5**					
EE19LEA	Veridian	Veridian Fire Protective Gear 2019 Price List						
EE19LFA	Globe	Globe Classix SE 2019	**25**					
EE19LFB	Globe	Globe Classix Metro 2019	**25**					
EE19LFC	Globe	Globe Letters and Accessories 2019	**25**					
EE19LFD	Globe	Globe IH Ready 2019	**25**					
EE19LFE	Globe	Globe G-Xtreme 3.0 2019	**25**					
EE19LFF	Globe	Globe Athletix 2019	**25**					
EE19LFG	Globe	Globe G-Xcel 2019	**25**					
EE19LFH	Globe	Globe GX-7 2019	**25**					
EE19LFI	Globe	Globe Footgear 2019	**25**					
EE19LGA	PGI	Fireline products & Hoods	**15**					

EE19LHA	Lakeland Fire	OSX Brand - Lakeland Fire 2019 List Price Schedule - Effective 01/01/2019						
EE19LHB	Lakeland Fire	SCX Brand - Lakeland Fire 2019 List Price Schedule - Effective 01/01/2019						
EE19LHC	Lakeland Fire	MTS Brand - Lakeland Fire 2019 List Price Schedule - Effective 01/01/2019						
EE19LIA	Stanfield's	Lifeliner Hoods Catalog	**15**					
EE19LJA	Fire-Dex	2019 Fire-Dex Consumer Price List (Eff. March 2019)						
EE19LKA	Chieftain	2019 Fire-Dex Consumer Price List (Eff. March 2019)						
EE19LLA	Innotex	Innotex Price List 2019 VER 20190101						
EE19LMA	VIKING	2019 Viking Pricing						
EE19LNA	Bullard	Fire & Rescue Helmets Price List (Eff. Feb. 1, 2019)						
EE19LOA	Majestic Fire Apparel	Majestic Fire Apparel 2018-2019	**15**					
EE19LPA	Weinbrenner/ Thorogood	Thorogood Fire & Uniform Price List, 2018-2019						
EE19LQA	Shelby Specialty Gloves	Shelby Specialty Gloves, Work/Rescue/Extrication/Fire-NFPA Compliant, 2018-2019	**15**					
EE19LRA	Firecraft Safety	Firecraft Safety Products, 2018-2019 Price List						
EE19LSA	Dragon Gloves	Dragon Fire Brand Gloves						
EE19LTA	HAIX	Haix EMS Station Boots, Fire Boots, Forestry Boots, LE Boots, 2019 Price List						
EE19LUA	Cosmas	Footwear - Cosmas 2019 List Price - Effective 01/01/2019						
EE19LVA	MSA	Fire and Rescue Helmets-Effective 01/15/2019	**15**					

FORM E - PUBLISHED OPTIONS	**Procurement No.:**	**EE08-19**

Offeror Name:	**Casco Industries, Inc.**
Notes: (Important)	1) Use a single **Form E** for ALL Option/Accessory items and quote each on a single, separate line. **DO NOT** use multiple **Form E**'s… Add or insert additional lines as necessary. 2) Completely describe each item. Include the manufacturer's code or part number. Each item listed **MUST** have a unique code or part number so that it can be identified in any subsequest contract. 3) Options which replace standard equipment on a **Form D/D1** Item should be priced net of any credit due for the replaced item. 4) Options which are upgrades/downgrades of a **Form D/D1** Item should be priced at the differential amount between the cost of the **Form D/D1** Item and the upgrade/downgrade option.

Code or Part No.	**Option Description**	**Offered Price**

Form H - Marketing	Invitation No.: EE08-19
Offeror Name:	**Casco Industries, Inc.**

Bidder shall provide a written narrative explaining in some detail activities that will be undertaken to actively market and promote an H-GAC contract to local government and non-profit End Users.

Website, Flyers, Monthly magazine publications for each state, 47 salesmen word of mouth, trade shows, and email blasts.

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H-GAC

Houston-Galveston Area Council
P.O. Box 22777 · 3555 Timmons · Houston, Texas 77227-2777

GENERAL PROVISIONS

This Agreement is made and entered into, by and between the Houston-Galveston Area Council hereinafter referred to as H-GAC having its principal place of business at 3555 Timmons Lane, Suite 120, Houston, Texas 77027 and MSA Safety Sales, LLC, hereinafter referred to as the Contractor, having its principal place of business at 1000 Cranberry Woods Drive, Cranberry Township, PA 16066.

WITNESSETH:

WHEREAS, H-GAC hereby engages the Contractor to perform certain services in accordance with the specifications of the Agreement; and

WHEREAS, the Contractor has agreed to perform such services in accordance with the specifications of the Agreement;

NOW, THEREFORE, H-GAC and the Contractor do hereby agree as follows:

ARTICLE 1: LEGAL AUTHORITY
The Contractor warrants and assures H-GAC that it possesses adequate legal authority to enter into this Agreement. The Contractor's governing body, where applicable, has authorized the signatory official(s) to enter into this Agreement and bind the Contractor to the terms of this Agreement and any subsequent amendments hereto.

ARTICLE 2: APPLICABLE LAWS
The Contractor agrees to conduct all activities under this Agreement in accordance with all applicable rules, regulations, directives, standards, ordinances, and laws, in effect or promulgated during the term of this Agreement, including without limitation, workers' compensation laws, minimum and maximum salary and wage statutes and regulations, and licensing laws and regulations. When required, the Contractor shall furnish H-GAC with satisfactory proof of its compliance therewith.

ARTICLE 3: INDEPENDENT CONTRACTOR
The execution of this Agreement and the rendering of services prescribed by this Agreement do not change the independent status of H-GAC or the Contractor. No provision of this Agreement or act of H-GAC in performance of the Agreement shall be construed as making the Contractor the agent, servant or employee of H-GAC, the State of Texas or the United States Government. Employees of the Contractor are subject to the exclusive control and supervision of the Contractor. The Contractor is solely responsible for employee related disputes and discrepancies, including employee payrolls and any claims arising therefrom.

ARTICLE 4: WHOLE AGREEMENT
The General Provisions, Special Provisions, and Attachments, as provided herein, constitute the complete Agreement ("Agreement") between the parties hereto, and supersede any and all oral and written agreements between the parties relating to matters herein. Except as otherwise provided herein, this Agreement cannot be modified without written consent of the parties.

ARTICLE 5: SCOPE OF SERVICES

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The services to be performed by the Contractor are outlined in an Attachment to this Agreement.

ARTICLE 6: PERFORMANCE PERIOD

This Agreement shall be performed during the period which begins Aug 01 2019 and ends Jul 31 2021. All services under this Agreement must be rendered within this performance period, unless directly specified under a written change or extension provisioned under Article 15, which shall be fully executed by both parties to this Agreement.

ARTICLE 7: PAYMENT OR FUNDING

Payment provisions under this Agreement are outlined in the Special Provisions.

ARTICLE 8: REPORTING REQUIREMENTS

If the Contractor fails to submit to H-GAC in a timely and satisfactory manner any report required by this Agreement, or otherwise fails to satisfactorily render performances hereunder, H-GAC may terminate this agreement with notice as identified in Article 16 of these General Provisions. H-GAC has final determination of the adequacy of performance and reporting by Contractor. Termination of this agreement for failure to perform may affect Contractor's ability to participate in future opportunities with H-GAC. The Contractor's failure to timely submit any report may also be considered cause for termination of this Agreement.

Any additional reporting requirements shall be set forth in the Special Provisions of this Agreement.

ARTICLE 9: INSURANCE

Contractor shall maintain insurance coverage for work performed or services rendered under this Agreement as outlined and defined in the attached Special Provisions.

ARTICLE 10: SUBCONTRACTS and ASSIGNMENTS

Except as may be set forth in the Special Provisions, the Contractor agrees not to subcontract, assign, transfer, convey, sublet or otherwise dispose of this Agreement or any right, title, obligation or interest it may have therein to any third party without prior written approval of H-GAC. The Contractor acknowledges that H-GAC is not liable to any subcontractor or assignee of the Contractor. The Contractor shall ensure that the performance rendered under all subcontracts shall result in compliance with all the terms and provisions of this Agreement as if the performance rendered was rendered by the Contractor. Contractor shall give all required notices, and comply with all laws and regulations applicable to furnishing and performance of the work. Except where otherwise expressly required by applicable law or regulation, H-GAC shall not be responsible for monitoring Contractor's compliance, or that of Contractor's subcontractors, with any laws or regulations.

ARTICLE 11: AUDIT

Notwithstanding any other audit requirement, H-GAC reserves the right to conduct or cause to be conducted an independent audit of any transaction under this Agreement, such audit may be performed by the H-GAC local government audit staff, a certified public accountant firm, or other auditors designated by H-GAC and will be conducted in accordance with applicable professional standards and practices. The Contractor understands and agrees that the Contractor shall be liable to the H-GAC for any findings that result in monetary obligations to H-GAC.

ARTICLE 12: EXAMINATION OF RECORDS

The Contractor shall maintain during the course of the work complete and accurate records of all of the Contractor's costs and documentation of items which are chargeable to H-GAC under this Agreement. H-GAC, through its staff or designated public accounting firm, the State of Texas, and United States Government, shall have the right at any reasonable time to inspect, copy and audit those records on or

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off the premises by authorized representatives of its own or any public accounting firm selected by H-GAC. The right of access to records is not limited to the required retention period, but shall last as long as the records are retained. Failure to provide access to records may be cause for termination of the Agreement. The records to be thus maintained and retained by the Contractor shall include (without limitation): (1) personnel and payroll records, including social security numbers and labor classifications, accounting for total time distribution of the Contractor's employees working full or part time on the work, as well as cancelled payroll checks, signed receipts for payroll payments in cash, or other evidence of disbursement of payroll payments; (2) invoices for purchases, receiving and issuing documents, and all other unit inventory records for the Contractor's stocks or capital items; and (3) paid invoices and cancelled checks for materials purchased and for subcontractors' and any other third parties' charges.

The Contractor further agrees that the examination of records outlined in this article shall be included in all subcontractor or third-party agreements.

ARTICLE 13: RETENTION OF RECORDS

The Contractor and its subcontractors shall maintain all records pertinent to this Agreement, and all other financial, statistical, property, participant records, and supporting documentation for a period of no less than seven (7) years from the later of the date of acceptance of the final payment or until all audit findings have been resolved. If any litigation, claim, negotiation, audit or other action involving the records has been started before the expiration of the retention period, the records shall be retained until completion of the action and resolution of all issues which arise from it, or until the end of the seven (7) years, whichever is later, and until any outstanding litigation, audit, or claim has been fully resolved.

ARTICLE 14: CHANGES AND AMENDMENTS

A. Any alterations, additions, or deletions to the terms of this Agreement, which are required by changes in federal or state law or by regulations, are automatically incorporated without written amendment hereto, and shall become effective on the date designated by such law or by regulation.
B. To ensure the legal and effective performance of this Agreement, both parties agree that any amendment that affects the performance under this Agreement must be mutually agreed upon and that all such amendments must be in writing. After a period of no less than 30 days subsequent to written notice, unless sooner implementation is required by law, such amendments shall have the effect of qualifying the terms of this Agreement and shall be binding upon the parties as if written herein.

ARTICLE 15: TERMINATION PROCEDURES

The Contractor acknowledges that this Agreement may be terminated for Convenience or Default.

A. *Convenience*
   H-GAC may terminate this Agreement at any time, in whole or in part, with or without cause, whenever H-GAC determines that for any reason such termination is in the best interest of H-GAC, by providing written notice by certified mail to the Contractor. Upon receipt of notice of termination, all services hereunder of the Contractor and its employees and subcontractors shall cease to the extent specified in the notice of termination.

   The Contractor may cancel or terminate this Agreement upon submission of thirty (30) days written notice, presented to H-GAC via certified mail. The Contractor may not give notice of cancellation after it has received notice of default from H-GAC.
B. *Default*

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H-GAC may, by written notice of default to the Contractor, terminate the whole or any part of the Agreement, in any one of the following circumstances:

(1) lf the Contractor fails to perform the services herein specified within the time specified herein or any extension thereof; or

(2) If the Contractor fails to perform any of the other provisions of this Agreement for any reason whatsoever, or so fails to make progress or otherwise violates the Agreements that completion of services herein specified within the Agreement term is significantly endangered, and in either of these two instances does not cure such failure within a period often (10) days (or such longer period of time as may be authorized by H-GAC in writing) after receiving written notice by certified mail of default from H-GAC.

ARTICLE 16: SEVERABILITY

H-GAC and Contractor agree that should any provision of this Agreement be determined to be invalid or unenforceable, such determination shall not affect any other term of this Agreement, which shall continue in full force and effect.

ARTICLE 17: FORCE MAJEURE

To the extent that either party to this Agreement shall be wholly or partially prevented from the performance of any obligation or duty placed on such party by reason of or through strikes, stoppage of labor, riot, fire, flood, acts of war, insurrection, accident, order of any court, act of God, or specific cause reasonably beyond the party's control and not attributable to its neglect or nonfeasance, in such event, the time for the performance of such obligation or duty shall be suspended until such disability to perform is removed. Determination of force majeure shall rest solely with H-GAC.

ARTICLE 18: CONFLICT OF INTEREST

No officer, member or employee of the Contractor or subcontractor, no member of the governing body of the Contractor, and no other public officials of the Contractor who exercise any functions or responsibilities in the review or Contractor approval of this Agreement, shall participate in any decision relating to this Agreement which affects his or her personal interest, or shall have any personal or pecuniary interest, direct or indirect, in this Agreement.

ARTICLE 19: FEDERAL COMPLIANCE

Contractor agrees to comply with all federal statutes relating to nondiscrimination, labor standards, and environmental compliance. Additionally, for work to be performed under the Agreement or subcontract thereof, including procurement of materials or leases of equipment, Contractor shall notify each potential subcontractor or supplier of the Contractor's federal compliance obligations. These may include, but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§ 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) the Fair Labor Standards Act of 1938 (29 USC 676 et. seq.), (d) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794), which prohibits discrimination on the basis of handicaps and the Americans with Disabilities Act of 1990; (e) the Age Discrimination in Employment Act of 1967 (29 USC 621 et. seq.) and the Age Discrimination Act of 1974, as amended (42 U.S.C. §§ 6101-6107), which prohibits discrimination on the basis of age; (f) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (g) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to the nondiscrimination on the basis of alcohol abuse or alcoholism; (h) §§ 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (i) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. § 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (j) any other nondiscrimination provisions in any specific statute(s)

applicable to any Federal funding for this Agreement; (k) the requirements of any other nondiscrimination statute(s) which may apply to this Agreement; (l) applicable provisions of the Clean Air Act (42 U.S.C. §7401 et seq.), the Federal Water Pollution Control Act, as amended (33 U.S.C. §1251 et seq.), Section 508 of the Clean Water Act (33 U.S.C. 1368), Executive Order 11738, and the Environmental Protection Agency regulations at 40 CPR Part 15; (m) applicable provisions of the Davis- Bacon Act (40 U.S.C. 276a - 276a-7), the Copeland Act (40 U.S.C. 276c), and the Contract Work Hours and Safety Standards Act (40 U.S.C. 327-332), as set forth in Department of Labor Regulations at 20 CPR 5.5a; (n) the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

ARTICLE 20: CRIMINAL PROVISIONS AND SANCTIONS

The Contractor agrees to perform the Agreement in conformance with safeguards against fraud and abuse as set forth by the H-GAC, the State of Texas, and the acts and regulations of any related state or federal agency. The Contractor agrees to promptly notify H-GAC of any actual or suspected fraud, abuse, or other criminal activity through the filing of a written report within twenty-four (24) hours of knowledge thereof. Contractor shall notify H-GAC of any accident or incident requiring medical attention arising from its activities under this Agreement within twenty-four (24) hours of such occurrence. Theft or willful damage to property on loan to the Contractor from H-GAC, if any, shall be reported to local law enforcement agencies and H-GAC within two (2) hours of discovery of any such act.

The Contractor further agrees to cooperate fully with H-GAC, local law enforcement agencies, the State of Texas, the Federal Bureau of Investigation and any other duly authorized investigative unit, in carrying out a full investigation of all such incidents.

The Contractor shall notify H-GAC of the threat of lawsuit or of any actual suit filed against the Contractor pertaining to this Agreement or which would adversely affect the Contractor's ability to perform services under this Agreement.

ARTICLE 21: INDEMNIFICATION AND RECOVERY

H-GAC's liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to its order processing charge. In no event will H-GAC be liable for any loss of use, loss of time, inconvenience, commercial loss, lost profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor agrees, to the extent permitted by law, to defend and hold harmless H-GAC, its board members, officers, agents, officials, employees and indemnities from any and all claims, costs, expenses (including reasonable attorney fees), actions, causes of action, judgements, and liens arising as a result of Contractor's negligent act or omission under this Agreement. Contractor shall notifiy H-GAC of the threat of lawsuit or of any actual suit filed against Contractor relating to this Agreement.

ARTICLE 22: LIMITATION OF CONTRACTOR'S LIABILITY

Except as specified in any separate writing between the Contractor and an END USER, Contractor's total liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, but excluding its obligation to indemnify H-GAC, is limited to the price of the particular products/services sold hereunder, and Contractor agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. In no event will Contractor be liable for any loss of use, loss of time, inconvenience, commercial loss, loss of profits or savings or other incidental, special or consequential damages to the full extent such use may be disclaimed by law. Contractor understands and agrees that it shall be liable to repay and shall repay upon demand to

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END USER any amounts determined by H-GAC, its independent auditors, or any agency of State or Federal government to have been paid in violation of the terms of this Agreement.

ARTICLE 23: TITLES NOT RESTRICTIVE

The titles assigned to the various Articles of this Agreement are for convenience only. Titles shall not be considered restrictive of the subject matter of any Article, or part of this Agreement.

ARTICLE 24: JOINT WORK PRODUCT

This Agreement is the joint work product of H-GAC and the Contractor. This Agreement has been negotiated by H-GAC and the Contractor and their respective counsel and shall be fairly interpreted in accordance with its terms and, in the event of any ambiguities, no inferences shall be drawn against any party.

ARTICLE 25: DISPUTES

All disputes concerning questions of fact or of law arising under this Agreement, which are not addressed within the Whole Agreement as defined pursuant to Article 4 hereof, shall be decided by the Executive Director of H-GAC or his designee, who shall reduce his decision to writing and provide notice thereof to the Contractor. The decision of the Executive Director or his designee shall be final and conclusive unless, within thirty (30) days from the date of receipt of such notice, the Contractor requests a rehearing from the Executive Director of H-GAC. In connection with any rehearing under this Article, the Contractor shall be afforded an opportunity to be heard and offer evidence in support of its position. The decision of the Executive Director after any such rehearing shall be final and conclusive. The Contractor may, if it elects to do so, appeal the final and conclusive decision of the Executive Director to a court of competent jurisdiction. Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the Agreement and in accordance with H- GAC's final decision.

ARTICLE 26: CHOICE OF LAW: VENUE

This Agreement shall be governed by the laws of the State of Texas. Venue and jurisdiction of any suit or cause of action arising under or in connection with the Agreement shall lie exclusively in Harris County, Texas. Disputes between END USER and Contractor are to be resolved in accordance with the law and venue rules of the state of purchase. Contractor shall immediately notify H-GAC of such disputes.

ARTICLE 27: ORDER OF PRIORITY

In the case of any conflict between or within this Agreement, the following order of priority shall be utilized: 1) General Provisions, 2) Special Provisions, 3) Scope of Work, and, 4) Other Attachments.

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SIGNATURES:
H-GAC and the Contractor have read, agreed, and executed the whole Agreement as of the date first written above, as accepted by:

MSA Safety Sales, LLC

Signature DocuSigned by: Eleni Lucido 69B84E3AC38546C...

Name Eleni Lucido

Title President

Date 7/12/2019

H-GAC

Signature DocuSigned by: 82EC270D5D61423...

Name Chuck Wemple

Title Executive Director

Date 7/11/2019

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H-GAC

Houston-Galveston Area Council
P.O. Box 22777 · 3555 Timmons · Houston, Texas 77227-2777

Cooperative Agreement - MSA Safety Sales, LLC - Public Services -

SPECIAL PROVISIONS

Incorporated by attachment, as part of the whole agreement, H-GAC and the Contractor do, hereby agree to the Special Provisions as follows:

ARTICLE 1: BIDS/PROPOSALS INCORPORATED

In addition to the whole Agreement, the following documents listed in order of priority are incorporated into the Agreement by reference: Bid/Proposal Specifications and Contractor's Response to the Bid/Proposal.

ARTICLE 2: END USER AGREEMENTS ("EUA")

H-GAC acknowledges that the **END USER** may choose to enter into an End User Agreement ("EUA) with the **Contractor** through this Agreement**,** and that the term of the EUA may exceed the term of the current **H-GAC** Agreement. **H-GAC's** acknowledgement is not an endorsement or approval of the End User Agreement's terms and conditions. **Contractor** agrees not to offer, agree to or accept from the **END USER**, any terms or conditions that conflict with those in **Contractor's** Agreement with **H-GAC.** Contractor affirms that termination of its Agreement with H-GAC for any reason shall not result in the termination of any underlying EUA, which shall in each instance, continue pursuant to the EUA's stated terms and duration. Pursuant to the terms of this Agreement, termination of this Agreement will disallow the **Contractor** from entering into any new EUA with **END USERS.** Applicable **H-GAC** order processing charges will be due and payable to **H-GAC** on any EUAs, surviving termination of this Agreement between **H-GAC** and **Contractor.**

ARTICLE 3: MOST FAVORED CUSTOMER CLAUSE

Contractor shall provide its most favorable pricing and terms to H-GAC. If at any time during this Agreement, Contractor develops a regularly followed standard procedure of entering into agreements with other governmental customers within the State of Texas, and offers the same or substantially the same products/services offered to **H-GAC** on a basis that provides prices, warranties, benefits, and or terms more favorable than those provided to **H-GAC**, **Contractor** shall notify **H-GAC** within ten (10) business days thereafter, and this Agreement shall be deemed to be automatically retroactively amended, to the effective date of Contractor's most favorable past agreement with another entity. **Contractor** shall provide the same prices, warranties, benefits, or terms to **H-GAC** and its END USER as provided in its most favorable past agreement. H-GAC shall have the right and option at any time to decline to accept any such change, in which case the amendment shall be deemed null and void. If **Contractor** claims that a more favorable price, warranty, benefit, or term that was charged or offered to another entity during the term of this Agreement, does not constitute more favorable treatment, than **Contractor** shall, within ten (10) business days, notify **H-GAC** in writing, setting forth the detailed reasons **Contractor** believes the aforesaid offer is not in fact most favored treatment. **H-GAC**, after due consideration of Contractor's written explanation, may decline to accept such explanation and thereupon this Agreement between **H-GAC** and **Contractor** shall be automatically amended, effective retroactively, to the effective date of the most favored agreement, to provide the same prices, warranties,

benefits, or terms to H-GAC and the END USER.
EXCEPTION: *This clause shall not be applicable to prices and price adjustments offered by a bidder, Proposer or contractor, which are not within bidder's/proposer's control [example; a manufacturer's bid concession], or to any prices offered to the Federal Government and its agencies.*

ARTICLE 4: PARTY LIABILITY

Contractor's total liability under this Agreement, whether for breach of contract, warranty, negligence, strict liability, in tort or otherwise, is limited to the price of the particular products/services sold hereunder. Contractor agrees either to refund the purchase price or to repair or replace product(s) that are not as warranted. Contractor accepts liability to repay, and shall repay upon demand to END USER, any amounts determined by H-GAC, its independent auditors, or any state or federal agency, to have been paid in violation of the terms of this Agreement.

ARTICLE 5: GOVERNING LAW & VENUE

Contractor and H-GAC agree that Contractor will make every reasonable effort to resolve disputes with the **END USER** in accord with the law and venue rules of the state of purchase. **Contractor** shall immediately notify **H-GAC** of such disputes.

ARTICLE 6: SALES AND ORDER PROCESSING CHARGE

Contractor shall sell its products to **END USERS** based on the pricing and terms of this Agreement. **H-GAC** will invoice **Contractor** for the applicable order processing charge when H-GAC receives notification of an END USER order. **Contractor shall remit to H-GAC** the full amount of the applicable order processing charge, after delivery of any product or service and subsequent END USER acceptance**.** Payment of the Order Processing Charge shall be remitted from Contractor to H-GAC, within thirty (30) calendar days or ten (10) business days after receipt of an END USER's payment, whichever comes first, notwithstanding Contractor's receipt of invoice. For sales made by **Contractor** based on this Agreement**,** including sales to entities without Interlocal Agreements, **Contractor** shall pay the applicable order processing charges to **H-GAC.** Further, **Contractor** agrees to encourage entities who are not members of H-GAC**'s** Cooperative Purchasing Program to execute an **H-GAC** Interlocal Agreement. **H-GAC** reserves the right to take appropriate actions including, but not limited to, Agreement termination if **Contractor** fails to promptly remit the appropriate order processing charge to H-GAC. In no event shall **H-GAC** have any liability to **Contractor** for any goods or services an **END USER** procures from **Contractor.** At all times, **Contractor** shall remain liable to pay to **H-GAC** any order processing charges on any portion of the Agreement actually performed**,** and for which compensation was received by **Contractor.**

ARTICLE 7: LIQUIDATED DAMAGES

Contractor and H-GAC agree that Contractor shall cooperate with the END USER at the time an END USER purchase order is placed, to determine terms for any liquidated damages.

ARTICLE 8: INSURANCE

Unless otherwise stipulated in Section B of the Bid/Proposal Specifications, **Contractor** must have the following insurance and coverage minimums:

a. **General liability** insurance with a Single Occurrence limit of at least $1,000,000.00, and a General

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Aggregate limit of at least two times the Single Occurrence limit.

Product liability insurance with a Single Occurrence limit of at least $1,000,000.00, and a General Aggregate limit of at least two times the Single Occurrence limit for all Products except Automotive Fire Apparatus. For Automotive Fire Apparatus, see Section B of the Bid/Proposal Specifications.

Property Damage or Destruction insurance is required for coverage of **End User** owned equipment while in **Contractor's** possession, custody or control. The minimum Single Occurrence limit is $500,000.00 and the General Aggregate limit must be at least two times the Single Occurrence limit. This insurance may be carried in several ways, e.g. under an Inland Marine policy, as art of Automobile coverage, or under a Garage Keepers policy. In any event, this coverage must be specifically and clearly listed on insurance certificate(s) submitted to **H-GAC**.

b. Insurance coverage shall be in effect for the length of any contract made pursuant to the Bid/Proposal, and for any extensions thereof, plus the number of days/months required to *deliver* any outstanding order after the close of the contract period.

c. Original Insurance Certificates must be furnished to **H-GAC** on request, showing **Contractor** as the insured and showing coverage and limits for the insurances listed above.

d. If any Product(s) or Service(s) will be provided by parties other than **Contractor**, all such parties are required to carry the minimum insurance coverages specified herein, and if requested by **H-GAC**, a separate insurance certificate must be submitted for each such party.

e. **H-GAC** reserves the right to contact insurance underwriters to confirm policy and certificate issuance and document accuracy.

ARTICLE 9: PERFORMANCE AND PAYMENT BONDS FOR INDIVIDUAL ORDERS

H-GAC's contractual requirements DO NOT include a Performance & Payment Bond (PPB); therefore, Contractor shall offer pricing that reflects this cost savings. **Contractor** shall remain prepared to offer a PPB to cover any order if so requested by the **END USER**. **Contractor** shall quote a price to **END USER** for provision of any requested PPB, and agrees to furnish the PPB within ten business (10) days of receipt of **END USER's** purchase order.

ARTICLE 10: CHANGE OF STATUS

Contractor shall immediately notify **H-GAC,** in writing, of **ANY** change in ownership, control, dealership/franchisee status, Motor Vehicle license status, or name. Contractor shall offer written guidance to advise H-GAC if this Agreement shall be affected in any way by such change. **H-GAC** shall have the right to determine whether or not such change is acceptable, and to determine what action shall be warranted, up to and including cancellation of Agreement.

ARTICLE 11: TEXAS MOTOR VEHICLE BOARD LICENSING

All that deal in motor vehicles shall maintain current licenses that are required by the Texas Motor Vehicle Commission Code. If at any time during this Agreement term, any required **Contractor** license is denied, revoked, or not renewed, **Contractor** shall be in default of this Agreement, unless the Texas Motor Vehicle

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Board issues a stay or waiver. Contractor shall promptly provide copies of all current applicable Texas Motor Vehicle Board documentation to **H-GAC** upon request.

Attachment A			
MSA Safety Sales, LLC			
Emergency Medical & Rescue Equipment			
Contract No.: EE08-19			
Product Code	**Mfg.**	**Model & Description**	**Base Offered Price**
EE19ACA	MSA	MSA 2019 US Suggested List Price Book (Effective Jan 1, 2019)	15%
EE19HDA	MSA	MSA 2019 US Suggested List Price Book (Effective Jan 1, 2019)	5%
EE19LVA	MSA	Fire and Rescue Helmets-Effective 01/15/2019	15%

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CONTRACT ASSIGNMENT AND ASSUMPTION AGREEMENT

This Contract Assignment and Assumption Agreement is made by and between the **Houston-Galveston Area Council of Governments (H-GAC), MSA Safety Sales, LLC (Contractor)** and **Fire & Safety Equipment Company, Inc. (Assignee).**

WHEREAS, **Contractor** entered into a cooperative purchasing Contract, identified as **EE08-19**, with **H-GAC** for the sale of **Emergency Medical and Rescue Equipment** to various End User governmental agencies participating in **H-GAC's** Cooperative Purchasing Program; and

WHEREAS, **Contractor** assigns the performance of its obligations under the Contract to **Assignee** for cooperative purchasing business in specific areas (per attached Information Sheet); and

WHEREAS, **Assignee** shall perform as stipulated in the original Contract (a copy of which is attached hereto) and comply with all the terms and conditions set forth therein; and

WHEREAS, **Contractor** will continue as originally contracted with **H-GAC**; and

NOW THEREFORE, **Assignee** agrees to accept this assignment, and **H-GAC** concurs.

Unless otherwise noted, this Agreement goes into effect on the date signed by **H-GAC**. All other terms and conditions of the Contract shall remain unchanged and in full force and effect.

IN WITNESS WHEREOF, the parties have caused this Contract Assignment and Assumption Agreement to be executed by their respective duly authorized representatives.

Signed for **Houston-Galveston Area Council:** DocuSigned by: 82EC270D5D61423...

Chuck Wemple, Executive Director

11/19/2019

Date

Signed for **MSA Safety Sales, LLC** Cranberry Township, Pennsylvania: Michael J Taillon Date: August 27, 2019

(Signature of Contractor)

Michael J. Taillon, Manager, NA Sales Channels

Printed Name & Title

Signed for **Fire & Safety Equipment Company, Inc.** Concord, Virginia: Donna Lawson Date: 10/31/19

(Signature of Assignee)

Donna Lawson President

Printed Name & Title

DocuSign Envelope ID: 578A9672-248A-45FA-A6A0-9F50D9C770F7

Information Sheet

Assignee:

Fire & Safety Equipment Company, Inc.

Contact Person:

Name: Rodney Lawson
Title: CEO
TEL: (434) 993-2425
Fax: (434) 993-2679
EMAIL: rlawson@fireandsafety.net

Address:
7854 Stage Road
Concord, VA 24538

Territory:
State of Virginia : Albemarle County, Amherst County, Appomattox County, Augusta County, Bath County, Bedford City, Bedford County, Buckingham County, Buena Vista City, Campbell County, Charlotte County, Charlottesville City, Cumberland County, Fluvanna County, Greene County, Halifax County, Harrisonburg City, Highland County, Lexington City, Lunenburg County, Lynchburg City, Madison County, Mecklenburg County, Nelson County, Nottoway County, Page County, Prince Edward County, Rappahannock County, Rockbridge County, Rockingham County, Shenandoah County, Staunton City, and Waynesboro City.

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HOUSTON-GALVESTON AREA COUNCIL

February 25, 2020

Mr. Scott McGuire
NA Sales Channels Specialist
1000 Cranberry Woods Drive
Cranberry Twp, PA 16066

RE: Contract Changes on Contract EE08-19 for the Supply of Emergency Medical and Rescue Equipment.

Dear Mr. McGuire:

The Houston-Galveston Area Council has reviewed your request for contract changes in the above referenced contract (see attachments). We have determined that the changes are reasonable and conform to the provisions of the contract. Therefore, the request is approved.

Sincerely,

DocuSigned by:
Ronnie Barnes
D3E2DDD166F2488...

Ronnie O. Barnes
Director of Public Services

ROB/yf

Enclosures

Mailing Address
PO Box 22777
Houston, Texas 77227-2777
Phone 713-627-3200

Physical Address
3555 Timmons Lane, Suite 120
Houston, Texas 77027
Phone 713-627-3200

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Date: **February 25, 2020**

To: Brian Denzel

From: Bill Burton

RE: **Contract Change Request**
MSA Safety Incorporated – Contract #EE08-19

MSA Safety Incorporated, in correspondence of February 24, 2020 has requested their contract be amended to reflect product updates published January 2020.

Staff has reviewed the request and determined it to be in accordance with applicable contract requirements. The new pricing is 2% higher and reflects latest 2020 model year pricing. Approval is recommended.

Please advise if and when request is approved so that we may advise appropriate staff and arrange for website update.

WEB
Attachments

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Burton, William

From: Scott McGuire <Scott.McGuire@msasafety.com>
Sent: Monday, February 24, 2020 1:50 PM
To: Burton, William
Subject: HGAC Contract EE08-19-Catalog/Price Update
Attachments: 6001-435-MC_HGAC-Fire-Service-Catalog_2020_r2.pdf; 6001-443-MC HGAC Pricing Discount Reference Bulletin.pdf; MSA Safety IncorporatedR1-Attachment a-2-24-20.xlsx; 2020 US Suggested List Price - Eff-1-1-20.xlsx; 2020 Price Adjustment Letter-NNA.pdf

CAUTION: This message originated outside of H-GAC. Please do not click links or open attachments unless you recognize the source and know the content is safe. Report any suspicious email using the Phish Alert button.

Bill,
MSA issued a price increase to our commercial end-user customers on January 1, 2020. We would like to officially request that this price increase being included as a part of our current HGAC contract# EE08-19. In order to start this process, I attached the following items.

- Updated HGAC catalog, reflecting this January 2020 date.
- Updated HGAC discount structure chart also reflecting this 2020 date.
- A spreadsheet showing the January 1, 2020 US Suggested List Price for all items on contract.
- An updated Attachment A
- A copy of the price increase justification letter that outlines the average percent increase.

If you have any questions or need any additional information, please do not hesitate to email or call me.

Sincerely,
Scott

MSA
The Safety Company

Scott McGuire
NA Sales Channels Specialist
MSA Safety
1000 Cranberry Woods Drive
Cranberry Twp, PA 16066
United States

Office Phone: 724-742-8028

MSAsafety.com

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MSA
The Safety Company

1000 Cranberry Woods Drive
Cranberry Township, PA 16066
800.MSA.2222
www.MSAsafety.com

September 30, 2019

Dear Channel Partner:

Each and every year, MSA has been focused on achieving customer satisfaction through our innovative safety products. We accomplish this by listening to our customers' needs, developing best-in-class products and backing up those products with unmatched customer service. This has been another successful year for MSA and our channel partners. **In 2019, MSA has and will be able to deliver some of these exciting products:**

- The ***V-Gard® H1 Safety Helmet*** and accessories provide exceptional comfort and ease of use in a stylish low-profile design. A complete above-the-neck platform for all applications, especially work-at-heights, confined spaces, and rescue applications.
- The ***V-Series® Harness*** Line incorporates unique features provide superior comfort. The increased flexibility and adjustability of the V-Series harnesses allow you to focus on your work and not your harness.
- Finally, MSA is excited to release the ***ALTAIR® io360***, the future of area monitoring. The io360 will effortlessly monitor work sites up to 60 days and provide immediate feedback through the ***Safety io*** grid services.

In our effort to deliver products in the quality that our customers demand, MSA has experienced cost increases in materials, wages and transportation. We are actively working to control these cost increases. But unfortunately, we cannot mitigate them all, therefore, **MSA will implement a 1–4% price increase** (on average) **effective January 1, 2020** for most of our products.

We value the relationships we have built with our channel partners. Collectively, we will work together to bolster our brands and reputations. MSA will always provide you with industry leading products, manufactured with the highest quality as you have come to expect.

As always, I'd like to thank you for being a valued partner in safety. Your revised 2020 pricing with detailed changes will be conveyed in upcoming communication. In the meantime, please feel free to contact me directly by phone (717-371-7889) or via email at Dave.Howells@MSASafety.com.

Sincerely,

David J. Howells
Vice President, Global Distribution Channels

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Attachment A

MSA Safety Incorporated

Emergency Medical & Rescue Equipment

Contract No.: EE08-19

Product Code	Mfg.	Model & Description	Base Offered Price
EE19ACA	MSA	MSA 2019 US Suggested List Price Book (Effective Jan 1, 2019)	15%
EE19HDA	MSA	MSA 2019 US Suggested List Price Book (Effective Jan 1, 2019)	5%
EE19LVA	MSA	Fire and Rescue Helmets-Effective 01/15/2019	15%

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Attachment A

MSA Safety Incorporated

Emergency Medical & Rescue Equipment

Contract No.: EE08-19

Product Code	Mfg.	Model & Description	Base Offered Price
EE19ACA	MSA	MSA 2020 US Suggested List Price Book (Effective Jan 1, 2020)	15%
EE19HDA	MSA	MSA 2020 US Suggested List Price Book (Effective Jan 1, 2020)	5%
EE19LVA	MSA	Fire and Rescue Helmets MSA 2020 US Suggested List Price Book-Effective 01/01/2020	15%

2020 **Suggested Price List**

All Prices in U.S. Dollars | **Prices Effective January 1, 2020**

MSA
The Safety Company

WE KNOW WHAT'S AT STAKE.

Note:
- All items NET 30 days.
- Prices subject to change without notice.
- Prices listed are applicable in the United States only.

Return Material Policy
Before returning products, consult MSA Customer Service Center at 1-800-MSA-2222.
Goods may not be returned without specific authorization.

MSA Gives You a Margin of Safety on the Job

Since MSA began operations in 1914, our reputation for **quality products** has never been challenged. Many components of MSA products are formulated, machined, tooled, or molded in-house from raw materials. This means greater manufacturing control for us and quality assurance for you.

MSA North America's Quality Management System **is certified and compliant to ISO 9001:2008 requirements** of the International Standard Organization (ISO).

At MSA, we believe that **personalized service** starts locally with a network of **trained MSA-authorized distributors and the largest team of field representatives in the safety industry.** Some are experts in specific industries. They understand the hazards you fight and the regulations that you must comply with. They'll help analyze your safety requirements and recommend solutions.

MSA's **Customer Service Center** has well trained associates using advanced computer systems. And that means better service, more dependable assistance, and faster solutions.

Ask us for the name of your nearest MSA authorized distributor, who can:
- Take your orders
- Give you prices and quotes
- Provide product information and technical assistance
- Check delivery and expedite shipments
- Order catalogs and product literature
- Obtain return authorizations
- Provide authorized repair and service info

To reach our Customer Service Center:

Toll-free phone: 1-800-672-2222

Emergency After Hours Line: 1-800-672-5555

FAX: 1-800-967-0398

MSA Voice Mail System: 1-877-866-7222

Email: info.us@msasafety.com

Mailing Address:
Customer Service Center
MSA – The Safety Compnay
1000 Cranberry Woods Drive,
Cranberry Township, PA 16066

Visit MSA's web site **www.MSAsafety.com** to view our online catalog for product information and Adobe Acrobat PDF versions of our printed literature. And while you are there, don't miss the opportunity to check out our MSA-U® Training Center.

MSA-U offers over 150 free online programs that cover MSA products and technologies, general industry safety standards, and more. With a variety of training program formats including video, animation and interactive simulators, training is entertaining and effective. Features include:
- Course quizzes
- Course completion certificates
- Progress reports
- Training alerts
- Training expiration notices
- Ability to create teams
- Custom curricula
- Custom training reports

Start customizing your training program today at **http://msau.msasafety.com**.

"Like" us on Facebook
Visit **www.facebook.com/MSATheSafetyCompany** for the latest news, stories, contests and more from MSA.

MSA-TV Videos
For product overviews, demos and rescue stories, visit http://msatv.msanet.com or subscribe to our YouTube Channel at **www.youtube.com/msasafety**.

To reach our Customer Service Center

Toll-free: 1-800-MSA-2222
(after hours emergencies).....1-800-MSA-5555
MSA Voice Mail System: 1-877-866-7222
Customer Service FAX: 1-800-967-0398
Order email: .....placeorder@MSAsafety.com
Fire Service: 1-877-672-3473
Fire Service FAX: 1-877-672-3930
Fire Service email: .....fire.cs@MSAsafety.com

NUMBER		PRICE
3532	Ea	1.50
8932	Ea	0.48
9961	Ea	82.05
11354	Ea	75.00
11535	Ea	14.00
11912	Ea	106.00
11913	Ea	139.00
11955	Ea	91.00
11956	Ea	6.00
11957	Ea	206.00
11958	Ea	214.00
11960	Ea	254.00
11961	Ea	239.00
13016	Ea	10.57
14318	Pkg	114.00
14438	Ea	34.29
15244	Ea	21.87
15264	Ea	129.00
15339	Ea	35.36
15613	Ea	122.00
15756	Ea	12.30
16372	Ea	50.00
16388	Ea	13.00
16499	Pkg	34.00
16839	Ea	58.00
17074	Ea	47.00
17554	Ea	17.62
22420	Ea	6.00
24194	Ft	19.00
28317	Ea	220.00
28907	Ea	14.31
29264	Ft	14.00
29787	Ea	159.08
30052	Ea	12.00
39851	Ea	311.32
42884	Ea	36.26
42911	Ea	3.58
42912	Ea	1.19
45174	Ea	195.00
46314	Ea	26.00
46727	Ea	24.25
47370	Ea	718.00
48733	Ea	24.78
50029	Ea	7.00
50287	Ea	1.19
50998	Ea	4.77
51704	Ea	0.28
53858	Ea	12.50
54182	Ea	6.00
54197	Ea	3.58
55680	Ea	14.00
55716	Ea	11.34
55718	Ea	24.56
56036	Ea	5.62
56549	Ea	15.45
57273	Ea	0.28
57572	Ea	13.00
58387	Ea	21.00
58866	Ea	5.00
58895	Ea	6.00
59126	Ea	1.19
59599	Ea	5.00
59686	Ea	65.11
60532	Ea	0.61
60707	Ea	5.96
60708	Ea	4.77
60902	Ea	0.23
61519	Ea	64.46
61765	Ea	1.19
61879	Ea	23.60
62726	Ea	7.11
63013	Ea	0.83
63198	Ea	13.52
63832	Ea	0.79
63862	Ea	14.00
65519	Ea	6.00
65523	Ea	0.53
65536	Ea	1.19
65546	Ea	6.00
65564	Ea	0.31
65595	Ea	5.00
65871	Ea	6.00
65949	Ea	1.48
65958	Ea	11.64
66040	Ea	1.19
66137	Ea	13.00
66272	Ea	70.50
66273	Ea	15.87
66274	Ea	10.96
66309	Ea	6.00
66315	Ea	1.19
66317	Ea	1.19
66395	Ea	3.58
66691	Ea	0.65
66707	Ea	5.00
66716	Ea	475.00
66835	Ea	4.37
66839	Ea	3.51
66862	Ea	3.58
68523	Ea	10.73
68542	Ea	6.56
68550	Ea	31.08
68833	Ea	25.44
68850	Ea	92.78
68851	Ea	76.95
68858	Ea	802.52
69217	Ea	18.00
69269	Ea	29.00
69541	Ea	24.67
69542	Ea	19.21
69901	Ea	48.30
72803	Ea	2.44
73067	Ea	77.00
73069	Ea	384.00
73415	Ea	17.16
73814	Ea	30.00
73815	Ea	32.00
73839	Ea	13.00
74286	Ea	30.00
74811	Ea	34.00
74814	Ea	518.00
74997	Ea	158.96
75223	Ea	44.29
76367	Ea	154.73
76658	Ea	19.00
76659	Ea	27.46
78362	Ea	221.49
78584	Ea	2.42
78703	Ea	5.89
79030	Ea	42.77
79409	Ea	32.00
79717	Ea	16.59
80416	Ea	21.43
80495	Ea	10.73
81696	Ea	139.00
81748	Ea	21.00
81773	Ea	577.58
81776	Ea	147.33
81857	Ea	765.00
82018	Ea	117.85
82168	Ea	5.25
82382	Ea	4.82
82769	Ea	70.17
82797	Ea	14.51
83015	Ea	29.82
83026	Ea	10.01
83365	Ea	13.49
83731	Ea	12.02
83831	Ea	7.65
84416	Ea	427.45
84418	Ea	343.41
84930	Ea	9.01
85049	Ea	161.42
85051	Ea	22.22
85052	Ea	10.38
85053	Ea	7.16
85055	Ea	3.58
85078	Ea	700.24
85109	Ea	60.02
85277	Ea	7.17
85368	Ea	10.08
85369	Ea	5.39
85375	Ea	198.00
85490	Ea	4.65
85570	Ea	218.40
85571	Ea	290.84
85759	Ea	698.99
86537	Ea	16.16
86602	Ea	1,124.58
87009	Ea	24.00
87013	Ea	23.38
87970	Ea	27.00
88103	Ea	623.40
89473	Ea	58.35
89735	Ea	15.00
89774	Ea	5.90
89775	Ea	3.55
91374	Ea	164.32
91522	Ea	70.17
91584	Ea	70.17
91585	Ea	70.17
91586	Ea	70.17
91589	Ea	70.17
91590	Ea	70.17
91728	Ea	23.57
93031	Ea	5.96
93050	Ea	25.73
93063	Ea	10.43
93772	Ea	726.37
93931	Ea	689.54
94906	Ea	5.47
95019	Ea	125.38
95021	Ea	1,075.00
95130	Ea	4.37
95278	Ea	128.66
95375	Ea	10.73
96329	Ea	92.00
96547	Ea	42.83
96666	Ea	5.64
303875	Ea	84.21
305026	Ea	67.05
305027	Ea	67.05
415100	Ea	51.85
415108	Ea	83.84
415275	Ea	100.59
415276	Ea	100.59
415277	Ea	97.61
415278	Ea	107.28
415279	Ea	100.59
415280	Ea	97.61
415289	Ea	84.91
415290	Ea	84.91
415292	Ea	89.39
415293	Ea	84.91
415302	Ea	72.87
415331	Ea	71.50
415333	Ea	71.50
415335	Ea	93.04
415336	Ea	81.70
415337	Ea	83.97
415338	Ea	81.70
415339	Ea	89.64
415340	Ea	93.04
415341	Ea	81.70
415400	Ea	69.22
415401	Ea	71.48
415402	Ea	69.22
415420	Ea	47.66
415421	Ea	47.66
415422	Ea	47.66
415423	Ea	47.66
415426	Ea	95.48
415800	Ea	206.81
415801	Ea	206.81
415803	Ea	207.64
415804	Ea	206.50
415805	Ea	207.64
415806	Ea	226.93
415865	Ea	109.53
415866	Ea	118.78
415868	Ea	145.48
415869	Ea	166.17
415870	Ea	221.66
415871	Ea	275.55

NUMBER		PRICE
415872	Ea	388.31
415873	Ea	511.62
415937	Ea	67.06
415938	Ea	73.75
415939	Ea	82.13
415940	Ea	266.68
415942	Ea	498.59
415943	Ea	640.30
415960	Ea	191.93
415962	Ea	323.98
415963	Ea	412.04
415965	Ea	521.91
416048	Ea	91.32
416049	Ea	122.82
416050	Ea	155.07
416051	Ea	184.25
416052	Ea	250.37
416053	Ea	306.26
416067	Ea	554.21
416068	Ea	65.26
416070	Ea	17.21
416077	Ea	400.85
430371	Ea	15.12
430372	Ea	34.43
430373	Ea	38.00
430374	Ea	27.42
430375	Ea	11.12
448900	Ea	65.12
448901	Ea	65.12
448903	Ea	65.12
448904	Ea	67.03
448905	Ea	65.12
448906	Ea	67.03
448910	Ea	81.44
448911	Ea	81.44
448912	Ea	81.44
448914	Ea	65.09
448917	Ea	36.00
449391	Ea	39.77
449401	Ea	52.00
449428	Ea	45.41
449482	Ea	23.00
449802	Ea	42.00
449895	Ea	18.13
449988	Ea	71.00
454231	Ea	11.80
454232	Ea	8.88
454314	Ea	27.00
454315	Ea	16.00
454318	Ea	18.72
454379	Ea	16.00
454544	Ea	10.92
454617	Ea	110.18
454618	Ea	116.06
454619	Ea	116.06
454620	Ea	116.06
454621	Ea	116.06
454622	Ea	116.06
454623	Ea	116.06
454626	Ea	116.06
454649	Ea	103.38
454664	Ea	123.92
454665	Ea	128.36
454666	Ea	128.36
454668	Ea	128.36
454670	Ea	128.36
454672	Ea	128.36
454673	Ea	128.36
454712	Ea	31.84
454713	Ea	31.84
454714	Ea	31.84
454716	Ea	31.84
454717	Ea	31.84
454718	Ea	31.84
454719	Ea	31.84
454720	Ea	31.84
454721	Ea	29.85
454722	Ea	29.85
454723	Ea	29.85
454725	Ea	29.85
454726	Ea	29.85
454727	Ea	29.85
454728	Ea	29.85
454729	Ea	29.85
454730	Ea	16.14
454731	Ea	16.14
454732	Ea	16.14
454733	Ea	16.14
454734	Ea	16.14
454735	Ea	16.14
454736	Ea	16.14
454816	Ea	34.81
454819	Ea	144.15
454998	Ea	34.12
455019	Ea	71.89
455020	Ea	178.14
455021	Ea	238.73
455022	Ea	332.05
455129	Ea	93.00
455130	Ea	93.00
455299	Ea	766.07
455662	Ea	78.37
455696	Ea	1,597.70
455804	Pkg	9.31
455941	Ea	8.36
456376	Ea	49.00
456389	Ea	39.02
456651	Ea	168.89
456667	Ea	49.64
456823	Ea	55.92
456975	Box	94.18
457126	Pkg	569.68
457158	Ea	156.64
457190	Ea	6.85
457435	Ea	131.18
457447	Ea	139.69
457621	Ea	580.00
457862	Ea	130.84
457863	Ea	137.20
458169	Ea	610.00
458173	Ea	66.98
458212	Ea	11.63
458480	Box	234.00
458481	Ea	220.00
458702	Ea	136.27
458899	Ea	130.84
459021	Ea	239.29
459035	Ea	3.60
459458	Ea	16.84
459711	Ea	5.95
459858	Ea	13.49
459867	Ea	9.05
459942	Ea	93.00
459943	Ea	93.00
459944	Ea	93.00
459945	Ea	93.00
459946	Ea	93.00
459948	Ea	274.00
459949	Ea	274.00
460018	Ea	37.36
460027	Ea	80.45
460069	Ea	42.67
460070	Ea	42.67
460071	Ea	42.67
460073	Ea	42.67
460184	Ea	10.41
460345	Ea	93.00
460389	Ea	160.03
460409	Ea	148.63
460814	Ea	601.08
460981	Ea	28.00
461047	Ea	93.00
461100	Ea	930.10
461180	Ea	10.85
461321	Ea	5.43
461519	Ea	105.81
461610	Ea	40.94
461706	Ea	627.50
461768	Ea	93.00
461769	Ea	93.00
461828	Ea	9.54
461864	Ea	200.01
461918	Ea	925.00
461958	Ea	5.58
461959	Ea	14.13
462185	Ea	19.98
462282	Ea	199.92
462628	Ea	16.43
462638	Ea	120.37
462639	Ea	136.07
462709	Ea	18.92
463111	Ea	10.85
463245	Ea	22.87
463265	Ea	371.75
463278	Ea	742.33
463938	Ea	786.23
463942	Ea	10.85
463943	Ea	10.85
463944	Ea	10.85
463945	Ea	10.85
463946	Ea	10.85
463947	Ea	10.85
463948	Ea	10.85
464031	Box	102.08
464032	Box	102.08
464033	Box	115.34
464046	Box	102.08
464358	Ea	45.92
464360	Ea	1.23
464500	Ea	244.38
464658	Ea	10.85
464852	Ea	10.85
465008	Ea	1.63
465284	Ea	19.55
465420	Ea	4.90
465421	Ea	7.19
465422	Ea	10.22
465423	Ea	1.12
465425	Pkg	522.91
465457	Pkg	465.79
465462	Ea	23.00
465463	Ea	26.00
465476	Ea	22.00
465477	Ea	13.00
465487	Ea	168.00
465520	Ea	300.00
465545	Ea	60.00
465572	Ea	638.00
465612	Ea	29.00
465613	Ea	29.00
466008	Ea	133.34
466051	Ea	3.58
466075	Ea	755.41
466077	Ea	746.15
466193	Ea	93.00
466202	Ea	218.09
466295	Ea	111.59
466354	Ea	16.14
466355	Ea	16.14
466356	Ea	16.14
467044	Ea	112.00
467386	Ea	13.32
467451	Ea	142.09
467895	Ea	274.00
467897	Ea	263.00
467898	Ea	263.00
468084	Ea	265.14
468096	Ea	13.45
468248	Ea	93.00
468249	Ea	93.00
468356	Ea	78.00
468377	Ea	14.00
468453	Ea	47.00
468573	Ea	4.37
468705	Ea	153.17
468716	Ea	1,668.31
468718	Ea	1,668.31
468720	Ea	1,533.33
468722	Ea	1,533.33
468724	Ea	647.22
468725	Ea	485.43
468730	Ea	64.13
468765	Ea	9.54
468771	Ea	8.09

NUMBER		PRICE
469710	Ea	52.87
469711	Ea	95.31
469869	Ea	752.40
470038	Ea	146.85
470039	Ea	166.72
470189	Ea	6.97
470190	Ea	10.11
470194	Ea	90.45
470198	Ea	405.21
470362	Ea	288.40
470734	Ea	139.33
470735	Ea	45.66
470786	Ea	485.49
470875	Ea	40.94
470909	Ea	19.66
470910	Ea	19.66
471218	Ea	569.68
471230	Ea	569.68
471249	Ea	45.92
471250	Ea	45.92
471286	Pkg	488.59
471298	Pkg	488.59
471310	Pkg	488.60
471369	Pkg	438.63
471371	Pkg	438.63
471373	Pkg	438.63
471501	Ea	75.33
471511	Ea	155.11
471512	Ea	152.69
471513	Ea	293.27
471577	Ea	265.14
471580	Ea	265.14
471587	Ea	224.50
471625	Ea	173.11
471681	Ea	522.91
471682	Ea	522.91
471683	Pkg	465.79
471684	Pkg	465.79
471777	Ea	74.15
471778	Ea	173.30
471779	Ea	197.53
471814	Ea	365.52
471815	Ea	365.52
471818	Ea	377.98
472666	Ea	715.16
472668	Ea	715.16
472670	Ea	715.16
472859	Ea	273.08
473150	Ea	152.00
473180	Ea	263.00
473238	Pkg	645.25
473240	Pkg	512.59
473246	Ea	4.77
473250	Ea	181.29
473254	Ea	87.72
473284	Ea	16.14
473285	Ea	16.14
473312	Ea	683.04
473314	Ea	683.04
473316	Ea	683.04
473330	Ea	10.74
473331	Ea	17.42
473501	Ea	62.89
473502	Ea	116.41
473567	Ea	42.11
473568	Ea	46.79
473575	Ea	42.11
473577	Ea	44.45
473698	Ea	53.58
473699	Ea	83.30
473798	Pkg	434.76
473800	Pkg	505.17
473802	Pkg	573.12
473902	Ea	17.76
473957	Ea	23.39
473969	Pkg	30.41
473996	Ea	213.98
474002	Ea	299.41
474021	Ea	589.48
474022	Ea	588.62
474023	Ea	593.24
474025	Ea	512.26
474026	Ea	301.89
474027	Ea	275.78
474030	Ea	319.36
474034	Ea	315.61
474035	Ea	315.61
474043	Ea	493.23
474302	Ea	21.45
474352	Ea	15.51
474369	Ea	33.92
474555	Ea	44.00
474928	Ea	170.05
474929	Ea	386.42
475185	Ea	62.00
475235	Ea	10.85
475240	Ea	66.49
475275	Ea	20.50
475276	Ea	31.72
475336	Ea	80.81
475337	Ea	80.81
475338	Ea	80.81
475339	Ea	80.81
475340	Ea	80.81
475341	Ea	80.81
475358	Ea	18.01
475359	Ea	18.01
475360	Ea	18.01
475361	Ea	18.01
475362	Ea	18.01
475363	Ea	18.01
475364	Ea	18.01
475365	Ea	18.01
475366	Ea	24.03
475367	Ea	24.03
475368	Ea	24.03
475369	Ea	24.03
475370	Ea	24.03
475371	Ea	24.03
475378	Ea	37.32
475379	Ea	37.32
475380	Ea	37.32
475382	Ea	37.32
475383	Ea	37.32
475384	Ea	37.32
475385	Ea	37.32
475386	Ea	37.32
475387	Ea	39.17
475388	Ea	39.17
475389	Ea	39.17
475390	Ea	39.17
475391	Ea	39.17
475392	Ea	39.17
475393	Ea	39.17
475394	Ea	39.17
475395	Ea	123.68
475396	Ea	129.59
475397	Ea	129.59
475398	Ea	129.59
475399	Ea	129.59
475400	Ea	129.59
475401	Ea	129.59
475404	Ea	129.59
475405	Ea	129.59
475407	Ea	137.11
475408	Ea	141.47
475409	Ea	141.47
475411	Ea	137.63
475412	Ea	142.87
475414	Ea	142.87
475416	Ea	142.87
475448	Ea	4.77
475858	Ea	102.93
475919	Ea	109.96
476084	Ea	18.00
476085	Ea	10.00
476089	Pkg	139.11
476105	Ea	1,374.36
476136	Ea	86.04
476156	Ea	533.37
476302	Ea	93.00
476304	Ea	93.00
476441	Ea	5.96
476609	Ea	431.00
476734	Ea	183.39
476735	Ea	193.36
476737	Ea	175.51
476899	Ea	35.09
476928	Ea	16.14
476955	Ea	34.45
476956	Ea	105.81
477149	Ea	426.00
477150	Ea	416.00
477477	Ea	24.03
477478	Ea	24.03
477479	Ea	24.03
477482	Ea	24.03
477483	Ea	24.03
477484	Ea	24.03
477713	Ea	26.72
477730	Ea	10.62
477888	Ea	93.00
478116	Ea	1,958.83
478164	Ea	110.00
478191	Ea	263.00
478192	Ea	263.00
478237	Ea	10.85
479001	Ea	118.47
479009	Ea	161.55
479010	Ea	362.34
479011	Ea	1,210.77
479015	Ea	74.65
479016	Ea	315.56
479020	Ea	27.70
479022	Ea	142.11
479023	Ea	110.40
479026	Ea	20.44
479027	Ea	145.44
479028	Ea	255.70
479029	Ea	120.82
479032	Ea	188.60
479033	Ea	987.66
479034	Ea	384.17
479065	Ea	496.50
479093	Ea	374.26
479114	Ea	790.61
479265	Ea	276.00
479266	Ea	276.00
479581	Ea	13.00
479586	Ea	2,451.75
479674	Ea	24.00
479676	Ea	15.00
479678	Ea	34.00
479679	Ea	28.00
479853	Ea	49.13
479857	Ea	263.00
480122	Ea	120.25
480127	Ea	122.85
480132	Ea	120.25
480144	Ea	736.60
480156	Ea	736.60
480214	Ea	218.09
480215	Ea	213.87
480216	Ea	224.50
480222	Ea	143.31
480223	Ea	265.14
480224	Ea	265.14
480225	Ea	265.14
480234	Ea	19.51
480247	Ea	569.68
480251	Ea	569.68
480255	Ea	569.68
480259	Pkg	488.59
480263	Pkg	488.59
480267	Pkg	488.59
480326	Box	195.16
480429	Ea	404.62
480566	Ea	513.00
480741	Ea	149.59
480749	Ea	149.59
480757	Ea	149.59
480813	Ea	754.18
481051	Ea	89.68
481059	Ea	301.75

NUMBER		PRICE
481060	Ea	395.06
481071	Ea	109.07
481077	Ea	203.60
481078	Ea	278.73
481079	Ea	340.54
481080	Ea	472.64
481276	Ea	4.77
481317	Ea	263.00
481531	Ea	12.00
481713	Ea	10.85
481742	Pkg	689.21
481782	Ea	1,628.53
481999	Ea	104.10
482000	Ea	120.48
482002	Ea	129.31
482008	Ea	522.91
482009	Ea	522.91
482010	Ea	522.91
482024	Ea	465.79
482025	Ea	465.79
482026	Ea	465.79
482225	Ea	12.02
482226	Ea	14.22
482426	Ea	67.67
482427	Ea	11.21
482428	Ea	21.05
483526	Ea	388.14
483528	Ea	406.67
483819	Ea	507.74
483833	Ea	507.74
483837	Ea	507.74
483851	Ea	507.74
483855	Ea	507.74
483869	Ea	507.74
484055	Ea	356.28
484087	Ea	1,008.11
484089	Ea	999.00
484225	Ea	408.38
484236	Ea	139.36
484333	Ea	15.30
484338	Ea	5.42
484340	Ea	10.85
484342	Ea	262.98
484347	Ea	229.43
484350	Ea	50.25
484353	Ea	1,101.04
484678	Ea	147.38
484685	Ea	3.28
484892	Ea	147.38
484896	Ea	4.77
484897	Ea	86.80
484923	Ea	236.90
485030	Ea	23.00
485103	Ea	136.00
485233	Ea	994.00
485328	Ea	43.28
485329	Ea	306.45
485330	Ea	884.27
485331	Ea	1,009.43
485332	Ea	1,667.95
485364	Ea	10.85
485391	Ea	495.95
485392	Ea	495.95
485446	Ea	11.94
485460	Ea	53.25
485520	Ea	62.27
485574	Ea	4.77
485653	Ea	92.41
485654	Ea	18.49
485800	Ea	258.00
485829	Ea	50.30
486053	Ea	426.56
486159	Ea	16.14
486265	Ea	60.83
486283	Ea	95.91
486289	Ea	25.09
486303	Ea	1,271.47
486328	Ea	355.30
486329	Ea	218.61
486472	Ea	11.07
486476	Ea	23.27
486637	Ea	64.72
486959	Ea	44.13
486960	Ea	44.13
486961	Ea	44.13
486962	Ea	44.13
486963	Ea	44.13
486964	Ea	38.27
486965	Ea	38.27
486966	Ea	38.27
486967	Ea	38.27
486968	Ea	38.28
487108	Ea	38.48
487386	Ea	433.00
487390	Ea	9.79
487399	Ea	38.28
487404	Ea	44.13
487422	Ea	44.45
487423	Ea	72.93
487427	Ea	828.12
487428	Ea	828.12
487482	Ea	36.26
487669	Ea	10.09
487676	Ea	38.28
487677	Ea	44.13
487805	Ea	3.54
487905	Ea	9.29
487906	Ea	1,394.24
487907	Ea	1,472.61
487910	Ea	1,472.61
487995	Ea	77.36
488039	Ea	34.91
488041	Ea	817.68
488114	Ea	7.14
488115	Ea	8.30
488146	Ea	18.01
488148	Ea	10.85
488398	Ea	10.85
488525	Ea	21.97
488609	Ea	120.74
488695	Ea	3.83
488750	Ea	376.35
488771	Ea	259.34
488772	Ea	259.34
488779	Ea	5.96
488782	Ea	42.11
488796	Ea	31.58
488798	Ea	71.18
488799	Ea	32.04
488808	Ea	3.58
488810	Ea	19.89
488812	Ea	70.18
488816	Ea	64.33
488818	Ea	15.52
488833	Ea	37.39
488853	Ea	38.92
488854	Ea	7.16
488855	Ea	7.16
488858	Ea	27.87
488859	Ea	17.15
488860	Ea	7.65
488862	Ea	23.57
488875	Ea	39.45
488885	Ea	946.26
488894	Ea	515.82
488899	Ea	559.10
488914	Ea	615.62
489188	Ea	16.82
489203	Ea	19.04
489219	Ea	3.41
489227	Ea	82.34
489353	Ea	5.16
489355	Ea	18.72
489360	Ea	16.14
489364	Ea	24.03
489368	Ea	24.03
490128	Ea	3.58
490133	Ea	1.50
490143	Ea	988.83
490605	Ea	17.05
490645	Ea	18.26
490656	Ea	14.31
490676	Ea	103.95
490903	Ea	35.09
491028	Ea	262.49
491039	Ea	228.47
491041	Ea	263.00
491046	Ea	14.07
491072	Ea	71.46
491076	Ea	172.94
491125	Ea	2.93
491139	Ea	30.19
491145	Ea	492.92
491146	Ea	492.92
491147	Ea	492.92
491163	Ea	18.00
491500	Box	91.38
491502	Ea	492.92
491505	Ea	492.92
491508	Ea	492.92
491513	Ea	132.09
491514	Ea	164.80
491515	Ea	229.04
491520	Ea	556.49
491521	Ea	556.49
491522	Ea	585.16
491524	Ea	548.45
491528	Ea	548.45
491530	Ea	561.07
491574	Ea	396.04
491870	Ea	35.41
491933	Ea	4.28
492006	Ea	637.47
492089	Ea	21.05
492238	Ea	2.86
492252	Ea	24.11
492302	Ea	81.94
492307	Ea	770.85
492329	Ea	0.48
492331	Ea	3.58
492435	Ea	345.05
492559	Ea	18.01
492566	Ea	12.64
492717	Ea	87.10
492724	Ea	52.86
492737	Ea	110.15
492741	Ea	7.97
492790	Box	137.58
492796	Ea	809.41
492797	Ea	809.41
492827	Ea	48.65
492871	Ea	58.24
492943	Ea	225.75
493020	Ea	492.92
493028	Ea	492.92
493064	Ea	492.92
493072	Ea	492.92
493108	Ea	492.92
493116	Ea	492.92
493158	Ea	315.53
493196	Ea	855.03
493271	Ea	535.84
493423	Ea	556.49
493579	Ea	263.00
493580	Ea	263.00
493581	Ea	139.96
493583	Ea	65.97
493584	Ea	77.64
493622	Ea	296.17
493624	Ea	490.80
493660	Ea	478.75
494015	Ea	549.42
494030	Ea	75.35
494068	Ea	59.00
494261	Ea	107.60
494297	Ea	4.77
494305	Ea	40.22
494352	Ea	3,740.60
494353	Ea	2,861.01
494422	Ea	1,223.92
494445	Ea	44.45
494446	Ea	11.94
494447	Ea	45.61
494450	Ea	263.00

NUMBER		PRICE
494884	Ea	473.66
494928	Ea	13.11
494992	Ea	113.46
495188	Ea	88.95
495189	Ea	88.95
495277	Ea	56.14
495286	Ea	166.09
495287	Ea	26.91
495460	Ea	43.28
495520	Ea	70.67
495522	Ea	184.81
495544	Ea	28.08
495636	Ea	38.58
495660	Ea	472.64
495661	Ea	596.23
495662	Ea	500.56
495670	Ea	432.14
495700	Ea	1,072.18
495701	Ea	1,150.93
495743	Ea	243.26
495762	Ea	44.45
495851	Ea	24.03
495853	Ea	18.01
495854	Ea	18.01
495855	Ea	18.01
495856	Ea	18.01
495858	Ea	18.01
495862	Ea	18.01
495927	Ea	11.94
495928	Ea	4.77
495929	Ea	19.89
496041	Ea	13.13
496075	Ea	24.03
496081	Box	165.70
496268	Ea	11.94
496286	Ea	85.39
496317	Ea	18.72
496386	Ea	40.72
496568	Ea	321.66
496688	Ea	23.00
496689	Ea	31.00
496697	Ea	304.45
496805	Ea	42.14
496836	Ea	244.17
496863	Ea	27.56
496881	Ea	134.60
496883	Ea	28.78
496884	Ea	23.40
497102	Ea	134.50
497125	Ea	190.84
497131	Ea	76.00
497185	Ea	879.15
497197	Ea	1.94
497198	Ea	8.40
497200	Pkg	534.00
497201	Ea	45.33
497234	Ea	58.95
497261	Ea	53.48
497318	Ea	463.20
497319	Ea	805.91
497332	Ea	91.00
497333	Ea	99.00
497334	Ea	101.00
497335	Ea	116.00
497347	Ea	23.00
497432	Ea	19.00
497499	Ea	60.00
497704	Ea	237.45
497706	Ea	308.79
497707	Ea	161.42
497708	Ea	184.81
497709	Ea	123.98
497733	Ea	206.00
502510	Ea	55.60
502516	Ea	44.68
502535	Ea	48.35
505063	Ea	63.98
505149	Ea	74.84
505194	Ea	38.61
505217	Ea	45.23
505230	Ea	71.36
505233	Ea	66.67
505282	Ea	46.99
505298	Ea	54.65
505314	Ea	87.69
505318	Ea	72.46
506216	Ea	427.49
506222	Ea	143.95
506230	Ea	103.15
506232	Ea	405.34
506259	Ea	38.25
506270	Ea	116.78
506272	Ea	401.51
506273	Ea	31.91
506274	Ea	100.44
506275	Ea	100.44
506277	Ea	525.05
506280	Ea	138.88
506281	Ea	433.02
506286	Ea	100.62
506288	Ea	325.94
506308	Ea	52.46
506312	Ea	48.10
506318	Ea	137.82
506325	Ea	105.35
506326	Ea	184.93
506329	Ea	25.80
506334	Ea	81.49
506357	Ea	858.18
506362	Ea	586.52
506384	Ea	673.11
506386	Ea	53.16
506387	Ea	120.92
506388	Ea	281.52
506389	Ea	666.60
506390	Ea	495.98
506391	Ea	31.90
506392	Ea	277.83
506398	Ea	226.18
506400	Ea	441.98
506405	Ea	442.97
506410	Ea	833.38
506414	Ea	862.14
506572	Ea	34.98
506627	Ea	419.07
506632	Ea	24.59
506633	Ea	227.42
506647	Ea	620.02
506649	Ea	14.85
507002	Ea	69.67
507005	Ea	81.11
507006	Ea	105.82
507119	Ea	50.13
507131	Ea	121.34
507143	Ea	102.11
507147	Ea	37.87
507149	Ea	318.96
507151	Ea	142.44
507405	Ea	131.99
600052	Ft	18.00
600351	Ft	14.00
600469	Ea	280.17
600743	Ft	8.00
600920	Ea	52.00
602294	Ft	10.00
602962	Ea	142.00
602976	Ea	150.90
603146	Ft	8.00
603153	Rol	47.83
603278	Ft	17.00
603548	Ea	120.48
603571	Ea	243.81
603580	Ea	58.49
603807	Ft	14.00
604018	Ft	13.00
604070	Ea	150.90
604167	Ft	8.00
625565	Ea	57.67
625638	Ea	49.78
626254	Ea	7.41
626751	Ea	1.20
627306	Ea	2.68
627375	Ea	6.00
627852	Ea	1.20
627904	Ea	1.20
627971	Ea	129.83
627972	Ea	86.55
628082	Ea	2.08
628165	Ea	3.27
628208	Ea	52.85
628232	Ea	118.45
628456	Ea	21.00
628562	Ea	0.37
628635	Ea	18.00
628768	Ea	140.57
628770	Ea	48.23
628817	Ea	17.00
629432	Ea	47.00
629671	Ea	44.47
629672	Ea	40.78
629673	Ea	167.25
629825	Ea	10.00
629828	Ea	16.00
629935	Ea	4.89
629980	Ea	55.15
629981	Ea	24.96
630072	Ea	7.65
630192	Ea	1.20
630305	Ea	58.90
630306	Ea	37.27
630307	Ea	23.33
630310	Ea	20.96
630311	Ea	36.53
630312	Ea	8.73
630313	Ea	12.73
630326	Ea	52.14
630330	Ea	4.77
630380	Ea	50.30
630384	Ea	69.02
630386	Ea	7.22
630387	Ea	43.28
630493	Ea	4.77
630918	Ea	31.58
630926	Ea	6.56
631468	Ea	42.11
631570	Ea	19.00
631604	Ea	3.58
631610	Ea	3.58
631870	Ea	103.92
632040	Ea	17.00
632466	Ea	17.00
632646	Ea	18.00
632655	Ea	23.00
632702	Ea	26.00
632736	Ea	5.80
632907	Ea	14.00
632992	Ea	1.20
633055	Ea	212.93
633092	Ea	6.00
633094	Ea	56.14
633100	Ea	185.98
633273	Ea	58.49
633277	Ea	223.40
633297	Ea	4.62
633352	Ea	1,162.99
633411	Ea	14.63
633413	Ea	44.37
633414	Ea	77.81
633415	Ea	159.08
633416	Ea	57.32
633417	Ea	86.55
633418	Ea	78.37
633419	Ea	83.04
633421	Ea	72.52
633422	Ea	71.35
633424	Ea	67.85
633426	Ea	1,478.46
633539	Ea	39.38
633549	Ea	2.55
633550	Ea	2.19
633553	Ea	2.12
633638	Ea	464.00
633697	Ea	75.00
633702	Ea	4.77

NUMBER		PRICE
633703	Ea	7.16
633776	Ea	4.77
633889	Ea	1.20
633918	Ea	6.00
633954	Ea	0.43
634073	Ea	36.00
634111	Ea	206.87
634181	Ea	10.00
634237	Ea	1.11
634305	Ea	31.00
634417	Ea	24.92
634450	Ea	7.73
634664	Ea	42.11
634665	Ea	7.16
634667	Ea	9.54
634669	Ea	13.13
634670	Ea	7.16
634672	Ea	3.58
634686	Ea	27.93
634687	Ea	6.12
634814	Ea	7.16
634994	Ea	1.23
635032	Ea	4.77
635033	Ea	3.27
635035	Ea	5.47
635036	Ea	5.47
635037	Ea	3.27
635043	Ea	12.00
635068	Ea	4.77
635172	Ea	139.51
635177	Ea	19.89
635240	Ea	1.20
635241	Ea	3.58
635242	Ea	3.58
635243	Ea	1.20
635244	Ea	4.77
635245	Ea	1.20
635277	Ea	2.44
635278	Ea	2.00
635293	Ea	16.00
635311	Ea	3.58
635511	Ea	19.00
635597	Ea	36.26
635632	Ea	32.75
635634	Ea	125.15
635688	Ea	59.66
635796	Ea	5.96
635825	Ea	1.20
635833	Ea	10.00
635848	Ea	60.83
635953	Ea	5.96
635954	Ea	5.96
635957	Ea	127.49
635958	Ea	127.49
635962	Ea	1,410.62
635963	Ea	32.75
635964	Ea	32.75
636060	Ea	139.19
636061	Ea	134.52
636062	Ea	79.54
636063	Ea	42.11
636064	Ea	238.61
636115	Ea	49.16
636159	Ea	15.83
636225	Ea	6.00
636227	Ea	7.00
636243	Ea	48.00
636246	Ea	50.00
636247	Ea	44.00
636267	Ea	6.00
636273	Ea	69.02
636350	Ea	4.00
636418	Ea	14.00
636459	Ea	236.23
636460	Ea	45.75
636466	Ea	91.67
636473	Ea	71.85
636489	Ea	202.38
636495	Ea	0.49
636563	Ea	18.00
636692	Ea	4.28
636757	Ea	0.49
636876	Ea	16.70
636913	Ea	18.00
636955	Ea	0.50
636956	Ea	0.27
637009	Ea	12.00
637070	Ea	0.48
637089	Ea	1.20
637149	Ea	15.00
637166	Ea	0.19
637167	Ea	0.19
637266	Ea	13.00
637276	Ea	69.66
637474	Ea	196.31
637475	Ea	15.45
637484	Ea	1,030.00
637552	Ea	28.36
637830	Ea	6.12
637842	Ea	5.70
637851	Ea	18.51
637852	Ea	51.79
637865	Ea	4.77
637944	Ea	301.77
637945	Ea	116.96
637946	Ea	236.27
638040	Ea	138.02
638149	Ea	412.22
638161	Ea	11.00
638166	Ea	4.77
638167	Ea	3.58
638304	Ea	54.00
638321	Ea	13.13
638463	Ea	12.33
638537	Ea	3.58
655300	Ea	6.00
655301	Ea	6.00
655337	Ea	6.00
655338	Ea	6.00
655484	Ea	8.00
655553	Ea	38.00
695547	Ea	94.22
695946	Ea	175.42
696095	Ea	3.06
696192	Ea	733.24
696193	Ea	806.56
696389	Ea	33.29
696688	Pkg	75.73
696757	Ea	210.30
696758	Ea	210.30
696759	Ea	210.30
697169	Box	225.00
697285	Ea	49.54
697286	Ea	64.79
697287	Ea	502.60
697290	Ea	23.09
697344	Ea	527.00
697382	Ea	36.43
697383	Box	31.62
697410	Ea	23.09
697444	Ea	456.94
697445	Ea	38.44
697446	Ea	38.44
697447	Ea	191.99
697448	Ea	83.10
697453	Ea	3.72
697500	Box	35.06
697514	Ea	4.91
697515	Ea	4.91
697516	Ea	7.88
697517	Ea	7.65
697550	Ea	5.16
710210	Ea	631.00
710269	Ea	656.00
710288	Ea	533.00
710289	Ea	536.00
710301	Ea	21.00
710309	Ea	36.00
710331	Ea	539.00
710332	Ea	512.00
710386	Ea	243.00
710414	Ea	276.00
710465	Ea	135.00
710483	Ea	171.00
710533	Ea	660.00
710566	Ea	660.00
710645	Ea	155.00
710774	Ea	63.00
710776	Ea	660.00
710882	Ea	290.00
710917	Ea	23.00
710948	Ea	362.00
711014	Ea	263.00
711058	Ea	321.00
711060	Ea	216.00
711062	Ea	216.00
711064	Ea	216.00
711066	Ea	475.00
711068	Ea	321.00
711070	Ea	216.00
711072	Ea	475.00
711074	Ea	321.00
711076	Ea	321.00
711078	Ea	475.00
711082	Ea	475.00
711084	Ea	475.00
711088	Ea	511.00
711104	Ea	58.00
711174	Ea	334.00
711175	Ea	368.00
711192	Ea	179.00
711227	Ea	29.00
711228	Ea	222.00
711229	Ea	222.00
711259	Ea	519.00
711260	Ea	897.00
711261	Ea	1,143.00
711306	Ea	408.00
711307	Ea	408.00
711464	Ea	51.00
791923	Ea	5.10
791928	Ea	10.25
791933	Ea	4.11
800023	Ea	21.00
800044	Ea	408.33
800287	Ea	32.26
800332	Ea	195.00
800333	Ea	223.00
800334	Ea	70.00
800335	Ea	57.00
800336	Ea	103.00
800337	Ea	142.00
800359	Ea	37.90
800360	Ea	44.13
800390	Ea	28.94
800391	Ea	498.30
800507	Ea	244.46
800633	Ea	133.19
800685	Ea	4.77
800692	Ea	25.63
800696	Ea	1,618.49
800697	Ea	1,757.58
800706	Ea	1,591.20
800805	Ea	130.81
800972	Ea	230.00
800986	Ea	184.04
801011	Ea	43.30
801012	Ea	1,755.75
801016	Ea	317.50
801035	Ea	19.76
801044	Ea	276.00
801045	Ea	276.00
801046	Ea	276.00
801049	Ea	263.00
801050	Ea	263.00
801051	Ea	263.00
801074	Ea	33.11
801131	Ea	30.41
801152	Ea	58.49
801155	Ea	30.41
801164	Ea	54.97
801173	Ea	893.62
801448	Ea	714.67
801450	Ea	714.67

NUMBER		PRICE
801452	Ea	714.67
801454	Ea	759.12
801542	Ea	590.69
801582	Pkg	80.00
801628	Ea	783.50
801629	Ea	1,423.33
801700	Ea	3.23
801758	Ea	156.64
802190	Ea	280.50
802197	Ea	905.42
802433	Ea	7.36
802670	Ea	659.68
802671	Ea	1,079.61
802672	Ea	1,079.61
802679	Ea	1,079.61
802683	Ea	1,250.37
802687	Ea	1,375.53
802688	Ea	1,456.23
802689	Ea	1,567.36
802690	Ea	1,616.48
802701	Ea	1,007.09
802702	Ea	1,221.13
802703	Ea	1,257.40
802704	Ea	1,290.15
802705	Ea	771.98
802710	Ea	104.57
802811	Ea	264.71
802972	Ea	18.01
802973	Ea	24.03
802975	Ea	24.03
802976	Ea	16.14
803102	Ea	263.00
803110	Ea	2,020.47
803134	Ea	3.58
803196	Ea	280.26
803309	Ea	3.37
803622	Ea	55.75
803719	Ea	537.23
804072	Ea	567.96
804165	Ea	156.73
804185	Ea	335.00
804358	Ea	14.47
804381	Ea	150.90
804382	Ea	112.29
804384	Ea	154.40
804396	Ea	37.32
804397	Ea	39.17
804480	Ea	52.64
804532	Ea	263.00
804607	Ea	57.79
804609	Ea	4.77
804629	Ea	102.70
804638	Ea	140.09
804683	Ea	1.35
804769	Ea	475.00
804770	Ea	475.00
804804	Ea	20.06
804805	Ea	29.18
804806	Ea	2.71
804807	Ea	7.48
804808	Ea	10.07
804809	Ea	53.98
804810	Ea	30.60
804811	Ea	43.31
804812	Ea	3.14
804813	Ea	5.02
804814	Ea	8.70
804819	Ea	11.94
804820	Ea	13.28
804821	Ea	3.20
804822	Ea	5.65
804823	Ea	9.19
804824	Ea	47.59
804825	Ea	2.79
804826	Ea	69.02
804828	Ea	7.36
804829	Ea	51.47
804830	Ea	78.62
804831	Ea	14.68
804832	Ea	11.23
804922	Ea	4.37
805011	Ea	5.18
805015	Ea	98.48
805016	Ea	98.48
805017	Ea	98.48
805018	Ea	36.72
805019	Ea	79.35
805020	Ea	80.71
805029	Ea	1.77
805051	Ea	51.47
805052	Ea	23.39
805067	Ea	1,157.97
805078	Ea	172.63
805103	Ea	36.98
805110	Ea	1.84
805111	Ea	8.03
805114	Ea	16.87
805118	Ea	2.98
805258	Ea	1.84
805259	Ea	171.00
805264	Ea	279.00
805265	Ea	8.74
805331	Ea	793.03
805343	Ea	22.56
805408	Ea	452.50
805414	Ea	452.50
805420	Ea	452.50
805430	Ea	8.74
805574	Ea	188.32
805576	Ea	188.32
805578	Ea	188.32
805580	Ea	188.32
805581	Ea	221.07
805582	Ea	221.07
806211	Ea	51.11
806253	Ea	263.00
806255	Ea	263.00
806409	Ea	28.59
806461	Ea	25.76
806462	Ea	58.79
806463	Ea	59.94
806464	Ea	91.30
806465	Ea	91.30
806466	Ea	71.95
806468	Ea	71.95
806470	Ea	71.95
806482	Ea	335.23
806740	Ea	631.00
807053	Ea	1,402.98
807225	Ea	104.17
807386	Ea	276.00
807387	Ea	276.00
807436	Ea	0.32
807438	Ea	0.67
807441	Ea	48.05
807446	Ea	157.13
807450	Ea	23.27
807458	Ea	422.38
807459	Ea	339.25
807460	Ea	712.51
807463	Ea	517.56
807467	Ea	422.11
807492	Ea	659.68
807543	Ea	5.71
807592	Ea	914.02
807605	Ea	12.96
807607	Ea	13.09
807608	Ea	12.96
807876	Ea	36.78
807880	Ea	37.83
807885	Ea	39.53
807886	Ea	39.53
807887	Ea	39.53
807890	Ea	0.55
808046	Ea	141.40
808053	Ea	55.47
808057	Ea	55.47
808061	Ea	55.47
808071	Ea	62.71
808072	Ea	62.71
808073	Ea	62.71
808074	Ea	62.71
808075	Ea	62.71
808076	Ea	62.71
808247	Ea	85.60
808249	Ea	87.74
808252	Ea	86.43
808253	Ea	85.60
808255	Ea	87.33
808258	Ea	85.60
808259	Ea	85.60
808261	Ea	88.96
808264	Ea	86.43
808358	Ea	29.48
808360	Ea	54.04
808494	Pkg	210.14
808935	Pkg	14.00
808977	Ea	475.00
808978	Ea	268.00
809028	Ea	9.54
809241	Ea	263.00
809242	Ea	263.00
809243	Ea	263.00
809351	Ea	631.00
809874	Ea	3.27
809999	Pkg	11.60
810829	Ea	819.41
811722	Ea	33.00
811940	Ea	37.80
811984	Ea	19.97
812022	Ea	241.59
812144	Ea	475.00
812216	Ea	9.55
812217	Ea	1,170.29
812390	Ea	903.00
812515	Ea	18.74
812516	Ea	18.74
812625	Ea	457.76
812643	Ea	173.58
812849	Ea	10.73
812940	Ea	51.47
812943	Ea	604.72
812958	Ea	531.03
812973	Ea	747.42
812975	Ea	21.05
813001	Ea	28.59
813034	Ea	22.22
813035	Ea	22.22
813103	Ea	2.31
813138	Ea	91.60
813139	Ea	91.60
813140	Ea	91.60
813147	Ea	11.05
813154	Ea	44.89
813208	Ea	492.92
813209	Ea	492.92
813210	Ea	492.92
813211	Ea	492.92
813212	Ea	492.92
813213	Ea	492.92
813216	Ea	35.01
813219	Ea	28.59
813222	Ea	58.00
813341	Ea	15.71
813408	Ea	15.00
813411	Ea	232.00
813514	Ea	257.00
813543	Ea	7.16
813556	Ea	43.28
813713	Ea	19.89
813718	Ea	263.00
813720	Ea	475.00
813832	Box	156.69
813859	Ea	577.76
813860	Ea	577.76
813861	Ea	577.76
814053	Ea	24.03
814065	Ea	11.94
814322	Ea	59.10
814340	Ea	59.47
814341	Ea	59.47
814342	Ea	59.47
814343	Ea	59.47
814344	Ea	59.47

NUMBER		PRICE
814349	Ea	93.00
814350	Ea	93.00
814415	Ea	255.40
814459	Ea	28.08
814497	Ea	93.00
814559	Ea	93.00
814806	Ea	439.37
814866	Ea	631.00
814889	Ea	60.83
814978	Ea	93.00
814979	Ea	93.00
815009	Ea	51.55
815176	Box	122.49
815177	Box	122.49
815178	Box	121.82
815179	Box	121.82
815180	Box	121.82
815181	Box	128.31
815182	Box	132.65
815184	Box	138.55
815185	Box	241.83
815186	Box	131.23
815188	Box	131.23
815307	Ea	93.00
815308	Ea	93.00
815354	Ea	1.43
815355	Pkg	16.70
815356	Pkg	17.05
815357	Pkg	17.05
815358	Pkg	18.44
815359	Pkg	18.44
815361	Pkg	34.17
815362	Pkg	31.57
815363	Pkg	31.53
815364	Pkg	31.57
815365	Pkg	31.54
815366	Pkg	32.12
815368	Pkg	49.50
815369	Pkg	12.52
815392	Pkg	6.48
815394	Pkg	25.35
815397	Box	72.00
815401	Pkg	6.67
815444	Ea	18.97
815448	Ea	18.97
815452	Ea	18.97
815490	Ea	30.00
815530	Ea	22.22
815558	Ea	10.85
815562	Ea	16.14
815565	Ea	18.01
815566	Ea	24.03
815570	Ea	24.03
815604	Ea	104.10
815605	Ea	64.33
815641	Pkg	33.64
815692	Ea	19.56
815696	Ea	19.56
815700	Ea	20.51
815704	Ea	121.00
815794	Ea	16.11
815854	Ea	658.52
815857	Ea	687.76
815869	Ea	658.52
815870	Ea	687.76
815875	Ea	658.52
815876	Ea	687.76
815933	Ea	1.43
815938	Ea	17.42
815939	Pkg	62.11
816137	Ea	136.84
816287	Box	72.00
816357	Box	111.97
816512	Ea	47.30
816513	Ea	62.74
816514	Ea	47.30
816515	Ea	66.19
816516	Ea	47.30
816517	Ea	65.19
816617	Ea	212.88
816618	Ea	71.35
816623	Ea	7.16
816624	Ea	31.58
816627	Ea	23.39
816645	Ea	22.34
816648	Ea	24.40
816651	Ea	131.26
816652	Ea	136.88
816654	Ea	27.83
816661	Box	115.16
816662	Pkg	25.51
816670	Ea	74.85
816671	Ea	9.03
816803	Ea	0.42
816970	Ea	1,361.49
816973	Ea	1,446.88
816974	Ea	1,648.07
816997	Ea	135.68
816999	Ea	25.73
817000	Ea	19.89
817040	Ea	61.84
817083	Ea	485.49
817092	Ea	233.94
817153	Ea	107.60
817164	Ea	43.28
817262	Ea	58.49
817263	Ea	49.13
817313	Ea	466.58
817394	Ea	70.18
817590	Box	462.31
817591	Ea	550.69
818107	Ea	10.73
818108	Ea	238.99
818110	Ea	208.64
818157	Ea	226.93
818158	Ea	307.55
818160	Ea	3.27
818264	Box	527.32
818267	Ea	13.67
818342	Pkg	10.54
818343	Pkg	13.80
818344	Pkg	13.80
818346	Pkg	9.90
818347	Pkg	11.67
818354	Pkg	9.04
818355	Pkg	10.60
818384	Ea	40.27
818385	Ea	40.27
818386	Ea	40.27
818387	Ea	40.27
818388	Ea	40.27
818389	Ea	40.27
818390	Ea	40.27
818391	Ea	40.27
818392	Ea	40.27
818393	Ea	40.27
818394	Ea	40.27
818395	Ea	40.27
818396	Ea	40.27
818397	Ea	40.27
818398	Ea	40.27
818399	Ea	40.27
818400	Ea	40.27
818401	Ea	40.27
818402	Ea	40.27
818403	Ea	40.27
818404	Ea	40.27
818405	Ea	40.27
818406	Ea	40.27
818407	Ea	40.27
818408	Ea	40.27
818409	Ea	40.27
818410	Ea	40.27
818411	Ea	40.27
818412	Ea	40.27
818413	Ea	40.27
818414	Ea	40.27
994965	Ea	1.55
995975	Ea	1.20
996388	Ea	32.00
1001007	Ea	0.27
1051006	Ea	24.44
1071077	Ea	6.81
10001422	Ea	51.06
10001602	Ea	147.41
10001609	Ea	60.31
10001621	Ea	49.17
10001915	Ea	33.16
10002051	Ea	102.96
10002052	Ea	116.67
10002053	Ea	100.98
10002056	Ea	109.15
10002083	Ea	335.08
10002084	Ea	335.08
10002182	Ea	75.41
10002183	Ea	67.77
10002310	Ea	188.63
10002658	Ea	65.41
10002820	Ea	68.86
10003122	Ea	72.39
10003206	Ea	287.99
10003213	Ea	53.00
10003360	Ea	15.72
10003605	Ea	17.55
10003606	Ea	4.77
10003609	Ea	65.50
10003610	Ea	258.50
10003611	Ea	258.50
10004650	Ea	162.59
10004651	Ea	187.15
10004689	Ea	25.19
10004692	Ea	25.19
10004694	Ea	27.37
10004723	Ea	69.02
10004857	Ea	128.66
10005061	Ea	700.62
10005062	Ea	554.42
10005410	Ea	57.14
10005782	Ea	9.95
10005783	Ea	16.70
10005950	Ea	9.54
10005952	Ea	1.20
10006006	Ea	222.23
10006007	Ea	222.23
10006227	Ea	57.11
10006692	Ea	195.34
10006823	Ea	88.25
10006824	Ea	88.25
10006825	Ea	88.25
10007047	Ea	281.00
10007049	Ea	475.00
10007388	Ea	8.09
10007421	Ea	5.23
10007442	Ea	45.00
10007979	Ea	8.30
10007991	Ea	11.50
10007994	Ea	8.30
10007996	Ea	8.30
10007997	Ea	32.77
10008174	Box	448.88
10008175	Ea	10.38
10008179	Ea	10.33
10008189	Ea	47.39
10008191	Ea	52.49
10008292	Ea	771.36
10008293	Ea	898.54
10008294	Ea	119.31
10008295	Ea	123.01
10008297	Ea	218.78
10008492	Ea	73.83
10008587	Ea	33.19
10008906	Ea	58.79
10008907	Ea	58.79
10008908	Ea	86.94
10008909	Ea	86.94
10009399	Ea	74.59
10009971	Ea	50.22
10010162	Ea	263.00
10010420	Box	214.63
10010421	Box	1,681.73
10010704	Ea	46.00
10010946	Ea	10.78
10011302	Ea	71.35
10011502	Ea	198.66

NUMBER		PRICE
10011503	Ea	385.80
10011633	Ea	335.08
10011634	Ea	335.08
10011767	Ea	147.38
10012108	Ea	6.00
10012167	Ea	83.04
10012413	Ea	48.08
10012530	Ea	77.36
10012748	Ea	9.54
10012749	Ea	9.54
10012847	Ea	14.98
10012994	Ea	977.84
10012995	Ea	802.39
10012996	Ea	766.13
10013077	Ea	35.00
10013150	Ea	611.49
10013151	Ea	695.22
10013393	Pkg	33.29
10013407	Ea	368.08
10014273	Ea	1,411.00
10014635	Ea	1.20
10014666	Ea	1.20
10014878	Ea	1.20
10015074	Ea	84.05
10015841	Ea	429.88
10016029	Ea	8.36
10016092	Ea	466.70
10016093	Ea	466.70
10016468	Ea	66.13
10016754	Ea	1.44
10016755	Ea	506.39
10016756	Ea	506.39
10016757	Ea	506.39
10016758	Ea	506.39
10016759	Ea	506.39
10016770	Ea	506.39
10016798	Ea	393.00
10017089	Ea	1,286.66
10017571	Ea	28.43
10017593	Ea	71.45
10018118	Ea	188.00
10018221	Ea	8.36
10018222	Ea	8.36
10018496	Ea	1.20
10018540	Ea	99.08
10018546	Ea	7.16
10018547	Ea	3.72
10018621	Ea	18.04
10018622	Ea	13.67
10018774	Ea	7.16
10018830	Ea	23.50
10018965	Ea	3.58
10018966	Ea	31.58
10018971	Ea	31.58
10019548	Ea	24.03
10019549	Ea	16.14
10020382	Ea	614.07
10020515	Ea	100.19
10020541	Ea	330.00
10020545	Ea	447.00
10020779	Ea	257.33
10020781	Ea	73.69
10020782	Ea	278.31
10020784	Ea	3.58
10020871	Pkg	16.54
10020931	Ea	11.94
10020995	Ea	4.95
10021288	Ea	98.48
10021292	Ea	24.03
10021584	Ea	318.83
10021585	Ea	763.46
10021925	Ea	124.00
10021927	Ea	211.00
10022021	Ea	56.43
10022052	Ea	146.75
10022055	Ea	0.73
10022087	Box	16.31
10022094	Ea	187.00
10022100	Ea	21.00
10022105	Ea	14.00
10022245	Ea	30.41
10022331	Ea	14.00
10022765	Ea	797.00
10022871	Box	30.54
10022921	Ea	6.00
10022922	Ea	6.00
10022923	Ea	6.00
10022927	Pkg	85.00
10022928	Pkg	64.33
10022929	Ea	65.50
10022990	Ea	70.14
10022991	Ea	43.28
10023055	Ea	382.75
10023056	Ea	709.33
10023431	Ea	13.00
10023480	Ea	124.96
10023481	Ea	338.89
10023482	Ea	295.00
10023483	Ea	194.54
10023485	Ea	167.67
10023487	Ea	143.34
10023490	Ea	63.39
10023505	Ea	26.21
10023509	Ea	4.77
10023569	Ea	1,044.09
10023857	Ea	1,044.09
10023858	Ea	1,044.09
10023859	Ea	1,044.09
10023880	Ea	1,044.09
10023881	Ea	1,106.96
10023882	Ea	1,044.09
10023883	Ea	1,044.09
10023885	Ea	1,054.34
10023886	Ea	1,054.34
10023887	Ea	1,128.37
10024074	Ea	1,060.50
10024076	Ea	223.21
10024077	Ea	147.00
10024111	Ea	31.58
10024112	Ea	31.58
10024410	Ea	564.94
10024411	Ea	658.52
10024415	Ea	687.76
10024420	Ea	564.94
10024421	Ea	658.52
10024425	Ea	687.76
10024430	Ea	564.94
10024431	Ea	658.52
10024435	Ea	687.76
10024832	Ea	10.85
10024836	Ea	10.85
10025081	Ea	25.00
10025120	Ea	1,534.61
10025121	Ea	1,126.39
10025227	Ea	42.40
10025258	Ea	43.79
10025259	Ea	43.79
10025280	Ea	43.79
10025281	Ea	47.31
10025282	Ea	85.98
10025283	Ea	1.82
10025287	Ea	0.59
10025289	Ea	15.06
10025291	Ea	4.35
10025292	Ea	6.48
10025296	Ea	7.33
10025297	Ea	8.61
10025381	Ea	1.19
10025461	Ea	42.11
10025550	Ea	26.00
10025551	Ea	7.00
10025647	Ea	521.67
10025664	Ea	39.00
10025942	Ea	215.22
10025945	Ea	855.51
10026005	Ea	10.43
10026061	Ea	645.34
10026064	Ea	718.63
10026139	Ea	25.73
10026233	Ea	913.51
10026234	Ea	961.46
10026265	Ea	1,203.58
10026268	Ea	405.00
10026300	Ea	125.00
10026396	Ea	24.97
10026434	Ea	100.59
10026540	Ea	1,307.52
10026547	Ea	81.88
10026548	Ea	224.58
10026562	Ea	0.58
10026668	Ea	59.66
10026763	Ea	18.30
10026809	Ea	14.08
10026848	Ea	23.39
10026887	Ea	4.77
10026939	Ea	18.01
10027085	Ea	58.49
10027174	Ea	25.96
10027774	Ea	3.08
10027944	Ea	3.88
10028132	Ea	73.11
10028302	Ea	3.08
10028398	Ea	26.66
10028400	Ea	6.89
10028401	Ea	77.50
10028402	Ea	77.50
10028444	Ea	15.59
10028600	Ea	42.11
10028834	Ea	34.14
10028896	Ea	13.13
10028995	Ea	213.28
10028996	Ea	213.19
10028997	Ea	213.19
10028998	Ea	242.35
10028999	Ea	242.35
10029000	Ea	242.35
10029067	Ea	1.20
10029068	Ea	1.20
10029137	Ea	7.00
10029298	Ea	125.88
10029299	Ea	31.34
10029406	Ea	0.65
10029693	Ea	18.31
10029700	Ea	51.25
10030025	Ea	2,289.49
10030080	Ea	189.04
10030084	Ea	106.44
10030379	Ea	293.44
10030380	Ea	345.57
10030507	Bag	32.36
10030608	Ea	205.48
10030617	Ea	55.55
10030663	Ea	84.58
10030785	Ea	37.36
10030786	Ea	88.02
10030787	Bag	16.48
10030788	Pkg	16.48
10030789	Pkg	27.68
10030790	Ea	41.68
10030791	Ea	62.36
10030792	Ea	35.15
10030793	Ea	35.15
10030794	Ea	51.64
10030795	Bag	16.81
10030796	Bag	6.48
10030797	Bag	5.49
10030798	Ea	61.59
10030910	Ea	50.00
10031102	Ea	135.68
10031105	Ea	21.05
10031160	Ea	429.26
10031192	Ea	13.13
10031262	Ea	150.90
10031263	Ea	28.08
10031264	Ea	84.21
10031265	Ea	209.37
10031309	Ea	213.19
10031340	Ea	213.19
10031341	Ea	213.19
10031342	Ea	242.35
10031343	Ea	242.35
10031344	Ea	242.35
10031348	Ea	40.27
10031542	Box	55.05

NUMBER	PRICE
10031797	Ea 773.15
10032091	Ea 43.36
10032109	Set 40.00
10032434	Ea 65.50
10032438	Ea 611.74
10032439	Ea 342.71
10032511	Ea 311.14
10032512	Ea 4.77
10032882	Ea 95.70
10032925	Ea 1,548.65
10032927	Ea 340.38
10032928	Ea 250.31
10032929	Ea 32.75
10033112	Ea 1,126.39
10033113	Ea 1,534.61
10033115	Ea 30.41
10033116	Ea 694.79
10033117	Ea 679.57
10033118	Ea 805.91
10033119	Ea 805.91
10033170	Ea 782.50
10033171	Ea 805.91
10033172	Ea 805.91
10033173	Ea 805.91
10033174	Ea 192.00
10033175	Ea 140.36
10033176	Ea 140.36
10033177	Ea 131.01
10033208	Ea 3.58
10033277	Ea 1,642.21
10033278	Ea 2,590.81
10033279	Ea 2,770.95
10033314	Ea 301.77
10033360	Ea 2,482.25
10033650	Ea 6.00
10033651	Ea 6.00
10033652	Ea 6.00
10033653	Ea 6.00
10033654	Ea 6.00
10033655	Ea 6.00
10033718	Ea 9.32
10033719	Ea 9.32
10033740	Ea 9.32
10034018	Ea 20.15
10034019	Ea 20.15
10034020	Ea 20.15
10034021	Ea 20.15
10034022	Ea 20.15
10034023	Ea 20.15
10034026	Ea 20.15
10034027	Ea 23.19
10034028	Ea 23.19
10034029	Ea 23.19
10034031	Ea 23.19
10034032	Ea 23.19
10034033	Ea 23.19
10034035	Ea 23.19
10034088	Ea 20.15
10034090	Ea 20.15
10034097	Ea 23.19
10034098	Ea 23.19
10034099	Ea 23.19
10034103	Ea 23.19
10034150	Ea 952.50
10034151	Ea 952.50
10034152	Ea 1,014.15
10034153	Ea 952.50
10034154	Ea 952.50
10034184	Ea 130.77
10034263	Ea 18.37
10034391	Ea 569.00
10034487	Ea 55.20
10034500	Ea 9.54
10034603	Ea 918.18
10034606	Ea 918.18
10034609	Ea 918.18
10034617	Ea 335.79
10034748	Ea 1.20
10035212	Ea 20.15
10035213	Ea 23.19
10035310	Ea 123.85
10035390	Ea 3.19
10035663	Ea 105.27
10035665	Ea 8.36
10035682	Ea 658.52
10035683	Ea 658.52
10035684	Ea 658.52
10035685	Ea 658.52
10035686	Ea 658.52
10035687	Ea 658.52
10035698	Ea 191.44
10036028	Ea 66.63
10036291	Ea 107.60
10036292	Ea 107.60
10036456	Ea 21.72
10036995	Ea 630.45
10036996	Ea 653.85
10036997	Ea 630.45
10036998	Ea 667.87
10037095	Ea 1,393.10
10037101	Ea 148.51
10037238	Pkg 22.72
10037253	Ea 80.71
10037254	Ea 38.60
10037255	Ea 78.37
10037256	Ea 25.73
10037257	Ea 107.60
10037258	Ea 25.73
10037259	Ea 107.60
10037271	Ea 10.73
10037310	Ea 1,381.83
10037312	Ea 1,324.97
10037315	Ea 81.79
10037380	Ea 18.72
10037381	Ea 3.58
10037385	Ea 25.73
10037386	Ea 24.56
10037476	Ea 73.00
10037533	Ea 109.74
10037648	Ea 543.86
10037649	Ea 538.12
10037650	Ea 543.86
10037651	Ea 562.22
10037652	Ea 543.86
10037653	Ea 556.49
10037654	Ea 79.82
10037655	Ea 91.08
10037656	Ea 788.36
10037668	Ea 66.66
10037669	Ea 160.24
10037780	Ea 657.35
10037781	Ea 657.35
10037783	Ea 647.40
10037790	Ea 21.05
10037791	Ea 45.61
10037900	Ea 14.31
10037901	Ea 14.31
10037951	Ea 1.20
10037952	Ea 3.58
10037953	Ea 14.31
10037954	Ea 162.59
10038031	Ea 38.60
10038063	Ea 21.00
10038107	Ea 552.08
10038412	Ea 131.88
10038417	Ea 154.40
10038542	Ea 76.12
10038601	Ea 4.77
10038664	Ea 41.84
10038665	Ea 1,098.02
10038666	Ea 1,500.60
10038845	Ea 7.51
10038846	Ea 7.43
10038948	Ea 14.07
10038970	Ea 62.69
10038975	Ea 7.25
10039038	Ea 8.38
10039039	Ea 3.55
10039100	Ea 1.01
10039101	Ea 1.11
10039102	Ea 1.01
10039104	Ea 1.11
10039105	Ea 1.01
10039106	Ea 11.20
10039109	Ea 23.70
10039114	Ea 23.09
10039171	Ea 132.17
10039172	Ea 64.33
10039398	Ea 670.59
10039447	Ea 0.70
10039515	Ea 147.26
10039516	Ea 35.52
10039571	Ea 8.00
10039603	Ea 114.14
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10039973	Ea 32.45
10039982	Ea 543.86
10039983	Ea 596.65
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10040003	Ea 9.24
10040004	Ea 52.61
10040005	Ea 21.63
10040010	Ea 271.98
10040018	Ea 18.39
10040052	Ea 311.14
10040054	Ea 1,494.84
10040055	Ea 384.83
10040094	Ea 649.16
10040101	Ea 642.15
10040108	Ea 660.87
10040161	Ea 14.07
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10040223	Ea 582.12
10040226	Ea 66.78
10040239	Ea 217.35
10040421	Ea 38.60
10040422	Ea 38.60
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10040451	Ea 4.77
10040573	Ea 818.00
10040586	Ea 139.00
10040589	Ea 161.00
10040662	Ea 172.00
10040663	Ea 182.00
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10040666	Ea 170.00
10040667	Ea 165.00
10040783	Ea 482.00
10040791	Ea 263.00
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10040891	Ea 26.83
10040892	Ea 22.10
10040954	Ea 4.77
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10041065	Ea 501.78
10041066	Ea 501.78
10041069	Ea 208.76
10041090	Ea 234.98
10041107	Ea 39.00
10041195	Ea 7,737.36
10041196	Ea 6,196.90
10041197	Ea 4,704.40
10041198	Ea 4,704.40
10041199	Ea 7,737.36
10041225	Ea 211.00
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10041231	Ea 4,704.40
10041232	Ea 4,704.40
10041331	Ea 250.31
10041519	Ea 161.94
10041591	Ea 178.05
10041593	Ea 182.18
10041595	Ea 176.23
10041596	Ea 191.70
10041599	Ea 222.84
10041600	Ea 222.66
10041603	Ea 233.38
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10041610	Ea 196.47
10041611	Ea 257.19
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10041992	Ea	293.87
10041993	Ea	316.08
10041994	Ea	720.33
10042305	Ea	446.69
10042346	Box	503.41
10042391	Ea	658.04
10042513	Ea	397.69
10042565	Ea	1,409.46
10042621	Ea	299.00
10042622	Ea	297.00
10042690	Ea	74.24
10042792	Ea	10.61
10042793	Ea	7.65
10042794	Ea	10.61
10042795	Ea	7.61
10042824	Ea	991.87
10042902	Ea	1,159.12
10042903	Ea	1,051.08
10042905	Ea	1,124.44
10042922	Ea	1,124.44
10042923	Ea	1,320.74
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10042933	Ea	1,336.27
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10043147	Ea	47.90
10043410	Ea	86.55
10043411	Ea	106.44
10043413	Ea	565.66
10043414	Ea	596.65
10043415	Ea	596.65
10043416	Ea	672.37
10043417	Ea	565.66
10043418	Ea	596.65
10043419	Ea	596.65
10043427	Ea	1,355.72
10043430	Ea	672.37
10043431	Ea	565.66
10043432	Ea	596.65
10043433	Ea	596.65
10043434	Ea	672.37
10043549	Ea	632.79
10043943	Ea	7.16
10043945	Ea	53.80
10043947	Ea	1,145.11
10043949	Ea	1,279.43
10044026	Ea	82.99
10044241	Ea	50.25
10044300	Ea	13.95
10044301	Ea	1.20
10044574	Ea	28.08
10044576	Ea	237.05
10044927	Ea	14.00
10044995	Ea	57.00
10045005	Ea	5.88
10045035	Ea	475.00
10045160	Ea	2,858.92
10045161	Ea	2,965.73
10045162	Ea	2,858.92
10045163	Ea	2,965.73
10045164	Ea	3,052.91
10045165	Ea	3,159.71
10045166	Ea	3,052.91
10045167	Ea	3,159.71
10045593	Ea	242.12
10045662	Ea	1,037.66
10045664	Ea	1,032.72
10045691	Ea	928.87
10045692	Ea	1,110.59
10045693	Ea	1,110.59
10045699	Ea	983.44
10045700	Ea	1,110.59
10045708	Ea	912.09
10045710	Ea	912.09
10045713	Ea	912.09
10045716	Ea	1,110.59
10045719	Ea	1,052.36
10045727	Ea	822.20
10045728	Ea	1,110.59
10045778	Ea	20.27
10045831	Ea	32.75
10046087	Ea	273.59
10046120	Ea	152.26
10046123	Ea	135.67
10046177	Ea	37.04
10046182	Ea	55.00
10046202	Ea	25.00
10046379	Ea	2.84
10046381	Ea	2.84
10046483	Ea	161.42
10046484	Ea	394.18
10046527	Ea	143.00
10046570	Ea	91.19
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10046614	Ea	9.46
10046633	Ea	33.92
10046712	Ea	57.41
10046721	Ea	43.33
10046722	Ea	66.98
10046842	Ea	257.33
10046843	Ea	71.35
10046846	Ea	1,368.52
10046847	Ea	1,368.52
10046946	Ea	301.00
10047085	Ea	174.68
10047238	Ea	31.58
10047320	Set	340.04
10047331	Ea	31.58
10047342	Ea	59.00
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10047349	Ea	154.00
10047370	Ea	137.00
10047371	Ea	29.00
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10047433	Ea	395.76
10047434	Ea	384.84
10047436	Ea	384.84
10047438	Ea	384.84
10047441	Ea	25.73
10047469	Ea	74.00
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10047527	Ea	19.39
10047528	Ea	15.28
10047529	Ea	1,549.81
10047534	Ea	1,387.22
10047535	Ea	1,387.22
10047536	Ea	988.37
10047537	Ea	988.37
10047545	Ea	658.52
10047546	Ea	658.52
10047547	Ea	658.52
10047548	Ea	658.52
10047549	Ea	658.52
10047573	Ea	4,932.27
10047594	Ea	729.00
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10047602	Ea	1,135.74
10047664	Ea	22.22
10047742	Ea	7.16
10047748	Ea	13.95
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10047994	Ea	642.15
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10048631	Ea	8.36
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10048789	Ea	321.00
10048790	Ea	321.00
10048813	Ea	189.48
10048814	Ea	189.48
10048815	Ea	189.48
10048888	Ea	321.00
10048889	Ea	475.00
10048890	Ea	475.00
10048942	Ea	211.55
10048981	Ea	321.00
10049053	Ea	125.00
10049056	Ea	321.00
10049057	Ea	191.00
10049058	Ea	174.00
10049059	Ea	106.00
10049060	Ea	95.00
10049406	Ea	958.00
10049410	Ea	200.00
10049412	Ea	463.00
10049442	Ea	5.00
10049522	Ea	164.37
10049623	Ea	115.95
10049630	Ea	158.46
10049631	Ea	157.71
10049680	Ea	66.00
10049713	Ea	6.00
10049734	Ea	85.54
10049738	Ea	60.08
10049739	Ea	61.00
10049751	Ea	486.96
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10049806	Ea	258.00
10049831	Ea	13.92
10049832	Ea	49.50
10049833	Ea	97.97
10049954	Ea	115.34
10049979	Ea	788.36
10049980	Ea	788.36
10050031	Ea	694.79
10050032	Ea	805.91
10050033	Ea	788.36
10050034	Ea	805.91
10050035	Ea	25.73
10050036	Ea	1,126.39
10050039	Ea	1,126.39
10050146	Ea	8.36
10050147	Ea	439.79
10050148	Ea	439.79
10050149	Ea	455.01
10050150	Ea	455.01
10050151	Ea	439.79
10050152	Ea	439.79
10050153	Ea	455.01
10050154	Ea	455.01
10050211	Ea	21.05
10050221	Ea	61.00
10050347	Ea	764.00
10050360	Ea	805.91
10050361	Ea	805.91
10050363	Ea	30.28
10050366	Ea	4.92
10050375	Ea	13,718.67
10050376	Ea	9,603.09
10050431	Ea	30.00
10050492	Ea	805.91
10050493	Ea	694.79
10050611	Ea	41.46
10050613	Ea	41.46
10050615	Ea	416.40
10050616	Ea	90.07
10050617	Ea	86.55
10050620	Ea	19.89
10050621	Ea	18.72
10050622	Ea	3.58
10050623	Ea	40.94
10050744	Ea	439.00
10050750	Ea	46.00
10050843	Ea	73.00
10050917	Ea	1.20
10050918	Ea	4.77
10050919	Ea	4.77
10050976	Ea	110.00
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10051189	Ea	11.00
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NUMBER		PRICE
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10051287	Ea	700.66
10051288	Ea	700.66
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10051290	Ea	1,735.17
10051441	Ea	15.09
10051473	Ea	11.00
10051539	Ea	547.00
10051608	Ft	6.00
10051663	Ea	1.20
10051664	Ea	25.73
10051745	Ea	79.42
10051882	Ea	94.74
10051883	Ea	257.33
10051884	Ea	467.87
10051885	Ea	59.66
10051920	Ea	2,198.91
10051979	Ea	17.00
10051990	Ea	370.51
10052319	Ea	901.81
10052355	Ea	10.00
10052364	Ea	4.77
10052365	Ea	8.36
10052367	Ea	4.77
10052513	Ea	625.00
10052515	Ea	670.00
10052519	Ea	102.34
10052541	Ea	189.53
10052621	Ea	5.96
10052622	Ea	1.20
10052744	Ea	572.82
10052745	Ea	566.81
10052776	Ea	495.60
10052777	Ea	580.47
10052778	Ea	495.60
10052779	Ea	580.47
10052780	Ea	580.47
10052781	Ea	495.60
10052817	Ea	108.77
10052818	Ea	403.54
10052819	Ea	683.09
10052896	Ea	16.83
10052925	Ea	278.69
10052928	Ea	278.69
10052929	Ea	278.69
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10052995	Ea	316.72
10053064	Ea	140.36
10053229	Ea	31.58
10053257	Ft	10.00
10053273	Ea	1.20
10053294	Ea	189.00
10053331	Ea	301.77
10053426	Ea	99.42
10053550	Ea	2,598.86
10053612	Ea	2,932.03
10053716	Ea	1,320.74
10053736	Ea	790.69
10053794	Ea	95.00
10053795	Ea	86.00
10053887	Box	1.13
10053992	Ea	45.85
10054233	Ea	494.76
10054294	Ea	374.29
10054295	Ea	485.42
10054402	Ea	364.35
10054403	Ea	398.88
10054428	Ea	6.15
10054442	Ea	185.30
10054586	Ea	123.00
10054720	Ea	382.21
10054725	Ea	6.35
10054739	Ea	194.62
10054790	Ea	896.79
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10054792	Ea	947.40
10054793	Ea	947.40
10054794	Ea	896.79
10054795	Ea	896.79
10054796	Ea	947.40
10054797	Ea	947.40
10054998	Ea	272.41
10055000	Ea	502.03
10055349	Ea	22.22
10055350	Ea	141.53
10055481	Ea	206.74
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10055519	Ea	199.00
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10055648	Ea	16.99
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10055892	Ea	24.23
10055893	Ea	21.25
10055894	Ea	12.69
10056248	Ea	6,481.48
10056424	Ea	55.69
10056487	Ea	10.15
10056585	Ea	35.09
10056739	Ea	106.47
10056762	Ea	99.28
10056763	Ea	156.64
10057002	Ea	12,500.00
10057211	Ea	413.17
10057382	Ea	1,032.79
10057383	Ea	1,085.19
10057385	Ea	1,032.79
10057386	Ea	1,032.79
10057387	Ea	1,032.79
10057388	Ea	1,029.36
10057389	Ea	1,029.36
10057419	Ea	11.41
10057420	Ea	11.41
10057421	Ea	11.41
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10057437	Ea	11.41
10057441	Ea	11.41
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10057797	Ea	186.00
10058021	Ea	475.00
10058022	Ea	355.00
10058023	Ea	317.00
10058034	Ea	475.00
10058036	Ea	321.00
10058037	Ea	106.00
10058088	Ea	1,320.74
10058171	Ea	475.00
10058172	Ea	321.00
10058178	Ea	185.00
10058179	Ea	186.00
10058228	Ea	1,000.00
10058236	Ea	5.96
10058265	Ea	43.24
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10058320	Ea	16.71
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10058539	Ea	605.88
10058545	Ea	107.60
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10058625	Ea	34.78
10058626	Ea	34.78
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10058630	Ea	34.78
10058632	Ea	34.78
10058633	Ea	34.78
10058634	Ea	34.78
10058780	Ea	1.20
10059057	Ea	62.00
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10059116	Ea	38.00
10059535	Ea	43.95
10059671	Ea	8.02
10059713	Ea	6.69
10059814	Ea	55.50
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10059916	Ea	617.58
10059917	Ea	617.58
10059918	Ea	617.58
10059919	Ea	617.58
10059920	Ea	617.58
10059921	Ea	617.58
10060555	Ea	77.85
10060571	Ea	3.58
10061058	Ea	114.00
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10061085	Ea	44.00
10061086	Ea	51.00
10061123	Ea	9.80
10061127	Ea	9.80
10061128	Ea	12.44
10061147	Ea	0.36
10061149	Ea	3.46
10061215	Ea	7.00
10061216	Ea	59.00
10061219	Ea	60.00
10061229	Ea	41.94
10061230	Ea	23.44
10061244	Ea	1,110.59
10061251	Ea	13.00
10061252	Ea	13.00
10061271	Ea	51.69
10061272	Ea	30.99
10061273	Ea	15.72
10061285	Ea	492.39
10061291	Ea	17.03
10061292	Ea	17.03
10061294	Ea	27.00
10061326	Ea	128.00
10061327	Ea	230.00
10061350	Ea	94.74
10061353	Ea	57.32
10061354	Ea	160.24
10061361	Ea	565.45
10061362	Ea	549.75
10061363	Ea	587.17
10061372	Ea	2.38
10061373	Ea	3.58
10061374	Ea	1.20
10061448	Ea	1,628.53
10061449	Ea	2,490.43
10061450	Ea	2,490.43
10061482	Ea	1,958.83
10061512	Ea	18.01
10061513	Ea	24.03
10061514	Ea	11.41
10061515	Ea	24.03
10061516	Ea	16.71
10061535	Ea	26.39
10061537	Ea	17.03
10061542	Ea	347.38
10061545	Ea	13.95
10061546	Ea	8.36
10061564	Ea	5.24
10061567	Ea	4.21
10061586	Ea	1,458.25
10061630	Ea	1,110.59
10061631	Ea	79.54
10061632	Ea	77.71
10061714	Ea	533.37
10061812	Ea	3,610.00
10061973	Ea	40.36
10061974	Ea	2.76

NUMBER		PRICE
10061976	Ea	2.42
10061978	Ea	45.61
10061994	Ea	4.77
10061995	Ea	6.32
10061996	Ea	2.34
10061997	Ea	7.16
10061998	Ea	4.77
10062086	Ea	36.26
10062087	Ea	36.26
10062088	Ea	53.15
10062089	Ea	47.96
10062123	Ea	19.00
10062158	Ea	85.00
10062184	Ea	62.69
10062273	Ea	354.00
10062274	Ea	1,204.00
10062285	Ea	4,930.00
10062301	Ea	51.00
10062309	Ea	4.77
10062363	Ea	65.00
10062364	Ea	72.00
10062365	Ea	101.00
10062366	Ea	154.00
10062471	Ea	425.08
10062597	Ea	32.44
10062602	Ea	43.41
10062638	Ea	31.00
10062655	Ea	34.71
10062656	Ea	34.71
10062930	Ea	56.00
10062973	Ea	280.58
10062974	Ea	280.58
10063412	Ea	386.99
10063431	Ea	49.02
10063441	Ea	17.85
10063455	Ea	93.18
10063598	Ea	9.58
10063880	Ea	35.09
10063932	Ea	1,614.14
10063933	Ea	1,614.14
10064117	Ea	181.42
10064120	Ea	431.18
10064531	Pkg	77.00
10064623	Ea	1,124.44
10064644	Ea	454.95
10064645	Ea	514.88
10065043	Ea	791.87
10065301	Ea	3.18
10065302	Ea	1.20
10065303	Ea	1.81
10065306	Ea	39.51
10065323	Ea	373.01
10065326	Ea	266.55
10065328	Ea	77.65
10065329	Ea	109.16
10065330	Ea	77.65
10065332	Ea	55.14
10065336	Ea	35.09
10065406	Ea	2,266.81
10065408	Ea	91.23
10065573	Ea	115.00
10065716	Ea	127.00
10065805	Ea	3.58
10065847	Ea	14.35
10065849	Ea	5.48
10065850	Ea	3.77
10065952	Ea	88.50
10065968	Ea	46.33
10066386	Ea	1,615.00
10066611	Ea	114.63
10066739	Ea	807.01
10066740	Ea	894.98
10066867	Ea	14.31
10066869	Ea	13.26
10067102	Ea	13.00
10067164	Ea	2,708.96
10067165	Ea	2,708.96
10067166	Ea	2,708.96
10067167	Ea	2,708.96
10067168	Ea	2,708.96
10067169	Ea	2,708.96
10067395	Ea	30.77
10067469	Ea	124.01
10067470	Ea	124.01
10067491	Ea	121.49
10067565	Ea	924.00
10067705	Ea	52.00
10067706	Ea	60.00
10068059	Ea	350.00
10068129	Ea	246.45
10068152	Ea	39.42
10068195	Ea	81.38
10068196	Ea	3.23
10068237	Ea	2,153.38
10068238	Ea	1.20
10068301	Pkg	167.20
10068302	Ea	69.20
10068426	Ea	65.42
10068636	Ea	8.37
10068637	Ea	8.37
10068638	Ea	8.37
10068639	Ea	8.37
10068655	Ea	329.00
10068686	Ea	16.00
10068694	Ea	18.00
10068695	Ea	18.00
10068696	Ea	18.00
10068832	Ea	14.35
10068911	Ea	8.24
10068952	Ea	459.00
10069126	Ea	17.00
10069348	Ea	42.40
10069386	Ea	147.38
10069498	Ea	737.00
10069693	Ea	79.78
10069792	Ea	568.79
10069856	Ea	1,300.00
10069857	Ea	2,628.00
10069894	Ea	20.00
10070288	Ea	1,056.29
10070362	Ea	2,161.11
10070675	Ea	24.75
10070676	Ea	48.76
10070678	Ea	23.58
10070679	Ea	19.89
10070680	Ea	19.89
10070841	Ea	19.89
10070914	Ea	5.31
10070916	Ea	6.81
10070917	Ea	10.68
10070918	Ea	10.68
10070919	Ea	10.68
10070921	Ea	15.26
10071006	Ea	89.96
10071042	Ea	430.31
10071044	Ea	52.15
10071045	Ea	32.18
10071047	Ea	53.96
10071048	Ea	164.21
10071049	Ea	26.13
10071050	Ea	88.90
10071067	Ea	3.27
10071068	Ea	4.37
10071069	Ea	5.47
10071091	Ea	52.58
10071092	Ea	63.73
10071093	Ea	208.93
10071094	Ea	95.65
10071157	Ea	46.36
10071159	Ea	46.36
10071258	Ea	84.47
10071259	Ea	84.47
10071271	Ea	132.00
10071334	Ea	321.00
10071335	Ea	321.00
10071336	Ea	321.00
10071337	Ea	321.00
10071338	Ea	321.00
10071340	Ea	232.00
10071361	Ea	232.00
10071362	Ea	232.00
10071363	Ea	232.00
10071364	Ea	321.00
10071375	Ea	13.00
10071750	Ea	7,478.94
10071833	Ea	26.00
10072223	Ea	1,631.78
10072237	Ea	90.78
10072240	Ea	2,461.40
10072473	Ea	90.14
10072478	Ea	49.55
10072479	Ea	46.06
10072480	Ea	47.13
10072481	Ea	47.13
10072482	Ea	57.00
10072483	Ea	55.70
10072484	Ea	56.77
10072485	Ea	56.77
10072486	Ea	64.45
10072488	Ea	59.99
10072489	Ea	59.99
10072490	Ea	67.49
10072491	Ea	67.49
10072493	Ea	68.56
10072494	Ea	124.26
10072496	Ea	125.33
10072498	Ea	69.49
10072714	Ea	892.46
10072715	Ea	610.58
10072747	Ea	610.58
10072748	Ea	892.46
10072764	Ea	610.58
10072765	Ea	892.46
10072957	Ea	8.19
10072964	Ea	212.88
10073106	Ea	8.00
10073293	Ea	2,018.23
10073346	Ea	20.00
10073455	Ea	71.05
10073457	Ea	71.05
10073459	Ea	70.02
10073460	Ea	11.31
10073461	Ea	12.50
10073504	Ea	4.22
10073505	Ea	0.56
10073506	Ea	0.71
10073508	Ea	1.33
10073510	Ea	2.63
10073511	Ea	457.83
10073512	Ea	8.76
10073513	Ea	28.36
10073516	Ea	49.24
10073517	Ea	91.85
10073581	Ea	179.81
10073667	Ea	843.00
10073769	Ea	2.39
10073831	Ea	13.00
10073847	Ea	107.11
10073912	Ea	717.17
10073913	Ea	717.17
10073914	Ea	717.17
10073915	Ea	717.17
10073947	Ea	576.00
10073949	Ea	576.00
10073997	Ea	124.20
10074067	Ea	17.79
10074068	Ea	17.79
10074069	Ea	17.79
10074070	Ea	17.79
10074071	Ea	17.79
10074072	Ea	17.79
10074073	Ea	17.79
10074077	Ea	17.79
10074084	Ea	17.79
10074132	Ea	19.00
10074137	Ea	528.00
10074153	Ea	18.00
10074202	Ea	73.69
10074203	Ea	50.30
10074204	Ea	44.45
10074479	Ea	311.75
10074480	Ea	276.93
10074525	Ea	2.90
10074527	Ea	2.73

NUMBER		PRICE
10074535	Ea	110.00
10074725	Ea	50.44
10074735	Ea	15.00
10074738	Ea	74.27
10074739	Ea	79.90
10074819	Ea	20.15
10074820	Ea	23.19
10074963	Ea	5.00
10075073	Ea	66.66
10075204	Ea	105.74
10075206	Ea	105.74
10075207	Ea	105.74
10075385	Ea	193.40
10075386	Ea	193.40
10075387	Ea	193.40
10075388	Ea	193.40
10075389	Ea	193.40
10075390	Ea	193.40
10075391	Ea	193.40
10075556	Ea	80.00
10075621	Ea	595.65
10075629	Ea	47.00
10075662	Ea	100.59
10075663	Ea	141.53
10075756	Ea	126.33
10075799	Ea	222.28
10075802	Ea	296.00
10075803	Ea	296.00
10075804	Ea	310.00
10075893	Ea	333.00
10075903	Ea	74.27
10075904	Ea	327.24
10075905	Ea	327.24
10075908	Ea	371.56
10075909	Ea	327.24
10075910	Ea	327.24
10075911	Ea	327.24
10075914	Ea	351.10
10075915	Ea	327.24
10075916	Ea	327.24
10075917	Ea	327.24
10075920	Ea	351.10
10075921	Ea	327.24
10076107	Ea	158.92
10076108	Ea	209.11
10076109	Ea	360.15
10076110	Ea	157.39
10076419	Ea	80.90
10076705	Ea	816.00
10076713	Ea	771.00
10076717	Ea	835.00
10076729	Ea	683.00
10076732	Ea	528.00
10076735	Ea	835.00
10076736	Ea	698.00
10076781	Ea	326.67
10076782	Ea	320.46
10076783	Ea	320.46
10076784	Ea	326.67
10077030	Ea	40.55
10077063	Ea	251.98
10077117	Ea	80.07
10077118	Ea	111.89
10077121	Ea	41.66
10077329	Ea	11.35
10077384	Ea	23.00
10077385	Ea	90.00
10077572	Ea	138.18
10077588	Ea	278.53
10077590	Ea	295.68
10077603	Ea	72.56
10077718	Ea	193.72
10078201	Ea	47.37
10078469	Ea	20.36
10078801	Ea	60.83
10078802	Ea	122.82
10078803	Ea	166.09
10078865	Ea	226.15
10078974	Ea	3.08
10079479	Ea	41.46
10079801	Ea	793.00
10079962	Ea	1,125.73
10079964	Ea	1,125.73
10079965	Ea	1,125.73
10079966	Ea	505.01
10079967	Ea	1,125.73
10080220	Ea	507.00
10080222	Ea	1,043.00
10080223	Ea	901.00
10080224	Ea	794.00
10080226	Ea	907.00
10080454	Box	438.65
10080455	Box	129.50
10080456	Box	528.52
10080493	Ea	179.00
10080514	Ea	18.55
10080515	Ea	15.84
10080516	Ea	17.31
10080534	Ea	41.00
10081098	Ea	905.75
10081099	Ea	905.75
10081100	Ea	885.56
10081114	Ea	1,482.66
10081115	Ea	1,653.12
10081116	Ea	1,482.66
10081117	Ea	1,653.12
10081171	Ea	885.56
10081205	Ea	477.56
10081206	Ea	108.85
10081414	Ea	3.34
10081456	Ea	1.61
10081567	Ea	1.19
10081570	Ea	300.55
10081594	Ea	161.75
10081603	Ea	314.00
10081604	Ea	335.00
10081605	Ea	335.00
10081658	Ea	28.37
10081783	Ea	15.23
10082166	Ea	536.52
10082167	Ea	523.91
10082233	Ea	41.46
10082234	Ea	46.36
10082235	Ea	46.36
10082281	Ea	150.26
10082377	Ea	64.28
10082441	Pkg	56.36
10082463	Ea	393.84
10082477	Ea	4.77
10082484	Ea	34.93
10082485	Ea	6.48
10082489	Ea	315.56
10082503	Ea	31.58
10082508	Ea	3.58
10082517	Ea	249.70
10082526	Ea	355.40
10082527	Ea	1,532.27
10082548	Ea	272.74
10082552	Ea	86.18
10082555	Ea	835.73
10082683	Ea	85.28
10082834	Ea	358.00
10082852	Ea	437.45
10082853	Ea	201.63
10082919	Ea	6.00
10082947	Ea	446.76
10082948	Ea	446.76
10082954	Ea	543.92
10083110	Ea	131.01
10083121	Ea	349.65
10083134	Ea	426.79
10083177	Ea	113.05
10083222	Ea	6.21
10083223	Ea	6.21
10083225	Ea	41.07
10083232	Ea	52.26
10083233	Ea	38.57
10083236	Ea	21.15
10083242	Ea	2,855.63
10083243	Ea	1,712.14
10083327	Ea	1,064.93
10083329	Box	411.03
10083330	Box	471.56
10083381	Box	526.34
10083382	Box	625.00
10083383	Box	315.03
10083384	Box	389.23
10083385	Box	445.60
10083386	Box	529.22
10083435	Ea	197.84
10083436	Ea	261.29
10083582	Ea	91.00
10083583	Ea	91.00
10083591	Ea	32.00
10083618	Bag	20.75
10083727	Ea	129.59
10083729	Ea	141.47
10083760	Ea	302.70
10083781	Ea	302.70
10083782	Ea	277.60
10083783	Ea	277.60
10083784	Ea	302.70
10083785	Ea	302.70
10083786	Ea	277.60
10083787	Ea	277.60
10083788	Ea	302.70
10083789	Ea	302.70
10083790	Ea	277.60
10083791	Ea	277.60
10083792	Ea	230.66
10083793	Ea	230.66
10083794	Ea	206.79
10083795	Ea	206.79
10083796	Ea	230.66
10083797	Ea	230.66
10083798	Ea	206.79
10083799	Ea	206.79
10083800	Ea	230.66
10083801	Ea	230.66
10083802	Ea	206.79
10083803	Ea	206.79
10083843	Bag	39.74
10083875	Ea	47.29
10083876	Ea	637.07
10083894	Ea	67.00
10083925	Ea	68.58
10083926	Ea	68.35
10083927	Ea	68.58
10084078	Ea	17.79
10084079	Ea	17.79
10084080	Ea	17.79
10084081	Ea	17.79
10084082	Ea	17.79
10084083	Ea	17.79
10084084	Ea	17.79
10084088	Ea	17.79
10084095	Ea	17.79
10084354	Ea	543.86
10084355	Ea	543.86
10084540	Ea	310.00
10084542	Ea	1,218.50
10084543	Ea	1,211.77
10084544	Ea	1,199.46
10084547	Ea	1,477.19
10084548	Ea	1,199.46
10084551	Ea	1,791.91
10084552	Ea	1,199.46
10084688	Ea	46.04
10084689	Ea	663.20
10084690	Ea	663.20
10084773	Ea	2.54
10084774	Ea	1.27
10084777	Ea	1.27
10084808	Ea	74.27
10084809	Ea	75.40
10084812	Ea	1.27
10084815	Ea	1.27
10084819	Ea	2.39
10084820	Ea	582.20
10084821	Ea	734.13
10084822	Ea	773.94
10084823	Ea	561.17
10084824	Ea	571.13
10084825	Ea	752.80

NUMBER		PRICE
10084826	Ea	762.74
10084827	Ea	563.65
10084828	Ea	571.13
10084829	Ea	755.28
10084830	Ea	765.23
10084866	Ea	35.21
10085018	Ea	18.01
10085084	Ea	56.77
10085209	Ea	1,937.20
10085490	Ea	14.59
10085491	Ea	17.96
10085492	Ea	18.29
10085493	Ea	18.29
10085534	Ea	28.00
10085536	Ea	2,100.01
10085537	Ea	2,100.01
10085538	Ea	1,775.84
10085967	Ea	432.69
10085968	Ea	432.69
10086032	Ea	53.80
10086390	Ea	17.55
10086439	Ea	338.04
10086440	Ea	462.01
10086441	Ea	338.04
10086442	Ea	338.04
10086443	Ea	450.32
10086444	Ea	377.80
10086491	Ea	4.77
10086493	Ea	0.61
10086494	Ea	0.27
10086519	Ea	753.26
10086520	Ea	352.08
10086579	Ea	3.81
10086580	Ea	1.27
10086639	Ea	60.00
10086642	Ea	87.00
10086643	Ea	8.00
10086644	Ea	102.00
10086662	Ea	1,041.46
10086663	Ea	1,041.46
10086664	Ea	783.90
10086665	Ea	783.90
10086666	Ea	47.29
10086667	Ea	12.69
10086691	Ea	20.85
10086879	Ea	1.20
10086925	Ea	453.36
10086926	Pkg	388.32
10087003	Ea	103.83
10087006	Pkg	419.82
10087129	Ea	49.18
10087130	Ea	48.96
10087152	Bag	231.12
10087201	Ea	8.00
10087218	Bag	8.88
10087239	Ea	50.30
10087293	Ea	1.27
10087295	Ea	205.86
10087301	Ea	95.46
10087302	Ea	95.37
10087303	Ea	95.37
10087304	Ea	73.45
10087305	Ea	432.65
10087306	Ea	427.98
10087307	Ea	371.48
10087308	Ea	249.14
10087368	Ea	219.00
10087375	Ea	258.96
10087376	Ea	306.45
10087377	Ea	321.16
10087399	Ea	52.44
10087422	Ea	51.04
10087426	Ea	49.81
10087429	Ea	49.77
10087436	Ea	47.19
10087439	Pr	48.48
10087791	Ea	91.00
10087895	Ea	1,269.45
10087897	Ea	1,348.04
10087913	Ea	63.00
10088012	Ea	1,711.92
10088031	Ea	288.23
10088034	Ea	342.41
10088065	Ea	91.30
10088099	Ea	80.00
10088107	Ea	719.91
10088109	Ea	737.82
10088110	Ea	765.96
10088121	Ea	723.77
10088132	Ea	719.91
10088134	Ea	737.82
10088136	Ea	723.77
10088142	Ea	719.91
10088150	Box	943.42
10088159	Ea	41.00
10088192	Ea	24.00
10088211	Ea	168.62
10088212	Ea	224.83
10088213	Ea	93.31
10088214	Ea	140.52
10088216	Ea	82.06
10088246	Ea	182.02
10088250	Ea	233.86
10088256	Ea	202.97
10088263	Ea	137.14
10088266	Ea	175.37
10088268	Ea	170.87
10088365	Ea	5.00
10088522	Ea	263.00
10088539	Ea	18.00
10088611	Ea	91.00
10088613	Ea	5.00
10088636	Ea	29.00
10088648	Ea	619.35
10088655	Ea	4.00
10088759	Ea	16.59
10089042	Ea	32.28
10089107	Ea	95.91
10089109	Ea	701.58
10089110	Ea	701.58
10089111	Ea	683.04
10089112	Ea	683.04
10089148	Ea	701.58
10089149	Ea	683.04
10089150	Ea	683.04
10089151	Ea	701.58
10089152	Ea	701.58
10089153	Ea	683.04
10089154	Ea	683.04
10089160	Ea	701.58
10089163	Ea	300.00
10089177	Ea	1,635.78
10089205	Ea	39.34
10089207	Ea	39.53
10089209	Ea	74.87
10089210	Ea	1,556.30
10089272	Ea	111.28
10089273	Ea	1.27
10089321	Ea	27.00
10089398	Ea	8.00
10089399	Ea	5.00
10089527	Ea	232.00
10089533	Ea	73.07
10089550	Ea	191.63
10089665	Ea	8.61
10089922	Ea	16.00
10090218	Ea	16.50
10090219	Ea	21.15
10090220	Ea	116.96
10090281	Ea	15.23
10090282	Ea	22.26
10090283	Ea	33.60
10090391	Ea	42.76
10090392	Ea	42.76
10090457	Ea	32.35
10090852	Ea	274.98
10090853	Ea	274.98
10090902	Ea	350.81
10090907	Ea	65.94
10090908	Ea	202.82
10090909	Ea	61.50
10090910	Ea	35.43
10090961	Ea	12.79
10090962	Ea	10.83
10091146	Ea	1,750.71
10091147	Ea	1,750.71
10091148	Ea	2,055.55
10091149	Ea	2,055.55
10091150	Ea	1,750.71
10091194	Ea	1,073.59
10091201	Ea	1,750.71
10091202	Ea	2,055.55
10091203	Ea	2,055.55
10091204	Ea	1,750.71
10091205	Ea	1,750.71
10091206	Ea	2,055.55
10091207	Ea	2,055.55
10091208	Ea	2,250.91
10091209	Ea	2,250.91
10091210	Ea	2,564.46
10091211	Ea	2,564.46
10091212	Ea	2,250.91
10091213	Ea	2,250.91
10091214	Ea	2,564.46
10091215	Ea	2,564.46
10091238	Ea	22.00
10091378	Ea	2,592.42
10091379	Ea	9.07
10091435	Ea	60.97
10091436	Ea	36.09
10091437	Ea	27.37
10091438	Ea	22.40
10091439	Ea	19.91
10091440	Ea	23.65
10091446	Ea	582.65
10091447	Ea	669.08
10091448	Ea	1,776.63
10091461	Ea	32.35
10091857	Ea	1,034.33
10091873	Ea	957.76
10091889	Ea	1,034.33
10091900	Ea	318.06
10091901	Ea	318.06
10091902	Ea	297.90
10091905	Ea	320.30
10091909	Ea	307.98
10092015	Ea	41.46
10092031	Ea	1,617.48
10092033	Ea	1,580.61
10092034	Ea	1,583.85
10092035	Ea	1,701.04
10092036	Ea	1,662.45
10092038	Ea	1,907.93
10092041	Ea	13.13
10092110	Ea	204.36
10092166	Ea	135.27
10092167	Ea	146.08
10092168	Ea	135.27
10092169	Ea	146.08
10092170	Ea	106.05
10092191	Ea	116.86
10092192	Ea	107.13
10092193	Ea	120.24
10092233	Ea	137.00
10092333	Ea	3.00
10092441	Ea	271.42
10092445	Ea	283.10
10092453	Ea	318.66
10092454	Ea	332.65
10092521	Ea	232.00
10092522	Ea	321.00
10092523	Ea	321.00
10092609	Ea	56.00
10092617	Ea	98.04
10092632	Ea	61.00
10092662	Ea	98.22
10092663	Ea	104.29
10092664	Ea	128.39
10092665	Ea	188.69
10092733	Ea	1,466.65
10092739	Ea	1,005.07
10092779	Ea	100.87
10092789	Ea	22.69
10092809	Ea	120.00

NUMBER		PRICE
10092878	Pr	26.21
10092879	Pr	26.21
10092880	Pr	26.21
10092936	Ea	156.00
10092958	Ea	323.09
10092959	Ea	294.04
10093053	Ea	83.00
10093054	Ea	203.00
10093055	Ea	232.00
10093056	Ea	232.00
10093057	Ea	222.00
10093353	Ea	220.54
10093354	Ea	187.13
10093356	Ea	182.45
10093357	Ea	214.97
10093608	Ea	2,336.94
10093797	Ea	82.93
10093800	Ea	74.31
10093809	Ea	65.50
10093810	Ea	249.14
10093811	Ea	100.54
10093820	Ea	72.89
10093911	Ea	568.62
10093912	Ea	670.14
10093919	Ea	19.91
10093920	Ea	16.50
10093921	Ea	59.72
10093922	Ea	58.49
10093923	Ea	1,061.37
10093924	Ea	1,061.37
10093925	Ea	1,061.37
10093926	Ea	1,284.10
10093927	Ea	1,284.10
10093928	Ea	1,284.10
10093929	Ea	1,096.21
10093930	Ea	1,096.21
10093931	Ea	1,096.21
10093933	Ea	156.78
10093934	Ea	263.79
10093935	Ea	184.15
10093936	Ea	248.86
10093937	Ea	19.91
10093938	Ea	110.74
10093939	Ea	72.17
10093940	Ea	181.67
10093941	Ea	34.84
10093942	Ea	16.50
10093943	Ea	18.67
10093944	Ea	42.30
10093945	Ea	8.88
10093946	Ea	17.77
10093947	Ea	41.07
10093948	Ea	39.82
10093949	Ea	37.33
10093950	Ea	7.62
10093986	Ea	1,833.64
10093987	Ea	1,912.25
10093988	Ea	1,692.59
10094012	Ea	13.95
10094013	Ea	17.77
10094014	Ea	274.98
10094015	Ea	13.95
10094016	Ea	160.51
10094017	Ea	53.50
10094020	Ea	12.69
10094021	Ea	150.56
10094022	Ea	15.23
10094023	Ea	167.98
10094024	Ea	1,586.46
10094028	Ea	1,332.62
10094029	Ea	1,332.62
10094030	Ea	1,332.62
10094175	Ea	39.00
10094605	Pr	26.21
10094658	Ea	57.84
10094717	Ea	77.22
10094745	Ea	20.00
10094780	Ea	63.02
10094830	Ea	38.00
10094844	Ea	33.00
10094900	Ea	5.84
10094974	Ea	10.73
10094975	Ea	12.53
10095079	Ea	238.61
10095162	Ea	391.18
10095163	Ea	305.62
10095164	Ea	140.09
10095165	Ea	273.37
10095166	Ea	954.07
10095181	Ea	1,168.78
10095182	Ea	1,109.81
10095183	Ea	1,109.81
10095185	Ea	1,115.05
10095186	Ea	1,181.74
10095187	Ea	1,280.04
10095188	Ea	1,207.96
10095189	Ea	1,198.82
10095190	Ea	1,257.07
10095193	Ea	1,204.03
10095194	Ea	1,279.44
10095195	Ea	1,247.74
10095196	Ea	1,207.96
10095197	Ea	1,198.82
10095198	Ea	1,242.00
10095229	Ea	2,196.74
10095230	Ea	47.43
10095264	Ea	83.06
10095324	Ea	96.19
10095325	Ea	44.13
10095330	Ea	477.13
10095357	Ea	607.97
10095469	Ea	71.51
10095471	Ea	350.71
10095475	Ea	609.09
10095478	Ea	473.64
10095480	Ea	464.62
10095601	Ea	28.25
10095630	Ea	773.72
10095739	Box	1,589.79
10095740	Box	1,247.44
10095741	Box	2,382.56
10095743	Box	1,761.48
10095744	Box	1,424.51
10095745	Box	2,860.90
10095747	Box	2,949.87
10095748	Box	1,589.68
10095774	Ea	331.00
10095800	Ea	2,549.37
10095801	Ea	2,377.91
10095802	Ea	3,213.77
10095803	Ea	3,042.30
10095804	Ea	2,418.62
10095805	Ea	2,206.45
10095806	Ea	3,019.80
10095807	Ea	2,848.34
10095987	Ea	34.94
10095988	Ea	37.40
10095989	Ea	35.27
10095990	Ea	37.77
10096141	Ea	35.27
10096142	Ea	34.94
10096233	Ea	8.37
10096619	Ea	308.83
10096702	Ea	544.00
10096703	Ea	13,417.00
10096795	Ea	45.20
10096815	Ea	992.82
10096816	Ea	998.34
10096821	Ea	2,205.00
10096829	Ea	197.66
10096886	Ea	1,894.10
10096892	Ea	252.12
10096895	Ea	285.93
10096909	Ea	279.00
10097035	Ea	63.98
10097057	Ea	464.62
10097068	Ea	857.00
10097202	Ea	844.39
10097493	Ea	511.70
10097665	Ea	93.67
10097667	Ea	133.14
10097807	Ea	13.21
10097810	Ea	8.05
10097838	Ea	625.00
10097840	Ea	16,124.00
10097845	Ea	78.39
10097881	Pkg	8.70
10097883	Ea	8.19
10097884	Pkg	12.83
10097886	Ea	22.03
10097887	Ea	0.59
10097888	Pkg	11.77
10097891	Pkg	24.21
10097949	Ea	11.00
10097951	Ea	213.33
10098031	Ea	11.10
10098032	Ea	11.10
10098210	Ea	11.93
10098392	Ea	176.50
10098572	Ea	59.72
10098700	Ea	72.41
10098754	Ea	122.45
10098766	Ea	141.86
10098767	Ea	2,673.96
10098855	Ea	374.00
10099285	Ea	68.44
10099397	Ea	339.00
10099400	Ea	22.47
10099413	Ea	22.47
10099648	Ea	172.00
10099716	Ea	164.52
10099717	Ea	208.77
10099776	Ea	84.05
10099778	Ea	84.05
10099814	Ea	52.31
10099896	Ea	53.38
10100077	Ea	31.21
10100094	Ea	7,368.82
10100097	Ea	5,296.53
10100267	Ea	25.26
10100417	Ea	36.36
10100442	Ea	149.80
10100444	Ea	161.89
10100445	Ea	148.81
10100529	Ea	207.64
10100831	Ea	379.26
10100833	Ea	379.26
10100906	Ea	453.26
10100954	Ea	403.92
10101117	Ea	10.56
10101135	Ea	3,272.03
10101146	Ea	207.04
10101176	Ea	197.53
10101535	Ea	41.46
10101683	Ea	6.56
10101773	Ea	1,400.98
10101775	Ea	193.41
10101792	Ea	18.00
10101798	Ea	19.15
10101852	Ea	462.35
10101854	Ea	41.46
10101861	Ea	774.43
10101902	Ea	742.00
10101916	Ea	882.21
10101917	Ea	1,109.57
10101926	Ea	865.41
10101927	Ea	1,109.57
10101933	Ea	1,209.61
10101934	Ea	1,017.06
10101938	Ea	1,017.06
10101939	Ea	1,186.54
10101949	Ea	1,109.57
10101954	Ea	882.21
10101955	Ea	1,088.43
10101965	Ea	1,088.43
10102002	Ea	969.00
10102133	Ea	42.63
10102182	Ea	38.75
10102183	Ea	38.75
10102184	Ea	38.75
10102193	Ea	34.83
10102194	Ea	34.83
10102195	Ea	29.99
10102196	Ea	28.21

NUMBER		PRICE
10102205	Ea	45.77
10102206	Ea	45.77
10102233	Ea	34.83
10102234	Ea	29.99
10102240	Ea	1,321.86
10102295	Ea	10.69
10102402	Ea	496.44
10102480	Ea	262.54
10102589	Ea	225.85
10102686	Ea	33.96
10102837	Ea	83.23
10102838	Ea	113.33
10102858	Ea	162.37
10102859	Ea	150.90
10102860	Ea	163.00
10102861	Ea	72.66
10102886	Ea	50.19
10102888	Ea	231.59
10102889	Ea	236.27
10103188	Ea	24.00
10103189	Ea	30.00
10103190	Ea	44.00
10103191	Ea	388.00
10103213	Ea	389.40
10103216	Ea	389.40
10103217	Ea	400.43
10103218	Ea	411.88
10103262	Ea	464.00
10103338	Ea	17.02
10103443	Ea	856.66
10103470	Ea	824.67
10103501	Ea	1,773.51
10103502	Ea	2,589.22
10103864	Box	407.60
10103908	Ea	41.46
10104028	Ea	1,143.64
10104029	Ea	1,286.52
10104047	Ea	774.79
10104068	Ea	208.67
10104071	Ea	262.34
10104101	Ea	472.02
10104102	Ea	475.42
10104109	Ea	595.69
10104254	Ea	46.36
10104377	Ea	129.59
10104459	Ea	74.59
10104520	Ea	19.50
10104601	Ea	58.32
10104621	Ea	390.00
10104820	Ea	116.81
10104925	Ea	41.46
10104929	Ea	18.01
10104931	Ea	24.03
10105210	Ea	411.00
10105251	Ea	409.00
10105253	Ea	397.00
10105254	Ea	429.00
10105297	Ea	292.80
10105480	Ea	850.04
10105650	Ea	21.00
10105721	Ea	23.00
10105756	Ea	1,310.00
10105839	Ea	497.00
10105883	Ea	1,067.86
10105889	Ea	178.39
10105890	Ea	173.14
10105931	Ea	281.15
10105932	Ea	276.63
10105933	Ea	298.08
10105935	Ea	302.59
10105936	Ea	291.31
10105939	Ea	311.62
10105940	Ea	284.53
10105941	Ea	290.19
10105942	Ea	298.08
10105943	Ea	302.59
10105944	Ea	305.99
10105945	Ea	311.62
10105946	Ea	295.82
10105947	Ea	291.09
10105948	Ea	350.02
10105949	Ea	355.67
10105950	Ea	340.99
10105951	Ea	332.21
10105952	Ea	344.38
10105953	Ea	335.46
10105954	Ea	335.34
10105955	Ea	326.80
10105956	Ea	270.98
10105957	Ea	276.63
10105958	Ea	267.29
10105959	Ea	272.69
10105960	Ea	372.60
10105961	Ea	378.25
10106153	Ea	266.65
10106268	Ea	8.11
10106270	Ea	8.91
10106281	Ea	19.18
10106282	Ea	21.73
10106346	Ea	3.40
10106348	Ea	33.00
10106375	Ea	488.00
10106379	Ea	6.91
10106381	Ea	19.13
10106382	Ea	7.28
10106384	Ea	4.69
10106386	Ea	6.66
10106621	Ea	336.00
10106623	Ea	36.00
10106722	Ea	293.00
10106725	Ea	333.00
10106726	Ea	699.00
10106727	Ea	731.00
10106728	Ea	598.00
10106729	Ea	251.00
10106732	Ea	191.00
10106935	Ea	226.15
10107202	Ea	214.45
10107207	Ea	120.05
10107229	Ea	322.83
10107256	Ea	307.46
10107257	Ea	309.96
10107272	Ea	2,708.67
10107322	Ea	8.37
10107326	Ea	105.90
10107385	Ea	127.23
10107526	Ea	478.33
10107527	Ea	465.95
10107528	Ea	496.85
10107529	Ea	913.00
10107532	Ea	204.81
10107535	Ea	7,467.72
10107536	Ea	1,586.26
10107537	Ea	4,285.02
10107538	Ea	4,551.94
10107539	Ea	5,417.30
10107540	Ea	2,455.26
10107541	Ea	247.36
10107542	Ea	766.86
10107543	Ea	816.34
10107544	Ea	321.61
10107545	Ea	98.94
10107546	Ea	321.61
10107547	Ea	69.42
10107548	Ea	42.21
10107549	Ea	587.70
10107551	Ea	727.93
10107552	Ea	408.23
10107553	Ea	27.15
10107554	Ea	56.23
10107555	Ea	51.01
10107687	Ea	9.07
10107710	Ea	78.09
10107731	Ea	78.09
10107732	Ea	78.09
10107734	Ea	65.60
10107736	Ea	584.81
10107738	Ea	710.67
10107740	Ea	527.76
10107741	Ea	854.19
10107779	Ea	4,406.82
10107780	Ea	4,437.26
10107784	Ea	101.28
10107811	Ea	4,345.92
10107812	Ea	4,693.92
10107813	Ea	4,640.06
10107814	Ea	4,652.30
10107815	Ea	5,427.07
10107816	Ea	5,439.33
10107817	Ea	5,480.94
10107818	Ea	7,883.96
10107819	Ea	7,467.72
10107820	Ea	7,565.15
10107821	Ea	1,638.89
10107822	Ea	1,665.63
10107823	Ea	1,834.73
10107824	Ea	634.06
10107853	Ea	275.78
10107975	Ea	381.17
10107979	Ea	380.35
10107991	Ea	412.08
10107994	Ea	490.69
10107999	Ea	3.36
10108138	Ea	352.11
10108492	Ea	936.62
10108493	Ea	1,318.98
10108494	Ea	1,221.87
10108496	Ea	1,865.14
10108545	Ea	382.92
10108547	Ea	382.92
10108549	Ea	382.92
10108561	Ea	382.92
10108563	Ea	382.92
10108565	Ea	382.92
10108566	Ea	382.92
10108567	Ea	342.15
10108568	Ea	342.15
10108569	Ea	342.15
10108570	Ea	342.15
10108571	Ea	342.15
10108572	Ea	342.15
10108573	Ea	261.33
10108574	Ea	254.96
10108575	Ea	261.33
10108576	Ea	261.33
10108577	Ea	261.33
10108578	Ea	261.33
10108592	Ea	1,960.73
10108593	Ea	1,235.02
10108594	Ea	1,277.80
10108643	Ea	1,136.19
10108716	Ea	12.86
10108720	Ea	158.85
10108744	Ea	85.70
10108745	Ea	86.77
10108768	Ea	88.91
10108769	Ea	89.98
10108770	Ea	89.98
10108772	Ea	94.04
10108773	Ea	71.77
10108791	Ea	86.77
10109391	Ea	70.50
10109434	Ea	1.34
10109499	Ea	29.96
10109538	Ea	128.00
10110014	Ea	536.52
10110029	Ea	45.00
10110030	Ea	43.00
10110055	Ea	0.23
10110061	Ea	71.00
10110062	Ea	34.00
10110165	Ea	29.99
10110183	Ea	36.00
10110435	Ea	1,248.73
10110593	Ea	46.14
10110670	Ea	18.94
10110786	Ea	136.27
10110829	Ea	73.56
10110913	Ea	58.88
10110981	Ea	166.56
10111000	Ea	313.81
10111192	Ea	507.16
10111193	Ea	740.67
10111223	Ea	219.30

NUMBER		PRICE
10111351	Ea	146.42
10111358	Ea	67.09
10111389	Ea	135.00
10111392	Ea	51.55
10111404	Ea	282.40
10111405	Ea	45.63
10111406	Ea	689.39
10111459	Ea	6.00
10111533	Ea	141.15
10111642	Ea	1,253.36
10111789	Ea	288.40
10111832	Pr	319.09
10111834	Ea	145.69
10111855	Ea	1,305.62
10112708	Ea	414.39
10112709	Ea	432.06
10112710	Ea	423.41
10112741	Ea	440.35
10112742	Ea	420.02
10112743	Ea	438.08
10112744	Ea	429.05
10112745	Ea	446.28
10112746	Ea	471.96
10112747	Ea	491.30
10112748	Ea	464.07
10112749	Ea	482.12
10112750	Ea	466.32
10112751	Ea	484.30
10112752	Ea	458.41
10112753	Ea	476.47
10112754	Ea	400.83
10112755	Ea	420.02
10112756	Ea	494.19
10112757	Ea	500.68
10112758	Ea	569.59
10112759	Ea	587.20
10112760	Ea	575.06
10112761	Ea	592.78
10112762	Ea	617.62
10112763	Ea	635.68
10112764	Ea	612.17
10112765	Ea	630.03
10112766	Ea	556.90
10112767	Ea	574.48
10112768	Ea	599.46
10112769	Ea	617.07
10112770	Ea	636.53
10112771	Ea	654.11
10112772	Ea	585.05
10112773	Ea	602.65
10112774	Ea	627.65
10112775	Ea	645.22
10112776	Ea	646.97
10112777	Ea	664.10
10113027	Ea	413.37
10113162	Ea	90.14
10113240	Ea	9.66
10113308	Ea	130.00
10113328	Ea	126.65
10113329	Ea	35.65
10113330	Ea	319.46
10113341	Ea	522.63
10113342	Ea	5,480.94
10113343	Ea	6,013.33
10113344	Ea	5,427.07
10113345	Ea	5,417.30
10113346	Ea	4,922.85
10113347	Ea	4,922.85
10113348	Ea	4,652.30
10113349	Ea	4,922.85
10113495	Ea	178.55
10113496	Ea	199.48
10113539	Ea	48.20
10113667	Ea	1,880.28
10113669	Ea	491.13
10113694	Ea	141.15
10113864	Ea	112.49
10113896	Ea	155.82
10113989	Ea	19.37
10114028	Ea	207.64
10114190	Ea	941.08
10114603	Ea	2,269.00
10114604	Ea	41.00
10114750	Ea	538.00
10114804	Ea	380.00
10114805	Ea	390.00
10114810	Ea	59.00
10114811	Ea	92.00
10114835	Ea	253.00
10114836	Ea	218.00
10114837	Ea	184.00
10114839	Ea	217.00
10114840	Ea	225.00
10114852	Ea	223.00
10114853	Ea	130.00
10114854	Ea	120.00
10114855	Ea	24.00
10114949	Ea	58.00
10114950	Ea	92.00
10115116	Ea	51.55
10115329	Ea	204.22
10115696	Ea	83.27
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10115730	Ea	15.09
10115821	Ea	23.31
10115822	Ea	15.09
10115827	Ea	8.00
10115828	Ea	10.46
10115836	Ea	6.40
10115837	Ea	6.40
10115839	Ea	20.52
10115840	Ea	8.53
10115841	Ea	20.52
10115842	Ea	21.81
10115844	Ea	29.32
10115845	Ea	30.38
10115847	Ea	108.19
10115848	Ea	146.75
10115850	Ea	148.87
10115851	Ea	20.12
10115853	Ea	32.00
10115854	Ea	33.25
10115855	Ea	17.75
10115856	Ea	17.75
10115859	Ea	28.07
10115860	Ea	28.07
10115861	Ea	30.74
10115862	Ea	30.74
10115863	Ea	8.20
10116099	Ea	47.66
10116404	Ea	29.24
10116452	Ea	4,361.46
10116453	Ea	4,139.64
10116454	Ea	3,562.03
10116539	Ea	12.21
10116552	Ea	23.31
10116557	Ea	11.30
10116558	Ea	11.30
10116617	Ea	169.32
10116618	Ea	169.32
10116619	Ea	169.32
10116627	Ea	18.10
10116628	Ea	23.31
10116638	Ea	989.00
10116667	Ea	1,896.09
10116745	Ea	974.10
10116746	Ea	974.10
10116781	Ea	3,197.69
10116782	Ea	1,904.26
10116783	Ea	1,564.56
10116924	Ea	2,449.00
10116925	Ea	3,094.00
10116926	Ea	2,769.00
10116927	Ea	3,414.00
10116928	Ea	3,068.00
10116929	Ea	3,714.00
10116930	Ea	36.00
10116961	Ea	1,808.15
10116962	Ea	1,884.10
10117212	Ea	220.63
10117495	Ea	8.30
10117496	Ea	5.30
10117601	Ea	28.13
10117738	Ea	470.00
10117783	Ea	8.53
10117878	Ea	1.74
10117974	Ea	161.12
10118010	Ea	128.63
10118417	Set	152.35
10118418	Set	152.31
10118427	Set	190.57
10118475	Ea	5.34
10118476	Ea	6.01
10118480	Ea	114.35
10118503	Ea	44.74
10118505	Ea	29.83
10118506	Ea	37.53
10118507	Ea	48.20
10118508	Ea	48.20
10118509	Ea	133.44
10118510	Ea	106.70
10118511	Ea	106.70
10118512	Ea	653.54
10118513	Ea	168.65
10118518	Ea	605.00
10118520	Ea	267.31
10118637	Ea	44.73
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10118695	Ea	41.84
10118696	Ea	148.16
10118697	Ea	26.23
10118713	Ea	971.14
10118737	Ea	237.18
10118779	Ea	71.71
10118792	Ea	107.79
10118802	Ea	89.67
10118804	Ea	159.96
10118812	Ea	164.52
10118813	Ea	195.63
10118818	Ea	69.22
10119043	Ea	8.37
10119058	Ea	8.37
10119236	Ea	134.58
10119324	Ea	72.85
10119326	Ea	52.58
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10119370	Ea	1,595.42
10119392	Ea	1,734.65
10119393	Ea	1,736.95
10119394	Ea	1,505.21
10119396	Ea	1,734.65
10119415	Ea	64.33
10119465	Ea	5.38
10119469	Ea	73.75
10119470	Ea	73.75
10119471	Ea	73.75
10119473	Ea	80.21
10119507	Ea	582.84
10119574	Ea	53.13
10119575	Ea	53.13
10119576	Ea	53.13
10119581	Ea	62.97
10119689	Ea	57.51
10119699	Ea	136.07
10119700	Ea	132.23
10119701	Ea	132.23
10119702	Ea	132.23
10119703	Ea	132.23
10119704	Ea	132.23
10119705	Ea	132.23
10119706	Ea	132.23
10119707	Ea	132.23
10119709	Ea	75.41
10120214	Ea	59.74
10120228	Ea	171.45
10120371	Ea	89.94
10120423	Ea	1,212.95
10120424	Ea	60.83
10120425	Ea	60.83
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10120427	Ea	750.93
10120428	Ea	1,053.86
10120508	Ea	46.81
10120699	Ea	204.80

NUMBER		PRICE
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10120808	Ea	35.09
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10121053	Ea	28.38
10121092	Ea	138.55
10121093	Ea	189.90
10121101	Ea	1,845.53
10121102	Ea	1,565.08
10121103	Ea	1,651.82
10121104	Ea	2,202.34
10121211	Ea	340.00
10121212	Ea	309.00
10121213	Ea	333.00
10121214	Ea	420.00
10121215	Ea	420.00
10121216	Ea	483.00
10121217	Ea	457.00
10121227	Ea	333.00
10121266	Ea	10.75
10121267	Ea	19.41
10121268	Ea	10.75
10121331	Ea	136.02
10121413	Ea	700.13
10121416	Ea	700.13
10121478	Ea	55.75
10121495	Ea	51.55
10121656	Ea	256.88
10121707	Ea	931.06
10121716	Ea	620.90
10121717	Ea	620.90
10121718	Ea	903.35
10121719	Ea	903.35
10121720	Ea	620.90
10121721	Ea	620.90
10121722	Ea	903.35
10121723	Ea	903.35
10121724	Ea	620.90
10121725	Ea	620.90
10121726	Ea	903.35
10121727	Ea	903.35
10121778	Ea	811.70
10121834	Ea	757.36
10121854	Ea	67.62
10122268	Ea	78.64
10122309	Ea	2,337.17
10122310	Ea	2,911.32
10122342	Ea	20.37
10122488	Ea	51.55
10122492	Ea	79.42
10122572	IN	3.51
10122722	Ea	44.45
10122723	Ea	44.45
10122787	Ea	26.17
10123079	Ea	572.84
10123516	Ea	77.33
10123937	Ea	76.00
10123953	Ea	270.98
10124031	Ea	360.00
10124238	Ea	64.18
10124286	Ea	39.00
10124391	Ea	173.28
10124426	Ea	19.41
10124742	Ea	59.16
10124808	Ea	4.94
10124840	Ea	971.14
10124926	Ea	175.87
10124956	Ea	266.00
10125034	Ea	70.50
10125126	Ea	629.32
10125135	Ea	304.00
10125371	Ea	37.38
10125374	Ea	138.43
10125472	Ea	282.03
10125486	Ea	319.65
10125488	Ea	2.71
10125492	Ea	2,738.23
10125584	Ea	133.68
10125614	Ea	754.90
10125697	Ea	72.58
10125708	Ea	475.00
10125759	Ea	42.46
10125830	Ea	73.23
10125832	Ea	0.38
10125907	Ea	19.00
10125912	Ea	1,104.00
10125913	Ea	1,127.00
10125914	Ea	1,308.00
10125915	Ea	1,332.00
10125947	Ea	475.00
10125948	Ea	475.00
10125954	Ea	24.56
10125955	Ea	1,229.32
10126138	Ea	69.00
10126347	Ea	1,022.08
10126378	Ea	92.75
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10126397	Ea	3.29
10126398	Ea	3.98
10126399	Ea	2.08
10126437	Ea	31.00
10126441	Ea	296.74
10126536	Ea	450.53
10126657	Ea	20.00
10126683	Ea	10.47
10126692	Ea	18.58
10126693	Ea	18.58
10126712	Ea	258.73
10126741	Ea	62.20
10126758	Ea	3,753.00
10126762	Ea	130.10
10126763	Ea	170.70
10126797	Ea	213.54
10126899	Ea	1.18
10126929	Ea	172.47
10127020	Ea	19.00
10127061	Ea	20.74
10127062	Ea	25.04
10127063	Ea	33.44
10127065	Ea	25.85
10127111	Ea	37.00
10127293	Ea	3,133.52
10127295	Ea	3,552.76
10127331	Ea	3,882.90
10127397	Ea	672.91
10127422	Ea	425.00
10127423	Ea	425.00
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10127427	Ea	425.00
10127428	Ea	425.00
10127429	Ea	425.00
10127518	Ea	13.00
10127527	Ea	7.48
10127669	Ea	41.59
10127808	Ea	1,450.00
10128083	Ea	84.05
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10128443	Ea	214.04
10128625	Ea	3,094.00
10128626	Ea	2,777.00
10128627	Ea	2,909.00
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10128663	Ea	2,593.00
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10128667	Ea	2,593.00
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10128670	Ea	2,909.00
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10128692	Ea	2,909.00
10128693	Ea	2,593.00
10128768	Ea	941.08
10128786	Ea	983.65
10128821	Ea	91.56
10128997	Ea	817.75
10129080	Ea	1,762.35
10129084	Ea	116.94
10129085	Ea	116.94
10129107	Ea	172.04
10129154	Ea	119.59
10129269	Ea	12.03
10129281	Ea	15.63
10129327	Ea	58.80
10129553	Ea	86.05
10143221	Ea	77.98
10143228	Ea	62.00
10143346	Ea	50.49
10143347	Ea	16.56
10143372	Ea	1,288.00
10143373	Ea	1,288.00
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10143560	Ea	15.58
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10144052	Ea	312.00
10144053	Ea	11.00
10144054	Ea	29.00
10144055	Ea	73.56
10144109	Ea	80.66
10144230	Ea	141.37
10144407	Ea	132.56
10144431	Set	256.79
10144432	Set	389.97
10144663	Ea	14.00
10144672	Ea	998.22
10144673	Ea	1,550.56
10144675	Ea	1,912.77
10144676	Ea	2,034.56
10144883	Ea	625.08
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10144944	Ea	103.83
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10144946	Ea	74.32
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NUMBER		PRICE
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10144953	Ea	68.33
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10144955	Ea	17.68
10144956	Ea	19.22
10144957	Ea	294.00
10144958	Ea	80.88
10144959	Ea	65.58
10144960	Ea	150.83
10144961	Ea	193.44
10144962	Ea	21.86
10145012	Ea	332.42
10145013	Ea	325.87
10145054	Ea	102.38
10145133	Ea	781.37
10145134	Ea	784.49
10145135	Ea	593.91
10145136	Ea	576.28
10145138	Ea	47.00
10145144	Ea	333.26
10145145	Ea	105.79
10145198	Ea	49.25
10145415	Ea	25.28
10145416	Ea	41.97
10145417	Ea	63.54
10145627	Ea	3,388.00
10145748	Ea	248.64
10145749	Ea	36.70
10145750	Ea	932.40
10145753	Ea	47.00
10145771	Ea	808.08
10145772	Ea	193.31
10145798	Ea	141.47
10145812	Ea	38.83
10145859	Ea	264.50
10145868	Ea	1,017.06
10145872	Ea	1,064.40
10145873	Ea	1,446.88
10145874	Ea	1,823.51
10145938	Ea	7,720.34
10145939	Ea	7,720.34
10145940	Ea	7,832.16
10145945	Ea	1,852.61
10145946	Ea	1,853.59
10145947	Ea	1,727.64
10145949	Ea	1,853.07
10145951	Ea	8,391.71
10145952	Ea	8,896.44
10145953	Ea	9,510.80
10145954	Ea	7,720.34
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10145956	Ea	8,896.44
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10145958	Ea	8,336.90
10145959	Ea	8,951.25
10145960	Ea	9,455.88
10145962	Ea	8,391.71
10145963	Ea	8,951.25
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10145965	Ea	10,070.24
10145966	Ea	10,710.00
10145967	Ea	8,391.71
10145968	Ea	8,951.25
10145969	Ea	1,853.59
10145970	Ea	2,122.24
10145971	Ea	2,122.24
10145972	Ea	2,324.36
10145973	Ea	2,324.36
10145975	Ea	2,648.00
10145976	Ea	2,268.48
10145977	Ea	2,269.52
10145978	Ea	2,648.00
10145979	Ea	2,648.00
10145996	Ea	2,329.18
10145997	Ea	1,574.84
10145998	Ea	14.75
10145999	Ea	14.75
10146003	Ea	81.55
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10146006	Ea	2.24
10146059	Ea	1,958.83
10146939	Ea	14.26
10147010	Ea	101.76
10147021	Ea	103.91
10147023	Ea	287.92
10147301	Ea	1,322.77
10147308	Ea	247.00
10147309	Ea	216.00
10147388	Ea	272.37
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10147390	Ea	410.70
10147419	Ea	104.80
10147421	Ea	48.96
10147441	Ea	18.34
10147448	Ea	1,099.34
10147449	Ea	1,099.34
10147450	Ea	1,368.94
10147459	Ea	259.50
10147471	Ea	1,095.41
10147490	Ea	56.16
10147510	Ea	961.00
10147603	Ea	43.41
10147792	Ea	48.61
10147830	Ea	299.81
10147842	Ea	129.93
10147892	Ea	122.37
10148077	Ea	455.56
10148136	Ea	457.70
10148159	Ea	629.00
10148232	Ea	16.66
10148277	Ea	1,520.20
10148485	Ea	434.23
10148488	Ea	43.72
10148539	Ea	3.52
10148706	Ea	14.61
10148707	Ea	14.61
10148708	Ea	14.01
10148777	Ea	1,186.54
10148817	Ea	377.10
10149029	Ea	8.89
10149037	Ea	333.00
10149283	Ea	672.14
10149284	Ea	679.10
10149285	Ea	880.46
10149286	Ea	939.02
10149287	Ea	634.45
10149288	Ea	641.41
10149289	Ea	894.31
10149290	Ea	901.33
10149305	Ea	672.14
10149306	Ea	679.10
10149307	Ea	932.00
10149308	Ea	939.02
10149309	Ea	634.45
10149310	Ea	641.41
10149311	Ea	846.81
10149312	Ea	901.33
10149327	Ea	673.06
10149328	Ea	645.50
10149329	Ea	933.82
10149330	Ea	940.76
10149331	Ea	605.14
10149332	Ea	643.23
10149333	Ea	896.13
10149334	Ea	897.55
10149427	Ea	61.87
10149445	Ea	568.05
10149560	Ea	4.56
10149678	Ea	408.82
10149701	Ea	72.52
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10150143	Ea	605.99
10150144	Ea	605.99
10150145	Ea	611.40
10150146	Ea	611.40
10150147	Ea	605.99
10150148	Ea	605.99
10150149	Ea	611.40
10150150	Ea	611.40
10150151	Ea	616.81
10150152	Ea	616.81
10150153	Ea	622.22
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10150155	Ea	573.52
10150156	Ea	573.52
10150157	Ea	578.93
10150158	Ea	590.72
10150159	Ea	573.52
10150160	Ea	573.52
10150161	Ea	578.93
10150162	Ea	578.93
10150199	Ea	21.90
10150200	Ea	21.90
10150221	Ea	21.90
10150222	Ea	21.90
10150223	Ea	21.90
10150257	Ea	37.37
10150400	Ea	37.43
10150411	Ea	37.43
10150412	Ea	37.43
10150413	Ea	902.96
10150414	Ea	982.46
10150415	Ea	1,088.09
10150416	Ea	772.79
10150417	Ea	588.29
10150418	Ea	838.22
10150419	Ea	626.96
10150420	Ea	712.15
10150421	Ea	742.81
10150422	Ea	806.41
10150423	Ea	1,039.25
10150424	Ea	1,130.12
10150453	Ea	413.68
10150454	Ea	413.68
10150455	Ea	413.68
10150456	Ea	413.68
10150457	Ea	413.68
10150458	Ea	413.68
10150477	Ea	125.51
10150478	Ea	191.00
10150483	Ea	215.12
10150484	Ea	193.05
10150488	Ea	70.20
10150489	Ea	75.92
10150490	Ea	94.64
10150491	Ea	103.48
10150529	Ea	16.70
10150595	Ea	781.00
10150596	Ea	781.00
10150597	Ea	798.00
10150598	Ea	798.00
10150599	Ea	792.00
10150600	Ea	452.00
10150606	Ea	781.00
10150607	Ea	452.00
10150608	Ea	360.00
10150609	Ea	424.00
10150610	Ea	365.00
10150611	Ea	924.00
10150612	Ea	924.00
10150613	Ea	924.00
10150614	Ea	924.00
10150615	Ea	983.00
10150616	Ea	492.00
10150617	Ea	798.00
10150618	Ea	781.00
10150619	Ea	781.00
10150620	Ea	781.00
10150621	Ea	781.00
10150622	Ea	781.00
10150836	Ea	517.13
10151021	Ea	41.00
10151098	Ea	38.00
10151154	Ea	383.89
10151233	Ea	1,229.00
10151234	Ea	1,379.00
10151589	Ea	193.62
10151722	Ea	33.00
10151873	Ea	321.80
10151956	Ea	321.80
10152019	Ea	649.23
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NUMBER		PRICE
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10152601	Ea	679.00
10152602	Ea	460.00
10152603	Ea	333.00
10152604	Ea	420.00
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10169193	Ea	61.18
10169354	Ea	714.79
10169369	Ea	116.30
10169404	Ea	361.18
10169497	Ea	556.50
10169585	Ea	1.08
10169710	Ea	5,946.15
10169711	Ea	5,315.10
10169712	Ea	4,621.05
10169713	Ea	4,621.05
10169714	Ea	4,264.05
10169715	Ea	4,264.05
10169716	Ea	4,070.85
10169717	Ea	4,070.85
10169799	Ea	373.59
10169979	Ea	921.92
10169980	Ea	837.07
10170124	Ea	164.86
10170236	Bag	191.30
10170237	Bag	208.18
10170238	Bag	191.30
10170239	Bag	208.18
10170240	Bag	213.80
10170241	Bag	230.68
10170242	Bag	213.80
10170243	Bag	230.68
10170608	Ea	680.69
10170611	Ea	680.69
10170614	Ea	687.62
10170615	Ea	687.62
10170778	Ea	5.79
10170779	Ea	5.79
10171103	Ea	89.75
10171104	Ea	70.50
10171105	Ea	99.21
10171106	Ea	92.79
10171107	Ea	70.50
10171212	Ea	18.90
10171493	Ea	106.14
10171494	Ea	136.76
10171497	Ea	165.78
10171498	Ea	222.17
10171500	Ea	278.58
10171711	Ea	624.98
10171793	Bag	74.00
10171970	Ea	428.87
10172011	Ea	699.79
10172149	Ea	1,737.31
10172168	Bag	64.77
10172204	Ea	1,048.79

NUMBER		PRICE
10172736	Ea	5,681.00
10172739	Ea	93.54
10172740	Ea	93.54
10172742	Ea	5,723.00
10172751	Ea	140.32
10172755	Ea	116.93
10172756	Ea	116.93
10172885	Ea	31.89
10172915	Ea	364.23
10172916	Ea	378.71
10172917	Ea	378.71
10172918	Ea	384.28
10172919	Ea	384.28
10172920	Ea	384.28
10172927	Ea	300.50
10172928	Ea	300.50
10172929	Ea	305.96
10172930	Ea	305.96
10172931	Ea	384.28
10172932	Ea	389.84
10172933	Ea	389.84
10172945	Ea	355.13
10172946	Ea	360.60
10172947	Ea	360.60
10172948	Ea	444.42
10172949	Ea	444.42
10172950	Ea	449.99
10172951	Ea	322.36
10172952	Ea	322.36
10172953	Ea	327.82
10172954	Ea	327.82
10172955	Ea	322.36
10172956	Ea	322.36
10172957	Ea	327.82
10172958	Ea	327.82
10172959	Ea	355.13
10172961	Ea	445.54
10172962	Ea	462.25
10172963	Ea	462.25
10172964	Ea	467.81
10172965	Ea	467.81
10172966	Ea	467.81
10172967	Ea	467.81
10172968	Ea	473.39
10172969	Ea	473.39
10172970	Ea	507.52
10172971	Ea	478.95
10172972	Ea	484.53
10172973	Ea	484.53
10172984	Ea	109.17
10173089	Ea	1,839.89
10173098	Ea	635.75
10173101	Ea	2,016.50
10173102	Ea	1,903.05
10173103	Ea	1,822.34
10173104	Ea	1,946.32
10173105	Ea	1,994.29
10173106	Ea	94.38
10173122	Ea	21.05
10173123	Ea	53.19
10173133	Ea	214.53
10173134	Ea	214.53
10173135	Ea	219.05
10173136	Ea	219.05
10174588	Ea	5,652.80
10174589	Ea	4,012.00
10174769	Ea	131.96
10174770	Ea	1,319.63
10174773	Kit	3,068.00
10174774	Ea	547.61
10174867	Ea	413.71
10174868	Ea	413.71
10175107	Ea	1,073.04
10175108	Ea	1,073.04
10175109	Ea	1,073.04
10175334	Ea	87.85
10175436	Kit	339.00
10175607	Ea	64.47
10175610	Ea	76.34
10175626	Ea	1,320.78
10175627	Ea	1,155.56
10175706	Ea	1,531.92
10175707	Ea	1,274.00
10175708	Ea	1,654.64
10175709	Ea	1,654.64
10175710	Ea	2,034.24
10175711	Ea	1,628.64
10175712	Ea	1,379.04
10175713	Ea	1,776.32
10175714	Ea	1,776.32
10175715	Ea	2,078.96
10175878	Ea	1,049.19
10175879	Ea	1,139.26
10175880	Ea	109.34
10175881	Ea	54.67
10175882	Ea	54.67
10175883	Ea	54.67
10175884	Ea	54.67
10175885	Ea	54.67
10176023	Ea	134.24
10176101	Ea	434.56
10176280	Ea	1,995.00
10176307	Ea	1,022.33
10176308	Ea	1,022.33
10176309	Ea	1,038.24
10176310	Ea	1,038.24
10176311	Ea	1,957.00
10176312	Ea	1,957.00
10176313	Ea	2,021.76
10176450	Ea	584.73
10176577	Ea	1,202.58
10176578	Ea	1,202.58
10176739	Ea	18.01
10176844	Ea	47.96
10177017	Ea	229.85
10177018	Ea	446.63
10177019	Ea	67.56
10177020	Ea	154.75
10177021	Ea	54.27
10177022	Ea	14.15
10177023	Ea	13.00
10177024	Ea	31.86
10177056	Ea	2.79
10177136	Ea	1,981.01
10177172	Ea	198.56
10177173	Ea	198.56
10177246	Ea	64.88
10177279	Ea	427.91
10177303	Ea	427.91
10177418	Ea	110.68
10177485	Ea	4,597.16
10177581	Pkg	27.63
10177582	Pkg	218.80
10177646	Ea	9.94
10177647	Ea	8.78
10177648	Ea	11.56
10177649	Ea	11.88
10177650	Ea	11.88
10177661	Ea	11.88
10177662	Ea	18.18
10177663	Ea	14.14
10177664	Ea	14.14
10177665	Ea	17.93
10177666	Ea	14.14
10177667	Ea	17.17
10177752	Ea	58.47
10177753	Ea	79.51
10177767	Ea	44.00
10177768	Ea	44.00
10177769	Ea	44.00
10177770	Ea	44.00
10177771	Ea	44.00
10177856	Pkg	26.00
10178254	Ea	36.26
10178356	Ea	1,840.00
10178357	Ea	2,341.00
10178358	Ea	2,341.00
10178360	Ea	41.00
10178361	Ea	44.00
10178557	Ea	1,217.00
10178558	Ea	1,238.00
10178559	Ea	1,009.00
10178560	Ea	1,217.00
10178566	Ea	1,167.00
10178567	Ea	1,190.00
10178568	Ea	986.00
10178571	Ea	1,238.00
10178572	Ea	1,217.00
10178750	Ea	430.94
10178781	Ea	630.45
10178938	Ea	61.31
10179265	Ea	49.00
10179330	Ea	1,279.00
10179435	Ea	129.41
10179515	Ea	21.05
10179551	Ea	39.57
10179858	Ea	1,689.55
10180070	Ea	3.53
10180117	Ea	3,761.56
10181628	Ea	1,612.00
10181629	Ea	1,905.28
10181630	Ea	2,108.08
10181708	Ea	1,566.09
10181709	Ea	1,851.03
10181710	Ea	2,048.13
10181892	Ea	3,172.68
10181893	Ea	3,172.68
10181894	Ea	3,862.55
10181895	Ea	3,862.55
10181897	Ea	3,049.50
10181898	Ea	3,611.25
10181899	Ea	3,156.50
10181900	Ea	3,477.50
10181901	Ea	1,872.68
10181903	Ea	3,862.55
10181904	Ea	3,862.55
10181906	Ea	631.26
10181927	Ea	207.08
10181928	Ea	207.08
10182229	Ea	325.58
10182232	Ea	325.58
10182233	Ea	325.58
10182333	Ea	87.18
10182334	Ea	48.63
10182335	Ea	27.31
10182336	Ea	20.99
10182337	Ea	16.93
10182338	Ea	22.44
10182339	Ea	17.57
10182340	Ea	22.76
10182341	Ea	20.24
10182342	Ea	74.11
10182343	Ea	53.22
10182344	Ea	165.57
10182345	Ea	22.28
10182346	Ea	46.48
10182347	Ea	13.82
10182348	Ea	44.34
10182349	Ea	19.92
10182350	Ea	28.86
10182351	Ea	67.68
10182352	Ea	38.77
10182353	Ea	203.60
10182354	Ea	138.69
10182355	Ea	38.56
10182612	Ea	8,122.40
10182761	Ea	55.65
10183005	Ea	1,358.88
10183006	Ea	763.78
10183007	Ea	1,159.45
10183008	Ea	1,504.21
10183009	Ea	1,504.21
10183010	Ea	1,850.04
10183015	Ea	1,380.10
10183016	Ea	784.99
10183017	Ea	1,180.67
10183018	Ea	1,525.43
10183019	Ea	1,525.43
10183020	Ea	1,871.25
10183025	Ea	1,411.92
10183026	Ea	816.82
10183027	Ea	1,212.49
10183028	Ea	1,557.25
10183029	Ea	1,557.25

NUMBER	PRICE	NUMBER	PRICE	NUMBER	PRICE	NUMBER	PRICE
10183030	Ea 1,903.08	10184406	Ea 410.73	10185721	Ea 270.29	10186886	Ea 10,133.76
10183035	Ea 1,433.14	10184407	Ea 410.73	10185722	Ea 280.79	10186887	Ea 4,737.00
10183036	Ea 838.03	10184408	Ea 410.73	10185723	Ea 401.59	10186888	Ea 3,773.00
10183037	Ea 1,233.71	10184409	Ea 64.00	10185724	Ea 419.09	10186889	Ea 8,166.08
10183038	Ea 1,578.47	10184495	Ea 1,622.78	10185787	Ea 717.00	10186890	Ea 461.84
10183039	Ea 1,578.47	10184496	Ea 1,363.64	10185788	Ea 791.87	10186936	Ea 1,378.00
10183040	Ea 1,924.29	10184531	Ea 10,485.28	10185789	Ea 1,561.74	10186941	Ea 3,730.00
10183045	Ea 1,441.63	10184532	Ea 7,495.28	10185790	Ea 788.82	10186943	Ea 2,864.26
10183046	Ea 813.63	10184533	Ea 7,495.28	10185960	Ea 2,296.78	10186944	Ea 8,899.28
10183047	Ea 1,209.31	10184534	Ea 7,970.56	10185987	Ea 43.00	10186945	Ea 9,100.00
10183048	Ea 1,555.13	10184535	Ea 8,398.00	10185988	Ea 43.00	10186946	Ea 1,414.00
10183049	Ea 1,555.13	10184536	Ea 6,665.61	10186041	Ea 3,912.00	10186961	Ea 3,670.00
10183050	Ea 1,899.89	10184540	Ea 8,623.68	10186042	Ea 3,916.00	10187021	Ea 3,813.00
10183055	Ea 1,462.84	10184549	Ea 3,730.00	10186043	Ea 9,618.96	10187090	Ea 5.84
10183056	Ea 834.85	10184550	Ea 4,841.00	10186044	Ea 7,738.64	10187106	Ea 1,160.91
10183057	Ea 1,230.53	10184571	Ea 75.35	10186096	Ea 4,081.00	10187108	Ea 333.51
10183058	Ea 1,576.35	10184573	Ea 75.35	10186214	Ea 618.59	10187115	Ea 48.71
10183059	Ea 1,576.35	10184608	Ea 118.15	10186221	Ea 1,381.00	10187116	Ea 85.65
10183060	Ea 1,921.11	10184609	Ea 118.14	10186223	Ea 3,229.61	10187118	Ea 61.33
10183066	Ea 866.67	10184610	Ea 118.14	10186298	Ea 7.12	10187119	Ea 52.20
10183067	Ea 1,262.35	10184611	Ea 118.14	10186311	Ea 102.37	10187161	Ea 18.02
10183068	Ea 1,608.17	10184716	Ea 496.45	10186401	Ea 8,842.08	10187162	Ea 15.96
10183069	Ea 1,608.17	10184717	Ea 8,965.84	10186407	Ea 4,370.00	10187163	Ea 10.10
10183070	Ea 1,952.93	10184718	Ea 8,965.84	10186477	Ea 103.69	10187200	Ea 4,646.00
10183075	Ea 1,515.88	10184719	Ea 9,484.80	10186478	Ea 103.69	10187201	Ea 433.57
10183076	Ea 887.89	10184720	Ea 9,484.80	10186479	Ea 103.69	10187202	Ea 433.57
10183077	Ea 1,283.57	10184763	Ea 3,736.00	10186480	Ea 103.69	10187251	Ea 9.09
10183078	Ea 1,629.39	10184766	Ea 4,378.62	10186481	Ea 103.69	10187271	Ea 3,501.00
10183079	Ea 1,629.39	10184770	Ea 3,412.00	10186482	Ea 103.69	10187272	Ea 3,412.00
10183080	Ea 1,974.15	10184792	Ea 1,359.00	10186483	Ea 103.69	10187273	Ea 2,648.00
10183271	Ea 443.04	10184793	Ea 1,194.00	10186484	Ea 103.69	10187274	Ea 3,386.00
10183272	Ea 385.03	10184794	Ea 1,381.00	10186485	Ea 103.69	10187385	Ea 8,746.72
10183273	Ea 398.27	10184795	Ea 1,189.00	10186486	Ea 103.69	10187461	Ea 4,967.00
10183275	Ea 5,728.00	10184923	Ea 1,238.00	10186487	Ea 103.69	10187483	Ea 7,370.48
10183276	Ea 2,769.00	10184924	Ea 1,381.00	10186488	Ea 103.69	10187531	Ea 3,267.00
10183277	Ea 4,814.00	10184925	Ea 1,359.00	10186489	Ea 147.34	10187641	Ea 54.96
10183629	Ea 2,687.00	10184969	Ea 1,349.00	10186490	Ea 147.34	10187643	Ea 54.96
10183634	Ea 17.88	10185019	Ea 77.00	10186491	Ea 144.51	10187644	Ea 54.96
10183914	Ea 2,090.00	10185067	Ea 18.72	10186492	Ea 144.51	10187645	Ea 54.96
10183921	Ea 5,497.00	10185115	Ea 209.10	10186493	Ea 144.51	10187646	Ea 54.96
10183929	Ea 4,396.00	10185197	Ea 366.03	10186494	Ea 144.51	10187647	Ea 54.96
10183930	Ea 5,187.00	10185198	Ea 300.42	10186495	Ea 202.00	10187648	Ea 54.96
10183992	Ea 75.35	10185268	Ea 148.54	10186496	Ea 252.50	10187649	Ea 54.96
10183993	Ea 75.35	10185291	Ea 541.97	10186497	Ea 262.60	10187650	Ea 54.96
10183994	Ea 75.35	10185364	Ea 3,617.00	10186552	Ea 53.80	10187651	Ea 54.96
10183995	Ea 75.35	10185365	Ea 4,302.46	10186657	Ea 4,416.00	10187685	Ea 152.04
10184174	Ea 2,163.38	10185366	Ea 2,128.71	10186658	Ea 4,203.00	10187686	Ea 146.41
10184175	Ea 2,934.91	10185367	Ea 2,125.40	10186659	Ea 4,662.00	10187688	Ea 150.63
10184176	Ea 2,620.32	10185368	Ea 2,236.96	10186661	Ea 55.95	10187689	Ea 144.89
10184177	Ea 64.00	10185369	Ea 2,541.30	10186703	Ea 4,439.33	10187690	Ea 183.74
10184178	Ea 8,046.48	10185472	Ea 279.00	10186705	Ea 7,192.64	10187742	Ea 7,571.20
10184180	Ea 10,285.60	10185508	Ea 1,547.16	10186707	Ea 3,305.77	10187744	Ea 7,219.68
10184221	Ea 2,791.00	10185509	Ea 1,831.24	10186728	Ea 3,092.00	10187745	Ea 7,446.40
10184230	Ea 2,121.43	10185510	Ea 2,064.40	10186758	Ea 191.37	10187751	Ea 4,321.22
10184316	Ea 497.18	10185512	Ea 3,270.00	10186793	Ea 119.92	10187754	Ea 38.04
10184317	Ea 1,007.80	10185601	Ea 2,194.66	10186794	Ea 122.06	10187796	Ea 4,871.00
10184318	Ea 479.26	10185602	Ea 1,573.37	10186795	Ea 51.92	10187797	Ea 8,051.68
10184319	Ea 479.26	10185603	Ea 1,857.46	10186796	Ea 79.79	10187964	Ea 3,024.00
10184352	Ea 116.24	10185604	Ea 2,051.95	10186882	Ea 10,010.00	10187965	Ea 5,200.00
10184404	Ea 3,730.00	10185605	Ea 2,219.31	10186883	Ea 9,457.76	10187966	Ea 3,643.00
10184405	Ea 410.73	10185708	Ea 8,850.40	10186884	Ea 9,658.48	10187972	Ea 814.00

NUMBER	PRICE
10188003	Ea 18.14
10188004	Ea 18.14
10188065	Ea 11,706.65
10188066	Ea 11,294.39
10188067	Ea 8,295.04
10188095	Ea 180.37
10188100	Ea 56.10
10188101	Ea 116.28
10188102	Ea 75.48
10188103	Ea 78.54
10188263	Ea 2,252.94
10188315	Ea 424.75
10188387	Ea 12.00
10188434	Ea 2,088.80
10188448	Ea 52.08
10188449	Ea 15.50
10188450	Ea 15.39
10188463	Ea 282.21
10188464	Ea 246.17
10188470	Ea 406.05
10188471	Ea 407.51
10188472	Ea 430.40
10188474	Ea 430.75
10188475	Ea 432.20
10188477	Ea 747.04
10188478	Ea 510.93
10188479	Ea 512.39
10188480	Ea 650.85
10188481	Ea 652.31
10188482	Ea 538.41
10188483	Ea 539.87
10188484	Ea 467.34
10188485	Ea 468.81
10188486	Ea 491.75
10188487	Ea 493.21
10188488	Ea 492.04
10188489	Ea 493.51
10188490	Ea 806.87
10188491	Ea 808.34
10188492	Ea 572.27
10188493	Ea 573.74
10188494	Ea 712.14
10188496	Ea 599.75
10188497	Ea 601.22
10188499	Ea 26.28
10188501	Ea 32.76
10188503	Ea 18.46
10188504	Ea 20.07
10188505	Ea 139.17
10188506	Ea 162.14
10188507	Ea 162.47
10188508	Ea 458.82
10188509	Ea 237.96
10188510	Ea 369.64
10188511	Ea 263.82
10188512	Ea 98.93
10188513	Ea 98.93
10188514	Ea 20.73
10188515	Ea 35.11
10188516	Ea 34.70
10188517	Ea 17.46
10188518	Ea 14.01
10188519	Ea 21.00
10188523	Ea 18.36
10188527	Ea 281.19
10188529	Ea 285.88
10188530	Ea 274.37
10188538	Ea 516.65
10188539	Ea 509.66
10188540	Ea 1,572.98
10188611	Ea 1,565.07
10188612	Ea 152.90
10188613	Ea 152.90
10188614	Ea 152.90
10188615	Ea 152.90
10188623	Ea 21.10
10188624	Ea 17.46
10188625	Ea 36.10
10188626	Ea 20.03
10188628	Ea 34.06
10188632	Ea 17.14
10188635	Ea 96.82
10188636	Ea 96.82
10188640	Ea 96.82
10188641	Ea 96.82
10188642	Ea 113.53
10188643	Ea 185.49
10188662	Ea 4,637.00
10188686	Ea 100.98
10188687	Ea 100.98
10188833	Ea 275.98
10188838	Ea 270.00
10188867	Ea 87.31
10188940	Ea 461.04
10188951	Ea 461.04
10188954	Ea 440.23
10188955	Ea 440.23
10188956	Ea 440.23
10189035	Ea 4.28
10189044	Ea 38.42
10189100	Ea 8,122.40
10189173	Ea 54.96
10189174	Ea 54.96
10189175	Ea 54.96
10189176	Ea 54.96
10189177	Ea 54.96
10189178	Ea 54.96
10189179	Ea 54.96
10189180	Ea 54.96
10189181	Ea 54.96
10189182	Ea 54.96
10189241	Ea 37.31
10189322	Ea 34.31
10189323	Ea 34.31
10189546	Ea 2,592.00
10189769	Ea 3,246.00
10189797	Ea 2,395.00
10189839	Ea 491.02
10189902	Ea 11,261.66
10190085	Ea 3,562.00
10190086	Ea 3,356.00
10190103	Ea 54.96
10190104	Ea 54.96
10190105	Ea 54.96
10190106	Ea 54.96
10190107	Ea 54.96
10190108	Ea 54.96
10190109	Ea 54.96
10190110	Ea 54.96
10190111	Ea 54.96
10190112	Ea 54.96
10190246	Ea 102.33
10190248	Ea 24.63
10190397	Ea 56.10
10190398	Ea 78.54
10190399	Ea 75.48
10190400	Ea 116.28
10190422	Ea 2,521.94
10190423	Ea 2,351.32
10190452	Ea 522.26
10190471	Ea 3,826.09
10190472	Ea 4,253.72
10190509	Ea 17.46
10190520	Ea 492.12
10190521	Ea 614.65
10190522	Ea 469.10
10190523	Ea 493.63
10190524	Ea 616.15
10190525	Ea 470.70
10190526	Ea 427.76
10190527	Ea 550.28
10190528	Ea 404.73
10190529	Ea 429.26
10190530	Ea 551.78
10190531	Ea 406.34
10190532	Ea 216.55
10190533	Ea 94.04
10190534	Ea 71.12
10190731	Ea 2,504.60
10190732	Ea 7,058.80
10190950	Ea 1,178.09
10191070	Ea 430.72
10191385	Ea 19.44
10191404	Ea 18.95
10191617	Ea 12.59
10191618	Ea 12.59
10191664	Ea 24.85
10191755	Ea 56.10
10191756	Ea 90.78
10191757	Ea 78.54
10191758	Ea 116.28
10191800	Ea 1,193.97
10191801	Ea 1,246.66
10191802	Ea 1,248.00
10191803	Ea 1,281.10
10191804	Ea 1,449.12
10191805	Ea 1,499.16
10191806	Ea 1,622.40
10191807	Ea 1,506.37
10191808	Ea 1,976.00
10191809	Ea 1,663.15
10191810	Ea 1,441.94
10191811	Ea 1,491.97
10191812	Ea 1,681.01
10191813	Ea 1,731.06
10191814	Ea 1,900.85
10191815	Ea 1,950.89
10191816	Ea 2,058.59
10191817	Ea 2,108.63
10191836	Ea 1,221.37
10191837	Ea 1,274.05
10191838	Ea 1,258.45
10191839	Ea 1,308.49
10191840	Ea 1,476.51
10191841	Ea 1,526.55
10191842	Ea 1,483.72
10191843	Ea 1,533.76
10191844	Ea 1,640.50
10191845	Ea 1,690.53
10191846	Ea 1,469.32
10191847	Ea 1,519.37
10191848	Ea 1,708.41
10191849	Ea 1,758.45
10191850	Ea 1,928.24
10191851	Ea 1,978.29
10191852	Ea 2,085.98
10191853	Ea 2,136.01
10192006	Ea 479.45
10192009	Ea 759.97
10192012	Ea 438.64
10192015	Ea 714.07
10192022	Ea 479.45
10192025	Ea 759.97
10192032	Ea 448.84
10192035	Ea 749.77
10192039	Ea 448.84
10192042	Ea 749.77
10192048	Ea 448.84
10192051	Ea 749.77
10192359	Ea 65.75
10192360	Ea 168.41
10192464	Ea 4,758.60
10192465	Ea 4,755.45
10192466	Ea 3,676.05
10192467	Ea 3,672.90
10192468	Ea 3,311.70
10192469	Ea 3,308.55
10192470	Ea 3,114.30
10192471	Ea 3,111.15
10192472	Ea 4,757.55
10192473	Ea 4,754.40
10192516	Ea 722.15
10192519	Ea 420.92
10192531	Ea 74.92
10192670	Ea 10,447.41
10192681	Ea 10,571.74
10192682	Ea 3,742.09
10192832	Ea 2,000.52
10192833	Ea 1,768.98
10192834	Ea 1,495.52
10192835	Ea 1,568.78
10192919	Ea 11,717.50
10192925	Ea 25.20
10193039	Ea 384.95

NUMBER		PRICE
10193124	Ea	58.91
10193125	Ea	58.91
10193126	Ea	58.91
10193127	Ea	58.91
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10193129	Ea	109.24
10193130	Ea	65.97
10193151	Ea	95.32
10193154	Ea	40.06
10193162	Ea	619.04
10193163	Ea	405.76
10193164	Ea	384.95
10193165	Ea	619.04
10193166	Ea	405.76
10193176	Ea	64.00
10193232	Ea	57.98
10193235	Ea	139.69
10193466	Ea	202.35
10193494	Ea	68.25
10193495	Ea	79.80
10193553	Ea	126.38
10193554	Ea	109.24
10193555	Ea	214.20
10193560	Ea	117.88
10193731	Pkg	58.00
10193748	Ea	86.30
10193941	Ea	171.46
10193943	Ea	117.88
10194009	Ea	1,163.00
10194141	Ea	70.76
10194143	Ea	67.48
10194150	Ea	256.79
10194253	Ea	334.53
10194256	Ea	317.52
10194257	Ea	317.52
10194379	Ea	432.76
10194380	Ea	431.56
10194381	Ea	433.31
10194411	Ea	164.32
10194460	Ea	243.60
10194481	Ea	196.35
10194489	Ea	630.00
10194536	Ea	304.98
10194547	Ea	16.40
10194548	Ea	15.76
10194630	Ea	304.98
10194638	Ea	56.48
10194639	Ea	31.93
10194640	Ea	29.30
10194651	Ea	49.48
10194652	Ea	20.20
10194653	Ea	20.20
10194671	Ea	304.98
10194672	Ea	304.98
10194742	Ea	44.68
10194743	Ea	44.68
10194744	Ea	44.68
10194745	Ea	44.68
10194746	Ea	44.68
10194747	Ea	44.68
10194748	Ea	44.68
10194749	Ea	44.68
10194750	Ea	44.68
10194751	Ea	44.68
10194752	Ea	44.68
10194753	Ea	44.68
10194754	Ea	44.68
10194755	Ea	44.68
10194769	Ea	44.68
10194770	Ea	44.68
10194771	Ea	44.68
10194772	Ea	44.68
10194773	Ea	44.68
10194774	Ea	44.68
10194775	Ea	44.68
10194776	Ea	44.68
10194777	Ea	44.68
10194778	Ea	44.68
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10194792	Ea	130.00
10194793	Ea	130.00
10194794	Ea	130.00
10194795	Ea	130.00
10194796	Ea	130.00
10194797	Ea	130.00
10194798	Ea	130.00
10194811	Ea	44.68
10194812	Ea	44.68
10194813	Ea	44.68
10194814	Ea	44.68
10194857	Ea	9,870.03
10194858	Ea	7,300.17
10194872	Ea	317.22
10194873	Ea	317.22
10194874	Ea	317.22
10194875	Ea	317.22
10194880	Ea	323.44
10194881	Ea	323.44
10194882	Ea	323.44
10194883	Ea	323.44
10194884	Ea	335.92
10194885	Ea	335.92
10194886	Ea	335.92
10194887	Ea	335.92
10194888	Ea	310.96
10194889	Ea	304.98
10194890	Ea	304.98
10194891	Ea	304.98
10194908	Ea	323.44
10194909	Ea	317.22
10194910	Ea	317.22
10194911	Ea	139.00
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10194938	Ea	323.44
10194939	Ea	323.44
10194940	Ea	335.92
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10194970	Ea	352.92
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10194972	Ea	365.16
10194973	Ea	365.16
10194974	Ea	365.16
10194975	Ea	365.16
10194976	Ea	340.68
10194977	Ea	340.68
10194978	Ea	340.68
10194979	Ea	340.68
10195019	Ea	359.84
10195020	Ea	359.84
10195021	Ea	359.84
10195022	Ea	359.84
10195027	Ea	359.84
10195028	Ea	359.84
10195029	Ea	359.84
10195030	Ea	359.84
10195032	Ea	372.32
10195033	Ea	365.16
10195035	Ea	372.32
10195036	Ea	372.32
10195037	Ea	279.76
10195038	Ea	274.38
10195039	Ea	274.38
10195040	Ea	279.76
10195063	Ea	292.24
10195065	Ea	292.24
10195066	Ea	292.24
10195067	Ea	292.24
10195073	Ea	292.24
10195074	Ea	292.24
10195075	Ea	292.24
10195076	Ea	292.24
10195077	Ea	304.72
10195078	Ea	304.72
10195079	Ea	304.72
10195080	Ea	304.72
10195091	Ea	274.38
10195092	Ea	279.76
10195093	Ea	274.38
10195094	Ea	279.76
10195109	Ea	292.24
10195110	Ea	286.62
10195111	Ea	286.62
10195112	Ea	292.24
10195117	Ea	292.24
10195118	Ea	292.24
10195119	Ea	292.24
10195120	Ea	292.24
10195121	Ea	304.72
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10195123	Ea	304.72
10195124	Ea	304.72
10195133	Ea	414.96
10195134	Ea	406.98
10195135	Ea	406.98
10195136	Ea	414.96
10195137	Ea	427.44
10195138	Ea	427.44
10195139	Ea	427.44
10195148	Ea	406.98
10195149	Ea	406.98
10195150	Ea	406.98
10195151	Ea	406.98
10195152	Ea	427.44
10195153	Ea	427.44
10195154	Ea	427.44
10195155	Ea	427.44
10195164	Ea	451.36
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10195166	Ea	451.36
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10195169	Ea	463.84
10195170	Ea	463.84
10195171	Ea	463.84
10195180	Ea	451.36
10195181	Ea	451.36
10195182	Ea	451.36
10195183	Ea	451.36
10195184	Ea	463.84
10195185	Ea	463.84
10195186	Ea	463.84
10195187	Ea	463.84
10195302	Ea	60.89
10195455	Ea	454.00
10195676	Ea	8,726.17
10196069	Ea	454.00
10196070	Ea	454.00
10196081	Ea	454.00
10196082	Ea	454.00
10196083	Ea	454.00
10196084	Ea	454.00
10196085	Ea	454.00
10196111	Ea	7.49
10196640	Ea	15.30
10196642	Ea	61.71
10196651	Ea	30.60
10196702	Ea	61.71
10197024	Ea	8,323.12

NUMBER		PRICE
10197025	Ea	7,371.52
10197160	Ea	62.83
10197178	Ea	3,797.57
10197179	Ea	4,248.56
10197180	Ea	2,803.44
10197181	Ea	3,254.44
10197182	Ea	2,375.02
10197183	Ea	2,826.02
10197184	Ea	2,159.20
10197185	Ea	2,610.21
10197195	Ea	48.25
10197196	Ea	48.25
10197197	Ea	49.37
10197198	Ea	49.37
10197199	Ea	58.34
10197200	Ea	58.34
10197201	Ea	62.83
10197202	Ea	89.76
10197203	Ea	89.76
10197204	Ea	90.88
10197205	Ea	90.88
10197206	Ea	93.13
10197207	Ea	93.13
10197208	Ea	94.25
10197209	Ea	94.25
10197210	Ea	105.37
10197211	Ea	105.37
10197212	Ea	106.95
10197213	Ea	106.95
10197214	Ea	70.69
10197215	Ea	70.69
10197216	Ea	71.81
10197217	Ea	71.81
10197218	Ea	90.14
10197219	Ea	90.14
10197220	Ea	91.49
10197221	Ea	91.49
10197231	Ea	59.47
10197232	Ea	59.47
10197233	Ea	115.57
10197234	Ea	115.57
10197235	Ea	117.88
10197236	Ea	117.88
10197237	Ea	131.27
10197238	Ea	131.27
10197239	Ea	133.24
10197240	Ea	133.24
10197255	Ea	104.34
10197256	Ea	636.98
10197257	Ea	791.94
10197258	Ea	1,007.76
10197259	Ea	1,193.24
10197260	Ea	1,409.06
10197276	Ea	31.97
10197281	Ea	445.71
10197282	Ea	56.18
10197283	Ea	348.39
10197284	Ea	135.42
10197285	Ea	67.32
10197286	Ea	66.52
10197287	Ea	116.91
10197288	Ea	15.48
10197363	Ea	143.62
10197364	Ea	143.62
10197365	Ea	144.74
10197366	Ea	144.74
10197379	Ea	82.11
10197380	Ea	83.23
10197431	Ea	60.49
10197432	Ea	60.49
10197433	Ea	61.71
10197434	Ea	61.71
10197435	Ea	71.40
10197436	Ea	71.40
10197437	Ea	72.93
10197438	Ea	72.93
10197607	Ea	420.00
10197678	Ea	420.00
10197679	Ea	329.00
10197793	Ea	82.11
10197794	Ea	83.23
10197862	Ea	64.56
10198291	Ea	35,360.00
10198584	Ea	9,488.13
10198585	Ea	11,195.97
10198586	Ea	9,099.30
10198587	Ea	8,781.73
10198588	Ea	8,606.35
10198589	Ea	10,909.25
10199011	Ea	178.50
10199013	Ea	229.50
10199016	Ea	198.90
10199017	Ea	71.40
10199018	Ea	71.40
10199019	Ea	71.40
10199053	Ea	224.40
10199054	Ea	306.00
10199055	Ea	244.80
10199056	Ea	346.80
10199061	Ea	110.00
10199062	Ea	145.00
10199063	Ea	150.00
10199064	Ea	220.00
10199142	Ea	241.50
10199344	Kit	77.04
10199485	Ea	176.40
10199486	Ea	176.40
10199487	Ea	73.50
10199488	Ea	99.75
10199489	Ea	99.75
10199490	Ea	200.55
10199491	Ea	171.15
10199492	Ea	133.35
10201054	Ea	101.34
10201353	Ea	219.30
10201354	Ea	178.50
10201355	Ea	229.50
10201356	Ea	198.90
10201452	Ea	98.94
10201453	Ea	64.26
10201454	Ea	56.10
10201455	Ea	81.60
10201456	Ea	56.10
10201457	Ea	85.68
10201581	Ea	46.68
10201582	Ea	154.96
10201633	Ea	96.19
10201635	Ea	96.19
10201636	Ea	97.31
10201637	Ea	97.31
10201927	Ea	459.00
10201945	Ea	25.20
10202377	Ea	12,764.24
10202378	Ea	10,638.18
10202458	Ea	351.75
10202459	Ea	259.35
10202834	Ea	56.10
10203081	Ea	18.01
10203082	Ea	18.01
10203083	Ea	18.01
10203084	Ea	18.01
10203085	Ea	18.01
10203086	Ea	18.01
10203087	Ea	18.01
10203088	Ea	18.01
10203089	Ea	18.01
10203090	Ea	18.01
10203091	Ea	18.01
10203092	Ea	18.01
10203093	Ea	18.01
10203094	Ea	18.01
10203095	Ea	18.01
10203096	Ea	18.01
10203097	Ea	18.01
10203098	Ea	18.01
10203099	Ea	18.01
10203100	Ea	18.01
10203101	Ea	18.01
10203183	Ea	35.36
10203186	Ea	111.28
10203374	Ea	202.98
10203375	Ea	202.98
10203376	Ea	202.98
10203377	Ea	202.98
10203378	Ea	219.30
10203379	Ea	219.30
10203380	Ea	219.30
10203381	Ea	219.30
10203430	Ea	23.40
10203504	Ea	61.80
10203521	Ea	130.52
10203522	Ea	130.52
10203523	Ea	130.52
10203528	Ea	130.52
10203891	Ea	116.28
10204042	Ea	141.78
10204043	Ea	141.78
10204044	Ea	141.78
10204045	Ea	141.78
10204079	Ea	209.10
10204080	Ea	209.10
10204081	Ea	209.10
10204082	Ea	209.10
10204083	Ea	270.30
10204084	Ea	270.30
10204085	Ea	270.30
10204086	Ea	270.30
10204107	Ea	90.27
10204110	Ea	90.27
10204123	Ea	91.39
10204128	Ea	91.39
10204346	Ea	130.00
10204347	Ea	130.00
10204385	Ea	164.02
10204386	Ea	164.02
10204387	Ea	165.14
10204388	Ea	165.14
10204458	Ea	735.00
10204459	Ea	747.00
10204460	Ea	747.00
10206132	Ea	120.00
10206133	Ea	120.00
10206134	Ea	120.00
10206135	Ea	120.00
10206255	Ea	140.00
10206256	Ea	140.00
10206257	Ea	140.00
10206258	Ea	140.00
10001-00	Ea	7,292.18
10003-00	Ea	7,292.18
10003-00US	Ea	6,487.52
10004-00	Ea	3,729.60
10004-00US	Ea	3,827.64
10005-00US	Ea	285.55
10006-00	Ea	299.77
10008264-SP	Pkg	57.23
10008265-SP	Pkg	79.69
10008298-SP	Ea	443.65
10008299-SP	Ea	548.67
10010-00	Ea	5,750.46
10010-00US	Ea	5,523.31
10011754-SP	Pkg	73.59
10013-00	Ea	619.27
10014-00	Ea	250.27
10017575-SP	Pkg	33.15
10017830-SP	Pkg	42.63
10017889-SP	Ea	196.04
10021712-SP	Pkg	21.59
10022231-SP	Pkg	80.96
10026846-SP	Ea	47.43
10026847-SP	Ea	65.06
10033350-SP	Ea	827.28
10033352-SP	Ea	1,426.32
10033355-SP	Ea	1,543.12
10033357-SP	Ea	831.58
10033358-SP	Ea	1,719.93
10041631-SP	Pkg	5.00
10042420-SP	Ea	755.48
10042423-SP	Ea	847.64
10042525-SP	Pkg	22.37
10043810-SP	Ea	25.41
10052355-SP10	Pkg	56.26
10054772-SP	Ea	159.14
10061364-SP	Ea	1,113.44

NUMBER		PRICE
10061365-SP	Ea	1,209.61
10061366-SP	Ea	1,403.67
10061367-SP	Ea	1,097.07
10065044-SP	Ea	1,159.17
10066737-SP	Ea	497.23
10066738-SP	Ea	554.02
10075131-SP	Pkg	90.37
10082499-SP	Ea	29.37
10085781-SP	Ea	21.00
10089159-SP	Pkg	188.37
10089693-SP	Ea	544.37
10089694-SP	Ea	599.04
10089695-SP	Ea	843.36
10089927-SP	Ea	97.93
10090724-SP	Ea	218.68
10092158-SP	Ea	109.38
10092159-SP	Ea	139.01
10095119-SP	Pkg	16.49
10105612-SP	Ea	35.97
10105623-SP	Ea	905.00
1010DDB	Ea	506.94
1010DDC	Ea	506.94
1010DDO	Ea	506.94
1010DDR	Ea	506.94
1010DDW	Ea	506.94
1010DDY	Ea	506.94
1010DSB	Ea	438.60
1010DSC	Ea	438.60
1010DSO	Ea	438.60
1010DSR	Ea	438.60
1010DSW	Ea	438.60
1010DSY	Ea	438.60
1010FDB	Ea	516.12
1010FDR	Ea	516.12
1010FDW	Ea	516.12
1010FDY	Ea	516.12
1010FSB	Ea	447.78
1010FSC	Ea	447.78
1010FSG	Ea	447.78
1010FSO	Ea	447.78
1010FSR	Ea	447.78
1010FSW	Ea	447.78
1010FSY	Ea	447.78
1010XDB	Ea	513.40
10111032-SP	Ea	797.28
10111033-SP	Ea	890.51
10111034-SP	Ea	1,131.62
10111035-SP	Ea	1,121.98
10111036-SP	Ea	1,185.20
10111427-SP	Ea	88.48
10111428-SP	Ea	52.09
10114032-SP	Ea	202.00
10118891-SP	Pkg	44.26
10119131-SP	Ea	247.67
10119132-SP	Pkg	233.30
10119374-SP	Pkg	51.04
10119476-SP	Pkg	146.16
10119477-SP	Pkg	75.99
10119479-SP	Pkg	41.04
10119480-SP	Pkg	50.22
10119483-SP	Pkg	254.74
10119485-SP	Pkg	31.75
10119486-SP	Pkg	113.22
10119491-SP	Pkg	88.11
10119500-SP	Pkg	586.32
10119502-SP	Pkg	287.52
10119505-SP	Pkg	66.20
10119715-SP	Pkg	37.90
10119837-SP	Pkg	18.60
10119838-SP	Pkg	89.54
10119839-SP	Pkg	53.07
10119851-SP	Pkg	60.28
10119853-SP	Pkg	37.86
10119855-SP	Pkg	47.91
10119856-SP	Pkg	82.63
10119857-SP	Pkg	635.90
10119858-SP	Pkg	550.57
10119859-SP	Pkg	207.53
10119860-SP	Pkg	75.09
10119862-SP	Pkg	44.06
10119865-SP	Pkg	646.69
10119869-SP	Pkg	92.65
10119871-SP	Pkg	315.90
10120349-SP	Pkg	76.95
10120570-SP	Ea	968.00
10120601-SP	Ea	1,124.00
10120603-SP	Ea	68.00
10120606-SP	Ea	135.56
10121237-SP	Pkg	733.37
10121540-SP	Ea	106.56
10121690-SP	Ea	15.00
10121779-SP	Pkg	880.15
10124070-SP	Pkg	17.33
10124310-SP	Ea	24.00
10124333-SP	Ea	14.00
10124425-SP	Pkg	157.50
10124478-SP	Pkg	42.70
10124709-SP	Ea	27.00
10125136-SP	Ea	14.00
10125289-SP5	Pkg	19.00
10126072-SP	Ea	968.00
10126073-SP	Ea	1,124.00
10126074-SP	Ea	1,553.00
10126075-SP	Ea	1,553.00
10126076-SP	Ea	1,437.00
10126077-SP	Ea	1,604.00
10126150-SP	Pkg	50.83
10126898-SP	Ea	63.01
10127070-SP	Pkg	178.88
10127441-SP	Ea	737.37
10127944-SP	Ea	1,200.20
10127945-SP	Ea	1,550.62
10127946-SP	Ea	1,895.68
10128099-SP	Ea	1,246.29
10128100-SP	Ea	1,596.70
10128111-SP	Ea	1,941.76
10128768R	Ea	942.29
10129107-SP	Ea	192.49
10129269-SP	Ea	33.69
10129281-SP	Ea	33.69
10143456-SP	Pkg	52.00
10143457-SP	Pkg	93.41
10143458-SP	Pkg	87.73
10143459-SP	Pkg	36.70
10143462-SP	Pkg	48.37
10143463-SP	Pkg	45.44
10143465-SP	Pkg	76.79
10143467-SP	Pkg	90.71
10143468-SP	Pkg	258.85
10143469-SP	Pkg	223.35
10143470-SP	Pkg	268.50
10143471-SP	Pkg	159.36
10143473-SP	Pkg	110.30
10143482-SP	Pkg	128.58
10143489-SP	Pkg	76.38
10143491-SP	Pkg	117.39
10143492-SP	Pkg	186.38
10143495-SP	Pkg	114.58
10143497-SP	Pkg	52.76
10143498-SP	Pkg	134.23
10143499-SP	Pkg	325.77
10143500-SP	Pkg	53.94
10143503-SP	Pkg	66.93
10143504-SP	Pkg	154.59
10143506-SP	Pkg	94.17
10143507-SP	Pkg	67.44
10143508-SP	Pkg	39.00
10143509-SP	Pkg	128.63
10144177-SP	Ea	21.27
10144179-SP	Ea	1.60
10144180-SP	Ea	24.64
10144184-SP	Ea	1,329.89
10144187-SP	Ea	4.94
10144192-SP	Ea	25.76
10144193-SP	Ea	15.53
10144194-SP	Ea	181.41
10144195-SP	Ea	17.92
10144196-SP	Ea	23.51
10144197-SP	Ea	50.40
10144204-SP	Ea	24.64
10144207-SP	Ea	19.03
10144208-SP	Ea	23.51
10144209-SP	Ea	21.27
10144213-SP	Ea	22.40
10144214-SP	Ea	57.11
10144215-SP	Ea	142.22
10144215-US	Ea	156.77
10144216-SP	Ea	142.22
10144217-SP	Ea	22.40
10144219-SP	Ea	25.76
10144220-SP	Ea	49.28
10144221-SP	Ea	23.51
10144222-SP	Ea	25.76
10144231-SP	Ea	126.56
10144232-SP	Ea	22.40
10144233-SP	Ea	21.27
10144234-SP	Ea	25.76
10144235-SP	Ea	25.76
10144614-SP	Ea	818.15
10144917-SP	Ea	70.67
10144966-SP	Ea	26.74
10145738-SP	Ea	1,232.00
10145739-SP	Ea	1,132.00
10145740-SP	Ea	1,132.00
10145746-SP	Pkg	17.01
10145751-SP	Ea	1,232.00
10145752-SP	Ea	1,132.00
10145860-SP	Ea	30.56
10146002-SP	Ea	123.12
10146013-SP	Pkg	41.40
10146190-SP	Ea	17.03
10146212-SP	Ea	17.03
10146225-SP	Ea	13.43
10146229-SP	Ea	19.98
10146237-SP	Ea	12.34
10146238-SP	Ea	39.89
10146240-SP	Ea	19.98
10146250-SP	Pkg	735.90
10146252-SP	Ea	12.34
10146253-SP	Ea	15.86
10146258-SP	Ea	51.69
10146261-SP	Pkg	886.75
10146262-SP	Pkg	63.07
10146862-SP	Ea	14.60
10146863-SP	Ea	2.69
10146864-SP	Ea	25.00
10146874-SP	Ea	25.73
10146876-SP	Ea	18.72
10146877-SP	Ea	24.56
10146881-SP	Ea	30.41
10146885-SP	Ea	80.71
10146886-SP	Ea	17.03
10146887-SP	Ea	17.03
10146888-SP	Ea	17.03
10146891-SP	Ea	17.03
10146892-SP	Ea	42.11
10146894-SP	Ea	28.08
10146896-SP	Ea	19.89
10146907-SP	Ea	44.45
10146908-SP	Ea	31.58
10146914-SP	Ea	26.91
10146915-SP	Ea	30.41
10146916-SP	Ea	18.72
10146917-SP	Ea	14.60
10146918-SP	Ea	15.81
10146920-SP	Ea	19.89
10146921-SP	Ea	19.89
10146925-SP	Ea	18.72
10147044-SP	Pkg	118.77
10147046-SP	Pkg	111.06
10147047-SP	Pkg	111.06
10147727-SP	Ea	31.00
10147986-SP	Pkg	217.97
10148094-SP	Pkg	71.56
10148162-SP	Pkg	73.69
10148366-SP	Ea	743.00
10148472-SP	Pkg	37.00
10148473-SP	Ea	24.00
10148508-SP	Pkg	1,069.13
10148509-SP	Pkg	1,069.13
10148516-SP	Ea	123.12
10148686-SP	Ea	3,246.38
10148687-SP	Ea	3,862.55
10148711-SP	Ea	162.42

NUMBER	PRICE
10148734-SP	Ea 32.62
10148735-SP	Ea 29.00
10148736-SP	Ea 32.62
10148740-SP	Ea 327.42
10148741-SP	Ea 406.66
10148743-SP	Ea 83.36
10148745-SP	Ea 15.08
10148760-SP	Ea 555.17
10148761-SP	Ea 2.58
10149000-SP	Pkg 103.00
10149011-SP	Pkg 26.00
10149012-SP	Pkg 26.00
10149013-SP	Pkg 33.00
10149014-SP	Pkg 79.00
10149082-SP	Pkg 164.93
10149509-SP	Ea 197.67
10149533-SP	Ea 51.47
10149534-SP	Ea 132.17
10149535-SP	Ea 269.02
10149536-SP	Ea 269.02
10149537-SP	Ea 451.49
10149537-US	Ea 500.24
10149538-SP	Ea 30.41
10149539-SP	Ea 262.01
10149540-SP	Ea 42.11
10149548-SP	Ea 356.75
10149549-SP	Ea 356.75
10149550-SP	Ea 550.91
10149551-SP	Ea 22.40
10149556-SP	Ea 24.64
10149572-SP	Ea 49.28
10149573-SP	Ea 48.15
10149574-SP	Ea 50.40
10149577-SP	Ea 54.88
10149578-SP	Ea 52.64
10149579-SP	Ea 54.88
10149580-SP	Ea 877.24
10149581-SP	Ea 860.87
10149587-SP	Ea 1,155.00
10149620-SP	Ea 210.26
10149621-SP	Ea 63.16
10149624-SP	Ea 32.75
10149625-SP	Ea 21.05
10149626-SP	Ea 21.05
10149631-SP	Ea 60.83
10149632-SP	Ea 24.56
10149634-SP	Ea 17.03
10149635-SP	Ea 60.83
10149637-SP	Ea 21.05
10149638-SP	Ea 5.25
10149639-SP	Ea 21.05
10149641-SP	Ea 21.05
10149643-SP	Ea 17.03
10149645-SP	Ea 32.75
10149647-SP	Ea 42.11
10149648-SP	Ea 111.12
10149649-SP	Ea 111.12
10149659-SP	Ea 17.03
10149663-SP	Ea 126.33
10149664-SP	Ea 77.20
10149666-SP	Ea 22.22
10149667-SP	Ea 64.33
10149668-SP	Ea 15.81
10149669-SP	Ea 17.03
10149670-SP	Ea 29.24
10149671-SP	Ea 15.81
10149672-SP	Ea 35.82
10149675-SP	Ea 17.03
10149676-SP	Ea 362.60
10149677-SP	Ea 361.43
10149679-SP	Ea 149.71
10149686-SP	Ea 52.64
10149688-SP	Ea 40.94
10149698-SP	Ea 669.05
10149700-SP	Ea 475.90
10149701-SP	Ea 69.02
10149702-SP	Ea 74.85
10149716-SP	Ea 19.89
10149717-SP	Ea 92.40
10149722-SP	Ea 1,196.57
10149723-SP	Ea 943.93
10150189-SP	Ea 123.12
10150190-SP	Ea 123.12
10150532-SP	Ea 25.37
10150533-SP	Ea 177.79
10150764-SP	Ea 22.95
10151117-SP	Pkg 54.32
10151685-SP	Pkg 42.44
10151856-SP	Pkg 91.45
10152105-SP	Ea 1,130.68
10152106-SP	Ea 1,130.68
10152107-SP	Ea 1,130.68
10152108-SP	Ea 1,130.68
10152337-SP	Pkg 17.00
10152882-SP	Pkg 43.00
10152883-SP	Pkg 50.00
10152899-SP	Pkg 38.33
10152900-SP	Pkg 61.37
10153060-SP	Pkg 13.00
10153346-SP	Ea 13.51
10153586-SP	Pkg 26.00
10153621-SP	Ea 479.91
10153637-SP	Ea 19.98
10153638-SP	Ea 12.34
10153639-SP	Ea 29.00
10153642-SP	Ea 11.16
10153935-SP	Ea 28.08
10153935-US	Ea 31.20
10153936-SP	Ea 19.89
10153936-US	Ea 38.48
10153937-SP	Ea 64.33
10153938-SP	Ea 53.80
10153940-SP	Ea 63.16
10153940-US	Ea 69.68
10154096-SP	Ea 1,783.00
10154928-SP	Pkg 1,433.94
10154929-SP	Pkg 1,929.82
10154930-SP	Pkg 3,297.30
10154932-SP	Pkg 4,696.50
10154933-SP	Pkg 918.74
10154934-SP	Pkg 1,059.67
10154935-SP	Pkg 1,271.21
10155203-SP	Ea 204.00
10155361-SP	Ea 42.79
10155362-SP	Pkg 94.22
10155364-SP	Pkg 113.27
10156422-SP	Ea 1,450.80
10156423-SP	Ea 1,222.00
10156424-SP	Ea 1,589.12
10156425-SP	Ea 1,589.12
10156426-SP	Ea 1,947.92
10156431-SP	Ea 1,496.56
10156432-SP	Ea 1,267.76
10156433-SP	Ea 1,633.84
10156434-SP	Ea 1,633.84
10156435-SP	Ea 1,993.68
10156466-SP	Ea 467.87
10156467-SP	Ea 328.68
10156469-SP	Ea 378.30
10156852-SP	Pkg 360.94
10156853-SP	Pkg 418.37
10156854-SP	Pkg 552.58
10156857-SP	Pkg 197.70
10156858-SP	Pkg 393.59
10156859-SP	Pkg 50.18
10156860-SP	Pkg 208.58
10156861-SP	Pkg 108.82
10156862-SP	Pkg 91.30
10156863-SP	Pkg 199.51
10156864-SP	Pkg 154.17
10156865-SP	Pkg 107.61
10156866-SP	Pkg 51.99
10156867-SP	Pkg 326.46
10156870-SP	Pkg 39.30
10156871-SP	Pkg 87.05
10156872-SP	Pkg 70.74
10156873-SP	Pkg 79.21
10156874-SP	Pkg 144.50
10156875-SP	Pkg 186.21
10156876-SP	Pkg 47.77
10156877-SP	Pkg 59.85
10156878-SP	Pkg 68.33
10156879-SP	Pkg 68.33
10156880-SP	Pkg 56.83
10156881-SP	Pkg 76.79
10156882-SP	Pkg 111.24
10156883-SP	Pkg 175.94
10156884-SP	Pkg 189.84
10156885-SP	Pkg 55.62
10156886-SP	Pkg 78.59
10156887-SP	Pkg 59.85
10156888-SP	Pkg 70.74
10156889-SP	Pkg 38.69
10156890-SP	Pkg 93.10
10156891-SP	Pkg 87.05
10156892-SP	Pkg 74.36
10156893-SP	Pkg 56.83
10156896-SP	Pkg 357.30
10156897-SP	Pkg 357.30
10156898-SP	Pkg 314.37
10156899-SP	Pkg 325.15
10156900-SP	Pkg 227.32
10157158-SP	Pkg 82.83
10157352-SP	Pkg 78.91
10157358-SP	Pkg 80.08
10157360-SP	Ea 153.21
10157371-SP	Ea 272.62
10157463-SP	Ea 28.08
10157979-SP	Pkg 90.69
10157980-SP	Pkg 151.14
10157991-SP	Pkg 220.06
10157992-SP	Pkg 118.50
10157993-SP	Pkg 76.79
10157995-SP	Pkg 160.81
10158481-SP	Pkg 37.48
10158482-SP	Pkg 43.54
10158483-SP	Pkg 152.35
10158484-SP	Pkg 112.45
10158488-SP	Pkg 632.99
10158489-SP	Pkg 832.49
10158493-SP	Pkg 309.54
10158500-SP	Pkg 48.37
10159274-SP	Pkg 65.29
10159547-SP	Pkg 43.54
10159558-SP	Pkg 152.35
10159559-SP	Pkg 112.45
10159560-SP	Pkg 112.45
10159571-SP	Pkg 152.35
10159699-SP	Ea 26.87
10159759-SP	Pkg 1,677.74
10159816-SP	Ea 11.16
10159890-SP	Pkg 139.67
10159899-SP	Ea 1,527.30
10159900-SP	Ea 1,118.44
10159901-SP	Ea 1,527.30
10159902-SP	Ea 1,118.44
10160350-SP	Ea 15.86
10160353-SP	Ea 153.23
10160363-SP	Ea 15.86
10160371-SP	Ea 25.85
10160430-SP	Pkg 195.56
10160451-SP	Ea 440.57
10160452-SP	Ea 929.30
10160459-SP	Ea 776.56
10160623-SP	Ea 51.74
10161282-SP	Ea 85.00
10161292-SP	Pkg 419.58
10161322-SP	Ea 79.44
10161890-SP	Ea 3,172.68
10161948-SP	Ea 25.00
10162462-SP	Pkg 133.61
10162739-SP	Pkg 340.37
10162839-SP	Ea 4.07
10164788-SP	Pkg 125.74
10164845-SP	Ea 419.92
10164861-SP	Ea 82.16
10165779-US	Ea 539.76
10165972-SP	Pkg 109.94
10165973-SP	Pkg 110.70
10171661-SP	Pkg 108.23
10171750-SP	Ea 2.18
10175010-SP	Ea 1,664.00
10175021-SP	Ea 1,664.00
1044DDB	Ea 449.82

NUMBER		PRICE
1044DDR	Ea	449.82
1044DDW	Ea	449.82
1044DDY	Ea	449.82
1044DSB	Ea	381.48
1044DSR	Ea	381.48
1044DSW	Ea	381.48
1044DSY	Ea	381.48
1044FDB	Ea	441.77
1044FDR	Ea	441.77
1044FDW	Ea	441.77
1044FDY	Ea	441.77
1044FSB	Ea	377.30
1044FSR	Ea	377.30
1044FSW	Ea	377.30
1044FSY	Ea	377.30
1044XDB	Ea	441.77
1044XDR	Ea	441.77
1044XDW	Ea	441.77
1044XDY	Ea	441.77
1044XSB	Ea	377.30
1044XSR	Ea	377.30
1044XSW	Ea	377.30
1044XSY	Ea	377.30
11001-00	Ea	7,158.65
12010-00	Ea	362.93
12020-00	Ea	123.61
12020-02	Ea	80.37
12021-00	Ea	215.10
12022-00	Ea	215.10
12023-00	Ea	123.61
12024-00	Ea	55.31
12030-12	Ea	1.32
12030-14	Ea	60.80
12030-23	Ea	1.09
12030-24	Ea	66.99
12030-28	Ea	66.99
12030-29	Ea	60.80
12040-00	Ea	39.56
12070-00	Ea	111.28
12090-00	Ea	269.48
12091-00	Ea	346.68
15000-00	Ea	5,543.05
15000-02	Ea	207.68
15000-20	Ea	608.96
15000-21	Ea	146.80
15000-24	Ea	91.35
15000-25	Ea	225.28
15000-26	Ea	334.77
15000-28	Ea	608.83
15000-31	Ea	401.17
15000-32	Ea	106.46
15000-34	Ea	8.23
15000-35	Ea	20.00
15000-36	Ea	21.02
15000-39	Ea	5.09
15000-40	Ea	5.09
15000-45	Ea	101.47
15000-47	Ea	29.30
15000-48	Ea	16.34
15000-49	Ea	10.17
15000-50	Ea	60.98
15000-55	Ea	0.20
15000-58	Ea	11.48
15000-59	Ea	60.98
15000-68	Ea	12.36
15002-00	Ea	412.24
15003-00	Ea	323.20
15005-00	Ea	1,949.89
15005-00A	Ea	3,340.82
15005-00B	Ea	3,471.87
15005-01	Ea	753.32
15005-02	Ea	2,540.73
15005-06	Ea	134.18
15005-07	Ea	134.97
15005-08	Ea	11.14
15005-09	Ea	188.33
15005-10	Ea	14.91
15005-11	Ea	23.70
15005-12	Ea	115.26
15005-13	Ea	11.30
15005-14	Ea	3.14
15005-15	Ea	32.95
15005-16	Ea	11.61
15005-17	Ea	546.62
15005-18	Ea	667.94
15005-19	Ea	24.79
15005-20	Ea	11.93
15005-21	Ea	86.32
15005-22	Ea	24.17
15005-23	Ea	0.32
15005-25	Ea	1.10
15005-26	Ea	2,690.92
15005-27	Ea	761.17
15005-28	Ea	270.72
15005-29	Ea	79.88
15005-30	Ea	121.19
15006-00	Ea	21.86
15007-00	Ea	444.23
15007-00A	Ea	645.66
15007-00B	Ea	795.85
15007-01	Ea	502.06
15007-02	Ea	30.91
15007-03	Ea	7.22
15014-00	Ea	578.90
15015-00	Ea	7,746.75
15015-01	Ea	1,622.19
15015-05	Ea	1,476.14
15015-06	Ea	801.63
15015-07	Ea	178.67
15015-08	Ea	85.69
15017-00	Ea	598.25
15018-00	Ea	639.44
15019-00	Ea	443.50
15020-00	Ea	17,015.37
15020-00A	Ea	25,450.00
15020-00B	Ea	13,386.71
15020-01	Ea	105.46
15020-02	Ea	523.44
15020-03	Ea	34.69
15020-04	Ea	36.88
15020-05	Ea	142.73
15020-06	Ea	36.88
15020-07	Ea	15.39
15020-10	Ea	24,979.28
15020-11	Ea	269.57
15020-21	Ea	40.18
15020-22	Ea	37.50
15021-00	Ea	20,407.34
15021-04	Ea	122.60
15021-05	Ea	117.38
15025-00	Ea	309.03
15026-00	Ea	413.61
15027-00	Ea	94.61
15028-00	Ea	429.09
15028-00P	Ea	959.73
15029-00	Ea	98.85
15030-00	Ea	4,468.64
15030-01	Ea	36.43
15031-00	Ea	3,669.31
15031-00A	Ea	3,521.46
15031-00B	Ea	3,669.31
15031-01	Ea	2,757.62
15031-02	Ea	122.57
15031-03	Ea	129.24
15031-04	Ea	705.75
15031-05	Ea	2,980.98
15031-06	Ea	2,966.51
15031-07	Ea	2,771.07
15032-00	Ea	244.30
15032-01	Ea	287.98
15033-00	Ea	300.39
15034-00	Ea	323.11
15034-01	Ea	412.40
15035-00	Ea	379.24
15036-00	Ea	401.96
15036-01	Ea	523.43
15037-00	Ea	458.07
15038-00	Ea	441.36
15038-01	Ea	529.11
15039-00	Ea	497.49
15040-00	Ea	520.20
15040-01	Ea	659.06
15041-00	Ea	576.32
15042-00	Ea	638.47
15042-01	Ea	736.34
15043-00	Ea	694.55
15044-00	Ea	835.57
15044-01	Ea	975.73
15045-00	Ea	891.66
15048-00	Ea	150.00
15049-00	Ea	471.99
15050-00	Ea	53.90
15051-00	Ea	1,789.14
15052-00	Ea	2,131.43
15054-00	Ea	3,739.74
15056-00	Ea	339.89
15056-01	Ea	374.55
15057-00	Ea	155.19
15058-00	Ea	283.11
15059-00	Ea	133.10
15062-00	Ea	3,469.09
15063-00	Ea	3,519.88
15063-01	Ea	123.54
15063-02	Ea	6,199.20
15063-03	Ea	17,247.91
15064-00	Ea	226.56
15065-00	Ea	1,468.85
15066-00	Ea	3,519.88
15066-00C	Ea	13,544.08
15066-01C	Ea	6,199.20
15067-00	Ea	505.59
15068-00	Ea	47.27
15070-00	Ea	22,270.45
15070-02	Ea	5,154.27
15070-04	Ea	3,261.87
15070-05	Ea	1,468.98
15070-08	Ea	85.84
15071-00	Ea	1.57
15072-00	Ea	109.64
15073-00	Ea	2,755.58
15073-01	Ea	181.25
15074-00	Ea	308.23
15074-01	Ea	258.80
15075-00	Ea	45,481.75
15076-00	Ea	488.08
15077-00	Ea	1,590.75
15077-02	Ea	537.37
15077-03	Ea	734.49
15077-07	Ea	109.52
15077-08	Ea	31.39
15077-10	Ea	72.26
15077-12	Ea	77.09
15077-14	Ea	3.70
15077-15	Ea	6.59
15077-16	Ea	19.46
15077-18	Ea	62.83
15078-00	Ea	188.53
15078-00A	Ea	449.79
15078-00B	Ea	706.24
15078-00C	Ea	231.34
15078-00E	Ea	627.77
15078-08	Ea	78.47
15078-11	Ea	3.58
15079-00	Ea	2,120.99
15080-00	Ea	20,124.93
15080-01	Ea	46,017.81
15080-02	Ea	5,221.45
15080-03	Ea	3,469.98
15080-04	Ea	1,501.61
15080-05	Ea	85.95
15080-09	Ea	41.88
15080-10	Ea	28.87
15080-11	Ea	281.60
15080-12	Ea	28.87
15080-13	Ea	40.96
15080-14	Ea	40.96
15080-16	Ea	40.96
15080-17	Ea	19.25
15080-18	Ea	6.27
15080-19	Ea	6.27
15080-20	Ea	6.27
15080-21	Ea	3,311.31
15080-24	Ea	150.68
15080-28	Ea	21.44

NUMBER		PRICE
15080-31DE	Ea	207.32
15080-34	Ea	24.35
15080-38	Ea	17.33
15080-39	Ea	17.33
15080-40	Ea	69.65
15080-41	Ea	69.65
15080-42	Ea	9.01
15081-00	Ea	2,791.10
15083-00	Ea	2,120.99
15084-00	Ea	209.87
15087-00	Ea	28,517.88
15087-01	Ea	22,313.40
15087-03	Ea	32.63
15087-04	Ea	27.81
15087-05	Ea	27.81
15088-00	Ea	167.33
15089-00	Ea	53,765.15
15090-00	Ea	364.64
15092-00	Ea	43,221.79
15093-00	Ea	43,880.95
15095-00	Ea	8,695.42
15096-00	Ea	14,831.00
15096-00C	Ea	14,831.00
15097-00	Ea	97,581.16
15099-00	Ea	3,154.99
15100-00	Ea	80,305.86
15101-01	Ea	45.03
15102-00	Ea	1,168.97
15103-00	Ea	306.44
15103-01	Ea	10.52
15103-02	Ea	111.10
15103-06	Ea	223.66
15103-07	Ea	153.32
15104-01	Ea	153.02
15105-00	Ea	1,340.00
15105-01	Ea	59.63
15106-00	Ea	252.38
15107-00	Ea	646.40
15108-00	Ea	1,533.28
15110-00	Ea	51.00
15111-00	Ea	1,157.61
15112-00	Ea	772.94
15113-00	Ea	982.89
15114-00	Ea	2,142.13
15115-00	Ea	1,621.21
15115-01	Ea	286.89
15115-04	Ea	30.48
15117-00	Ea	3,909.38
15118-00	Ea	477.86
15120-00	Ea	600.35
15120-23	Ea	120.65
15121-00	Ea	815.95
15122-00	Ea	849.40
15123-00	Ea	900.78
15124-00	Ea	1,884.80
15125-00	Ea	765.22
15200-00	Ea	48,748.52
15200-01	Ea	690.24
15200-02	Ea	315.38
15200-04	Ea	309.11
15200-07	Ea	615.54
15200-22	Ea	800.91
15200-24	Ea	356.51
15200-25	Ea	800.91
15200-26	Ea	635.69
15200-27	Ea	800.91
15200-32	Ea	434.29
15200-47	Ea	876.06
15201-00	Ea	1,680.82
15201-02	Ea	133.61
15202-00	Ea	928.29
15203-00	Ea	511,730.62
15204-00	Ea	1,764.65
15204-21	Ea	6,004.11
15205-00	Ea	1,654.48
15206-00	Ea	3,109.49
15207-00	Ea	1,393.96
15208-00	Ea	360.96
15209-00	Ea	392.36
15210-00	Ea	315.89
15211-00	Ea	329,112.14
15212-00	Ea	7,282.10
15213-00	Ea	60,314.77
15214-00	Ea	92,434.61
15215-00	Ea	1,529.39
15217-00	Ea	21,250.27
15220-00	Ea	154.49
15221-00	Ea	924.86
15503-00	Ea	1,755.55
15504-00	Ea	405.82
15509-00	Ea	935.88
15512-00	Ea	876.91
15520-00	Ea	4.89
15527-00	Ea	3.93
15528-00	Ea	542.88
15529-00	Ea	1,474.00
15529-03	Ea	43.16
15529-04	Ea	538.78
15530-00	Ea	4.83
15531-00	Ea	19.53
15536-00	Ea	380.13
15537-00	Ea	373.52
15787-00	Ea	74,532.01
15788-00	Ea	83,914.37
15788-01	Ea	789.23
15789-00	Ea	9,577.87
15802-00	Ea	30,473.65
15803-00	Ea	30,473.65
15950-00	Ea	2,040.24
20021-00	Ea	1,238.64
20050-00	Ea	396.43
20051-00	Ea	515.09
20502-00	Ea	98.71
20503-00	Ea	176.52
20505-00	Ea	197.51
20510-00	Ea	3,336.12
20520-00	Ea	3,559.90
21023-00	Ea	0.77
22000-00	Ea	120.52
22000-00-POL	Ea	147.28
22000-00-RAL	Ea	133.80
22000-61	Ea	14.97
22001-00	Ea	181.63
22001-00-POL	Ea	216.23
22001-00-RAL	Ea	194.94
22010-00	Ea	305.14
22010-00-RAL	Ea	381.88
22013-00	Ea	25.21
22013-00-RAL	Ea	37.89
22016-00	Ea	50.86
22019-00	Ea	305.14
22019-00-RAL	Ea	381.88
22020-00	Ea	31.86
22020-00-POL	Ea	47.58
22020-00-RAL	Ea	45.07
22022-00	Ea	37.11
22022-00-POL	Ea	53.52
22022-00-RAL	Ea	50.28
22024-00	Ea	42.34
22024-00-POL	Ea	59.50
22024-00-RAL	Ea	55.53
22026-00	Ea	61.47
22026-00-POL	Ea	85.05
22026-00-RAL	Ea	74.63
22027-00	Ea	66.69
22027-00-POL	Ea	112.05
22027-00-RAL	Ea	79.86
22028-00	Ea	66.69
22028-00-POL	Ea	87.28
22028-00-RAL	Ea	79.86
22032-00	Ea	72.01
22032-00-POL	Ea	90.40
22032-00-RAL	Ea	87.21
22033-00	Ea	78.09
22040-00	Ea	44.24
22041-00	Ea	45.77
22042-00	Ea	29.12
22043-00	Ea	36.71
22044-00	Ea	34.17
22044-00-RAL	Ea	40.49
22045-00	Ea	14.60
22047-00	Ea	46.41
22049-00	Ea	64.47
22050-00	Ea	48.30
22059-00	Ea	37.39
22059-00-RAL	Ea	37.39
22060-00	Ea	7.56
22061-00	Ea	25.54
22061-00-RAL	Ea	38.19
22062-00	Ea	42.76
22062-00-RAL	Ea	53.16
22063-00	Ea	37.05
22063-00-RAL	Ea	44.30
22064-00	Ea	64.60
22064-00-RAL	Ea	86.46
22065-00	Ea	90.25
22065-00-RAL	Ea	100.65
22066-00	Ea	39.98
22066-00-RAL	Ea	50.47
22067-00	Ea	35.35
22067-00-RAL	Ea	89.57
22068-00	Ea	20.07
22068-00-RAL	Ea	28.87
22069-00	Ea	22.82
22069-00-RAL	Ea	27.90
22070-00	Ea	37.48
22071-00	Ea	28.02
22072-00	Ea	58.61
22073-00	Ea	1.09
22075-00	Ea	19.68
22076-00	Ea	1.89
22077-00	Ea	25.25
22077-00-RAL	Ea	53.16
22078-00	Ea	7.03
22080-00	Ea	43.56
22080-02	Ea	6.07
22081-00	Ea	43.56
22084-00	Ea	32.50
22085-00	Ea	3.08
22088-00	Ea	1.95
22089-00	Ea	3.15
22090-00	Ea	70.96
22090-00-RAL	Ea	117.82
22091-00	Ea	51.42
22092-00	Ea	21.98
22093-00	Ea	13.19
22095-00	Ea	24.51
22096-00	Ea	5.57
22098-00PC	Ea	17.75
22098-00TM	Ea	20.14
22100-00	Ea	141.87
22100-00-POL	Ea	173.06
22100-00-RAL	Ea	155.17
22101-00	Ea	198.43
22101-00-POL	Ea	238.25
22101-00-RAL	Ea	212.64
22102-00	Ea	67.78
22120-00	Ea	40.76
22120-00-RAL	Ea	54.05
22122-00	Ea	46.80
22122-00-POL	Ea	64.69
22122-00-RAL	Ea	60.12
22124-00	Ea	52.81
22124-00-POL	Ea	71.57
22124-00-RAL	Ea	66.13
22126-00	Ea	72.88
22126-00-POL	Ea	98.24
22126-00-RAL	Ea	86.20
22127-00	Ea	80.16
22127-00-POL	Ea	102.69
22127-00-RAL	Ea	93.45
22128-00	Ea	78.99
22128-00-POL	Ea	101.32
22128-00-RAL	Ea	92.27
22132-00	Ea	79.08
22132-00-POL	Ea	100.12
22132-00-RAL	Ea	93.59
22133-00	Ea	80.32
22200-00	Ea	148.05
22200-00-POL	Ea	180.10
22200-00-RAL	Ea	161.38
22201-00	Ea	204.61
22201-00-RAL	Ea	218.81
22220-00	Ea	40.30

NUMBER		PRICE	NUMBER		PRICE	NUMBER		PRICE	NUMBER		PRICE
22220-00-POL	Ea	57.32	30039-01	Ea	12.46	30118-00	Ea	82.72	31000-05	Ea	46.11
22220-00-RAL	Ea	53.62	30041-00	Ea	12.05	30119-00	Ea	468.05	31000-06	Ea	57.59
22222-00	Ea	46.17	30042-01	Ea	22.90	30121-00	Ea	650.27	3100L-00	Ea	467.34
22222-00-POL	Ea	63.99	30043-00	Ea	51.79	30123-00	Ea	683.26	3100L-00AC	Ea	602.82
22222-00-RAL	Ea	59.48	30044-00	Ea	50.09	30124-00	Ea	461.96	3100L-00T	Ea	467.34
22224-00	Ea	51.96	30045-00	Ea	343.65	30124-03	Ea	7.61	3100R-00	Ea	608.71
22224-00-POL	Ea	70.63	30046-00	Ea	189.24	30125-00	Ea	464.87	3101R-00	Ea	467.34
22224-00-RAL	Ea	65.27	30047-00	Ea	46.05	30127-00	Ea	25.60	3102L-00	Ea	460.19
22226-00	Ea	71.75	30047-01	Ea	39.28	30128-00	Ea	573.61	3103L-00	Ea	499.04
22226-00-POL	Ea	90.48	30048-00	Ea	57.53	30129-00	Ea	148.25	3103R-00	Ea	467.34
22226-00-RAL	Ea	85.09	30049-00	Ea	248.59	30130-00	Ea	142.22	3104L-00	Ea	514.01
22227-00	Ea	77.60	30050-00	Ea	58.85	30131-00	Ea	82.72	3104L-02	Ea	10.46
22227-00-POL	Ea	99.78	30050-00PP	Ea	59.43	30132-00	Ea	41.19	3104L-03	Ea	10.46
22227-00-RAL	Ea	90.92	30051-00	Ea	8.81	30133-00	Ea	48.62	3105L-00	Ea	467.34
22228-00	Ea	77.57	30052-00	Ea	60.16	30133-00Y	Ea	67.18	31060-00	Ea	18.93
22228-00-POL	Ea	99.75	30053-00	Ea	5.98	30137-00	Ea	161.34	31901-00	Ea	1,028.02
22228-00-RAL	Ea	90.88	30054-00	Ea	2.99	30138-00	Ea	420.50	31901-01	Ea	845.81
22232-00	Ea	80.16	30055-00	Ea	4.61	30138-00THL	Ea	399.31	31902-00	Ea	1,136.23
22232-00-POL	Ea	100.90	30056-00	Ea	1.88	30139-00	Ea	572.91	31902-01	Ea	960.62
22232-00-RAL	Ea	94.51	30057-00	Ea	3.71	30141-02	Ea	249.40	31903-00	Ea	1,298.54
22233-00	Ea	82.01	30059-00	Ea	70.14	30142-00	Ea	516.70	31903-01	Ea	1,104.15
22303-00	Ea	165.55	30060-00	Ea	167.98	30144-00C	Ea	325.77	31904-00	Ea	1,460.86
22304-00	Ea	165.55	30061-00	Ea	81.70	30144-01	Ea	281.12	31904-01	Ea	1,233.32
22448-00	Ea	17.04	30062-00	Ea	174.00	30145-00	Ea	533.40	31905-00	Ea	1,677.29
22680-00	Ea	32.49	30063-00	Ea	2.67	30146-00	Ea	762.09	31905-01	Ea	1,376.85
30001-00G	Ea	625.11	30064-00	Ea	58.85	30147-00	Ea	746.65	32001-00	Ea	159.75
30001-00Y	Ea	625.11	30065-00	Ea	58.85	30150-00	Ea	4.18	32002-00	Ea	91.32
30001-03	Ea	4.98	30066-00	Ea	49.92	30151-00	Ea	4.18	32006-00	Ea	96.36
30001-06	Ea	33.77	30068-00	Ea	25.23	30153-00	Ea	925.71	32007-00	Ea	141.70
30001-09	Ea	31.93	30069-00	Ea	71.38	30154-00	Ea	880.81	32008-00	Ea	333.62
30001-12	Ea	371.91	30071-00	Ea	67.59	30155-00	Ea	4.18	32011-00	Ea	56.15
30002-00	Ea	190.32	30072-00	Ea	10.95	30156-00	Ea	667.73	32012-00	Ea	296.38
30003-00	Ea	59.32	30072-01	Ea	8.27	30158-00	Ea	1,368.00	32013-00	Ea	2,474.02
30004-00	Ea	51.48	30073-00	Ea	23.67	30159-00	Ea	115.17	3350235-SP	Pkg	30.03
30005-00	Ea	39.56	30073-01	Ea	11.74	30160-00	Ea	1,744.60	3350236-SP	Pkg	34.96
30006-00	Ea	22.21	30076-00	Ea	68.74	30162-00	Ea	28.54	34040-00	Ea	72.98
30007-00	Ea	24.71	30077-00	Ea	58.85	30163-00	Ea	106.30	34041-00	Ea	159.94
30008-00	Ea	14.85	30078-00	Ea	91.35	30164-00	Ea	39.31	34050-01	Ea	5.19
30009-00	Ea	14.85	30082-00	Ea	99.42	30165-00	Ea	147.36	34054-00	Ea	252.50
30010-00	Ea	113.69	30083-00	Ea	3.65	30166-00	Ea	117.96	34079-00	Ea	98.73
30011-00	Ea	314.05	30084-00	Ea	120.16	30167-00	Ea	407.63	34080-00	Ea	40.92
30012-00	Ea	61.81	30086-00	Ea	5.98	30168-00	Ea	374.81	34092-00	Ea	34.37
30014-00	Ea	486.85	30097-00	Ea	48.62	30177-00	Ea	362.56	34095-00	Ea	41.94
30014-00G	Ea	721.34	30097-00Y	Ea	67.18	30178-00	Ea	2,285.04	34114-00	Ea	256.52
30014-00Y	Ea	721.34	30100-00	Ea	140.22	30179-00	Ea	102.35	34114-00Y	Ea	380.01
30015-00	Ea	343.65	30101-00	Ea	80.85	30401-00	Ea	646.43	34120-00	Ea	3.32
30015-00G	Ea	292.45	30102-00	Ea	38.19	30402-00	Ea	698.12	34130-00	Ea	263.54
30015-00Y	Ea	292.45	30103-00	Ea	28.61	30403-00	Ea	749.80	34131-00	Ea	263.54
30016-00	Ea	150.85	30105-00	Ea	86.41	30404-00	Ea	801.50	34132-00	Ea	263.54
30020-00	Ea	348.66	30106-00	Ea	78.00	30405-00	Ea	853.19	34133-00	Ea	263.54
30021-00	Ea	135.95	30107-00	Ea	449.22	30501-00	Ea	826.13	34134-00	Ea	357.96
30025-00	Ea	275.37	30108-00	Ea	246.06	30502-00	Ea	996.77	34135-00	Ea	357.96
30026-00G	Ea	421.02	30109-00	Ea	142.22	30503-00	Ea	1,136.25	34136-00	Ea	357.96
30026-00Y	Ea	421.02	30110-00	Ea	159.39	30505-00	Ea	1,463.63	35001-00	Ea	17.06
30026-01	Ea	134.22	30111-00	Ea	142.66	30901-00	Ea	525.30	35001-00SS	Ea	18.20
30028-00	Ea	54.41	30112-00	Ea	148.25	30902-00	Ea	630.36	35001-01	Ea	32.43
30030-02	Ea	28.77	30113-00	Ea	732.29	30903-00	Ea	761.69	35001-04	Ea	22.01
30031-01	Ea	12.61	30114-00	Ea	4.18	30904-00	Ea	971.81	35001-11	Ea	1.71
30033-00	Ea	127.15	30115-00	Ea	4.18	30905-00	Ea	1,103.13	35002-00	Ea	5.80
30034-00	Ea	43.39	30116-00	Ea	4.18	31000-02	Ea	4.76	35005-00	Ea	220.08
30039-00	Ea	11.75	30117-00	Ea	42.67	31000-03	Ea	30.71	35006-00	Ea	13.30

NUMBER		PRICE
35007-00	Ea	13.30
35011-00	Ea	110.32
35012-00	Ea	120.80
35013-00	Ea	120.80
35014-00	Ea	121.98
35015-00	Ea	95.88
35016-00	Ea	95.88
35017-00	Ea	95.88
35018-00	Ea	241.75
35019-00	Ea	241.75
35020-00	Ea	263.54
35021-00	Ea	263.54
35022-00	Ea	263.54
35026-00	Ea	120.24
35027-00	Ea	120.24
35028-00	Ea	120.24
35030-00	Ea	251.01
35032-00	Ea	120.80
35033-00	Ea	95.88
35034-00	Ea	263.54
35035-00	Ea	210.78
35037-00	Ea	165.59
35038-00	Ea	353.83
35040-00	Ea	304.50
35047-00	Ea	346.53
35065-00	Ea	58.81
35069-00	Ea	190.11
35070-00	Ea	190.11
35071-00	Ea	302.40
35076-00	Ea	241.75
35077-00	Ea	190.11
35085-00	Ea	168.82
35086-00	Ea	168.82
35087-00	Ea	168.82
35094-01	Ea	10.26
35094-03	Ea	12.46
35101-00	Ea	120.24
35102-00	Ea	190.11
35103-00	Ea	241.75
35108-00	Ea	87.45
35109-00	Ea	190.11
35112-00	Ea	87.45
35130-00	Ea	439.20
35131-00	Ea	102.85
35132-00	Ea	518.16
35133-00	Ea	186.86
35134-00	Ea	154.99
35135-00	Ea	357.96
35138-00	Ea	762.09
35139-00	Ea	177.31
35140-00	Ea	375.28
35141-00	Ea	226.85
35150-00	Ea	93.83
35151-00	Ea	92.92
35152-00	Ea	252.20
35153-00	Ea	264.81
35157-00	Ea	87.45
35158-00	Ea	87.45
35159-00	Ea	190.11
35160-00	Ea	190.11
35161-00	Ea	241.75
35162-00	Ea	241.75
35198-00	Ea	564.50
35205-00	Ea	331.05
35206-00	Ea	335.04
35207-00	Ea	340.62
35219-00	Ea	303.96
35237-00	Ea	17.06
35238-00	Ea	86.45
35239-00	Ea	84.21
35240-00	Ea	14.34
35241-00	Ea	14.34
35242-00	Ea	238.51
35243-00	Ea	84.21
35245-00	Ea	186.86
35246-00	Ea	238.51
35247-00	Ea	426.21
35247-00C	Ea	445.39
35248-00	Ea	426.56
35254-00	Ea	86.45
35254-00C	Ea	104.01
35255-00	Ea	84.21
35255-00C	Ea	103.38
35256-00	Ea	238.51
35257-00	Ea	84.21
35258-00	Ea	190.11
35259-00	Ea	238.51
35278-00	Ea	238.51
35280-00	Ea	354.47
35296-00	Ea	160.35
35299-00	Ea	220.41
35301-00	Ea	131.11
35343-00	Ea	468.86
35350-00	Ea	934.00
35351-00	Ea	826.14
35352-00	Ea	1,329.14
35352-01	Ea	43.14
35354-00	Ea	56.98
35356-01	Ea	58.95
35358-00	Ea	304.50
35365-00	Ea	609.67
35397-00	Ea	126.63
35416-00	Ea	278.46
35417-00	Ea	278.46
35422-00	Ea	304.50
35429-00	Ea	608.71
35431-00	Ea	105.11
35432-00	Ea	443.00
35432-03	Ea	204.90
35434-00	Ea	351.59
35437-00	Ea	122.28
35438-00	Ea	86.90
35438-01	Ea	39.71
35439-00	Ea	357.96
35489-00	Ea	1,968.57
35490-00	Ea	2,914.53
35491-00	Ea	3,108.08
35507-13	Ea	43.44
35532-00	Ea	176.44
35533-00	Ea	177.66
35534-00	Ea	142.59
35535-00	Ea	188.36
35536-00	Ea	142.83
35537-00	Ea	199.91
35538-00	Ea	139.26
35550-00	Ea	188.36
35551-00	Ea	188.36
35554-00	Ea	121.35
35555-00	Ea	233.67
35556-00	Ea	363.02
35557-00	Ea	142.59
35558-00	Ea	223.28
35559-00	Ea	178.62
35581-00	Ea	185.48
35582-00	Ea	139.52
35583-00	Ea	257.98
35584-00	Ea	254.21
35585-00	Ea	291.29
35586-00	Ea	325.77
35587-00	Ea	178.34
35593-00	Ea	186.86
35599-00	Ea	270.14
35600-00	Ea	314.46
35600-00PP	Ea	317.54
35617-00	Ea	162.16
35618-00	Ea	162.16
35619-00	Ea	162.16
35620-00	Ea	162.16
35628-00	Ea	186.86
35642-00	Ea	301.87
35645-00	Ea	474.51
35646-00	Ea	474.51
35647-00	Ea	474.51
35648-00	Ea	474.51
35671-00	Ea	998.48
35674-00	Ea	231.35
35677-00	Ea	1,083.88
35681-00	Ea	144.49
35683-00	Ea	136.57
35683-00PP	Ea	124.74
35684-00	Ea	267.91
35684-00PP	Ea	325.16
35685-00	Ea	75.17
35686-00	Ea	62.93
35736-00	Ea	298.79
35737-00	Ea	298.79
35738-00	Ea	298.79
35739-00	Ea	298.79
35740-00	Ea	520.90
35741-00	Ea	520.90
35742-00	Ea	520.90
35743-00	Ea	520.90
35744-00	Ea	131.11
35745-00	Ea	131.11
35746-00	Ea	131.11
35757-00	Ea	167.18
35758-00	Ea	167.18
35759-00	Ea	167.18
35760-00	Ea	167.18
35761-00	Ea	202.38
35762-00	Ea	202.38
35763-00	Ea	202.38
35764-00	Ea	202.38
35765-00	Ea	155.49
35766-00	Ea	155.49
35767-00	Ea	155.49
35768-00	Ea	155.49
35769-00	Ea	225.35
35770-00	Ea	225.35
35771-00	Ea	225.35
35772-00	Ea	225.35
35775-00	Ea	277.00
35776-00	Ea	277.00
35777-00	Ea	277.00
35778-00	Ea	277.00
35780-00	Ea	458.61
35784-00	Ea	144.28
35785-00	Ea	181.36
35786-00	Ea	158.05
35787-00	Ea	269.56
35789-00	Ea	217.14
35790-00	Ea	158.05
35791-00	Ea	446.79
35793-00	Ea	206.68
35795-00	Ea	132.16
35796-00	Ea	446.48
35798-00	Ea	197.23
35799-00	Ea	241.13
35800-00	Ea	1,718.56
35800-06	Ea	228.14
35800-09	Ea	68.34
35801-00	Ea	762.63
35806-00	Ea	221.33
35808-00	Ea	539.18
35812-00	Ea	200.16
35812-01	Ea	45.89
35813-00	Ea	169.56
35815-01	Ea	34.22
35816-00	Ea	191.77
35817-00	Ea	134.93
35818-00	Ea	243.23
35819-00	Ea	258.49
35820-00	Ea	236.17
35821-00	Ea	168.05
35822-00	Ea	187.04
35823-00	Ea	185.24
35824-00	Ea	110.25
35825-00	Ea	12.97
35826-00	Ea	19.88
35827-00	Ea	291.18
35828-00	Ea	501.76
35829-00	Ea	293.43
35830-00	Ea	337.38
35831-00	Ea	274.82
35832-00	Ea	877.09
35833-00	Ea	131.72
35835-00	Ea	22.70
35836-00	Ea	351.15
35837-00	Ea	204.24
35838-00	Ea	134.55
35839-00	Ea	248.14
35843-00	Ea	324.39
35844-00	Ea	233.28
35845-00	Ea	170.11

NUMBER		PRICE
35845-00PP	Ea	171.77
35846-00	Ea	109.41
35846-00PP	Ea	110.48
35847-00	Ea	158.08
35848-00	Ea	185.21
35849-00	Ea	419.89
35850-00	Ea	322.81
35858-00	Ea	627.88
35862-00	Ea	422.87
35863-00	Ea	232.10
35865-00	Ea	234.70
35900-00	Ea	606.33
36004-00	Ea	1,268.31
360SFSB	Ea	340.10
360SFSC	Ea	340.10
360SFSR	Ea	340.10
360SFSW	Ea	340.10
360SFSY	Ea	340.10
360SXSB	Ea	347.89
360SXSC	Ea	347.89
360SXSR	Ea	347.89
360SXSW	Ea	347.89
360SXSY	Ea	347.89
36370-00	Ea	58.85
40005-00	Ea	600.41
40010-00	Ea	2,855.43
47000-00	Ea	305.77
47001-00	Ea	305.77
47002-00	Ea	272.00
47003-00	Ea	308.23
47004-00	Ea	308.23
47005-00	Ea	180.35
47006-00	Ea	178.60
47007-00	Ea	163.95
47008-00	Ea	269.36
47010-00	Ea	200.23
47011-00	Ea	200.23
47020-00	Ea	378.96
47030-00	Ea	262.15
50300-00	Ea	24.91
50301-00	Ea	24.91
50302-00	Ea	55.13
51000-00	Ea	265.63
51001-00	Ea	375.21
51007-00	Ea	439.13
51100-00	Ea	265.63
51101-00	Ea	375.21
51110-00	Ea	306.29
57001-00	Ea	379.87
60027-00	Ea	11,365.03
62002-09	Ea	1.43
62002-50	Ea	2.72
62004-00K5	Ea	55.40
62004-00US	Ea	725.33
62004-10	Ea	1.43
62004-97ER	Ea	27.69
62007-00K5	Ea	116.45
62007-00US	Ea	607.07
62007-10	Ea	1.48
62041-00US	Ea	67.73
62042-00US	Ea	93.46
62044-00US	Ea	12.39
62071-00US	Ea	73.39
62072-00	Ea	131.33
62073-00US	Ea	15.98
62074-00	Ea	37.02
62074-00US	Ea	73.39
62075-00US	Ea	71.48
62076-00US	Ea	103.01
62078-00US	Ea	18.75
62079-00US	Ea	15.98
62091-00US	Ea	80.92
62092-00US	Ea	15.98
62094-00US	Ea	80.88
62099-00US	Ea	15.98
62121-00US	Ea	88.43
62122-00US	Ea	28.88
62124-00US	Ea	88.43
62129-00US	Ea	28.88
62151-00US	Ea	88.43
62152-00US	Ea	28.88
62154-00US	Ea	88.43
62159-00US	Ea	28.88
62207-00K5	Ea	264.49
62207-21	Ea	5.53
62207-29	Ea	5.22
62207-40	Ea	2.63
62207-63	Ea	15.58
62207-65	Ea	39.07
62207-97ER	Ea	28.76
62209-00K5	Ea	331.69
62209-00US	Ea	1,036.46
62210-00	Ea	861.70
62212-00K5	Ea	386.14
62212-00US	Ea	1,153.47
62215-00K1	Ea	6.34
62215-00US	Ea	1,270.51
62215-15SW	Ea	15.18
62215-28	Ea	1.43
62407-20US	Ea	134.59
62409-00US	Ea	938.37
62409-03	Ea	115.93
62409-03US	Ea	164.39
62412-00US	Ea	1,020.98
62412-04	Ea	127.11
62412-04US	Ea	175.89
62415-00US	Ea	1,103.34
62415-07	Ea	184.08
62415-07US	Ea	191.14
62609-00K1	Ea	155.46
62609-00K2	Ea	25.10
62609-00K3	Ea	256.90
62609-00K6	Ea	261.46
62609-00K8	Ea	27.22
62609-00US	Ea	1,161.37
62705-12	Ea	2.07
62705-13	Ea	1.48
62705-14	Ea	28.42
62707-00K1	Kit	263.17
62707-00K4	Ea	37.04
62707-00K5	Ea	61.37
62707-00US	Ea	1,091.67
62710-00K1	Kit	270.88
62710-00K4	Ea	45.11
62710-00K5	Ea	90.87
62802-01	Ea	34.56
62802-02	Ea	38.84
62803-00A	Ea	3.24
62803-00B	Ea	3.24
62806-00	Ea	106.50
62809-00K1	Ea	125.09
62809-00K2	Ea	23.81
62809-00K3	Ea	273.46
62809-00K5	Ea	206.03
62809-00US	Ea	1,368.33
62809-06	Ea	2.74
62809-17	Ea	2.49
62809-20US	Ea	15.08
62809-30	Ea	4.42
62809-41	Ea	0.49
62809-42	Ea	626.04
62809-43	Ea	85.76
62809-66	Ea	11.22
62809-67	Ea	9.98
62809-75	Ea	1.48
62809-80	Ea	62.07
62809-97ER	Ea	31.97
62810-00K1	Ea	316.58
62810-00K4	Ea	344.79
62810-00US	Ea	1,603.37
62810-20US	Ea	18.41
62815-00K1	Ea	142.96
62815-00K2	Ea	27.83
62815-00K3	Ea	273.46
62815-00K5	Ea	231.74
62815-00US	Ea	1,722.12
62815-20US	Ea	15.08
62815-30	Ea	5.52
62815-39	Ea	211.80
62815-42	Ea	1.43
62815-50	Ea	1.48
62816-00K1	Ea	362.09
62816-00LE	Ea	1,841.29
62816-00US	Ea	2,007.34
62816-20US	Ea	18.41
62817-00LE	Ea	2,832.75
62825-00K1	Ea	178.71
62825-00K2	Ea	27.83
62825-00K3	Ea	353.46
62825-00K5	Ea	757.14
62825-00US	Ea	2,078.06
62825-03	Ea	8.27
62825-10	Ea	10.91
62825-17	Ea	2.02
62825-18	Ea	5.18
62825-20US	Ea	24.62
62825-28	Ea	30.42
62825-30	Ea	15.99
62825-39	Ea	352.26
62825-39áá	Ea	635.85
62825-41UK	Ea	262.22
62825-52	Ea	1.48
62826-00K1	Ea	442.13
62826-00LE	Ea	4,808.11
62826-00US	Ea	2,850.11
62826-20US	Ea	30.02
62840-00K1	Ea	237.09
62840-00K2	Ea	27.83
62840-00K3	Ea	353.46
62840-00K5	Ea	1,047.70
62840-00US	Ea	2,824.03
62840-10	Ea	10.91
62840-12	Ea	242.38
62840-18	Ea	18.59
62840-20US	Ea	34.44
62840-39	Ea	794.30
62840-52	Ea	1.48
62841-00K1	Ea	562.17
62841-00US	Ea	3,820.03
62841-20US	Ea	42.01
62875-00A	Ea	507.64
62875-00B	Ea	618.14
62880-00	Ea	1,021.18
62894-00R	Ea	546.50
62896-00R	Ea	616.44
62897-00	Ea	2,480.21
62897-02	Ea	186.48
62897-02UE	Ea	302.74
62897-04	Ea	12.48
62897-07	Ea	8.99
62907-00US	Ea	253.96
62909-00US	Ea	283.53
62912-00US	Ea	288.73
62915-00US	Ea	332.58
62990-00A	Ea	983.24
62990-00B	Ea	1,133.01
62990-00C	Ea	884.66
62990-00D	Ea	1,031.00
63011-00A	Ea	263.90
63011-00B	Ea	198.39
63011-00C	Ea	252.42
63011-00D	Ea	229.47
63011-00E	Ea	223.85
63011-00F	Ea	258.16
63011-00G	Ea	223.74
63011-00H	Ea	177.84
63011-00I	Ea	235.21
63011-00J	Ea	223.74
63011-00K	Ea	212.26
63011-00L	Ea	240.95
63011-00M	Ea	269.62
63011-00N	Ea	235.21
63011-00O	Ea	263.90
63011-00P	Ea	286.84
63011-14	Ea	3.52
63011-15	Ea	7.74
63011-16	Ea	1.78
63011-25	Ea	73.63
63011-27	Ea	46.63
63011-28	Ea	56.22
63011-42	Ea	28.00
63011-74	Ea	0.87
63011-81US	Ea	2.82
63013-00A	Ea	280.08

NUMBER	PRICE
63013-00C	Ea 275.83
63013-00E	Ea 267.78
63013-00F	Ea 254.68
63032-00N	Ea 289.57
63032-00N-3478	Ea 304.87
63032-00NCA	Ea 289.57
63041-00A	Ea 284.32
63041-00ACA	Ea 404.31
63062-00A	Ea 411.99
63062-00B	Ea 375.95
63062-00C	Ea 411.99
63062-00D	Ea 386.25
63062-00E	Ea 381.10
63062-00F	Ea 386.25
63062-00R	Ea 381.10
63062-35	Ea 12.89
63062-36	Ea 12.33
63062-46	Ea 1.26
63072-00A	Ea 410.97
63111-00A	Ea 516.66
63111-00B	Ea 390.41
63111-00C	Ea 493.37
63111-00D	Ea 447.47
63111-00E	Ea 441.74
63111-00F	Ea 504.99
63140-00A	Ea 525.15
63141-00A	Ea 525.15
63141-00ACA	Ea 748.52
63162-00A	Ea 648.90
63162-00C	Ea 648.90
63162-00D	Ea 638.60
63162-00E	Ea 638.60
63162-00F	Ea 638.60
63162-00R	Ea 607.70
63172-00A	Ea 648.90
63203-00A	Ea 393.38
63203-00ACA	Ea 393.38
63203-00B	Ea 409.78
63203-00BCA	Ea 409.78
63203-00C	Ea 371.53
63203-00CCA	Ea 371.53
63206-00A	Ea 795.36
63206-00ACA	Ea 580.10
63206-00K1	Ea 178.99
63206-00K4	Ea 13.96
63206-00K5	Ea 89.63
63206-00K6	Ea 7.67
63206-00K7	Ea 60.27
63206-02	Ea 136.07
63206-30	Ea 39.57
63206-47	Ea 0.48
63206-50	Ea 15.16
63210-00A	Ea 1,050.60
63210-00K4	Ea 9.00
63210-00K5	Ea 76.00
63215-00A	Ea 1,272.05
63215-00K1	Ea 93.00
63215-00K4	Ea 9.00
63215-00K5	Ea 76.00
63306-00A	Ea 860.29
63306-00ACA	Ea 796.23
63306-00K4	Ea 17.93
63306-00K5	Ea 93.60
63306-00K6	Ea 9.47
63306-00K7	Ea 62.07
63306-02	Ea 402.08
63310-00A	Ea 1,140.00
63310-00K4	Ea 9.00
63310-00K5	Ea 76.00
63315-00A	Ea 1,355.00
63315-00K4	Ea 9.00
63315-00K5	Ea 76.00
63406-00A	Ea 893.01
63410-00A	Ea 1,335.91
63410-00K4	Ea 11.00
63410-00K5	Ea 76.00
63415-00A	Ea 1,492.47
63415-00K1	Ea 34.00
63415-00K4	Ea 11.00
63415-00K5	Ea 76.00
63900-01	Ea 3.23
63900-02	Ea 4.99
63900-04	Ea 45.62
64011-00A	Ea 243.39
64011-00B	Ea 182.02
64011-00BCA	Ea 189.97
64011-00C	Ea 232.81
64011-00F	Ea 238.11
64013-00A	Ea 258.32
64013-00E	Ea 246.98
64013-00F	Ea 234.90
64041-00A	Ea 262.04
64041-00ACA	Ea 261.44
64111-00A	Ea 476.22
64111-00B	Ea 335.86
64111-00C	Ea 455.05
64111-00F	Ea 465.63
64141-00A	Ea 483.77
64141-00ACA	Ea 509.84
64900-04	Ea 43.28
65010-00	Ea 66.66
65010-02	Ea 51.85
65010-03	Ea 170.22
65012-00	Ea 249.75
65018-00	Ea 253.47
65120-00	Ea 26.48
65120-04	Ea 5.59
65120-05	Ea 5.59
65121-00	Ea 44.56
65122-00	Ea 28.48
65601-00	Ea 264.45
65601-02	Ea 1.80
65601-32	Ea 1.93
65602-00	Ea 264.45
65603-00	Ea 264.45
65604-00D	Ea 404.93
65604-00L	Ea 404.93
65604-00N	Ea 311.48
65605-00	Ea 118.46
65605-01	Ea 5.74
65605-02	Ea 1.91
65608-00	Ea 264.45
65613-00	Ea 271.11
65613-02	Ea 120.22
65615-00	Ea 264.39
65616-00	Ea 355.49
65617-00	Ea 355.49
65618-00	Ea 506.25
65618-00NC	Ea 392.70
65619-00	Ea 316.02
65620-00	Ea 335.75
65620-03	Ea 0.58
65620-04	Ea 10.02
65621-00	Ea 118.46
65622-00	Ea 335.75
65624-00	Ea 138.26
65624-01	Ea 6.89
65625-00	Ea 335.75
65627-00	Ea 138.26
65628-00	Ea 138.26
65631-00	Ea 118.46
65632-00	Ea 355.49
65632-00US	Ea 355.49
65636-00	Ea 335.75
65640-00	Ea 3,245.27
65640-01	Ea 243.27
65640-02	Ea 239.46
65640-04	Ea 58.42
65640-05	Ea 73.09
65641-00	Ea 991.72
65642-00	Ea 413.67
65642-02	Ea 43.68
65643-00	Ea 2,705.30
65643-01	Ea 15.26
65644-00	Ea 3,787.41
65647-00	Ea 38.25
65648-00	Ea 379.87
65649-00	Ea 279.40
65656-00	Ea 292.20
65657-00	Ea 345.16
65658-00	Ea 306.78
65661-00	Ea 300.92
65662-00	Ea 349.36
65663-00	Ea 42.55
65664-00	Ea 469.39
65664-00NC	Ea 370.67
65667-00	Ea 2,474.02
65669-00	Ea 195.33
65671-00	Ea 345.16
65672-00	Ea 345.16
65673-00	Ea 306.78
65674-00	Ea 349.36
65675-00	Ea 335.75
65680-00	Ea 298.73
65682-00	Ea 495.20
65682-00MR	Ea 506.55
65682-00NC	Ea 399.34
65683-00	Ea 265.22
65685-00	Ea 319.85
65688-00	Ea 498.74
65690-00	Ea 319.85
65691-00	Ea 537.08
65692-00	Ea 452.67
65693-00	Ea 537.08
65694-00	Ea 495.20
65695-00	Ea 487.38
65699-00	Ea 108.24
65700-00	Ea 49.44
65701-00	Ea 705.81
65702-00S	Ea 220.52
65710-00	Ea 488.22
65714-00	Ea 98.89
65715-00	Ea 133.51
65716-00	Ea 101.31
65720-00	Ea 252.26
65721-00	Ea 2.51
65753-00BI	Ea 903.76
65753-00EP	Ea 903.76
65753-00PV	Ea 933.82
65753-00TP	Ea 933.82
66001-00BR	Ea 580.23
66001-00SL	Ea 580.23
66001-00WH	Ea 484.27
66001-00WHTR	Ea 677.99
66002-00SL	Ea 498.76
66002-00WH	Ea 435.78
66002-00WHTR	Ea 582.06
66003-00SL	Ea 100.05
66003-00WH	Ea 86.38
66003-00WHTR	Ea 120.91
66004-00WH	Ea 271.61
66005-00BR	Ea 663.30
66005-00SL	Ea 663.27
66005-00WH	Ea 503.96
66005-00WHTR	Ea 705.53
66006-00SL	Ea 677.99
66006-00WH	Ea 545.16
66006-00WHTR	Ea 761.88
66007-00BR	Ea 284.77
66007-00SL	Ea 284.77
66007-00WH	Ea 249.62
66007-00WHTR	Ea 349.53
66008-00BR	Ea 266.27
66008-00SL	Ea 266.27
66008-00WH	Ea 238.15
66008-00WHTR	Ea 333.45
66009-00BR	Ea 243.79
66009-00WH	Ea 216.21
66009-00WHTR	Ea 302.67
66010-00BR	Ea 227.88
66010-00SL	Ea 225.66
66010-00WH	Ea 204.30
66010-00WHTR	Ea 286.00
66011-00SL	Ea 227.88
66011-00WH	Ea 206.99
66011-00WHTR	Ea 289.76
66012-00BR	Ea 224.49
66012-00SL	Ea 224.38
66012-00WH	Ea 204.30
66012-00WHTR	Ea 286.00
66013-00BR	Ea 216.12
66013-00SL	Ea 216.12
66013-00WH	Ea 197.02
66013-00WHTR	Ea 275.78

NUMBER		PRICE
66014-00BR	Ea	667.44
66014-00SL	Ea	626.91
66014-00WH	Ea	611.63
66014-00WHTR	Ea	856.36
66015-00BR	Ea	669.80
66015-00SL	Ea	502.41
66015-00WH	Ea	592.35
66015-00WHTR	Ea	778.48
66016-00BR	Ea	695.05
66016-00WH	Ea	556.06
66016-00WHTR	Ea	778.45
66017-00SL	Ea	672.80
66017-00WH	Ea	541.03
66017-00WHTR	Ea	757.45
66018-00SL	Ea	620.16
66018-00WH	Ea	498.47
66018-00WHTR	Ea	697.85
66019-00BR	Ea	491.79
66019-00SL	Ea	491.79
66019-00WH	Ea	440.53
66019-00WHTR	Ea	616.73
66020-00BR	Ea	520.61
66020-00SL	Ea	520.61
66020-00WH	Ea	458.84
66020-00WHTR	Ea	642.37
66068-00	Ea	433.60
66076-00WH	Ea	349.55
660CFDB	Ea	427.38
660CFDC	Ea	427.38
660CFDG	Ea	427.38
660CFDO	Ea	427.38
660CFDR	Ea	427.38
660CFDW	Ea	427.38
660CFDY	Ea	427.38
660CFSB	Ea	369.24
660CFSC	Ea	369.24
660CFSG	Ea	369.24
660CFSO	Ea	369.24
660CFSR	Ea	369.24
660CFSW	Ea	369.24
660CFSY	Ea	369.24
660CXDB	Ea	420.84
660CXDC	Ea	420.84
660CXDG	Ea	420.84
660CXDO	Ea	420.84
660CXDR	Ea	420.84
660CXDW	Ea	420.84
660CXDY	Ea	420.84
660CXSB	Ea	382.91
660CXSC	Ea	379.26
660CXSG	Ea	379.26
660CXSO	Ea	382.91
660CXSR	Ea	379.26
660CXSW	Ea	379.26
660CXSY	Ea	379.26
660DDB	Ea	434.52
660DDC	Ea	434.52
660DDO	Ea	434.52
660DDR	Ea	434.52
660DDW	Ea	434.52
660DDY	Ea	434.52
660DSB	Ea	385.56
660DSC	Ea	385.56
660DSO	Ea	385.56
660DSR	Ea	385.56
660DSW	Ea	385.56
660DSY	Ea	385.56
66101-00	Ea	145.95
66102-00	Ea	111.69
66103-00	Ea	194.97
66104-00	Ea	974.36
66105-00	Ea	18.41
66106-00	Ea	45.45
66107-00	Ea	27.96
66108-00	Ea	15.13
66110-00	Ea	137.65
66111-00	Ea	117.49
66112-00	Ea	51.46
66113-00	Ea	348.49
66115-00	Ea	183.13
66116-00	Ea	30.83
66117-00	Ea	193.18
66118-00	Ea	245.24
66127-00	Ea	36.47
66129-00	Ea	195.97
66130-00	Ea	220.40
66131-00	Ea	228.86
66136-00A	Ea	90.57
66202-01SL	Ea	1.34
66202-01WH	Ea	1.19
66206-01	Ea	39.40
66227-00	Ea	98.84
66227-01	Ea	1.21
66301-00WH	Ea	486.59
66301-00WHTR	Ea	681.24
66302-00SL	Ea	233.82
66302-00WH	Ea	215.08
66302-00WHTR	Ea	301.12
66305-00BR	Ea	180.57
66305-00WH	Ea	137.42
66306-00SL	Ea	639.06
66306-00WH	Ea	505.89
66307-00WH	Ea	352.94
66308-00WH	Ea	139.28
66309-00WH	Ea	234.22
66310-00WH	Ea	836.17
66311-00WH	Ea	328.59
66312-00WH	Ea	488.39
664DDB	Ea	373.32
664DDR	Ea	373.32
664DDW	Ea	373.32
664DDY	Ea	373.32
664DSB	Ea	324.36
664DSR	Ea	324.36
664DSW	Ea	324.36
664DSY	Ea	324.36
664FDB	Ea	367.03
664FDR	Ea	367.03
664FDW	Ea	367.03
664FDY	Ea	367.03
664FSB	Ea	318.09
664FSR	Ea	318.09
664FSW	Ea	318.09
664FSY	Ea	318.09
664XDB	Ea	367.03
664XDR	Ea	367.03
664XDW	Ea	367.03
664XDY	Ea	367.03
664XSB	Ea	325.42
664XSR	Ea	325.42
664XSW	Ea	325.42
664XSY	Ea	325.42
67602-00	Ea	277.88
67604-00	Ea	373.07
67605-00	Ea	320.43
67620-00	Ea	352.89
67675-00	Ea	369.18
67682-00	Ea	424.46
67682-00MR	Ea	531.63
67682-00S5	Ea	520.29
67685-00	Ea	370.23
67686-00	Ea	292.89
67687-00	Ea	367.52
68002-00L	Ea	437.19
68002-00S	Ea	437.19
68002-00XL	Ea	510.33
68003-00L	Ea	880.74
68003-00S	Ea	880.74
68003-00XL	Ea	880.74
68099-00	Ea	240.28
68200-40	Ea	144.26
68200-42	Ea	1.59
68200-79	Ea	114.26
68201-97ER	Ea	28.47
68203-41USE	Ea	22.11
68214-00	Ea	18.81
70000-00	Ea	85.54
70001-00	Ea	5.77
70002-00	Ea	5.77
80000-00	Ea	1,299.35
80001-01	Ea	5.82
80003-00	Ea	236.05
802191-SP	Ea	599.04
807570-SP	Ea	1,550.62
807586-SP	Ea	1,433.42
809872-SP	Ea	790.85
816115-SP	Ea	1,669.57
818159-SP	Ea	494.02
84489-00	Ea	345.64
85000-00	Ea	692.07
85010-00	Ea	93.89
85011-00	Ea	106.87
85012-00	Ea	96.65
85013-00	Ea	157.79
85016-00	Ea	153.29
85016-00Y	Ea	161.18
85020-00	Ea	177.97
85020-02	Ea	2.34
85020-03	Ea	12.97
85025-00	Ea	4.86
85028-00	Ea	111.54
85029-00	Ea	111.54
85030-00	Ea	44.56
85030-00Y	Ea	55.57
85031-00	Ea	13.96
85032-00	Ea	51.83
85035-00	Ea	4.43
85040-00	Ea	14.85
85041-00	Ea	14.85
85042-00	Ea	36.78
85042-00UK	Ea	14.78
85045-00Y	Ea	176.64
85046-00Y	Ea	161.18
85047-00Y	Ea	200.85
85048-00Y	Ea	82.37
85049-00Y	Ea	76.45
85050-00	Ea	99.87
85051-00	Ea	116.21
85052-00	Ea	116.21
85053-00	Ea	98.00
85054-00	Ea	84.13
85055-00	Ea	81.58
85056-00	Ea	84.13
85057-00	Ea	91.32
85057-00PP	Ea	119.97
85060-00	Ea	135.95
85061-00	Ea	49.44
85062-00	Ea	158.20
85063-00	Ea	102.22
85064-00	Ea	140.95
85066-00	Ea	140.95
85071-00	Ea	171.02
85072-00	Ea	62.24
85073-00	Ea	158.82
85074-00	Ea	20.85
85080-00	Ea	595.86
85080-02	Ea	1.30
85080-35	Ea	6.30
85081-00	Ea	717.00
85083-00	Ea	1,300.51
85085-00	Ea	1,120.02
85090-00	Ea	269.48
85099-00UK	Ea	59.04
85100-00	Ea	56.87
85101-00	Ea	114.80
85103-00	Ea	69.24
85104-00	Ea	186.11
85105-00	Ea	75.63
85107-00	Ea	99.27
85108-00	Ea	152.28
85110-00	Ea	54.59
85112-00	Ea	54.94
85113-00	Ea	87.41
85114-00	Ea	60.52
85115-00	Ea	116.31
85117-00	Ea	99.27
85118-00	Ea	218.61
85120-00	Ea	49.92
85121-00	Ea	49.92
85122-00	Ea	132.37
85130-00	Ea	177.97
85131-00	Ea	192.78
85160-00	Ea	71.66
85161-00	Ea	66.77

NUMBER		PRICE
85162-00	Ea	84.13
85170-00	Ea	309.29
85190-31	Ea	19.66
85190-32	Ea	19.66
85191-00	Ea	739.20
85191-12	Ea	46.84
85191-17	Ea	6.03
85191-18	Ea	6.03
85192-00	Ea	373.54
85195-00	Ea	739.20
85211-00	Ea	183.20
85214-00	Ea	466.43
85260-00	Ea	336.22
85262-00	Ea	368.82
85270-00	Ea	106.32
85271-00	Ea	116.21
85310-00	Ea	916.25
85390-00	Ea	171.02
85391-00	Ea	146.28
85393-00	Ea	394.04
85394-00	Ea	1,955.25
85400-00	Ea	1,763.66
85420-00	Ea	131.08
85421-00	Ea	140.95
85430-00	Ea	286.79
85440-00	Ea	286.79
85480-00	Ea	148.31
85481-00	Ea	175.53
85500-00	Ea	472.24
85510-00	Ea	467.34
85511-00	Ea	618.14
85512-00	Ea	630.47
85530-00	Ea	286.79
85532-00	Ea	282.12
85535-00	Ea	286.79
85536-00	Ea	286.79
85537-00	Ea	184.61
85538-00	Ea	282.12
85538-00G	Ea	290.42
85540-00	Ea	286.79
85550-00	Ea	531.93
85551-00Y	Ea	747.59
85560-00	Ea	529.15
85590-02	Ea	11.31
85590-03	Ea	11.31
85600-00	Ea	529.15
85651-00	Ea	306.63
85700-00	Ea	1,678.72
85701-00	Ea	1,678.72
87012-00	Ea	221.95
87016-00	Ea	262.02
87020-00	Ea	1,316.68
87021-00	Ea	229.09
87030-00	Ea	1,514.75
87030-14	Ea	18.74
87032-00	Ea	1,402.55
A2001-09	Ea	50.14
A2001-10	Ea	17.86
A2001-18	Ea	747.46
A2001-28	Ea	607.62
A2001-32	Ea	42.76
A2001-33	Ea	736.77
A2001-36	Ea	36.75
A2001-37	Ea	22.27
A2001-41	Ea	24.50
A2002-08	Ea	56.53
A2002-10	Ea	60.37
A2002-22N	Ea	110.71
A2002-31	Ea	169.65
A2005-07	Ea	56.23
A2071-06	Ea	108.13
A2071-11	Ea	104.82
A2071-13	Ea	89.73
A2101-04	Ea	204.61
A2101-07	Ea	353.38
A2108-18	Ea	505.44
A2108-20	Ea	649.33
A2126-07	Ea	562.77
A2126-09	Ea	549.90
A2126-10	Ea	956.11
A2126-14	Ea	1,193.38
A2126-21	Ea	1,278.81
A2126-33	Ea	1,289.33
A2126-50	Ea	2,042.23
A2127-05	Ea	55.13
A2175-11	Ea	57.65
A2176-02	Ea	41.58
A2201-04	Ea	963.30
A2210-11	Ea	100.86
A2210-12	Ea	78.80
A2210-13	Ea	12.29
A2210-15	Ea	97.69
A2217-05	Ea	650.75
A2217-10	Ea	720.64
A2237-06	Ea	742.94
A2238-03	Ea	339.29
A2305-12	Ea	1,446.25
A2305-16	Ea	561.60
A2305-20	Ea	470.34
A2305-25	Ea	181.35
A2305-27	Ea	8,956.24
A2305-29	Ea	985.13
A2305-40	Ea	1,152.44
A2315-03	Ea	223.28
A2324-09	Ea	258.82
A2338-06	Ea	91.27
A2348-03	Ea	239.85
A2348-05	Ea	303.03
A2348-08	Ea	170.83
A2354-07	Ea	824.29
A2375-03	Ea	128.07
A2395-05	Ea	272.84
A2395-06	Ea	448.69
A2395-07	Ea	425.97
A2395-09	Ea	144.78
A2395-10	Ea	144.78
A2395-11	Ea	200.46
A2404-03	Ea	50.11
A2475-05	Ea	571.37
A2475-10	Ea	70.42
A2475-11	Ea	77.25
A2482-06	Ea	103.57
A2482-07	Ea	202.68
A2482-09P	Ea	87.15
A2482-10	Ea	88.82
AN6P	Ea	26.14
AS006	Ea	13.92
AS006P	Ea	13.92
B-10022-001	Ea	29.42
B-10079-001	Ea	168.60
B-20040-001	Ea	885.37
B-20090-001	Ea	321.63
B-30060-001	Ea	42.84
B-60026-002	Ea	51.00
B-60141-030	Ea	1,489.33
B-60141-036	Ea	1,481.32
B-60170-030	Ea	2,013.89
B-60170-036	Ea	2,013.89
C202291	Ea	59.66
C204145	Ea	57.50
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C204147	Ea	57.50
C204148	Ea	57.50
C204149	Ea	57.50
C204150	Ea	57.50
C204151	Ea	57.50
C204152	Ea	57.50
C204153	Ea	57.50
C204163	Ea	56.10
C204164	Ea	56.10
C204165	Ea	56.10
C204166	Ea	56.10
C204167	Ea	56.10
C204168	Ea	56.10
C204169	Ea	56.10
C204170	Ea	56.10
C211070	Ea	61.02
C211071	Ea	61.02
C211072	Ea	61.02
C211074	Ea	61.02
C211075	Ea	61.02
C211076	Ea	61.02
C211077	Ea	61.02
C211078	Ea	61.02
C211080	Ea	62.13
C211082	Ea	62.13
C211084	Ea	62.13
C211085	Ea	62.13
C211086	Ea	62.13
C211087	Ea	62.13
C211090	Ea	42.74
C211091	Ea	42.74
C211092	Ea	42.74
C211093	Ea	42.74
C211094	Ea	42.74
C211096	Ea	42.74
C211097	Ea	42.74
C217087	Ea	35.49
C217091	Ea	42.40
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C217093	Ea	42.40
C217094	Ea	42.40
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C217096	Ea	42.40
C217097	Ea	42.40
C217100	Ea	42.40
C217140	Ea	42.40
C217369	Ea	16.14
C217374	Ea	24.03
C892P	Ea	53.94
C893P	Ea	64.38
C922P	Ea	64.38
D0002154	Ea	13.00
D101P	Ea	8.37
D102P	Ea	8.07
D103P	Ea	8.37
D104P	Ea	8.37
D105P	Ea	8.37
D106P	Ea	8.37
D107P	Ea	8.37
D108P	Ea	8.37
D109P	Ea	8.37
D110P	Ea	8.37
D1118709	Ea	7,280.15
D1118851	Ea	429.56
D1118858	Ea	2,418.76
D1118888	Ea	1,013.24
D111P	Ea	8.37
D112P	Ea	8.37
D113P	Ea	8.37
D114P	Ea	8.37
D115P	Ea	8.37
D116P	Ea	8.37
D121P	Ea	8.37
D122P	Ea	8.07
D123P	Ea	8.37
D124P	Ea	8.37
D125P	Ea	8.37
D126P	Ea	8.37
D127P	Ea	8.37
D128P	Ea	8.37
D129P	Ea	8.37
D130P	Ea	8.37
D131P	Ea	8.37
D135P	Ea	8.37
D201P	Ea	8.37
D203	Ea	6.43
D2056700	Ea	445.79
D2056734	Ea	64.47
D218P	Ea	8.37
D220P	Ea	8.37
D221P	Ea	8.37
D222P	Ea	8.37
D223P	Ea	8.37
D225P	Ea	8.37
D226P	Ea	8.37
D227P	Ea	8.37
D228P	Ea	8.37
D229P	Ea	8.37
D230P	Ea	8.37
D231P	Ea	8.37
D232P	Ea	8.37
D233P	Ea	8.37
D234P	Ea	8.07

NUMBER	PRICE
D235P	Ea 8.37
D236P	Ea 8.37
D237P	Ea 8.37
D238P	Ea 8.37
D239P	Ea 8.37
D240P	Ea 8.37
D4060043	Ea 2.06
D4090005	Ea 7.43
D4090006	Ea 27.94
D99P	Ea 8.37
DS101P	Ea 8.37
DS102P	Ea 8.72
DS103P	Ea 8.37
DS104P	Ea 8.37
DS105P	Ea 8.37
DS106P	Ea 8.37
DS107P	Ea 8.37
DS108P	Ea 8.37
DS109P	Ea 8.37
DS110P	Ea 8.72
DS111P	Ea 8.37
DS112P	Ea 8.37
DS113P	Ea 8.37
DS114P	Ea 8.37
DS115P	Ea 8.37
DS116P	Ea 8.37
DS121P	Ea 8.37
DS122P	Ea 8.37
DS123P	Ea 8.37
DS124P	Ea 8.72
DS125P	Ea 8.37
DS126P	Ea 8.37
DS127P	Ea 8.37
DS128P	Ea 8.37
DS129P	Ea 8.37
DS130P	Ea 8.37
DS131P	Ea 8.37
DS133P	Ea 8.37
DS134P	Ea 8.37
DS135P	Ea 8.37
DS201P	Ea 8.37
DS202P	Ea 8.37
DS203P	Ea 8.72
DS204P	Ea 8.72
DS205P	Ea 9.74
DS206P	Ea 8.37
DS207P	Ea 8.72
DS208P	Ea 9.74
DS209P	Ea 8.37
DS210P	Ea 8.37
DS211P	Ea 8.37
DS212P	Ea 8.37
DS213P	Ea 8.37
DS214P	Ea 8.72
DS215P	Ea 8.37
DS216P	Ea 8.37
DS217P	Ea 8.37
DS218P	Ea 8.37
DS219P	Ea 8.37
DS220P	Ea 8.37
DS221P	Ea 8.37
DS222P	Ea 8.37
DS223P	Ea 8.37
DS224P	Ea 8.37
DS225P	Ea 8.37
DS226P	Ea 8.37
DS227P	Ea 8.37
DS228P	Ea 8.37
DS229P	Ea 8.37
DS230P	Ea 8.37
DS231P	Ea 8.37
DS232P	Ea 8.37
DS233P	Ea 9.74
DS234P	Ea 8.37
DS235P	Ea 8.37
DS236P	Ea 8.37
DS237P	Ea 8.37
DS238P	Ea 8.37
DS239P	Ea 8.37
DS240P	Ea 8.37
DS99P	Ea 8.37
F74BP	Ea 110.77
F74SP	Ea 110.77
F75BP	Ea 110.77
F76BP	Ea 110.77
F77B	Ea 110.77
F77BP	Ea 110.77
FB11T	Ea 58.91
FB13TX	Ea 58.34
FB21T	Ea 56.95
FB2S	Ea 57.49
FCPP	Ea 28.00
FPP	Ea 26.67
FSMP	Ea 12.40
G404106	Ea 10.40
GA010002H3	Ea 408.00
GA010002H3A	Ea 425.00
GA1027	Ea 33.06
GA1087C	Ea 49.98
GA1136-AL	Ea 25.15
GA1136-AM	Ea 25.15
GA1136-BL	Ea 22.43
GA1136-BM	Ea 22.43
GA1136-CL	Ea 27.56
GA1136-CM	Ea 27.63
GA1136-JL	Ea 22.43
GA1136-JM	Ea 22.43
GA1136-NL	Ea 22.43
GA1136-NM	Ea 22.43
GA1136-RL	Ea 22.43
GA1136-RM	Ea 22.43
GA1136-TL	Ea 22.43
GA1136-TM	Ea 22.43
GA1137-L	Ea 126.67
GA1137-M	Ea 126.67
GA1150-16	Ea 16.32
GA1150-2B	Ea 19.38
GA1150-32	Ea 24.48
GA1150-33	Ea 19.38
GA1150-34	Ea 19.38
GA1150-35	Ea 30.06
GA1150-45	Ea 19.38
GA1150-46	Ea 19.38
GA1150-4L	Ea 19.38
GA1150-74	Ea 19.38
GA1150-N2	Ea 21.42
GA1150-N3	Ea 21.42
GA1150-N4	Ea 21.42
GA1150-N5	Ea 21.42
GA1150-N6	Ea 21.42
GA1150-N7	Ea 21.42
GA1150-N8	Ea 21.42
GA1150-N9	Ea 21.42
GA1150-P1	Ea 21.42
GA1150-P2	Ea 21.42
GA1150-P3	Ea 21.42
GA1150-S8	Ea 26.52
GA1153	Ea 34.15
GA1156	Ea 103.44
GA1157-L	Ea 56.10
GA1157-M	Ea 56.10
GA1158-L	Ea 41.04
GA1158-M	Ea 40.59
GA1159	Ea 46.92
GA1160	Ea 57.20
GA1161	Ea 34.11
GA1162	Ea 37.74
GA1163	Ea 30.11
GA1165-L	Ea 28.56
GA1165-M	Ea 28.56
GA1484	Ea 92.00
GA3112100000-REB00	Ea 441.18
GA3130010000-RE000	Ea 318.04
GA3132010000-VA000	Ea 347.72
GA3230-B0	Ea 45.60
GA3234	Ea 52.68
GA3240	Ea 98.73
GA3300-RE00	Ea 248.10
GAA2121100000-RE16	Ea 569.10
GYL1018500000-BA16	Ea 395.76
GYL1018500000-BU16	Ea 431.46
GYL1018500000-JC16	Ea 431.46
GYL1018500000-JD16	Ea 395.76
GYL1018500000-NA16	Ea 395.76
GYL1018500000-NE16	Ea 431.46
GYL1018500000-RD16	Ea 431.46
GYL1018500000-RE16	Ea 395.76
GYL1118500000-JD16	Ea 445.74
GYL1118500000-JDR6	Ea 507.96
GYL1118500000-NE16	Ea 481.44
GYL1118500000-RD16	Ea 481.44
GYL1118500000-RER6	Ea 507.96
GYM1018500000-BA16	Ea 395.76
GYM1018500000-BU16	Ea 431.46
GYM1018500000-JC16	Ea 431.46
GYM1018500000-JD16	Ea 395.76
GYM1018500000-NA16	Ea 395.76
GYM1018500000-NE16	Ea 431.46
GYM1018500000-RD16	Ea 431.46
GYM1018500000-RE16	Ea 395.76
GYM1118500000-BAR6	Ea 507.96
GYM1118500000-JD16	Ea 445.74
GYM1118500000-JDR6	Ea 507.96
GYM1118500000-NAR6	Ea 507.96
GYM1118500000-NE16	Ea 481.44
GYM1118500000-RD16	Ea 481.44
GYM1118500000-RER6	Ea 507.96
HP3DDB	Ea 404.28
HP3DDC	Ea 404.28
HP3DDG	Ea 404.28
HP3DDO	Ea 404.28
HP3DDR	Ea 404.28
HP3DDW	Ea 404.28
HP3DDY	Ea 404.28
HP3DSB	Ea 339.66
HP3DSC	Ea 339.66
HP3DSG	Ea 339.66
HP3DSO	Ea 339.66
HP3DSR	Ea 339.66
HP3DSW	Ea 339.66
HP3DSY	Ea 340.48
IN-2003	Ea 1,156.89
IN-2005	Ea 950.03
IN-2006	Ea 950.03
IN-2007	Ea 988.65
IN-2008	Ea 3,574.31
IN-2009	Ea 2,114.93
IN-2010	Ea 1,644.94
IN-2013	Ea 1,035.44
IN-2021	Ea 1,988.97
IN-2030	Ea 4,091.90
IN-2044	Ea 597.72
IN-2045	Ea 635.08
IN-2067	Ea 2,087.26
IN-2071	Ea 1,594.11
IN-2072	Ea 86.57
IN-2073	Ea 127.53
IN-2075	Ea 5,691.98
IN-2085	Ea 2,074.38
IN-2087	Ea 772.29
IN-2097	Ea 374.38
IN-2101	Ea 1,122.24
IN-2105	Ea 968.76
IN-2106	Ea 579.15
IN-2107	Ea 725.39
IN-2108	Ea 3,830.77
IN-2109	Ea 620.63
IN-2114	Ea 443.43
IN-2117	Ea 1,276.45
IN-2118	Ea 4,600.43
IN-2124	Ea 2,087.26
IN-2125	Ea 5,881.23
IN-2126	Ea 2,214.79
IN-2127	Ea 905.02
IN-2129	Ea 1,214.44
IN-2131	Ea 1,356.02
IN-2132	Ea 1,008.52
IN-2133	Ea 1,454.30
IN-2134	Ea 1,093.94
IN-2137	Ea 620.10
IN-2151	Ea 397.79
IN-2161	Ea 292.49
IN-2167	Ea 3,417.62
IN-2168	Ea 4,927.98

NUMBER		PRICE
IN-2174	Ea	222.29
IN-2176	Ea	97.11
IN-2197	Ea	8,263.73
IN-2199	Ea	1,050.71
IN-2200	Ea	823.54
IN-2201	Ea	1,408.54
IN-2204	Ea	2,573.97
IN-2210	Ea	2,698.51
IN-2212	Ea	269.10
IN-2217	Ea	2,703.00
IN-2218	Ea	2,980.18
IN-2219	Ea	2,389.40
IN-2220	Ea	2,617.45
IN-2221	Ea	2,640.34
IN-2222	Ea	2,434.86
IN-2223	Ea	3,506.80
IN-2224	Ea	3,218.63
IN-2237	Ea	3,907.75
IN-2238	Ea	1,017.89
IN-2240	Ea	1,076.38
IN-2241	Ea	5,416.40
IN-2242	Ea	1,054.46
IN-2244	Ea	2,367.99
IN-2251	Ea	8,233.93
IN-2253	Ea	1,241.36
IN-2254	Ea	1,192.21
IN-2255	Ea	494.90
IN-2256	Ea	905.02
IN-2266	Ea	971.09
IN-2271	Ea	282.67
IN-2272	Ea	92.43
IN-2273	Ea	126.35
IN-2274	Ea	905.02
IN-2282	Ea	879.72
IN-2287	Ea	2,343.89
IN-2290	Ea	3,064.25
IN-2302	Ea	811.97
IN-2303	Ea	844.72
IN-2304	Ea	776.87
IN-2305	Ea	2,989.32
IN-2311	Ea	1,265.93
IN-2312	Ea	2,494.41
IN-2313	Ea	1,129.04
IN-2314	Ea	1,491.74
IN-2315	Ea	1,227.32
IN-2324	Ea	4,252.21
IN-2325	Ea	1,186.37
IN-2326	Ea	1,161.81
IN-2327	Ea	1,294.00
IN-2328	Ea	431.72
IN-2329	Ea	1,166.48
IN-2337	Ea	2,302.93
IN-2338	Ea	2,751.20
IN-2345	Ea	386.21
IN-2346	Ea	579.26
IN-2348	Ea	602.54
IN-2363	Ea	1,235.21
IN-2382	Ea	961.30
IN-2391	Ea	397.79
IN-2395	Ea	1,987.84
IN-2400	Ea	292.22
IN-2404	Ea	397.79
IN-2420	Ea	2,019.12
IN-2454	Ea	442.32
IN-2472	Ea	5,648.45
IN-2475	Ea	5,401.91
IN-2482	Ea	3,816.64
IN-2483	Ea	2,436.53
IN-2486	Ea	7,417.14
IN-2487	Ea	9,113.80
IN-2490	Ea	8,506.21
IN-2496	Ea	9,131.82
IN-2497	Ea	9,360.11
IN-2498	Ea	9,560.56
IN-2499	Ea	9,730.96
IN-2500	Ea	8,907.45
IN-2502	Ea	452.09
IN-2525	Ea	8,695.38
L00100-03	Ea	2.82
L00200-01	Ea	0.33
L00200-02	Ea	0.55
L00200-05	Ea	0.24
L00200-06	Ea	0.41
L00200-07	Ea	1.06
L00200-09	Ea	0.53
L00200-12	Ea	1.08
L00200-15	Ea	0.50
L00200-17	Ea	0.14
L00200-26	Ea	0.14
L00200-32	Ea	1.52
L00200-36	Ea	0.91
L00200-39	Ea	0.21
L00200-40	Ea	1.08
L00200-42	Ea	3.99
L00200-48	Ea	0.50
L00200-49	Ea	0.10
L00200-50	Ea	1.41
L00200-52	Ea	0.61
L00200-53	Ea	0.50
L00200-54	Ea	2.91
L00200-57	Ea	0.14
L00200-59	Ea	0.14
L00200-64	Ea	1.85
L00200-67	Ea	0.59
L00200-71	Ea	1.30
L00200-84	Ea	10.02
L00200-87	Ea	0.45
L00201-00	Ea	0.86
L00300-01	Ea	1.41
L00300-03	Ea	6.00
L00300-05	Ea	2.35
L00300-08	Ea	3.36
L00300-11	Ea	1.15
L00300-15	Ea	3.51
L00300-16	Ea	28.56
L00300-27	Ea	1.30
L00300-30	Ea	3.75
L00300-31	Ea	3.10
L00300-41	Ea	0.50
L00300-43	Ea	0.64
L00300-45	Ea	0.21
L00300-48	Ea	4.16
L00300-55	Ea	0.83
L00300-57	Ea	2.00
L00300-61	Ea	0.75
L00300-71	Ea	6.82
L00400-04	Ea	1.19
L00400-07	Ea	2.99
L00400-09	Ea	4.92
L00400-12	Ea	1.76
L00400-35	Ea	3.49
L00400-37	Ea	1.30
L00400-39	Ea	5.30
L00400-42	Ea	4.07
L00400-43	Ea	3.75
L00400-48	Ea	11.28
L00400-49	Ea	2.60
L00400-53	Ea	7.42
L00400-54	Ea	9.28
L00400-55	Ea	18.69
L00400-57	Ea	4.73
L00400-78	Ea	7.14
L00400-79	Ea	13.64
L00400-83	Ea	0.51
L00400-89	Ea	13.52
L00400-91	Ea	3.57
L00401-01	Ea	0.94
L00401-03	Ea	0.68
L00401-12	Ea	3.35
L00401-16	Ea	1.15
L00401-21	Ea	5.98
L00401-23	Ea	6.03
L00401-24	Ea	3.49
L00401-32	Ea	7.71
L00401-39	Ea	13.53
L00401-40	Ea	2.20
L00401-42	Ea	5.72
L00401-47	Ea	1.18
L00401-77	Ea	3.75
L00401-79	Ea	0.11
L00401-80	Ea	0.75
L00401-81	Ea	0.64
L00401-94	Ea	4.96
L00402-43	Ea	0.51
L00402-68	Ea	2.49
L00402-76	Ea	9.89
L00402-90	Ea	3.93
L00402-93	Ea	8.15
L00403-33	Ea	16.39
L00403-45	Ea	2.35
L00403-53	Ea	5.16
L00403-54	Ea	6.60
L00403-57	Ea	6.46
L00403-91	Ea	14.21
L00403-92	Ea	17.17
L00403-93	Ea	20.51
L00403-94	Ea	7.88
L00403-95	Ea	11.90
L00403-96	Ea	3.07
L00404-13	Ea	16.27
L00405-55	Ea	2.93
L00405-56	Ea	2.57
L00500-07	Ea	2.02
L00500-08	Ea	1.88
L00500-10	Ea	3.11
L00500-25	Ea	4.59
L00600-37	Ea	3.10
L00600-49	Ea	12.43
L00715-00	Ea	2,127.53
L00721-00	Ea	525.75
L00783-00	Ea	279.83
L00790-00	Ea	176.17
L00795-00	Ea	316.02
L00797-00	Ea	21.96
L00798-00	Ea	133.51
L00800-03	Ea	0.26
L00800-04	Ea	1.02
L00800-22	Ea	1.02
L00900-13	Ea	5.13
L00900-14	Ea	8.27
L00900-144	Ea	6.89
L00900-145	Ea	6.47
L00900-146	Ea	6.08
L00900-15	Ea	10.11
L00900-153	Ea	8.91
L00900-154	Ea	8.27
L00900-155	Ea	7.92
L00900-156	Ea	7.53
L00900-24	Ea	19.22
L00900-25C	Ea	49.89
L00900-28	Ea	1,382.45
L00902-00	Ea	2,415.38
L00903-00	Ea	1,286.70
L00904-00	Ea	2,254.13
L00906-00	Ea	1,206.07
L101P	Ea	76.58
L101P-0003	Ea	93.92
L59RP	Ea	159.69
L59RP-0001	Ea	159.69
L5P	Ea	99.18
L5P-0001	Ea	114.97
L5RP	Ea	175.27
L5RP-0001	Ea	137.76
L655AP	Ea	59.16
L655GP	Ea	48.71
L655XP	Ea	47.00
L7P	Ea	60.92
L955P	Ea	87.01
LCPP	Ea	17.41
LK27P	Ea	40.02
LK28P	Ea	60.92
LK29P	Ea	81.79
LRPP	Ea	27.84
M102P	Ea	12.19
M10P	Ea	17.53
M12P	Ea	20.12
M16P	Ea	20.12
M-20020	Ea	196.37
M3250170	Ea	105.04
M4LP	Ea	13.92
M4P	Ea	13.92
M560P	Ea	59.16
M5P	Ea	31.33
M5P-0001	Ea	31.33

NUMBER		PRICE
M-60031	Ea	836.47
M603DP	Ea	255.51
M603P	Ea	253.60
M610P	Ea	42.33
M611P	Ea	21.48
M615P	Ea	9.85
M620P	Ea	16.37
M621P	Ea	11.93
M6H	Ea	6.97
M6P	Ea	25.55
M7P	Ea	194.67
M802P	Ea	55.69
M8P	Ea	84.47
M9P	Ea	29.78
MKT0009	Ea	103.05
MKT0010	Ea	103.05
MKT0011	Ea	125.04
MKT0012	Ea	506.52
MKT0016	Ea	748.48
MKT0017	Kit	2,498.28
MKT0018	Kit	2,060.69
MKT0019	Ea	2,325.07
MKT0020	Kit	4,469.67
MKT0021	Ea	62.45
MKT0027US	Ea	1,558.79
P2002-046	Ea	316.99
P2003-011	Ea	331.40
P2005-001	Ea	174.33
P2006-006	Ea	174.33
P2013-008	Ea	221.12
P2071-021P	Ea	78.39
P2071-022P	Ea	78.39
P2071-023P	Ea	78.39
P2071-032P	Ea	76.84
P2087-004	Ea	251.55
P2105-001	Ea	174.33
P2108-025	Ea	504.30
P2120-014	Ea	527.23
P2121-003	Ea	677.86
P2253-001	Ea	501.28
P2305-016N	Ea	300.25
P2420-006	Ea	548.48
P2482-019P	Ea	20.60
PG1	Ea	29.00
PG2	Ea	28.09
R512539LLC050	Ea	166.17
R512539LLC100	Ea	280.90
R512544	Ft	1.43
R515068-SP	Ea	18.36
R520309	Ea	16.04
R520330	Ea	16.04
R620545	Ea	1.14
R620740	Ea	11.45
R620743-SP	Pkg	34.44
R620744-SP	Pkg	39.59
R620933-SP	Pkg	55.78
R621416	Ea	16.01
R622412-SP	Pkg	65.93
R622639-SP	Pkg	36.89
R622648-SP	Pkg	35.78
R622649-SP	Pkg	35.78
RBP	Ea	32.00
RBWP	Ea	8.48
RHBP	Ea	21.48
RP16BP	Ea	26.10
RP16RP	Ea	26.10
RP16WP	Ea	26.10
RP16YP	Ea	26.10
RP17RP	Ea	44.71
RP17YP	Ea	26.10
RP20BP	Ea	26.10
RP20RP	Ea	26.10
RP20WP	Ea	26.10
RP20YP	Ea	26.10
S103P	Ea	14.99
S10KP	Ea	81.97
S2001-003	Ea	2.58
S2001-005	Ea	10.30
S-20036	Ea	272.22
S2008-001	Ea	3.86
S206P	Ea	19.99
S2482-001	Ea	8.37
S-30019	Ea	70.14
S-30020	Ea	52.34
S-30021	Ea	122.30
S-30116	Ea	150.23
S-30118	Ea	149.74
S549P	Ea	123.11
S550P	Ea	109.24
S606GP	Ea	277.06
S620P	Ea	60.00
S910P	Ea	53.72
S912P	Ea	43.75
S918P	Ea	63.67
S921P	Ea	16.44
S93BP	Ea	31.01
S950P	Ea	34.50
S953P	Ea	19.99
SCE106045	Ea	7.91
SCE106045E	Ea	4.94
SCE106075	Ea	39.38
SCE1064002	Ea	251.78
SCE107007BG	Ea	204.19
SCE107010BGHD	Ea	136.33
SCE1074021020	Ea	1,485.63
SCE108001BG	Ea	235.37
SCE108015	Ea	303.29
SCE109001	Ea	156.05
SCE109003	Ea	372.63
SCE400020	Ea	1,843.47
SCE400025	Ea	2,233.45
SCE405008	Ea	842.42
SCE405010	Ea	992.63
SCL3267303LS	Ea	66.19
SCL3267306LS	Ea	71.71
SCL4067304LS	Ea	99.28
SCL4067306LS	Ea	105.90
SCL4068106LSH	Ea	136.16
SDC716050	Ea	177.84
SDC716075	Ea	226.60
SDC716100	Ea	293.65
SDC716150	Ea	414.67
SDC716200	Ea	492.86
SDC716300	Ea	714.44
SDC726050	Ea	486.42
SDC726075	Ea	539.84
SDC726100	Ea	593.29
SDC726150	Ea	700.17
SDC726300	Ea	1,040.40
SDSD25	Ea	261.49
SFLTL4020	Ea	31.77
SFP2267402	Ea	27.33
SFP2267404	Ea	32.79
SFP2267406	Ea	40.43
SFP2267503	Ea	36.07
SFP2267504	Ea	40.43
SFP2267505	Ea	43.44
SFP2267506	Ea	46.45
SFP2267507	Ea	51.57
SFP22N002B	Ea	18.08
SFP22N002C	Ea	19.48
SFP22N002D	Ea	21.48
SFP22N002E	Ea	23.73
SFP3267501	Ea	43.45
SFP3267502	Ea	44.99
SFP3267503	Ea	45.90
SFP3267504	Ea	48.08
SFP3267505	Ea	49.64
SFP3267506	Ea	50.28
SFP3267507	Ea	56.05
SFP3267508	Ea	53.55
SFP3267510	Ea	56.83
SFP3267512	Ea	60.49
SFP3267514	Ea	63.62
SFP3267518	Ea	69.80
SFP3267606	Ea	69.95
SFP675009	Ea	208.18
SFP675012	Ea	303.38
SFPLS350000	Ea	643.04
SFPLS350001A	Ea	433.53
SFPLS350012	Ea	209.80
SFPLS350020	Ea	733.86
SFPLS350025	Ea	742.20
SFPLS350030	Ea	756.91
SFPLS350035	Ea	873.36
SFPLS350040	Ea	873.36
SFPLS350050	Ea	873.36
SFPLS350060	Ea	888.44
SFPLS350070	Ea	906.54
SFPLS350100	Ea	980.28
SFPLS350150	Ea	1,097.34
SFPLS350180	Ea	1,178.81
SFPLS350200	Ea	1,240.87
SFPLS350210	Ea	1,335.36
SFPLS350300	Ea	1,638.24
SFPLS353030	Ea	466.89
SFPLS353040	Ea	728.00
SFPLS353050	Ea	489.84
SFPLS353100	Ea	530.42
SFPLS353150	Ea	593.23
SFPLS353200	Ea	638.71
SFPrS6000	Ea	220.77
SFPrS6000RR	Ea	278.70
SFPrS6100	Ea	252.71
SFPrS7000	Ea	576.27
SFPrS8000	Ea	596.63
SHLARD6A	Ea	1,565.53
SHLARD6SHIM	Ea	28.17
SHW26	Ea	5.02
SHWA3732C	Ea	43.72
SKitBNSF001	Ea	1,025.91
SKitBNSF002	Ea	1,025.91
SKitBNSF016	Ea	514.75
SKitSMT001	Ea	1,588.23
SKitUNIPAC002	Ea	501.93
SKitUNIPAC019	Ea	8,613.33
SLABELRS000004	Ea	4.70
SLLNL484025LS	Ea	138.82
SLLNL484050LS	Ea	182.24
SLLNL484100LS	Ea	253.27
SLLNL672025LS	Ea	119.19
SLLNL672060LS	Ea	191.44
SLLNL672100LS	Ea	239.49
SNL3248404LS	Ea	70.60
SNL3248405LS	Ea	71.71
SNL3248406LS	Ea	73.91
SNL3248407LS	Ea	77.22
SNL3278104LS	Ea	130.17
SNL3278106LS	Ea	134.58
SNL4048404LS	Ea	109.21
SNL4048406LS	Ea	112.52
SNL4048410LS	Ea	119.14
SNYL537DH306	Ea	303.37
SNYR537DH306	Ea	294.54
SP12YP	Ea	44.71
SP16RP	Ea	44.71
SP16YP	Ea	27.84
SP17RP	Ea	44.71
SP17YP	Ea	44.71
SP20RP	Ea	27.84
SP20YP	Ea	27.84
SP30YP	Ea	44.71
SPP2230	Ea	400.73
SPP2240	Ea	363.62
SPPPU8710	Ea	290.71
SPPrL4000	Ea	422.98
SRB430101	Ea	77.11
SRB430105	Ea	77.11
SRB430201	Ea	89.90
SRB430205	Ea	89.90
SRB430301	Ea	106.01
SRB430305	Ea	106.01
SRB430601	Ea	206.31
SRB430605	Ea	206.31
SRB431101	Ea	327.79
SRB432001	Ea	144.26
SRB4460	Ea	73.01
SRB486232	Ea	149.77
SRB675009	Ea	75.89
SRCA401	Ea	99.75
SRCA613	Ea	63.66
SRCA722	Ea	107.11
SRCA883	Ea	57.93
SRCC413	Ea	36.07

NUMBER		PRICE
SRCC642	Ea	67.17
SRCC734G	Ea	92.90
SRCC740	Ea	107.11
SRH30701	Ea	143.18
SRH30703	Ea	95.00
SRIW1000	Ea	66.20
SRP210	Ea	141.81
SRP220	Ea	141.81
SRP500500050	Ea	58.44
SRP500900050	Ea	109.61
SRP501050100	Ea	253.95
SRP504860SL050	Ea	133.33
SRP504860SL100	Ea	263.12
SRP504860SL200	Ea	523.31
SRP504860SL300	Ea	755.04
SRP504863SL050	Ea	146.38
SRP504863SL100	Ea	266.52
SRP504866SL050	Ea	149.23
SRP504866SL100	Ea	287.02
SRP504866SL200	Ea	514.82
SRP504866SL300	Ea	747.52
SRP504866SL400	Ea	975.00
SRP508760050	Ea	150.31
SRP508760100	Ea	299.11
SRP508760150	Ea	384.32
SRP508760200	Ea	528.41
SRP508960040	Ea	165.91
SRP508960050	Ea	188.37
SRP508960100	Ea	325.58
SRP508960150	Ea	471.52
SRP508960200	Ea	583.89
SRP510660SL050	Ea	162.47
SRP530961050	Ea	176.93
SRP530961100	Ea	346.92
SRP530961200	Ea	662.23
SRP530961300	Ea	953.06
SRP544000050	Ea	148.33
SRP801107OR	Ft	4.42
SRS07001K100	Ea	146.48
SRS14001	Ea	293.26
SRS140200100	Ea	899.00
SRS140200500	Ea	2,242.85
SRS15100	Ea	1,542.86
SRS15200	Ea	1,787.77
SRS15300	Ea	1,907.94
SRS15300BNR	Ea	2,051.21
SRS15400	Ea	2,091.43
SRS3100	Ea	375.77
SRS3101	Ea	115.56
SRS3102	Ea	92.15
SRS3103	Ea	61.29
SRS323050	Ea	807.92
SRS323300	Ea	2,112.90
SRS36381	Ea	184.37
SRS36382	Ea	102.16
SRSA1200	Ea	139.45
SRSF5045	Ea	66.38
SRSF5077	Ea	106.07
SRSPr5980	Ea	168.95
SRSSK203OR	Ea	173.92
SSA4000	Ea	38.61
SSA4001LS	Ea	47.43
SSA4002LS	Ea	49.65
SSA4003	Ea	39.72
SSA9050	IN	1.04
SSB22040	Ea	42.02
SSH102001	Ea	22.28
SSH102002	Ea	25.62
SSH102005	Ea	40.10
SSH102006	Ea	31.19
SSH30440061	Ea	424.08
SSH3505014	Ea	772.19
SSH3505017	Ea	275.78
SSH80925321	Ea	220.63
SSH90920308	Ea	209.59
SSH90925000	Ea	165.47
SSH91535B304	Ea	386.10
SSH91635C30438	Ea	518.47
SSH91720CD23308	Ea	573.63
SSH91720CD25308	Ea	573.63
SSH91720CD25608	Ea	535.02
SSH91720CD27308	Ea	606.72
SSH91725B001	Ea	463.31
SSH91725CD21001	Ea	402.80
STH307A	Ea	9.44
SVL1009025	Ea	263.48
SVL1009050	Ea	289.27
SVLR537R018	Ea	137.71
SWC27031010	Ft	1.14
SWL40400204LSH	Ea	132.76
SWL4068703LS	Ea	75.01
SWL4068704LS	Ea	75.01
T99P	Ea	10.44
TS99P	Ea	22.62

Assemble-To-Order (ATO) System

You Make the Choices

The ATO System makes it easy to custom order specific MSA products, so they can be configured exactly the way you want them.

Create Your Own Model Number

Using the ATO System is easy. By selecting from the ordering selection matrices on the following pages, you can easily create your own model number for the product and accessories you want. Just select the number or letter in each column that corresponds to your choice, and list it in the appropriate box at the bottom of the chart. Prices are listed, too.

Versatility and Fast Response

Since the ATO System offers unparalleled versatility, the selections you can make are virtually limitless. Keep in mind, too, that if you have special requirements not fitting the standard ATO ordering matrix, these can be handled through special orders by contacting your MSA distributor or the MSA Customer Service Center.

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Cairns® **Traditional Helmets**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA *The Safety Company*

A	B	C	D	E	F	G	H	I	K	L
Model	**Color**	**Eye/Face Protection**	**Headband Liners**	**Earlaps**	**Front Holder**	**Removable/ Washable Nomex Chinstrap**	**Trim Type**	**Trim Color**	**Additional Eye/Face Protection**	**Accessory Type**
1 1010 188	**1** Black	**1** 4"Tuffshield 85	**1** Economy Flannel † 38	**1** Yellow Nomex 40	**0** None 0	**2** 2-Pt w/Quick Release & Postman's Slide 50	**0** None * 0	**1** Lime/Yellow (standard)	**0** None 0	**0** None 0
5 880 Tradition 147	**2** Red	**2** Cairns 550 Goggles 87	**2** Standard Flannel 44	**2** Yellow Nomex w/Underchin Extension 49	**1** 6" Carved Brass Eagle 50	**4** 4-Pt w/Quick Release & Postman's Slide ‡ 73	**2** Reflexite (standard) 12	**2** White * (Reflexite only)	**1** 4"Tuffshield 85	**A** LCP Crown Pad w/ standard liner(880) 47
7 1044 131	**3** Blue	**4** ESS Innerzone 3 Goggles 87	**3** Deluxe Leather w/Crown Pad, 880 63	**3** PBI/Kevlar 71	**2** 6" Silk Screened Eagle 31	**5** 2-Pt w/Quick Release & Postman's Slide, 7.5" longer 60	**3** Scotchlite 16	**3** Red/ Orange *	**2** Cairns 550 Goggles 87	**B** LCP Crown Pad w/ economy liner(880) 41
	4 White	**5** ESS Innerzone 2 Goggles w/ low profile hardware 96	**4** Deluxe Leather, 1010/ 1044 63	**9** CFR Aluminized Bonnet w/PBI/Kevlar Shroud & Nomex Earlap ‡§ 712	**3** 6" Silk Screened Maltese Cross 31			**4** Blue * (Reflexite only)	**4** ESS Innerzone 3 Goggles 87	**D** Goggle Sleeve 39
	5 Yellow	**8** 6" Gold-Coated Faceshield **‡ 208		**A** Black Nomex 43	**6** 6" Carved Brass Beaver ‡ 50			**5** Red/Orange Triple Trim * (Scotchlite only)	**5** ESS Innerzone 2 Goggles w/ low profile hardware 96	
	6 Orange ◆	**B** Defender Visor, Clear ‡ 76		**B** Black Nomex w/Underchin Extension 50	**7** 6" Carved Brass Dragon ‡ 50			**6** Lime/Yellow Triple Trim (Scotchlite only)	**8** 6" Gold-Coated Faceshield ‡ 208	
	7 Green ◆	**C** Defender Visor, Amber Tuffshield ‡ 84							**B** Defender Visor, Clear ‡ 76	
	8 Pink ◆	**E** ESS Innerzone 2 w/side-mount hardware 93							**C** Defender Visor, Amber Tuffshield ‡ 84	
		M NFPA compliant Bourkes 99							**E** ESS Innerzone 2 w/side mount hardware 93	
									M NFPA compliant Bourkes 99	
									N Low-Profile Hardware Only 18	

◆ *Not available on 1044*
‡ *Not available with 880 Tradition*
† *Available with 880 Tradition only*
* *Not NFPA 1971 compliant*
** *Compliant to NFPA 1971 Proximity Firefighting ONLY.*
§ *Not NFPA-1971 compliant when used with a Front Holder*

Column:	A	B	C	D	E	F	G	H	I	J	K	L		
C-TRD-										A				
	PART NUMBER												QUANTITY	

A	B	C	D	E	F	G	H	I	K	L	
$	$	$	$	$	$	$	$	$	$	$	=

Cairns® **Leather Helmets**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA
The Safety Company

A	B	C	D	E	F	G	H	I
Model	**Color**	**Size**	**Eye/Face Protection**	**Removable/Washable Earlaps**	**Front Holder**	**Removable/Washable Nomex Chinstrap**	**Trim Type**	**Trim Color**
1 N6A Houston, Standard Bend 1076	**1** Black	**1** Medium	**0** None * 0	**4** Liner Cushion (G5A, G64 only) 56	**1** 6" Carved Brass Eagle 50	**0** None (Presentation Helmets only) 0	**0** None * 0	**1** Lime/Yellow (standard)
3 N5A New Yorker, Standard Bend* 893	**2** Red	**2** Large	**1** 4" Tuffshield 85	**5** Sateen liner w/Jumbo Nomex Yellow earlap 88	**4** 6" Carved Brass Beaver 50	**2** 2-pt w/Quick Release & Postman's Slide 50	**2** Reflexite (Standard) 12	**2** White * (Reflexite Only)
5 G5A Presentation* 842	**3** Blue		**4** ESS Innerzone 3 Goggle System 87	**6** Sateen liner w/Jumbo PBI/Kevlar earlap 118	**5** 6" Carved Brass Dragon 50	**4** 4-pt w/Quick Release & Postman's Slide 73	**3** Scotchlite 16	**3** Red/Orange *
6 G64 Presentation* 886	**4** White		**5** ESS Innerzone 2 Goggle System with low-profile snap on/snap off hardware* 96	**7** Sateen liner w/Jumbo Nomex Black earlap 88	**7** 8" Bronze Carved High Eagle (G5A, G64 only) 74	**5** 2-pt w/Quick Release & Postman's Slide, 7.5" longer 60		**4** Red/Orange Triple Trim (Scotchlite Only)
7 N6A Houston, Bronx Bend 1087	**5** Yellow		**9** ESS Innerzone 2 Goggle System with side-mounting snap on/ snap off hardware 96					**5** Lime/Yellow Triple Trim (Scotchlite Only)
8 N5A New Yorker, Bronx Bend* 903	**7** Natural *		**M** NFPA Compliant Bourkes 120					
			A NFPA Compliant Bourkes & Innerzone 3 Goggle 195					
			B NFPA Compliant Bourkes & Innerzone 2 with side-mounting hardware 195					
			C Traditional Bourkes*^ 67					
			D Traditional Bourkes & Innerzone 3 Goggle*^ 163					
			E Traditional Bourkes & Innerzone 2 with side-mounting hardware*^ 163					

** Not NFPA 1971 compliant*

^ Traditional Bourkes are available for N5A New Yorker fire helmets ONLY.

Column: A B C D E F G H I

B-LTH- [ ][ ][ ][ ][ ][ ][ ][ ][ ]

PART NUMBER

[ ] QUANTITY

A	D	E	F	G	H	
$	$	$	$	$	$	=

TOTAL HELMET LIST PRICE

Cairns® **Modern Fire & Rescue Helmets**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA *The Safety Company*

A	B	C	D	E	F	G	H	I	J
Model	**Color**	**Eye/Face Protection**	**Headband Liners**	**Earlap**	**Removable/Washable Nomex Chinstrap**	**Trim Type**	**Trim Color**	**Trim Shape**	**Accessory Bracket**
2 660C Metro 149	**1** Black	**0** None * 0	**1** Economy Flannel 38	**0** None * 40	**2** 2-pt w/Quick Release & Postman's Slide 50	**0** None * 0	**1** Lime/Yellow (standard)	**1** Tetrabar ✣	**0** None 0
6 Structural 360S 143	**2** Red	**1** 4"Tuffshield ▲ 85	**2** Standard Flannel 44	**1** Yellow Nomex	**6** 2-pt w/Quick Release & Postman's Slide, 7.5" longer ** 60	**2** Reflexite (Standard) 12	**2** Red/Orange ✱	**2** Bar ✚	**9** Frontpiece Bracket 10
A Invader 664 104	**3** Blue ‡	**2** Cairns 550 Goggles 87	**3** Deluxe Leather w/Crown Pad 63	**2** Yellow Nomex w/Underchin Extension 49	**7** 3-pt w/Quick Release & P ostman's Slide, ◆ 60	**3** Scotchlite 16	**3** Blue * (Reflexite only)	**4** Triple Trim (Scotchlite only)	**C** Frontpiece Bracket and Frontpiece Installed 12
B Rescue 360R ✪ 152	**4** White	**4** ESS Innerzone 3 Goggles 87		**3** PBI/Kevlar 71			**4** White *		**D** Goggle Sleeve 39
C Rescue 360R-13 ★ 143	**5** Yellow	**5** ESS Innerzone 2 Goggles w/side-mount hardware 96		**8** Black Nomex w/Underchin Extension ** 50					
D 660C Metro Defender 165	**6** Orange ‡	**7** 4" Standard Faceshield ▲ 76		**9** CFR Aluminized Bonnet w/PBI/Kevlar Shroud & Nomex Earlap ● 712					
E Invader 664 Defender 121	**7** Green † ‡	**A** 6" Gold-Coated Faceshield ● 208		**A** Black Nomex 43					
G Commando HP3 ■ 120	**8** Pink † ‡	**C** Defender Visor, Clear 76							
		D Defender Visor, Amber Tuffshield 84							
		G ESS Innerzone 2 Goggle w/low profile clip 93							

✪ *Compliant to NFPA 1971 and 1951*
★ *NFPA 1951 compliant only*
■ *Available with eye protection options 4, C or D.*
‡ *Not available on Invader 664*
† *Not available on 360S/R/R-13*
* *Not NFPA 1971 compliant*
▲ *Not available on 360R/R-13*
● *Non-Defender 660C/664 only*
◆ *360R/R-13 and HP3 only*
** *Not available on 664/660C Non-Defender and HP3.*
✱ *NFPA compliant as Triple Trim only*
✣ *NFPA compliant in lime/yellow only on all modern helmets*
✚ *NFPA compliant in lime/yellow and on 660C/664 only*

Column: A B C D E F G H I J

C-MOD- [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] PART NUMBER

[ ] QUANTITY

A	C	D	E	F	G	
$	$	$	$	$	$	=

TOTAL HELMET LIST PRICE

BOS-2020-05-02 p. 174/318

EX6 RT2

Cairns® **Helmet Shell**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA *The Safety Company*

A	B	C	D	E	F	G	H	I
Model	**Label**	**Eyewear Mounting Holes**	**Shell Color ★**	**Trim Type**	**Trim Color**	**Trim Shape**	**Front Holder**	**Accessory Type**
2 660C Metro 142	**1** NFPA ●	**0** Standard	**1** Black	**0** None * 0	**1** Lime Yellow (standard)	**1** Tetrabar	**0** None 0	**0** None 0
3 Commando HP3 128	**2** OSHA	**1** Bourke *	**2** Red	**2** Reflexite 12	**2** Red Orange *	**2** Bar	**1** 6″ Silk Screened Eagle 31	**1** Transfer Comb 9
4 Invader 664 97		**2** Goggle (Innerzone 2)	**3** Blue	**3** Scotchlite 16	**3** Blue * (Reflexite Only)	**3** Diamond	**2** 6″ Carved Brass Eagle 50	**2** Front Bracket 5
5 660C Defender 142		**3** Goggle (clip) ■	**4** White		**4** White * (Reflexite Only)	**4** Triple Trim	**3** 6″ Silk Screened Maltese Cross 31	**3** Transfer Comb/ Front Bracket 13
6 HP3 Defender 128		**4** Faceshield ◆	**5** Yellow				**4** 5″ Silk Screened Eagle † 31	
7 664 Defender 118			**6** Orange				**5** 5″ Silk Screened Maltese Cross † 31	
8 360S 121			**7** Green				**6** 6″ Carved Brass Beaver 50	
A Rescue 360R 121			**8** Pink				**7** 6″ Carved Brass Dragon ‡ 50	
B Rescue 360R-13 121								
C 880 Tradition 140								
E 1010 (old ICA) 183								
F 1044 (old ICA) 153								
G 1010 Defender (old ICA) 183								
H 1044 Defender (old ICA) 153								
J HP3, Nylon D-Ring 128								
K HP3 Defender, Nylon D-Ring 128								
L Rescue 360R, Nylon D-Ring 121								
M Rescue 360R-13, Nylon D-Ring 121								
N 1010 Defender (new ICA) 188								
P 1044 Defender (new ICA) 188								

● *Helmet must have originally shipped from Cairns with an NFPA label*
■ *HP3 only*
◆ *For 1010 and 1044 Defender models with additional faceshield only*
★ *Not all colors available in all types*
* *Not NFPA 1971 approved*
† *Available with 880 Tradition only*
‡ *Not available with 880 Tradition*

Column: A B C D E F G H I

E-REP- ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ PART NUMBER

☐ QUANTITY

A E H I

$ ☐ $ ☐ $ ☐ $ ☐ = ☐

TOTAL HELMET LIST PRICE

Cairns® Fire Helmets **Standard Fronts**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA The Safety Company

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Front Size	**Style #**	**Attachment Type**	**Cover Material**	**Cover Color**	**Artwork Type**	**Panel Background Color**	**Panel Font**	**Text Color**	**Graphics Type**	**Ornament Type**	**Graphics Color (RS or RP)**	**Graphics Color (S)**	**Accessories**	**Ship From**
1 8"	8" FRONTS	**N** None	**L** Standard Leather $ 0	**N** None	**N** None	**N** None	**N** None	**N** None	**N** None $ 0	**N** None	**N** None	**N** None	**A** None $ 0	**A** Loose (from Jacksonville manufacturing facility)
2 6"	**10** $ 90	**L** For Leather Helmets	**P** Patent Leather $ 2	**B** Black (std and patent)	**B** Banner	**B** Black	**A** Full Block	**B** Black	**K** Gold Badge $ 63	**B** Vertical Trumpet	**B** Black (std and patent)	**B** White	**B** Back Brace $ 3	**B** Loose (from Pittsburgh warehouse)
L 6" Wider	**14** $ 90	**K** Keychain		**W** White (std and patent)	**S** Classic Scroll	**W** White	**D** URW Copperplate	**W** White	**G** Graphics $ 0	**I** Firefighter Scramble	**W** White (std and patent)	**R** Red	*Brace available on 6" and FDNY Frames ONLY*	**C** Attached to a helmet (from Jacksonville manufacturing facility)
3 3"	**16** $ 90	**P** For Plastic Helmets, except 880		**R** Red (std and patent)	**BR1** Banner Red	**R** Red	**F** Caslon Bold	**R** Red	**RS** Raised Standard $ 7.75	**J** 2 Vertical Trumpets	**R** Red (std and patent)	**W** White		
4 4"	**70** Gold $ 108	**A** For 880		**O** Orange (std ONLY)	*Use None (N) except for gold badge styles.*	**O** Orange	**I** Ed's Market Narrow Slant	**O** Orange	**RP** Raised Patent $ 8.50	**M** Star of Life	**O** Orange (std ONLY)	**R** Red		
	71 Gold $ 108	**V** Velcro (4")		**C** Blue (std ONLY)		**C** Blue	**J** URW Clarendon	**C** Blue	**C** Chrome-Finish Badge $ 50	**O** Fire Truck	**C** Blue (std ONLY)	**O** Orange		
	72 Gold $ 108	**Y** Velcro (3")		**G** Green (std ONLY)		**G** Green	**K** Cairns Serif	**G** Green	**S** Sunken $ 7.25	**P** Chaplain Cross	**G** Green (std ONLY)	**C** Blue		
	6" FRONTS			**K** Gold (std and patent)		**K** Gold	**L** Cairns Sans Serif	**K** Gold	**T** Tin Emblem $ 10	**Q** Shamrock	**K** Gold (std and patent)	**G** Green		
	19 $ 51			**P** Pink (std and patent)		*Panel and text cannot be the same color.*				**R** American Flag	**P** Pink (std and patent)	**K** Gold		
	19P $ 56									**S** Custom	*Complete if RS or RP, otherwise N*	*Complete if S, otherwise N*		
	21 $ 51									**T** Maltese Cross				
	23 $ 51									**E** 2x Trumpet Burst				
	24 $ 51									**F** 3x Trumpet Burst				
	25 $ 51									**G** 4x Trumpet Burst				
	26 $ 51									**H** 5x Trumpet Burst				
	27 $ 51									**Z** Pink Ribbon Graphic				
	28 $ 51									**AA** Steamer				
	29 $ 51									**GA** Vertical Trumpet (Gold)				
	30 $ 51									**GE** 2x Trumpet Burst (Gold)				
	92 $ 51									**GF** 3x Trumpet Burst (Gold)				
	27N Wider $ 56									**GG** 4x Trumpet Burst (Gold)				
	74 Gold $ 98									**GH** 5x Trumpet Burst (Gold)				
	75 Gold $ 98									**GI** Firefighter Scramble (Gold)				
	76 Gold $ 98									**GJ** Custom (Gold)				
	77 Gold $ 98													
	4" FRONTS													
	31 $ 44													
	33 $ 44													
	34 $ 44													
	35 $ 44													
	36 $ 44													
	37 $ 44													
	82 Gold $ 88													
	3" FRONTS													
	38 $ 40													
	40 $ 40													

Column: A B C D E F G H I J K L M N O

D-FRT- ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) — QUANTITY

PART NUMBER

B $ ( ) + D $ ( ) + J $ ( ) + N $ ( ) = ( )

STANDARD FRONT LIST PRICE (PER PIECE)

EXHIBIT 12

Cairns® Fire Helmets **Passport Fronts**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA The Safety Company

A — Front Type

1	FDNY
2	6"
3	Acct Patch
4	4"

B — Style

44A	FDNY Frame + Insert	$ 77
	• **45** Frame	$ 56
	• **48A** Insert	$ 21
44	FDNY Frame + Insert	$ 77
	• **45.** Frame	$ 56
	• **48** Insert	$ 21
44V	FDNY Frame + Insert	$ 77
	• **45V** Frame	$ 56
	• **48V** Insert	$ 21
46	FDNY Frame + Insert	$ 77
	• **47** Frame	$ 56
	• **48** Insert	$ 21
46V	FDNY Frame + Insert	$ 77
	• **47V** Frame	$ 56
	• **48V** Insert	$ 21
49	6" Frame + Insert	$ 72
	• **50** Frame	$ 53
	• **51** Insert	$ 19
55	6" Frame + Insert	$ 72
	• **56** Frame	$ 53
	• **57** Insert	$ 19
93	6" Frame	$ 53
94	6" Frame + Insert	$ 72
	• **95** Frame	$ 53
	• **96** Insert	$ 19
61	Acct Patch (Round)	$ 12
90	Acct Patch (Rectangle)	$ 20
97	Acct Patch (FDNY)	$ 22
98	Acct Patch (Clipped)	$ 20
99	Acct Patch (Arch)	$ 22
58	4" Frame + Insert	$ 65
	• **59** Frame	$ 46
	• **57** Insert	$ 19

C — Attachment Type

N	None
L	For Leather Helmets
P	For Plastic Helmets, except 880
A	For 880
V	Velcro

D — Frame Material

N	None	$ 0
L	Standard Leather	$ 0
P	Patent Leather	$ 2

Complete if frame chosen, otherwise "N" for D through H.

E — Frame Color

N	None
B	Black (std and patent)
W	White (std and patent)
R	Red (std and patent)
O	Orange (std ONLY)
C	Blue (std ONLY)
G	Green (std ONLY)
K	Gold (std and patent)
P	Pink (std and patent)

F — Panel Background Color

N	None
B	Black
W	White
R	Red
O	Orange
C	Blue
G	Green
K	Gold

Panel and text cannot be the same color.

G — Frame Text Color

N	None
B	Black
W	White
R	Red
O	Orange
C	Blue
G	Green
K	Gold

H — Frame Font

N	None
A	Full Block
D	URW Copperplate
F	Caslon Bold
I	Ed's Market Narrow Slant
J	URW Clarendon

I — Insert Material

N	None	$ 0
L	Standard Leather	$ 0
P	Patent Leather	$ 2

Complete if insert chosen, otherwise "N" for I through M.

J — Insert Color

N	None
B	Black (std and patent)
W	White (std and patent)
R	Red (std and patent)
O	Orange (std ONLY)
C	Blue (std ONLY)
G	Green (std ONLY)
K	Gold (std and patent)
P	Pink (std and patent)

K — Insert Graphics Type

N	None	$ 0
S	Sunken	$ 7.25
RS	Raised Standard	$ 7.75
RP	Raised Patent	$ 8.50

L — Insert Graphics Color (RS or RP)

N	None
B	Black (std and patent)
W	White (std and patent)
R	Red (std and patent)
O	Orange (std ONLY)
C	Blue (std ONLY)
G	Green (std ONLY)
K	Gold (std and patent)
P	Pink (std and patent)

Complete if RS or RP, otherwise N

M — Insert Graphics Color (S)

N	None
B	Black
W	White
R	Red
O	Orange
C	Blue
G	Green
K	Gold

Complete if S, otherwise N

N — Accessories

A	None	$ 0
B	Back Brace	$ 3

Brace available on 6" and FDNY Frames ONLY

O — Ship From

A	Loose (from Jacksonville manufacturing facility)
B	Loose (from Pittsburgh warehouse)
C	Attached to a helmet (from Jacksonville manufacturing facility)

Column: A B C D E F G H I J K L M N O

B-PST- [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

PART NUMBER — QUANTITY

B	D	I	K	N	
$	$	$	$	$	=

PASSPORT FRONT LIST PRICE (PER PIECE)

ALTAIR® 2X Gas Detectors, Calibration Gas & Accessories **Price List**

Ordering Selection Matrix and Price List
All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

Charcoal

Part Number	Product Description
10153984	Detector, ALTAIR 2XP, H2S, Gray
10154040	Detector, ALTAIR 2XT, CO/H2S, Gray
10154071	Detector, ALTAIR 2XT, CO-H2/H2S, Gray
10154072	Detector, ALTAIR 2XT, CO/H2S-LC, Gray
10154073	Detector, ALTAIR 2XT, CO/NO2, Gray
10153985	Detector, ALTAIR 2XT, SO2/H2S-LC, Gray
10153986	Detector, ALTAIR 2X, CO, Gray
10154074	Detector, ALTAIR 2X, CO-H2, Gray
10154075	Detector, ALTAIR 2X, CO-HC, Gray
10154076	Detector, ALTAIR 2X, H2S-LC, Gray
10154077	Detector, ALTAIR 2X, SO2, Gray
10154078	Detector, ALTAIR 2X, NO2, Gray
10154079	Detector, ALTAIR 2X, NH3, Gray
10154080	Detector, ALTAIR 2X, Cl2, Gray

Glow-in-the-Dark

Part Number	Product Description
10154188	Detector, ALTAIR 2XP, H2S, Glow
10154181	Detector, ALTAIR 2XT, CO/H2S, Glow
10154182	Detector, ALTAIR 2XT, CO-H2/H2S, Glow
10154183	Detector, ALTAIR 2XT, CO/H2S-LC, Glow
10154184	Detector, ALTAIR 2XT, CO/NO2, Glow
10154190	Detector, ALTAIR 2XT, SO2/H2S-LC, Glow
10154185	Detector, ALTAIR 2X, CO, Glow
10154186	Detector, ALTAIR 2X, CO-H2, Glow
10154187	Detector, ALTAIR 2X, CO-HC, Glow
10154189	Detector, ALTAIR 2X, H2S-LC, Glow
10154191	Detector, ALTAIR 2X, SO2, Glow
10154192	Detector, ALTAIR 2X, NO2, Glow

Calibration Gas

Part Number	Product Description
10153800	GAS,34L, 60PPM CO, 20PPM H2S
10153801	GAS,58L, 60PPM CO, 20PPM H2S
10153802	GAS,116L, 60PPM CO, 20PPM H2S
10153803	GAS,34L, 60PPM CO, 10PPM NO2
10153804	GAS,58L, 60PPM CO, 10PPM NO2
10153805	GAS,116L, 60PPM CO, 10PPM NO2
10153806	GAS,34L, 20PPM H2S, 10PPM SO2
10153807	GAS,58L, 20PPM H2S, 10PPM SO2
10153808	GAS,116L, 20PPM H2S, 10PPM SO2
10153844	GAS,34L, 20PPM H2S
10153845	GAS,58L, 20PPM H2S
10153846	GAS,116L, 20PPM H2S

Accessories

Part Number	Product Description
10155203-SP	Batteries, ALTAIR 2X, 8-pk

ALTAIR® 2X Gas Detectors **ATO**

Ordering Selection Matrix and Price List
All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

A	B	C	D	E	F	G
Instrument Type	**Alternate Alarm Setpoint (Low, High, STEL, TWA) Gas #1**	**Alternate Alarm Setpoint (Low, High, STEL, TWA) Gas #2**	**Approvals**	**Case Color**	**Packaging**	**Custom Features**
1 CO/H2S 578	1 Default Setpoints	1 Default Setpoints	U UL/CSA/ATEX/AUST	C Charcoal 0	1 Individual	0 None
2 CO-H2/H2S 578	2 CO (30,60,60,30)	13 H2S (10, 20, 20, 10)		G Glow-in-the-Dark 11	2 Bulk Packaging (25/box)	A "Always On" Mode ON
3 CO/H2S-LC 578	3 CO (35,100,100,35)	14 H2S (5, 10, 10, 5)				B Operating Beep ON
4 CO/NO2 578	4 CO (35, 400,400, 35)	15 H2S (8, 12, 12, 8)				C Custom
5 CO 435	5 CO (50, 200, 200, 50)	16 H2S (7, 14, 7, 7)				G Go/No Go Mode ON
6 CO-H2 561	6 CO (100, 300,300, 100)	17 H2S-LC (5, 10, 10, 1.6)				H Hibernate/Sleep Mode ON
7 CO-HC 435	7 CO (25, 100, 100, 25)	18 H2S-LC (5, 10, 10, 1)				M Motion Alert ON
8 H2S-PLS 493	8 CO (75, 200,200,75)	24 NO2 (2, 5, 5, 2)				P Persistent Alarm mode ON
9 H2S-LC 435	9 CO (199, 200, 35, 200)	25 NO2 (1, 3, 3, 1)				*If "C Custom" was selected, please indicate any specific software settings. If this includes alternate alarm setpoints also indicate the gas and setpoints for High, Low, STEL, and TWA.*
11 SO2/H2S-LC 578	10 CO (30, 200, 200, 30)					
12 SO2 561	11 CO (25, 50, 50, 25)					
13 NO2 561	12 CO (200, 300, 300, 30)					
14 NH3 770	13 H2S-PLS (10, 20, 20, 10)					
15 Cl2 770	14 H2S-PLS (5, 10, 10, 5)					
16 H2S 435	15 H2S-PLS (8, 12, 12, 8)					
	16 H2S-PLS (7, 14, 7, 7)					
	19 SO2 (1, 2, 1, 1)					
	20 Cl2 (0.3, 0.5, 0.5, 0.3)					
	21 Cl2 (0.5, 1, 1, 0.5)					
	22 NH3 (10, 20, 20, 10)					
	23 NH3 (20, 40, 40, 20)					
	If alternate alarm setpoints are desired, users may select from one of the presets in columns B or C. *Alternatively, custom setpoints may be chosen by selecting "1" in columns B and C and option "C" in the Custom Features selection in Column "G". Please provide the Low, High, STEL and TWA for each gas and note any other software settings.*					

Column: A B C D E F G

A-ALT2X [ ] [ ] [ ] [U] [ ] [ ] [ ]

PART NUMBER

QUANTITY [ ]

A [$] + E [$] = [$]

TOTAL ALTAIR 2X LIST PRICE

Standard Setpoints

Sensor	Low Alarm	High Alarm	STEL	TWA
CO Carbon Monoxide	25 ppm	100 ppm	100 ppm	25 ppm
CO Carbon Monoxide High Concentration	25 ppm	100 ppm	100 ppm	25 ppm
H2S Hydrogen Sulfide	10 ppm	15 ppm	15 ppm	10 ppm
H2S Low Concentration (CO/H2S-LC sensor)	5.0 ppm	10.0 ppm	10.0 ppm	1.0 ppm
H2S Low Concentration (SO2/H2S-LC sensor)	10.0 ppm	15.0 ppm	15.0 ppm	10.0 ppm
Cl2 Chlorine	0.5 ppm	1.0 ppm	1.0 ppm	0.5 ppm
NH3 Ammonia	25 ppm	50 ppm	35 ppm	25 ppm
NO2 Nitrogen Dioxide	2.5 ppm	5.0 ppm	5.0 ppm	2.5 ppm
SO2 Sulfur Dioxide	2.0 ppm	5.0 ppm	5.0 ppm	2.0 ppm

ALTAIR® 4XR **Multigas Detector**

Ordering Selection Matrix and Price List • All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

NORTH AMERICAN CONFIGURATION	PART NO.
LEL, O_2, CO, H_2S (CHARCOAL)	10178557
LEL, O_2, CO, H_2S (GLOW)	10178558
LEL, O_2, CO, H_2S (GLOBAL CHARGER & CHARCOAL)	10178560
LEL, O_2, CO, H_2S (GLOBAL CHARGER & GLOW)	10178571
LEL, O_2, CO, H_2S-LC (CHARCOAL)	10178572
LEL, O_2, CO-H_2, H_2S (CHARCOAL)	10179330
LEL, O_2, CO (CHARCOAL)	10178566
LEL, O_2, CO (GLOW)	10178567
LEL, O_2 (CHARCOAL)	10178568
LEL, O_2 (GLOW)	10178559

Need part numbers for a different region? Contact MSA for options.

KITS WITH ALTAIR 4XR (PN 10178557)	PART NO.
34L QUAD GAS CYLINDER + REGULATOR (0.25 LPM)	10178356
ALTAIR PUMP PROBE 34L QUAD GAS CYLINDER + REGULATOR (0.25 LPM)	10178357

Need something different? Contact MSA for options.

POWER SUPPLY	PART NO.
CHARGING CRADLE COMPONENTS	10086639
NORTH AMERICAN WALL CHARGER	10087913
CHARGING CRADLE ASSEMBLY	10092233
VEHICLE CHARGER	10095774
NORTH AMERICAN MULTI-UNIT CHARGER	10127422

SENSORS / SPARE PARTS	PART NO.
EX COMBUSTIBLE SENSOR	10106722
O_2 SENSOR	10106729
CO/H_2S SENSOR	10106725
CO/H_2S-LC SENSOR	10121213
CO-H_2/H_2S SENSOR	10121214
SO_2/H_2S-LC SENSOR	10121215
NO_2/CO SENSOR	10121217
FRONT HOUSING (CHARCOAL)	10178360
FRONT HOUSING (GLOW)	10178361
LCD ASSEMBLY	10179265
CLIP, SCREWS & SENSOR GASKET	10110062
STAINLESS STEEL SUSPENDER CLIP	10069894

ACCESSORIES	PART NO.
REGULATOR 0.25 LPM MODEL RP	467895
CALIBRATION ASSEMBLY (CAP, TUBE, CONNECTOR)	10089321
34L QUAD GAS MIX *(1.45% CH_4, 15% O_2, 60 PPM CO, 20 PPM H_2S)*	10048280
58L QUAD GAS MIX *(1.45% CH_4, 15% O_2, 60 PPM CO, 20 PPM H_2S)*	10045035
ALTAIR PUMP PROBE NA W/ CHARGER	10152669
JETEYE IR ADAPTER WITH USB CONNECTOR	10082834
10-FOOT POLYURETHANE SAMPLING LINE	10153103
25-FOOT POLYURETHANE SAMPLING LINE	10153104
50-FOOT POLYURETHANE SAMPLING LINE	10153105

For information on the appropriate MSA GALAXY® GX2 System, see GALAXY GX2 System ATO bulletin (0818-21-MC)

To select your configuration, select instrument options and mark the code in the selection boxes below. To calculate your cost, write the price for each option in the price box. Add up the total and write it in the "Total Unit Price" box below.

	PART	CODE	OPTION DESCRIPTION	OPTION PRICE	BASE PRICE
					$566
A	COMBUSTIBLE SENSOR	0 L M	None 1-100% LEL Pentane 0-5% Vol Methane	$0 $210.00 $210.00	$
B	OXYGEN SENSOR	0 1	None 0-30% Vol	$0 $182.00	$
C	TOXIC SENSOR	0 A B C G H J K L	None 0-1999 ppm CO and 0-200 ppm H_2S 0-1999 ppm CO 0-200 ppm H_2S 0-1999 ppm CO and 0-99.9 ppm H_2S-LC 0-99.9 ppm H_2S-LC 0-1999 ppm CO and 0-50 ppm NO_2 0-99.9 ppm H_2S-LC and 0-20 ppm SO_2 0-1999 ppm CO H_2-Res and 0-200 ppm H_2S	$0 $231.00 $182.00 $182.00 $231.00 $182.00 $374.00 $342.00 $294.00	$
D	POWER SUPPLY	0 N M E A G	None North American North American with cradle European with cradle Australian with cradle Global	$0 $28.00 $43.00 $71.00 $71.00 $28.00	$
E	APPROVAL LABEL	C E A	North America Europe ATEX Australia	$0 $0 $0	$0
F	WARRANTY	0 1	4-year standard warranty 1-year extended warranty (5-years total)	$0 $425.00	$
G	PACKAGING	0 1†	Single carton 10-unit bulk package	$0 $0	$0
H	COLOR CASE	0 G	Standard Charcoal Glow-in-the-Dark	$0 $21.00	$

Your Model Part Number — Please write in selected codes from above in appropriate boxes and contact your safety products distributor to place your order.

Selection	A	B	C	D	E	F	G	H			Total Unit Price
A-ALT4XR-									0	0	$

† If bulk packaging is selected, multiply Total Unit Price by 10 times.

All Pricing in U.S. Dollars

EX6 PT2
BOS 2020-05-06 p.182/318

ALTAIR® 4X **Multigas Detector (MSHA)**

Assemble-To-Order System and Pricing Guide - **Prices effective January 1, 2020**

MSA The Safety Company

Approvals/Replacement Parts/Kits

ALTAIR 4X Multigas Detector with North American approval, quick-start card, data logging, charger, calibration cap, tubing, and CD manual. MotionAlert feature is now included as standard on all detectors.

Ordering Information

DESCRIPTION	Part No.
ALTAIR 4X MULTIGAS DETECTOR *(CH_4, O_2, CO) Charcoal*	10125912
ALTAIR 4X MULTIGAS DETECTOR *(CH_4, O_2, CO) Phosphorescent*	10125913
ALTAIR 4X MULTIGAS DETECTOR *(CH_4, O_2, CO, NO_2) Charcoal*	10125914
ALTAIR 4X MULTIGAS DETECTOR *(CH_4, O_2, CO, NO_2) Phosphorescent*	10125915

CALIBRATION ACCESSORIES	Part No.
CALIBRATION ASSEMBLY *(cap, tube, connector)*	10089321
REGULATOR 0.25 LPM MODEL RP	467895
34L CALIBRATION CYLINDER MIX *(2.5% CH_4, 15% O_2, 60 PPM CO)*	10049056
34L CALIBRATION CYLINDER MIX *(2.5% CH_4, 15% O_2, 60 PPM CO, 10 PPM, NO_2)*	10058172
58L CALIBRATION CYLINDER MIX *(2.5% CH_4, 15% O_2, 60 PPM CO, 10 PPM, NO_2)*	10058171

POWER SUPPLY	Part No.
CHARGING CRADLE COMPONENTS	10086639
NORTH AMERICAN POWER SUPPLY	10087913
CHARGING CRADLE ASSEMBLY	10092233
VEHICLE CHARGER	10095774
4-UNIT MULTI-UNIT CHARGER NA PLUG	10127422
12-UNIT MULTI-UNIT CHARGER NA PLUG	10143372

ACCESSORIES	Part No.
STAINLESS STEEL SUSPENDER CLIP	10069894
MSA LINK™ SOFTWARE CD-ROM	10088099
JetEye IR ADAPTER WITH USB CONNECTOR	10082834

SENSOR / SPARE PARTS	Part No.
KIT, XCell EX-M COMBUSTIBLE SENSOR	10121212
KIT, XCell O_2 SENSOR	10106729
KIT, XCell CO/H_2S TWO-TOX SENSOR	10106725
KIT, XCell CO/NO_2 TWO-TOX SENSOR	10121217
FRONT HOUSING WITH INTEGRATED DUST FILTERS (CHARCOAL)	10110030
FRONT HOUSING WITH INTEGRATED DUST FILTERS (PHOSPHORESCENT)	10110029
MAIN BOARD WITH BATTERY PACK	10124956
LCD FRAME ASSEMBLY *(frame, LCD, zebra strips, screws)*	10110061
SENSOR GASKET, PHILLIPS SCREWS (4X), SELF-TAPPING (2X)	10110062
CD MANUAL, ALTAIR 4X MULTIGAS DETECTOR	10106623

GALAXY GX2 AUTOMATED TEST SYSTEM	Part No.
TEST STAND W/ NA POWER SUPPLY	10128630
ELECTRONIC CYLINDER HOLDER	10105756
SD MEMORY CARD	10127111
END CAP	10125907

MSA
The Safety Company

ALTAIR 4X Detector (MSHA) with MSA XCell® Sensors offers:

- 4-year life.
- 3-year instrument warranty.
- Lower maintenance cost.
- Reduced required calibration gas.
- Response and clear times in less than 15 seconds.
- Improved repeatability and accuracy.
- End-of-sensor-life warning for planned sensor replacement, reducing instrument down time.
- GALAXY® System compatibility for powerful calibration and fleet management.
- MotionAlert™ feature activation when no movement is detected for 30 seconds, indicating "man down".
- InstantAlert™ feature manually-activated alarm to alert others of hazardous situations.
- MSA Link™ Software compatibility for easy data management and configuration through your PC.
- Bump test mode for clear indication of bump test status and long-term record storage.
- Approval agency-certified IP67 rating, dust and water resistance.
- 30+ hour run time for continuous operation over three shifts.
- Ergonomic design for comfort and easy operation even with gloved hands.

ALTAIR 4X Multigas Detector (MSHA) Assemble-To-Order (ATO) Options

To create your instrument configuration, select the instrument option code and mark them in the boxes to the right. To calculate your instrument price, write in price for each option in the space provided to the right, add up the total to the base price of $471.00.

A — INSTRUMENT TYPE

The ALTAIR 4X Multigas Detector now comes standard with MSA's new XCell Sensors and MotionAlert feature to indicate "man down".
Please select your instrument's case color; select option **C** for charcoal and option **G** for phosphorescent (glow-in-the-dark).

Instrument Type	Code	Price
Charcoal	C	$0.00
Phosphorescent (glow-in-the-dark)	G	$23.00

Selection: ____ Price: $ ____

B — COMBUSTIBLE SENSOR

To have a combustible sensor installed in your new ALTAIR 4X Multigas Detector, please select **C**. For no combustible sensor, please select **0**.

Combustible Sensor Options	Code	Price
None	0	$0.00
0-5% Vol methane	C	$220.00

Selection: ____ Price: $ ____

C — OXYGEN SENSOR

To have an oxygen sensor installed in your new ALTAIR 4X Multigas Detector, please select **1**. For no sensor, enter **0**.

Oxygen Sensor Options	Code	Price
None	0	$0.00
0-30% Vol	1	$191.00

Selection: ____ Price: $ ____

D — TOXIC SENSOR

To configure your new ALTAIR 4X Multigas Detector, choose **O** for no toxic sensor. Choose **A** for both CO and H_2S sensors, choose **B** for CO, **C** for H_2S, **D** for CO and NO_2, and **E** for NO_2.

Toxic Sensor Options	Code	Price
None	0	$0.00
0-1999 ppm CO and 0-200 ppm H_2S	A	$242.00
0-1999 ppm CO	B	$191.00
0-200 ppm H_2S	C	$191.00
0-1999 ppm CO and 0-50 ppm NO_2	D	$393.00
0-50 ppm NO_2	E	$254.00

Selection: ____ Price: $ ____

E — POWER SUPPLY

Select the correct power supply for your region. Add an instrument cradle to firmly secure your instrument while charging on the shelf or in a vehicle.

Power Supply Options	Code	Price
None	0	$0.00
North American	N	$29.00
North American with cradle	M	$46.00

Selection: ____ Price: $ ____

F — APPROVAL LABEL

The ALTAIR 4X Multigas Detector is fully approved by MSHA.

Approval Label Options	Code	Price
MSHA	M	$0.00

Selection: M Price: $ ____

G — EXTENDED WARRANTY

MSA includes a full 3-year warranty on the ALTAIR 4X Multigas Detector, including sensors, battery and electronics. Choose **1** for an additional year (4 years total).

Extended Warranty Options	Code	Price
3 years standard warranty	0	$0.00
Extended warranty (4 years total)	1	$366.00

Selection: ____ Price: $ ____

Your Model Part Number

Please write in numbers from selections above in appropriate boxes and contact your safety products distributor to place your order.

	Selection	A	B	C	D	E	F	G
A-ALT4XM-							M	

Add base unit price **$471.00**

Total Unit Price = **$** ____

All Pricing is in U.S. Dollars

ALTAIR® 5X **Multigas Detector**

Assemble-To-Order System and Pricing Guide • **Prices effective January 1, 2020**

MSA
The Safety Company

Replacement Parts/Kits

SPARE PARTS/REPLACEMENTS	PART NO.
BATTERY PACK ASSEMBLY, RECHARGEABLE	10114835
BATTERY PACK, ALKALINE (INCLUDES BELT CLIP)	10114837
BATTERY PACK, RECHARGEABLE, PID/IR	10114839
BELT CLIP REPLACEMENT KIT	10094830
FILTER COVER ASSEMBLY	10083591
FILTER COVER ASSEMBLY (PID)	10165275
MAINTENANCE KIT	10114949
MAINTENANCE KIT (PID)	10165285
MAINTENANCE KIT *(CL_2, ClO_2, NH_3)*	10114950
SHOULDER STRAP	474555
RETRACTABLE LINE WITH BELT CLIP	10050976
CARRYING CASE, CORDURA, UL ONLY	10040586
ALTAIR 5X HOLSTER, LEATHER	10099648
VEHICLE CHARGER	10099397
FRONT HOUSING WITH INTEGRATED FILTERS	10114853
FRONT HOUSING WITH INTEGRATED FILTERS (PID)	10165249
MULTI-UNIT CHARGER, ALTAIR 5X DETECTOR, 4-UNIT	10127427

CALIBRATION ACCESSORIES	PART NO.
DEMAND FLOW REGULATOR (UNIVERSAL)	10034391
CASE WITH GAS MISER® REGULATOR, DEMAND FLOW RP KIT *(includes tubing and fitting, less gas)*	10050985
CALIBRATION TUBING WITH QUICK-DISCONNECT FITTING	10041225
58L RP 60 PPM CO, 20 PPM H_2S, 15% O_2, 1.45% CH_4	10045035
58L RP 60 PPM CO, 20 PPM H_2S, 15% O_2, 1.45% CH_4, 2.5% CO_2	10103262
58L RP 60 PPM CO, 20 PPM H_2S, 15% O_2, 1.45% CH_4, 10 PPM SO_2	10117738
34L ECONO-CAL® CYLINDER, 60 PPM CO, 20 PPM H_2S, 15% O_2, 1.45% CH_4	10048280
34L ECONO-CAL CYLINDER, 60 PPM CO, 15% O_2, 1.45% CH_4	10048789
34L ECONO-CAL 100PPM ISOBUTYLENE	10048279
100L 100PPM ISOBUTYLENE	494450

For information on the ALTAIR 5X Galaxy GX2 System, see Galaxy GX2 System ATO bulletin (0818-21-MC).

SAMPLING ACCESSORIES	PART NO.
SAMPLING LINE, GENERAL PURPOSE, 10-FT PU	10153218
SAMPLING LINE, GENERAL PURPOSE, 15-FT PU	10153219
SAMPLING LINE WITH QUICK-DISCONNECT, 10-FT PU	10040665
SAMPLING LINE WITH QUICK-DISCONNECT, 25-FT PU	10040664
SAMPLING LINE WITH QUICK-DISCONNECT, 10-FT TEFLON	10049058
SAMPLING LINE WITH QUICK-DISCONNECT, 25-FT TEFLON	10049057
SAMPLING LINE WITH QUICK-DISCONNECT, 3-FT PU COILED	10040667
SAMPLING LINE WITH QUICK-DISCONNECT FOR REACTIVE GASES, 10-FT TEFLON STRAIGHT	10105839
GENERAL PURPOSE PROBE, CLEAR, 1-FT	10153041
PROBE, 1-FT	10042621
PROBE, 3-FT	10042622
QUICK-DISCONNECT ADAPTER	10161755
FILTER, WATER STOP, PACK OF 10	801582

SENSOR SPARE PARTS/REPLACEMENTS	PART NO.
KIT, XCell® Ex SENSOR, COMBUSTIBLE	10106722
KIT, XCell O_2 SENSOR	10106729
KIT, XCell CO/H_2S TWO-TOX SENSOR	10106725
KIT, XCell CO/H_2S-LC TWO-TOX SENSOR	10121213
KIT, XCell CO H_2-RES/H_2S TWO-TOX SENSOR	10121214
KIT, XCell CO-HC SENSOR	10121216
KIT, XCell NO_2/CO TWO-TOX SENSOR	10121217
KIT, REPLACEMENT, HCN	10106375
KIT, XCell CI_2 SENSOR REPLACEMENT	10106728
KIT, REPLACEMENT, ClO_2	10080222
KIT, XCell SO_2 SENSOR REPLACEMENT	10106727
KIT, REPLACEMENT, NO_2	10080224
KIT, XCell NH_3 SENSOR REPLACEMENT	10106726
KIT, REPLACEMENT, PH_3	10116638
KIT, REPLACEMENT, NO	10114750
KIT, REPLACEMENT, PID 10.6EV SENSOR	10165271
KIT, REPLACEMENT, PID 10.6EV LAMP	10165272
KIT, PID LAMP CLEANING	10165248
KIT, PID MAINTENANCE	10165247
XCell SENSOR PLUG	10105650
SENSOR PLUG, OXYGEN AND TOXICS (20 MM)	10088192

ALTAIR 5X Multigas Detector Features:

- Industry-first LEL, O_2, CO, H_2S, and SO_2 60-second span calibration and 10-second bump test time
- Thick rubberized housing provides a non-slip profile for secure grip, easily surviving a 10-ft drop
- MotionAlert™ feature activates when unit does not detect movement for 30 seconds, indicating "man down"
- InstantAlert™ feature offers manual activation of all alarms to alert others to potentially hazardous situations
- Minimum IP65 rating for dust and water ingress
- High resolution color display provides crystal clear visibility indoors or out, even in bright sunlight, where lesser displays fail to provide critical information. Display may be customized using your company's logo
- Monochrome display provides cost effective solutions without sacrificing basic functions expected from a high-end gas detector
- Multi-language capability to serve your needs virtually anywhere in the world, using one of many built-in languages
- GALAXY® GX2 System-compatible for automatic testing, calibration and record keeping
- Lithium-ion battery pack provides over 18 hours of run time with virtually no memory effects and fast battery recharge
- MSA Link™ Pro and MSA Link Software allows all stored records to be easily accessed for printed calibration reports and alarm set-point changes
- Visual, vibrating and audible alarms grab user's attention, indicating a potentially hazardous situation
- Large, ergonomically-designed buttons ensure easy reach and operation, even with gloved hands

Ordering Information

ALTAIR 5X Multigas Detector (UL approval), with quick-start card, data logging, charger, calibration tubing. CD manual.

DESCRIPTION	UL P/N	CSA P/N	PRICE
INSTRUMENT ONLY			
ALTAIR 5X DETECTOR MONO, (LEL, O_2, CO, H_2S)	10116924	10115118	$2,449.00
ALTAIR 5X DETECTOR MONO, (LEL, O_2, CO, H_2S, SO_2)	10116925	10115119	$3,094.00
ALTAIR 5X DETECTOR COLOR, (LEL, O_2, CO, H_2S, PID)	10165445		$4,730.00
STANDARD KITS - MONOCHROME DISPLAY, 10-FT SAMPLING LINE, 1-FT PROBE			
ALTAIR 5X DETECTOR MONO, (LEL, O_2, CO, H_2S)	10116926	10115120	$2,769.00
ALTAIR 5X DETECTOR MONO, (LEL, O_2, CO, H_2S, SO_2)	10116927	10115141	$3,414.00
DELUXE KITS - COLOR DISPLAY, 10-FT SAMPLING LINE, 1-FT PROBE			
ALTAIR 5X DETECTOR COLOR, (LEL, O_2, CO, H_2S)	10116928	10115142	$3,068.00
ALTAIR 5X DETECTOR COLOR, (LEL, O_2, CO, H_2S, SO_2)	10116929	10115143	$3,714.00
ALTAIR 5X DETECTOR COLOR, (LEL, O_2, CO, H_2S, PID)	10165446		$4,942.00

ALTAIR 5X Assemble-To-Order (ATO) Options

To select your configuration, select instrument options and mark the code in the selection boxes to the right. To calculate your cost, write the price for each option in the price box. Add up the total and write it in the "Total Unit Price" box below. Check MSA24 for additional options.

A — INSTRUMENT TYPE

All ALTAIR 5X Multigas Detectors come standard with data logging and MotionAlert and InstantAlert features. Choose your instrument type, equipped with internal pump. The monochrome full-graphic display is standard; a high-resolution crystal-clear color display with logo customization is optional.

Instrument Type	Code	Price
Pumped with monochrome display	A	$1,734.00
Pumped with color display	B	$2,077.00
Pumped with color display for PID (unit must be configured with PID sensor)	D	$3,113.00

Selection: ____ Price: $

B — COMBUSTIBLE SENSOR

Choose your combustible sensor calibration. To select 0-100% LEL pentane, please choose **L**; for 0-5% Vol methane choose **M**. For no combustible sensor, select **0** for none.

Combustible Sensor Options	Code	Price
None	0	$0.00
LEL 1- 100% pentane	L	$250.00
0-5% Vol methane	M	$250.00

Selection: ____ Price: $

C — SENSOR #1

To have an oxygen sensor installed in your new ALTAIR 5X Multigas Detector, please select **K**; if you plan on configuring the ALTAIR 5X Detector with two exotic sensors with CO/H2S, please select **1** for both CO and H2S sensors; for no sensor enter **0**.

Sensor #2 Options		Code	Price
None		0	$0.00
Oxygen	0-30%	K	$207.00
CO/H_2S	0-1999 ppm & 0-200 ppm	1	$260.00
CO	0-1999 ppm	2	$207.00
H_2S	0-200 ppm	3	$207.00
CO/H_2S-LC	0-1999 ppm & 0-99.9 ppm	4	$260.00
CO-HC	0-10,000 ppm	5	$404.00
CO/NO_2	0-1999 ppm & 50 ppm	6	$404.00
CO H_2-ResH_2S	0-1999 ppm & 0-200 ppm	7	$329.00

Selection: ____ Price: $

D — SENSOR #2

Choose your toxic gas sensor.

Sensor #3 Options		Code	Price
None		0	$0.00
SO_2	0-20 ppm	A	$646.00
Cl_2	0-10 ppm	B	$529.00
NO_2	0-20 ppm	C	$501.00
NH_3	0-100 ppm	D	$617.00
PH_3	0-5 ppm	E	$485.00
HCN	0-30 ppm	F	$442.00
ClO_2	0-1 ppm	G	$501.00
NO	0-200 ppm	H	$490.00

Selection: ____ Price: $

E — SENSOR #3

Choose your additional toxic gas sensors.

Sensor #4 Options		Code	Price
None		0	$0.00
CO/H_2S	0-1999 ppm & 0-200 ppm	1	$260.00
CO	0-1999 ppm	2	$207.00
H_2S	0-200 ppm	3	$207.00
CO/H_2S-LC	0-1999 ppm & 0-99.9 ppm	4	$260.00
CO-HC	0-10,000 ppm	5	$404.00
CO/NO_2	0-1999 ppm & 50 ppm	6	$404.00
CO H_2-ResH_2S	0-1999 ppm & 0-200 ppm	7	$329.00
SO_2	0-20 ppm	A	$646.00
Cl_2	0-10 ppm	B	$529.00
NH_3	0-100 ppm	D	$617.00

Selection: ____ Price: $

F — ADVANCED SENSOR

Add your advanced IR or PID sensor to complete your sensor suite in the ALTAIR 5X Multigas Detector. Combustible sensors are not available with CSA performance approvals.

Advanced Sensor Options		Code	Price
None		0	$0.00
10.6eV	0-2000 ppm	1	$849.00
CO_2	0-10% Vol	B	$958.00
Butane	0-25% Vol	D	$958.00
Propane	0-100% Vol	F	$958.00
Methane	0-100% Vol	L	$958.00

Selection: ____ Price: $

G — PACKAGING

For an economy plastic carrying case, choose **E**; for red, choose **R**; for standard carton packaging, choose **0**.

Packaging Options	Code	Price
Standard carton	0	$0.00
Economy plastic	E	$114.00
Red economy	R	$114.00

Selection: ____ Price: $

H — APPROVAL LABEL

Choose the applicable approval label for your area. For North America, choose **C**, for Europe choose **E**, for Australia, choose **A**.

Approval Label Options	Code	Price
NORTH AMERICA	C	$0.00
UL only *(no catalytic combustible sensor in unit)*	T	$0.00
Europe ATEX	E	$0.00
Australia	A	$0.00

Selection: ____ Price: $

I — LOGO EXPRESS® SERVICE

Upon startup, the ALTAIR 5X Multigas Detector can display your company logo or other information. Be sure to select color display for this option. To add your company logo, choose **L** and upload your logo to the web address which will be sent automatically to you via email. Your order with customized logo cannot be processed without uploading your logo.

Logo Express® Service Options	Code	Code
None	0	$0.00
Logo Express Service	L	$92.00

Selection: ____ Price: $

J — SAMPLING LINE AND PROBE KIT

MSA's quality sampling lines and probes are durable, easy to use and offer high speed and convenience using our quick-connect fittings. If you are sampling Cl_2, ClO_2 and/or NH_3, please select option **2**; for all other gases select options **S** or **1**. Options 1 and 2 come with quick disconnect sampling lines and probes. For no sampling line or probe, select **0**.

Sampling Line and Probe Kit Options	Code	Code
None	0	$0.00
1-ft clear probe and 10-ft PU Line	S	$200.00
1-ft probe and 10-ft PU line w/ QD	1	$321.00
1-ft probe and 10-ft teflon line w/ QD *(reactive gases)*	2	$321.00

Selection: ____ Price: $

Your Model Part Number

Please write in numbers from selections above in appropriate boxes and contact your safety products distributor to place your order.

Selection	A	B	C	D	E	F	G	H	I	J
A-ALT5X-										

Total Unit Price = $

All Pricing in U.S. Dollars

GALAXY® GX2 **Automated Test System**

Assemble-To-Order System and Pricing Guide • **Prices effective January 1, 2020**

GALAXY GX2 Automated Test System Kits / Must-Haves / Calibration Cylinders

GALAXY GX2 SYSTEM TEST STAND NORTH AMERICA POWER SUPPLY				
	1 Valve (for use with 1 calibration gas cylinder)		4 Valve (for use with 1-4 calibration gas cylinders)	
	Charging	No-charging	Charging	No-charging
ALTAIR / ALTAIR PRO SINGLE-GAS DETECTOR	–	10128644	–	10128643
ALTAIR 4/4X MULTIGAS DETECTOR	10128630	10128642	10128629	10128641
ALTAIR 5/5X MULTIGAS DETECTOR	10128626	10128628	10128625	10128627

CALIBRATION GAS	PART NO.
CALIBRATION GAS CYLINDER (34L) 1.45% CH4, 15% O2, 60 PPM CO, 20 PPM H2S	10048280
CALIBRATION GAS CYLINDER (54L) 1.45% CH4, 15% O2, 60 PPM CO, 20 PPM H2S	10045035
CALIBRATION GAS CYLINDER (58L) 1.45% CH4, 15% O2, 60 PPM CO, 20 PPM H2S, 10 PPM SO2	10117738
CALIBRATION GAS CYLINDER (34L) 1.45% CH4, 15% O2, 60 PPM CO, 20 PPM H2S, 10 PPM SO2	10098855
CALIBRATION GAS CYLINDER (58L) 1.45% CH4, 15% O2, 60 PPM CO, 20 PPM H2S, 2.5% CO2	10103262

OTHER MUST-HAVE ITEMS	PART NO.	
ELECTRONIC CYLINDER HOLDER	10105756	
ALTAIR 4XR/4X & 5X (2:2) MULTI-UNIT CHARGER	10161803	
ALTAIR 4XR/4X MULTI-UNIT CHARGER	10127422	

OTHER MUST-HAVE ITEMS	PART NO.	
ALTAIR 5/5X MULTI-UNIT CHARGER	10127427	
TEST STAND PRINTER	10127808	
SD MEMORY CARD	10127111	

Galaxy® Automated Test System Assemble-to-Order (ATO) Options

To create your configuration, select the instrument option codes and mark in the selection boxes to the right. To calculate your price, write in the price for each option in the price box to the right, add up the total, and write it in the "Total Unit Price" box below. Check MSA24 for additional options.

A — TEST STAND INSTRUMENT TYPE

Each instrument type has a dedicated GALAXY GX2 System test stand. 10 test stands can be banked together in any combination, allowing for ultimate flexibility.

Test Stand Options	Code	Price
ALTAIR/ALTAIR Pro/ALTAIR 2X Detector	A	$2,593.00
ALTAIR 4/4X Detector	B	$2,593.00
ALTAIR 5/5X Detector	C	$2,593.00

Selection: ____ Price: $ ____

B — ACTIVE CYLINDER PORTS

Single valve test stands allow for only one calibration cylinder to be used. 4 valves allow for 1-4 calibration cylinders to be accessed.

Calibration Cylinder Options	Code	Price
1 Valve / 1 Cylinder	1	$0.00
4 Valves / Up to 4 Cylinders	4	$300.00

Selection: ____ Price: $ ____

C — INSTRUMENT CHARGING

Instrument charging allows for a single instrument to be charged per test stand. Only available on ALTAIR® 4/4X and ALTAIR 5/5X Multigas Detector test stands. Choose Yes/1 if you wish to use the "always ready" function of ALTAIR 4X or ALTAIR 5X Detectors.

Charging Options	Code	Price
No	0	$0.00
Yes	1	$175.00

Selection: ____ Price: $ ____

D — SMART CYLINDER HOLDER

Smart cylinder holder provides calibration gas information and gas levels. Information such as part number, gas types, concentrations, expiration date, lot number, and real time pressure levels are automatically set up in the test stand. Smart cylinder holder provides end users with automated, remote warnings as to low or no gas and expired or nearly expired cylinders.

Smart Cylinder Holder Options	Code	Price
None	0	$0.00
1 Cylinder Holder	1	$1,310.00
2 Cylinder Holders	2	$2,620.00
3 Cylinder Holders	3	$3,930.00
4 Cylinder Holders	4	$5,240.00

Selection: ____ Price: $ ____

E — MULTI-UNIT CHARGER

Selection of ALTAIR 4/4X Detector and multi-unit charger provides charging for 1-4 ALTAIR 4/4X Detectors. Selection of ALTAIR 5/5X Detectors and multi-unit charger provides charging for 1-4 ALTAIR 5/5X Detectors. Additional units may be purchased from accessory list below.

Multi-unit Charger Options	Code	Price
None	0	$0.00
Multi-unit charger, ALTAIR 4/4X	B	$425.00
Multi-unit charger, ALTAIR 5/5X	C	$425.00
Multi-unit charger, ALTAIR 4/4X & 5/5X *(2 positions of each)*	D	$425.00

Selection: ____ Price: $ ____

F — POWER CORD

Each test stand (with the exception of Argentina version) comes with 6V power supply. Power cord option then chooses the appropriate power cord by region. None provides power supply and no power cord. Argentina version provides no power supply and no power cord.

Power Cord Options	Code	Price
North America	N	$0.00
Europe	E	$0.00
United Kingdom	U	$0.00
Australia	A	$0.00
Argentina	R	$0.00
None	0	$0.00

Selection: ____ Price: $ ____

H — SECURE DIGITAL USB

Allows end user to securely configure instrument set points at GALAXY GX2 System test stand. Must be inserted to process any setting changes to an instrument.

Secure Digital USB Options	Code	Price
None	0	$0.00
1 Secure Digital USB Key	A	$76.00

Selection: ____ Price: $ ____

Your Model Part Number

Please write in numbers from selections above in appropriate boxes and contact your safety products distributor to place your order.

Selection	A	B	C	D	E	F		H	
A-GX2-							0		0

Total Unit Price = $

All Pricing in U.S. Dollars

PART NO.	ACCESSORIES
10105756	ELECTRONIC CYLINDER HOLDER
10125135	NON-ELECTRONIC CYLINDER HOLDER
10127111	4 GB SD CARD
10123937	DIGITAL SECURE USB KEY
10125907	END CAP
10127422	ALTAIR 4/4X DETECTOR MULTI-UNIT CHARGER, NA
10127427	ALTAIR 5/5X DETECTOR MULTI-UNIT CHARGER, NA
10161803	ALTAIR 4X/5X DETECTOR 2:2 MULTI-UNIT CHARGER, NA
10127112	LAMINATED QUICK START GUIDE
10127518	12" (TBR) ETHERNET CABLE FOR TEST STAND TO TEST STAND CONNECTION
10126657	DIN RAIL CLIP KIT (2 CLIPS & SCREWS PER KIT)
10062364	TYPE OMEGA DIN RAIL 0.5M, PERFORATED, STEEL, ZINC-PLATED
10062365	TYPE OMEGA DIN RAIL 1M, PERFORATED, STEEL, ZINC-PLATED
10062366	TYPE OMEGA DIN RAIL 2M, PERFORATED, STEEL, ZINC-PLATED

PART NO.	ACCESSORIES
10082834	USB IR DONGLE (FOR USE WITH MSA LINK SOFTWARE)
10034391	DEMAND FLOW REGULATOR (UNIVERSAL)
710289	LARGE CAPACITY (<3000 PSI, NON H2S) DEMAND REGULATOR
10148159	LARGE CAPACITY (<3000 PSI, H2S) DEMAND REGULATOR
10124286	NA POWER SUPPLY (1 OF 2)
10127146	NA POWER CORD (2 OF 2)
10126268	VEHICLE POWER ADAPTER
10127808	PRINTER - DETECTOR OR RECEIPT STICKER
10126437	DETECTOR STICKER LABEL ROLL
10126138	RECEIPT & STICKER LABEL ROLL
10145138	PRINTER RIBBON

MSA G1 **SCBA Fire Service Edition**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA The Safety Company

A	B	C	D	E	F	G	H	J	K	L
System Pressure	**Cylinder Connection**	**Harness**	**Cradle Type**	**Lumbar Type**	**Regulator Type**	**Regulator Hose Type**	**Emergency Breathing Support**	**Speaker Module**	**PASS**	**Battery Type**
2 2216 psig 4352	**2** CGA Threaded Remote Connection 124	**1** Standard without Chest Strap 0	**M** Metal Band 81	**A** Adjustable Swiveling Lumbar Pad 152	**1** Purge cover Left Shoulder † 0	**C** Continuous 0	**0** None 0	**L** Left Chest † 0	**A** PASS Right Shoulder † 2758	**A** Alkaline 0
4 4500 psig 4229	**4** CGA Quick Connect Remote Connection 325	**2** Standard with Chest Strap 27		**B** Basic 0	**2** Solid cover Left Shoulder † 0	**Q** Quick Connect 519	**1** Waist Mounted Quick-Fill ◆ 822		**C** PASS Telemetry Right Shoulder † 3401	**R** Rechargeable * 0
5 5500 psig ◆ 4688		**3** Serviceable Tunnel without Chest Strap 125		**C** Basic, Solid buckle 0			**2** ExtendAire II 751		**E** PASS Right Shoulder w/ Integrated TIC † 4162	*If Telemetry is ordered R must be selected.*
		4 Serviceable Tunnel with Chest Strap 150		**D** Adjustable Swiveling, Solid buckle 152			**3** Waist Mounted Quick-Fill and ExtendAire II ◆ 1596		**G** PASS Telemetry Right Shoulder w/Integrated TIC † 4791	
		9 Serviceable Tunnel without Chest Strap No PASS 201		**1** Rescue Belt II Hook, 50' 1488			**4** Hose and pouch 994		**H** No PASS Right Shoulder †# 2758	
		10 Serviceable Tunnel with Chest Strap No PASS 228		**2** Rescue Belt II Carabiner, 50' 1488			**5** Waist-mounted Quick-Fill w/hose and pouch◆ 1817		**J** No PASS Telemetry Right Shoulder †# 3401	
				3 Rescue Belt II 50' FireTech Rope, Hook 1911			**6** ExtendAire II w/ hose and pouch 1745		**K** No PASS Right Shoulder w/ Integrated TIC †# 4162	
				4 Rescue Belt II, 50' FireTech Rope, Carabiner 1820			**7** Waist-mounted Quick-Fill w/hose and pouch, ExtendAire II ◆ 2590		**L** No PASS Telemetry Right Shoulder w/ Integrated TIC †# 4791	
				5 Rescue Belt II, Lightning Hook, 50' FireTech Rope 1891			**A** Pouch only 325			
				6 Rescue Belt II, Lightning Hook, 50' Aramid/ Nylon Rope 1826						
				7 Rescue Belt II, Lightning GT Hook, 50' FireTech Rope 1921						
				8 Rescue Belt II Lightning GT Hook, 50' Aramid/ Nylon Rope 1868						

◆ *SCBA to SCBA Transfilling is not available with the 5500psig operating system*
† *As Worn*
* *Charger sold separately*
\# *Can only be combined with Harness option 9 or 10*

Column: A B C D E F G H J K L

A-G1FS ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

PART NUMBERS (BOLD LEFT HAND COLUMNS)

☐ QUANTITY

A B C D E F G H J K L

$ $ $ $ $ $ $ $ $ $ $

LIST PRICE OF PARTS (RIGHT HAND COLUMNS)

= TOTAL G1 SCBA LIST PRICE

EXHIBIT 12

MSA G1 **SCBA Fire Service**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020 • Berry Compliance Edition**

MSA The Safety Company

A	B	C	D	E	F	G	H	J	K	L
System Pressure	**Cylinder Connection**	**Harness ***	**Cradle Type**	**Lumbar Type ***	**Regulator Type**	**Regulator Hose Type**	**Emergency Breathing Support ***	**Speaker Module**	**PASS**	**Battery Type**
2 2216 psig 4352	**2** CGA Threaded Remote Connection 124	**5** Standard without Chest Strap * 121	**M** Metal Band 78	**M** Adjustable Swiveling Lumbar Pad * 223	**1** Purge cover Left Shoulder † 0	**C** Continuous 82	**0** None * 0	**L** Left Chest † 244	**A** PASS Right Shoulder † 2842	**A** Alkaline 0
4 4500 psig 4236	**4** CGA Quick Connect Remote Connection 334	**6** Standard with Chest Strap * 185		**E** Adjustable Swiveling, Berry Compliant, Solid buckle * 152	**2** Solid cover Left Shoulder † 0	**Q** Quick Connect 514	**1** Waist Mounted Quick-Fill ◆ * 822		**C** PASS Telemetry Right Shoulder † 3302	**R** Rechargeable^ 0
5 5500 psig ◆ 4688		**11** Standard without Chest Strap, No PASS* 225					**2** ExtendAire II * 751		**E** PASS Right Shoulder w/ Integrated TIC † 4192	*If Telemetry is ordered R must be selected.*
		12 Standard with Chest Strap, No PASS * 249					**3** Waist Mounted Quick-Fill and ExtendAire II ◆ * 1596		**G** PASS Telemetry Right Shoulder w/Integrated TIC † 4652	
							4 Hose and pouch* 994		**H** No PASS Right Shoulder † 2842	
							5 Waist-mounted Quick-Fill w/hose and pouch ◆ * 1817		**J** No PASS Telemetry Right Shoulder † 3302	
							6 ExtendAire II w/ hose and pouch* 1745		**K** No PASS Right Shoulder w/integrated TIC † 4192	
							7 Waist-mounted Quick-Fill w/hose and pouch, ExtendAire II ◆ * 2590		**L** No PASS Telemetry Right Shoulder w/integrated TIC † 4652	
							A Pouch only * 325			

◆ *SCBA to SCBA Transfilling is not available with the 5500psig operating system*
† *As Worn*
* *Berry Amendment Compliant*
^ *Charger sold separately*

Column: A B C D E F G H J K L

A-G1FS [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

PART NUMBERS (BOLD LEFT HAND COLUMNS)

QUANTITY [ ]

A $ [ ] B $ [ ] C $ [ ] D $ [ ] E $ [ ] F $ [ ] G $ [ ] H $ [ ] J $ [ ] K $ [ ] L $ [ ]

LIST PRICE OF PARTS (RIGHT HAND COLUMNS)

= [ ]

TOTAL G1 SCBA LIST PRICE

MSA G1 **Facepiece**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA
The Safety Company

A	B	C	D	E	F	G
Application	**Size**	**Material**	**Nosecup**	**Head Harness**	**Neckstrap**	**Regulator Connection**
F Fire 359	**S** Small 0 **M** Medium 0 **L** Large 0	**1** Hycar 0	**0** None 0 **S** Small 31 **M** Medium 31 **L** Large 31	**0** None 0 **4** 4 pt Adjustable 53 **5** 5 pt Adjustable 53 **R** Rubber 25	**0** None 0 **C** Cloth 22 **R** Rubber 22	**1** Fixed Push-to-Connect 0

Note: Part numbered facepieces are also available.

Column:	A	B	C	D	E	F	G	
A-G1FP			1				1	

PART NUMBERS (BOLD LEFT HAND COLUMNS) — QUANTITY

A	B	C	D	E	F	G	
$	$	$	$	$	$	$	=

LIST PRICE OF PARTS (RIGHT HAND COLUMNS) — TOTAL G1 FACEPIECE LIST PRICE

MSA G1 **Industrial SCBA**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA
The Safety Company

A	B	C	D	E	F	G	H	I	J	K	L
SCBA Type	**Harness Assembly**	**Harness Chest Strap**	**Cylinder Cradle**	**Cylinder**	**Cylinder Handwheel**	**MMR Regulator Type**	**Pressure Gauge**	**Air-Line Attachment**	**Emergency Breathing System**	**Facepiece**	**Case**
1 2216 w/threaded cylinder connection 1166	**1** Nylon harness, no padding 0	**0** None 0	**1** Fabric band cradle 0	**A** None 0	**0** None 0	**A** Continuous hose, hard cover 0	**1** Standard pressure gauge 0	**A** None 0	**A** None 0	**A** None 0	**0** None 0
2 2216 w/quick-Connect cylinder connection 1744	**2** Nylon harness, shoulder pads only 126	**1** Chest strap 22	**2** Metal band cradle, turn latch 126	**B** 3AL aluminum, 2216 psi 757	**1** Non-locking 0	**B** Threaded hose, hard cover 0	**2** Pressure gauge with Quick-Fill® 335	**B** Snap-Tite, aluminum 277	**B** ExtendAire® II, universal coupler, less airline adapter 798	**B** Small w/small nosecup, 4-pt. polyester head harness 394	**1** Hard case 169
3 4500 w/threaded cylinder connection 1499	**3** Nylon harness, lumbar pad only 172			**C** 30' carbon, 2216 psi 1345	**2** Locking 22	**C** Quick connect hose, hard cover 335	**3** Pressure gauge with Quick-Fill, 3ft. hose w/Quick-Fill pouch 945	**C** Snap-Tite, stainless steel 372	**C** ExtendAire II, universal coupler, w/airline adapter Snap-Tite, aluminum 903	**C** Small w/small nosecup, 5-pt. rubber head harness 401	**2** Soft case 169
4 4500 w/quick-connect cylinder connection 2077	**4** Nylon harness, shoulder pads and lumbar pad 218			**D** 3AL aluminum, less air, 2216 psi 806	*Note: Only choose "none" if cylinder is not being purchased in Column E.*	**D** Universal quick connect hose, hard cover 335		**D** Snap-Tite, brass 277	**D** ExtendAire II, universal coupler, w/airline adapter, Snap-Tite, stainless steel 997	**D** Small w/small nosecup, 4-pt. Kevlar head harness 421	
	5 Kevlar harness, padding included 487			**E** 30' carbon, less air, 2216 psi 1427		**E** Continuous hose, purge cover 0		**E** Hansen, stainless steel, HK Series 377		**E** Small w/small nosecup, 5-pt. Kevlar head harness 421	
				F 30' carbon, 4500 psi 1149		**F** Threaded hose, purge cover 0		**F** Hansen, brass, 3000 Series 277		**F** Medium w/medium nosecup, 4-pt. polyester head harness 394	
				G 45' carbon, 4500 psi 1489				**G** Hansen, stainless steel, 3000 series 372		**G** Medium w/medium nosecup, 5-pt. rubber head harness 401	
				H 45' carbon, low profile, 4500 psi 1489				**H** Foster, steel 277	**G** ExtendAire II, universal coupler, w/airline adapter, Hansen, brass, 3000 series 903	**H** Medium w/medium nosecup, 4-pt. Kevlar head harness 421	
				J 60' carbon, 4500 psi 1832				**J** Foster, stainless steel 313		**J** Medium w/medium nosecup, 5-pt. Kevlar head harness 421	
				K 30' carbon, less air, 4500 psi 1197				**K** Foster, brass 277	**T** ExtendAire II, less airline adapter 798	**K** Large w/large nosecup, 4-pt. polyester head harness 394	
				L 45' carbon, less air, 4500 psi 1540				**L** Snap-Tite, locking, aluminum 356	**U** ExtendAire II, w/airline adapter, no quick-disconnect coupler 802	**L** Large w/large nosecup, 5-pt. rubber head harness 401	
				M 45' carbon, low profile, less air, 4500 psi 1540				**M** Snap-Tite, locking, stainless steel 450	**V** ExtendAire II w/airline adapter, Snap-Tite, aluminum 903	**M** Large w/large nosecup, 4-pt. Kevlar head harness 421	
				N 60' carbon, less air, 4500 psi 1882					**W** ExtendAire II w/airline adapter, Snap-Tite, stainless steel 997	**N** Large w/large nosecup, 5-pt. Kevlar head harness 421	
									Y ExtendAire II w/airline adapter, Hansen, stainless steel, HK series 997		

Column: A B C D E F G H I J K L

A-G1IN [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

PART NUMBERS (BOLD LEFT HAND COLUMNS)

QUANTITY [ ]

Note: Regulator keeper is included with every unit. Facepiece clip is included on Kevlar harnesses only. Neckstrap is not included.

A B C D E F G H I J K L

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LIST PRICE OF PARTS (RIGHT HAND COLUMNS)

= [ ]

TOTAL G1 INDUSTRIAL SCBA LIST PRICE

G1 PremAire® **Cadet Escape Respirator**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA The Safety Company

A	B	C	D	E	F	G	H
Type	**Carrier & Harness Type**	**Pad Option**	**Escape Cylinder**	**MMR Regulator**	**G1 Facepiece**	**Quick Disconnect**	**Case**
PCG PremAire Cadet Escape G1 — 755	**1** Nylon, strap carrier, standard — 189 **2** Kevlar, strap carrier, standard — 349 **3** Nylon, bag carrier, standard — 222 **4** Kevlar, bag carrier, standard — 454 *Aluminum escape cylinders are not compatible with bag carriers.*	**0** None — 0 **1** Shoulder — 59	**A** 5-minute aluminum — 424 **B** 10-minute aluminum — 501 **C** 5-minute carbon — 681 **D** 10-minute carbon — 661 **E** 15-minute carbon — 711 **F** 5-minute aluminum, less air — 467 **G** 10-minute aluminum, less air — 546 **H** 5-minute carbon, less air — 725 **J** 10-minute carbon, less air — 685 **K** 15-minute carbon, less air — 756	**A** G1 Regulator, purge cover — 0	**1** None — 0 **2** G1 Facepiece with 4-pt adjustable head harness, medium* — 421 **3** G1 Facepiece with 5-pt adjustable head harness, medium* — 421 **4** G1 Facepiece with rubber head harness, medium* — 401 *If desired facepiece is not available here, choose "None" and select from the G1 Facepiece ATO.*	**0** None — 0 **A** Snap-Tite, aluminum — 51 **B** Snap-Tite, stainless steel — 142 **C** Snap-Tite, brass — 54 **D** Hansen, stainless steel — 165 **E** Hansen, brass — 55 **F** Foster, steel — 67 **G** Foster, stainless steel — 270 **H** Foster, brass — 68 **J** Snap-Tite, locking, aluminum — 153 **K** Snap-Tite, locking, stainless steel — 853 **M** Snap-Tite, locking, brass — 333 **N** Foster, stainless steel — 140 **P** Cejn, locking — 95	**0** None — 0 **1** Hard plastic case — 176

** Facepiece includes nosecup, but does not include neckstrap.*

Column: A B C D E F G H

A PCG [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

PART NUMBER

[ ] QUANTITY

A B C D E F G H

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TOTAL G1 PREMAIRE CADET ESCAPE RESPIRATOR LIST PRICE

EXHIBIT 12

PremAire® Cadet **Escape Respirator**

Ordering Selection Matrix and Price List – Includes Responder Versions

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA The Safety Company

A	B	C	D	E	F	G	H	I	J
Type	**Carrier & Harness Type**	**Pad Option**	**Escape Cylinder**	**MMR Regulator**	**Facepiece**	**Nosecup**	**Head Harness**	**Quick Disconnect**	**Case**
PC PremAire Cadet Escape 660	**1** Nylon, strap carrier, standard 189	**0** None 0	**A** 5-minute aluminum 424	**A** Firehawk, push-to-connect, solid cover 0	**A** None 0	**0** None 0	**0** None 0	**0** None 0	**0** None 0
	2 Kevlar, strap carrier, standard 349	**1** Shoulder 59	**B** 10-minute aluminum 501	**C** Firehawk, slide-to-connect, solid cover 0	**B** Ultra Elite,hycar, small 306	**1** Ultra Elite, medium 55	**1** Ultra Elite rubber 37	**A** Snap-Tite, aluminum 51	**1** Hard plastic case 176
	3 Nylon, bag carrier, standard 222		**C** 5-minute carbon 681		**C** Ultra Elite,hycar, medium 306	**2** Ultra Elite, large 55	**2** Ultra Elite SpeeD-ON 101	**B** Snap-Tite, stainless steel 142	
	4 Kevlar, bag carrier, standard 454		**D** 10-minute carbon 661		**D** Ultra Elite,hycar, large 306		**3** Advantage 4000 rubber 37	**C** Snap-Tite, brass 54	
	Aluminum escape cylinders are not compatible with bag carriers.		**E** 15-minute carbon 711	*Firehawk, slide regulators not compatible with Advantage 4000 facepiece.*	**E** Ultra Elite,silicone, small 306	*Nosecup standard with Advantage 4000 facepiece.*	**4** Advantage 4000 Poly net 53	**D** Hansen, stainless steel 165	
			F 5-minute aluminum, less air 467		**F** Ultra Elite,silicone, medium 306		**5** Advantage 4000 Kevlar net 97	**E** Hansen, Brass 55	
			G 10-minute aluminum, less air 546		**G** Ultra Elite,silicone, large 306			**F** Foster, steel 67	
			H 5-minute carbon, less air 725		**H** Advantage 4000, hycar, small 211			**G** Foster, stainless steel 270	
			J 10-minute carbon, less air 685		**J** Advantage 4000, hycar, medium 211			**H** Foster, Brass 68	
			K 15-minute carbon, less air 756		**K** Advantage 4000, hycar, large 211			**J** Snap-Tite, locking, Aluminum 153	
					L Advantage 4000, silicone, small 211			**K** Snap-Tite, locking, stainless steel 853	
					M Advantage 4000, silicone, medium 211			**M** Snap-Tite, locking, brass 333	
					N Advantage 4000, silicone, large 211			**N** Foster, stainless steel 140	
					P Ultra Elite, hycar, responder, small 634			**P** Cejn, chrome 95	
					Q Ultra Elite, hycar, responder, medium 634				
					R Ultra Elite, hycar, responder, large 634				
					S Ultra Elite, Hycar, responder, small, communication ready 853				
					T Ultra Elite, hycar, responder, medium, communication ready 853				
					U Ultra Elite, hycar, responder, large, communication ready 853				

Column: A B C D E F G H I J

A PC [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

PART NUMBER

[ ] QUANTITY

A	B	C	D	E	F	G	H	I	J	
$	$	$	$	$	$	$	$	$	$	=

TOTAL RESPIRATOR LIST PRICE

EXHIBIT 12
BOS-2020-05-02 p.193/318

PremAire® **Supplied-Air Respirator System***

Ordering Selection Matrix and Price List

All prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA The Safety Company

A	B	C	D	E	F	G	H	I	J	K	L
Type	**Belt Assembly**	**Escape Cylinders**	**Dual-Supply**	**MMR Regulators ‡**	**Facepiece Type**	**Facepiece**	**Facepiece Size**	**Nosecup**	**Head Harness**	**Quick-Disconnect**	**Case**
PS Prem Aire System 781	**1** Nylon 291 **2** Urethane 195 **3** Nomex 359	**0** None 0 **1** 5-min right hip carbon fiber 839 **2** 5-min left hip carbon fiber 839 **3** 5-min right hip aluminum 534 **4** 5-min left hip aluminum 534 **5** 10-Min right hip carbon fiber 955 **6** 10-min left hip carbon fiber 955 **7** 10-min right hip aluminum 634 **8** 10-min left hip aluminum 634	**0** None 0 **1** 8" Hose less QD 115 **2** 15" Hose less QD 115	**E** Firehawk STC 30" solid cover 725 **F** Firehawk STC 42" solid cover 776 **G** Firehawk PTC 30" solid cover 742 **H** Firehawk PTC 42" solid cover 777 **J** Firehawk STC 30" no by-pass 705 **K** Firehawk STC 42" no by-pass 721 **L** Firehawk PTC 30" no by-pass 705 **M** Firehawk PTC 42" no by-pass 721 *Note: Must choose No By-Pass option when ordering a PremAire less escape cylinder.* *Note: Firehawk slide regulators not compatible with Advantage 4000 facepiece.*	**0** None 0 **1** Non-NFPA 0 **2** NFPA 133 *NFPA facepiece is Ultra Elite (UE).*	**0** None 0 **1** Ultra Elite hycar 307 **2** Ultra Elite silicone 307 **E** Advantage 4000, hycar, poly net harness 211 **F** Advantage 4000, silicone, poly net head harness 211 **G** Advantage 4000, hycar, rubber head harness 211 **H** Advantage 4000, silicone, rubber head harness 211 **J** Advantage 4000, hycar, Kevlar head harness 211 **K** Advantage 4000, silicone, Kevlar head harness 211	**0** None **S** Small **M** Medium **L** Large	**0** None (only if you have no facepiece) 0 **1** UE-medium 55 **2** UE-large 55	**0** None 0 **1** Ultra Elite, Rubber 37 **2** Ultra Elite, EZ-Don, small 53 **3** Ultra Elite, EZ-Don, medium 53 **4** Ultra Elite, EZ-Don, large 53 **5** Ultra Elite, SpeeD-ON 101 **6** Advantage 4000 rubber 37 **7** Advantage 4000 poly net 53 **8** Advantage 4000 Kevlar net 97	**A** None ♦ 0 **B** Snap-Tite alum 51 **C** Snap-Tite SST 142 **D** Snap-Tite brass 54 **E** Hansen SST 165 **F** Hansen brass 55 **G** Foster steel 67 **H** Foster SST 270 **I** Foster brass 68 **J** Cejn chrome 95 ♦ *Unit requires use of a Quick-Disconnect to maintain approval.* *Note: If you have selected the Dual-Supply option, you will need two of the same Quick-Disconnects. Just put one letter in the part number to indicate your selection, but when you calculate the price of your system, make sure you include a price for each Quick-Disconnect.*	**0** None 0 **1** Hard case 176 **2** Soft case 176

* *Note: This matrix must only be used for ordering complete PremAire Systems. This matrix cannot be used for ordering individual components (i.e., facepieces, escape cylinders, etc.). Please order components separately using their standard MSA part number.*

‡ *For applications strictly limited to non-IDLH atmospheres, NIOSH requires that the respirator system be configured without a bypass on the mask-mounted regulator (MMR). Please contact MSA Customer Service for more information.*

Column:	A	B	C	D	E		F	G	H	I	J		K		L
C	PS					-						-		-	

PART NUMBER

QUANTITY

A	B	C	D	E	F	G	H	I	J	K	L
$	$	$	$	$	$	$	$	$	$	$	$

= TOTAL RESPIRATOR LIST PRICE

EXC 6 PT2

AirHawk® II **Air Mask**

Ordering Selection Matrix and Price List

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA The Safety Company

A	B	C	D	E	F	G	H	I	J	K	L	M
SCBA Type	**Carrier/Harness Assembly**	**Lumbar Pad/ Rescue Belt †**	**Cylinder**	**MMR Regulator Type**	**Air-Line Options**	**Emergency Breathing System**	**Facepiece**	**Nosecup**	**Head Harness**	**Communications**	**Gauge/ Integrated PASS**	**Case**
L 2216 AirHawk II Air Mask 969	**A** AirFrame, Nylon Harness, Fabric Band, Plastic Buckle, Double Pull 232	**0** None 0	**0** None 0	**A** Firehawk PTC, single hose, solid cover 0	**0** None 0	**0** None 0	**A** None 0	**0** None 0	**0** None 0	**A** None 0	**A** Pressure Gauge 0	**0** None 0
	B AirFrame, Nylon Harness, Fabric Band, Plastic Buckle, Double Pull, W/Chest Strap 257	**1** Shoulder Pad 130	**1** 3AL Aluminum 757	**B** Firehawk PTC, QC, solid cover, 343	**1** Snap-Tite Aluminum 277	**1** Quick-Fill Shoulder Mounted 465	**B** Ultra Elite, Hycar, Small 306	**1** Medium 55	**1** Ultra Elite, Rubber, less neckstrap 37	**B** ClearCommand Ready 235	**F** Pressure Gauge with HUD 1743	**1** Hard Case 169
	C AirFrame, Nylon Harness, Steel Band, Plastic Buckle, Double Pull 356	**2** Standard Lumbar Pad 176	**3** 30' Carbon 1345	**C** Firehawk STC, single hose, solid cover 0	**2** Hansen SST 377	**2** ExtendAire (EBS) with Dual Quick Connect * 470	**C** Ultra Elite, Hycar, Medium 306	**2** Large 55	**2** Ultra Elite, SpeeD-on, less neckstrap 101	**C** ClearCommand Amp 835	**L** HUD Only 1743	**2** Soft Case 169
	D AirFrame, Nylon Harness, Steel Band, Plastic Buckle, Double Pull, W/Chest Strap 385	**3** Shoulder & Standard Lumbar Pad 223	**4** 3AL Aluminum, Less air 806	**D** Firehawk STC, QC, solid cover 343	**3** Hansen Brass 277	**3** Shoulder Mounted Quick-Fill & ExtendAire (EBS) with Dual Quick Connect 924	**D** Ultra Elite, Hycar, Large 306		**3** Ultra Elite, Rubber, with neckstrap 48	**D** ClearCommand Amp, RI (Less PTT) 1216		
	E AirFrame, Kevlar Harness, Fabric Band, Plastic Buckle, Double Pull 506	**4** Swiveling Lumbar Pad 171	**6** 30' Carbon, less air 1427	**S** Firehawk PTC, threaded hose, solid cover 0	**4** Foster Steel 277		**E** Ultra Elite, Silicone, Small 306		**4** Ultra Elite, SpeeD-on, with neckstrap 110			
	F AirFrame, Kevlar Harness, Fabric Band, Plastic Buckle, Double Pull, W/Chest Strap 550	**5** Shoulder & Swiveling Lumber Pad 299		**T** Firehawk, STC, threaded hose, solid cover 0	**5** Snap-Tite Locking Aluminum 355		**F** Ultra Elite, Silicone, Medium 306		**5** Advantage 4000, Rubber 37			
	G AirFrame, Kevlar Harness, Steel Band, Plastic Buckle, Double Pull 629	**N** Rescue Belt II, w/hook, 50' 1319	**0** None 0		**6** Foster SST 313		**G** Ultra Elite, Silicone, Large 306		**6** Advantage 4000, Poly Net 53			
	H AirFrame, Kevlar Harness, Steel Band, Plastic Buckle, Double Pull, W/Chest Strap 750	**P** Rescue Belt II, w/carabiner, 50' 1313	**1** 30' Carbon 1149	*Firehawk slide regulators not compatible with Advantage 4000 Facepieces*	**7** Snap-Tite SST 372		**H** Advantage 4000, Hycar, Small 211	*Nosecup stanard with Advantage 4000 Facepiece*	**7** Advantage 4000, Kevlar Net 97	*Communications not compatible with Advantage 4000 Facepiece*		
H 4500 AirHawk II Air Mask 1321	**J** AirFrame, Shoulder Pads, Reflective Kevlar Harness, Steel Band, Metal Buckle, Single Pull 1283	**R** Rescue Belt II, w/hook, FireTech Rope, 50' 1695	**2** 45' Carbon 1489		*Cannot use Air-Line Option if Rescue Belt is chosen.*		**J** Advantage 4000, Hycar, Medium 211		*Neckstrap not available with Advantage 4000 Facepiece*			
	K AirFrame, Shoulder Pads, Reflective Kevlar Harness, Steel Band, Metal Buckle, Double Pull 1267	**S** Rescue Belt II, w/carabiner, FireTech Rope, 50' 1558	**3** 45' Carbon, low profile 1489				**K** Advantage 4000, Hycar, Large 211					
	L AirFrame, Shoulder Pads, Reflective Kevlar Harness, Steel Band, Metal Buckle, Single Pull, W/Chest Strap 1299		**4** 60' Carbon 1832				**L** Advantage 4000, Silicone, Small 211					
	M AirFrame, Shoulder Pads, Reflective Kevlar Harness, Steel Band, Metal Buckle, Double Pull, W/Chest Strap 1343		**5** 30' Carbon, less air 1197				**M** Advantage 4000, Silicone, Medium 211					
	Options J and L can only be chosen if a rescue belt option is selected.		**6** 45' Carbon, less air 1540				**N** Advantage 4000, Silicone, Large 211					
			7 45' Carbon, low profile, less air 1540									
			8 60' Carbon, less air 1882									

† *Standard Rescue Belt fits waist sizes up to 54 inches.*

* *NIOSH Approved, Non NFPA Compliant*

Column: A B C D E F G H I J K L M

A-A2 ☐☐☐☐☐☐☐☐☐☐☐☐☐ PART NUMBER ☐ QUANTITY

A $☐ B $☐ C $☐ D $☐ E $☐ F $☐ G $☐ H $☐ I $☐ J $☐ K $☐ L $☐ M $☐ = ☐

TOTAL AIR MASK LIST PRICE

FireHawk® M7 **Responder Air Mask**

*Ordering Selection Matrix and Price List (NIOSH 42 CFR Part 84) **

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA The Safety Company

A	B	C	D	E	F	G	H	I	J	K	L
Air Mask Pressure	**Carrier/ Harness Assembly**	**Lumbar Pad/ Rescue Belt**	**Cylinder**	**Emergency Breathing Support**	**Facepiece**	**Nosecup**	**Head Harness**	**Electronic Communications**	**APR/PAPR Kits**	**Integrated PASS**	**Case**
L 2216 6318	**A** Single Pull without chest strap 1330	**0** None 0	**0** None 0	**0** None 0	**A** None 0	**0** None 0	**0** None 0	**A** None 0	**A** None 0	**A** PASS with thermal alarm activated 2633	**0** None 0
M 3000 6318	**B** Single Pull with chest strap 1372	**1** Swiveling Lumbar Pad 163	**3** 30' Carbon with air 1478	**1** Quick-Fill 502	**B** Hycar Small 712	**1** Medium 58	**2** SpeeD-ON less neck strap 67	**B** ClearCommand Ready with bracket 254	**B** APR 18" tube 359	**B** PASS without thermal alarm activated 2633	**1** Hard Case 180
H 4500 6318	**C** Double Pull without chest strap 1388	**G** Rescue Belt II, w/hook, 50' 1440	**6** 30' Carbon less air 1583	**2** ExtendAire I 528	**C** Hycar Medium 712	**2** Large 58	**4** SpeeD-ON with neck strap 84	**C** ClearCommand Amp 791	**C** APR 22" tube 412		**2** Soft Case 180
	D Double Pull with chest strap 1425	**H** Rescue Belt II w/ carabiner, 50' 1440		**3** Quick-Fill and ExtendAire I 1030	**D** Hycar Large 712			**D** ClearCommand Amp/RI 1209	**D** APR 18" tube with PAPR kit 1773		
	Options A & B can only be chosen if a rescue belt is selected.	**J** Rescue Belt II, w/hook FireTech rope, 50' 1869	**0** None 0	*If choosing an Air Mask Pressure M, M is not compatible with Quick-Fill.*					**E** APR 22" tube with PAPR kit 1810		
		K Rescue Belt II, w/carabiner FireTech rope, 50' 1715	**0** None 1773								
		If choosing a rescue belt, the carrier/ harness assembly must be a single pull (options A or B).	**1** 30+ Carbon with air 1821	**A** ExtendAire II 802							
			2 30+ Carbon less air 0	**B** ExtendAire II with Quick-Fill 1315							
			0 None 0	**C** ExtendAire I & II 1330							
			1 30' Carbon with air 1267	**D** ExtendAire I & II with Quick-Fill 1826							
			2 45' Carbon with air 1636								
			3 45' Carbon H-45 SL 1636								
			4 60' Carbon with air 2006								
			5 30' Carbon less air 1330								
			6 45' Carbon less air 1689								
			7 45' Carbon H-45 SL less air 1689								
			8 60' Carbon less air 2085								

** Special note regarding approvals – Approvals are only available (and were obtained) for each component (APR and PAPR) as an independent CBRN respirator. Although the APR, PAPR and SCBA have been evaluated for seamless convertibility in a contaminated environment, there is currently no standard for which to seek this type of system approval and they have not been evaluated by NIOSH. Users are required to convert among modes in an uncontaminated environment. Please see user's instructions for specific approval information and limitations.*

Column: A B C D E F G H I J K L

A-M7R [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

PART NUMBER

[ ] QUANTITY

A [$] B [$] C [$] D [$] E [$] F [$] G [$] H [$] I [$] J [$] K [$] L [$]

[=]

TOTAL AIR MASK LIST PRICE

EXHIBIT 12

V-Gard® **Protective Helmet**

Ordering Selection Matrix / Most Common Configurations

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA
The Safety Company

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Country	**Item Quantity**	**Cap Type, Color, Suspension**	**Logo Order Type**	**Logo Location Front**	**Logo Location Right**	**Logo Location Left**	**Logo Location Back**	**Stripe Type**	**Stripe Quantity**	**Stripe Location Front**	**Stripe Location Back**	**Stripe Location Left**	**Stripe Location Right**	**Total Logoed Order Quantity**
1 US/ANSI	**A** 20	**AAB** V-Gard Hat, White, Fas-Trac Ratchet Suspension 24.03	**0** Without Logos	**0** No Logo	**0** No Logo	**0** No Logo	**0** No Logo	**0** None	**0** 0	**0** N/A	**0** N/A	**0** N/A	**0** N/A	**0** None
2 Canada/ CSA	**B** 40	**ABB** V-Gard Hat, Blue, Fas-Trac Ratchet Suspension 24.03	**1** New Logo Order	**1** 1 Color	**1** 1 Color	**1** 1 Color	**1** 1 Color	**A1** 1 x 4 Silver, R100 2.54	**1** 1 Stripe Type List Price	**1** Front, As Worn	**2** Back, As Worn	**2** Left Side, As Worn	**2** Right Side, As Worn	**A** 20 10.12
	C 60	**ACB** V-Gard Hat, Yellow, Fas-Trac Ratchet Suspension 24.03	**2** Repeat Logo Order	**2** 2 Colors	**2** 2 Colors	**2** 2 Colors	**2** 2 Colors	**A3** 1 x 4 Silver, R500 5.29	**2** 2 Stripe Type List Price					**B** 40 6.74
	D 80	**ADB** V-Gard Hat, Red, Fas-Trac Ratchet Suspension 24.03		**3** 3 Colors	**3** 3 Colors	**3** 3 Colors	**3** 3 Colors	**B0** 1 x 4 Red 2.54	**3** 3 Stripe Type List Price					**C** 60 5.76
	E 100+	**AFB** V-Gard Hat, Green, Fas-Trac Ratchet Suspension 24.03		**4** 4 Colors	**4** 4 Colors	**4** 4 Colors	**4** 4 Colors	**C0** 1 x 4 Blue 2.54	**4** 4 Stripe Type List Price					**D** 80 4.80
		BAB V-Gard Cap Standard, White, Fas-Trac Ratchet Suspension 18.01		**U** Unknown Colors	**U** Unknown Colors	**U** Unknown Colors	**U** Unknown Colors	**D0** 1 X 4 Yellow 2.54						**E** 100+ 2.63
		BBB V-Gard Cap Standard, Blue, Fas-Trac Ratchet Suspension 18.01						**E0** 1 X 4 Orange 2.54						
		BCB V-Gard Cap Standard, Yellow, Fas-Trac Ratchet Suspension 18.01						**F1** 1 X 8 Silver, R100 6.47						
		BDB V-Gard Cap Standard, Red, Fas-Trac Ratchet Suspension 18.01						**F3** 1 X 8 Silver, R500 9.50						
		BFB V-Gard Cap Standard, Green, Fas-Trac Ratchet Suspension 18.01						**G1** .75 X 20 Silver/White 14.47						
								H1 .75 X 20 Blue, R100 14.47						
								J1 .5 X 26.5 Silver/White, R100 17.78						
								K0 .5 X 26.5 White 17.78						
								L1 1.25 X 20 Silver, R100 24.70						
								L3 1.25 X 20 Silver, R500 28.51						
								M2 1.25 X 20 Lime/Yellow, R175 28.51						
								N2 N2 1.25 X 20 Red/ Orange, R175 28.51						
								P0 Cresent w/Black Letters Silver/White Paramedics 9.96						
								Q0 Cresent w/Black Letters Silver/White Search & Rescue 9.96						
								R0 Cresent w/ Black Letters Silver/White First Responder 9.96						
								S0 Cresent w/ Black Letters Silver/White Custom 25.77						
								T1 .6875 X 8.75 Blue, R100 8.84						
								U1 1 X 20 Red, R100 14.07						
								V1 .6875 X 16.25 Red, R100 11.51						
								W1 .5 X 29 BG & E Green, R100 18.14						
								X1 .6875 X 21.5 Bovis Blue, R100 16.26						
								Y0 1 X 4 Lime/Yellow 5.35						
								Z0 1 X 4 Red/Orange 5.35						

Column: A B C D E F G H I J K L M N O

A-VGD [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

PART NUMBER

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A B C D E F G H I J K L M N O

$ $ $ $ $ $ $ $ $ $ $ $ $ $ $ =

TOTAL V-GARD LIST PRICE

V-Gard® Green **Protective Helmets**

Ordering Selection Matrix

All Prices in U.S. Dollars • **Prices Effective January 1, 2020**

MSA
The Safety Company

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Country	**Item Quantity**	**Types**	**Shell Color**	**Suspension Type**	**Logo Order Type**	**Logo Location Front**	**Logo Location Right**	**Logo Location Left**	**Logo Location Back**	**Stripe Type**	**Stripe Quantity**	**Stripe Location Front**	**Stripe Location Back**	**Stripe Location Left**	**Stripe Location Right**	**Total Logoed Order Quantity**
1 US/ANSI 0	**A** 20 0	**A** V-Gard Green Cap, Standard 22.38	**A** White 0	**A** Ratchet (Fas-Trac) 0	**0** Without Logos 0	**0** No Logo 0	**0** No Logo 0	**0** No Logo 0	**0** No Logo 0	**0** None 0	**0** 0 0	**0** N/A 0	**0** N/A 0	**0** N/A 0	**0** N/A 0	**0** None 0
2 Canada/ CSA 0	**B** 40 0	**B** V-Gard Green Full Brim Hat, standard 28.91	**B** Blue 0		**1** New Logo Order 0	**1** 1 Color 0	**1** 1 Color 0	**1** 1 Color 0	**1** 1 Color 0	**A1** 1 x 4 Silver, R100 2.54	**1** 1 Stripe Type List Price	**1** Front, As Worn 0	**2** Back, As Worn 0	**3** Left Side, As Worn 0	**4** Right Side, As Worn 0	**A** 20 10.12
	C 60 0		**C** Yellow 0		**2** Repeat Logo Order 0	**2** 2 Colors 0	**2** 2 Colors 0	**2** 2 Colors 0	**2** 2 Colors 0	**A3** 1 x 4 Silver, R500 5.29						**B** 40 6.74
	D 80 0		**D** Red 0			**3** 3 Colors 0	**3** 3 Colors 0	**3** 3 Colors 0	**3** 3 Colors 0	**B0** 1 x 4 Red 2.54	**2** 2 Stripe Type List Price					**C** 60 5.76
	E 100+ 0		**E** Green 0			**4** 4 Colors 0	**4** 4 Colors 0	**4** 4 Colors 0	**4** 4 Colors 0	**C0** 1 x 4 Blue 2.54						**D** 80 4.80
						U Unknown Colors 0	**U** Unknown Colors 0	**U** Unknown Colors 0	**U** Unknown Colors 0	**D0** 1 X 4 Yellow 2.54	**3** 3 Stripe Type List Price					**E** 100+ 2.63
										E0 1 X 4 Orange 2.54						
										F1 1 X 8 Silver, R100 6.47	**4** 4 Stripe Type List Price					
										F3 1 X 8 Silver, R500 9.50						
										G1 .75 X 20 Silver/White 14.47						
										H1 .75 X 20 Blue, R100 14.47						
										J1 .5 X 26.5 Silver/White, R100 17.78						
										K0 .5 X 26.5 White 17.78						
										L1 1.25 X 20 Silver, R100 24.70						
										L3 1.25 X 20 Silver, R500 28.51						
										M2 1.25 X 20 Lime/Yellow, R175 28.51						
										N2 N2 1.25 X 20 Red/ Orange, R175 28.51						
										P0 Cresent w/Black Letters Silver/White Paramedics 9.96						
										Q0 Cresent w/Black Letters Silver/White Search & Rescue 9.96						
										R0 Cresent w/ Black Letters Silver/White First Responder 9.96						
										S0 Cresent w/ Black Letters Silver/White Custom 25.77						
										T1 .6875 X 8.75 Blue, R100 8.84						
										U1 1 X 20 Red, R100 14.07						
										V1 .6875 X 16.25 Red, R100 11.51						
										W1 .5 X 29 BG & E Green, R100 18.14						
										X1 .6875 X 21.5 Bovis Blue, R100 16.26						
										Y0 1 X 4 Lime/Yellow 5.35						
										Z0 1 X 4 Red/Orange 5.35						

Column: A B C D E F G H I J K L M N O P Q

A-GRN [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

PART NUMBER

[ ] QUANTITY

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	
$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	$	=

TOTAL V-GARD GREEN LIST PRICE

EXHIBIT 12

Ordering Selection **Matrix**

for V-Gard®, V-Gard 500, SmoothDome and Super-V Protective Helmets

MSA
The Safety Company

Ordering Selection Matrix • **Effective January 1, 2020**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Country	**Item Quantity**	**Cap Type**	**Shell Color**	**Suspension Type**	**Logo Order Type**	**Logo Location Front**	**Logo Location Right**	**Logo Location Left**	**Logo Location Back**	**Stripe Type**	**Stripe Quantity**	**Stripe Location Front**	**Stripe Location Back**	**Stripe Location Left**	**Stripe Location Right**	**Total Logoed Order Quantity**
1 US/ANSI **2** Canada/ CSA	**For Codes A-F & H in Option C:** **A** 20 **B** 40 **C** 60 **D** 80 **E** 100+ **For Code G in Option C:** **F** 24 **G** 36 **H** 60 **I** 72 **J** 96 **L** 48 **M** 84	**A** V-Gard Hat **B** V-Gard Cap, Standard Size **C** V-Gard Cap, Small **D** V-Gard Cap, Large **E** V-Gard 500 Cap, Vented **F** V-Gard 500 Cap, Nonvented **G** Super V Cap **H** Smoothdome Cap **I** V-Gard 500 Hat, Full Brim Vented **J** V-Gard 500 Hat, Full Brim Non-Vented	**A** White **B** Blue **C** Yellow **D** Red **E** Orange **F** Green **G** Gray **H** Hi-Vis Orange **J** Bright Lime Green **K** Hi-Vis Yellow Green **L** Silver **M** Black **N** Light Buff **P** Canadian Blue **R** American Flag **S** Canadian Flag (White) **U** American Flag, Stripe **V** American Flag, Eagle **W** Camouflage **Y** Other **1** Gold **2** Robin Egg Blue **3** Brown **4** Tan **5** Burgundy **6** Turquoise **7** Pink **8** Purple **9** Fluorescent Orange **10** Canadian Flag, Black **11** American Flag, Black **12** Flames, Black Fire **13** Red/Black (Black) **14** Extreme Hi-Vis Yellow/Green **15** Hot Pink	**A** Staz-On **B** Fas-Trac Ratchet **D** Swing Ratchet **E** 1-Touch **F** 4-Point Fas-Trac for V-Gard 500 **G** 4-Point 1-Touch for V-Gard 500 **H** 6-Point Fas-Trac for V-Gard 500/ Smoothdome **J** 1-Touch for Smoothdome	**0** Without Logos **1** New Logo Order **2** Repeat Logo Order	**0** No Logo **1** 1 Color **2** 2 Colors **3** 3 Colors **4** 4 Colors **U** Unknown Colors	**0** No Logo **1** 1 Color **2** 2 Colors **3** 3 Colors **4** 4 Colors **U** Unknown Colors	**0** No Logo **1** 1 Color **2** 2 Colors **3** 3 Colors **4** 4 Colors **U** Unknown Colors	**0** No Logo **1** 1 Color **2** 2 Colors **3** 3 Colors **4** 4 Colors **U** Unknown Colors	**0** None **A1** 1 x 4 Silver, R100 **A3** 1 x 4 Silver, R500 **B0** 1 x 4 Red **C0** 1 x 4 Blue **D0** 1 X 4 Yellow **E0** 1 X 4 Orange **F1** 1 X 8 Silver, R100 **F3** 1 X 8 Silver, R500 **G1** .75 X 20 Silver/White **H1** .75 X 20 Blue, R100 **J1** .5 X 26.5 Silver/White, R100 **K0** .5 X 26.5 White **L1** 1.25 X 20 Silver, R100 **L3** 1.25 X 20 Silver, R500 **M2** 1.25 X 20 Lime/Yellow, R175 **N2** N2 1.25 X 20 Red/ Orange, R175 **P0** Cresent w/Black Letters Silver/White Paramedics **Q0** Cresent w/Black Letters Silver/White Search & Rescue **R0** Cresent w/ Black Letters Silver/White First Responder **S0** Cresent w/ Black Letters Silver/White Custom **T1** .6875 X 8.75 Blue, R100 **U1** 1 X 20 Red, R100 **V1** .6875 X 16.25 Red, R100 **W1** .5 X 29 BG & E Green, R100 **X1** .6875 X 21.5 Bovis Blue, R100 **Y0** 1 X 4 Lime/Yellow **Z0** 1 X 4 Red/Orange	**0** 0 **1** 1 **2** 2 **3** 3 **4** 4	**0** N/A **1** Front, As Worn	**0** N/A **2** Back, As Worn	**0** N/A **2** Left Side, As Worn	**0** N/A **2** Right Side, As Worn	**0** None **A** 20 **B** 40 **C** 60 **D** 80 **E** 100+

PLEASE NOTE: *To obtain pricing for your specific configuration, please contact MSA Customer Service at 1-800-672-2222.*

Column:	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q		
A-VGD																			
									PART NUMBER									QUANTITY	

EXHIBIT 12
BOS2020-05-12 p.199/318

NOTES

NOTES

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Our Mission

MSA's mission is to see to it that men and women may work in safety and that they, their families and their communities may live in health throughout the world.

MSA: WE KNOW WHAT'S AT STAKE.

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit ***MSAsafety.com/offices***.

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EX6 PT3
BOS-2020-05-06 p.203/318

Fire Service **Equipment**

2020 HGAC Catalog

MSA
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WHEN YOU GO IN, WE GO IN WITH YOU.

Fire Service **Equipment**

Products for today that drive the future

As your emergency responder duties expand, as well as your exposure to hazards, MSA continues to provide more emergency response products to exceed your expectations and requirements. MSA supports firefighters and recognizes your role as the front line of protecting others. We are constantly improving products that you have come to rely upon as the best in the industry, to make your job safer and easier. For your protection, you can count on MSA for the most technologically advanced products, and for the best support and training assistance.

We are committed to you

Working closely with firefighters and rescue teams for over 100 years, MSA's premier focus continues to be the fire service for product innovations, improvements and service. From our Cairns® Fire Helmets, Evolution® Series Thermal Imaging Cameras and breakthrough ALTAIR® Gas Detectors, to the most advanced, safety driven breathing apparatus we've ever produced, the G1 SCBA, you can rely upon MSA to offer the very best in personal protective equipment. Your options in gas detection instruments and fall protection/rescue systems are more numerous and better than ever. Our MSA-U® Training Center online training tool provides in-depth product training with team-tracking capability that allows 24/7 instruction for your entire squad. And now Globe, the world's leading maker of innovative protective clothing for firefighters, is part of MSA. Equipping firefighters with the highest level of protection—head to toe, Cairns helmet to Globe boots—no one is as committed to your health and safety as we are.

Our people set us apart from the competition

MSA's SCBA are manufactured at our award-winning Murrysville, PA facility. Whether your needs include the revolutionary G1 SCBA, an Evolution® TIC from our Cranberry, PA plant or a Cairns® Helmet made in Jacksonville, NC, you can be sure that each of them has been made with the dedicated care and skill of an MSA associate whose average time on the job of 18 years means consistent quality, time after time.

Assistance is everywhere

Your personalized service starts locally with your trained MSA-authorized distributor and MSA's fire service field sales managers. To locate your nearest MSA fire service distributor, or find an answer to an urgent technical question, our award-winning, dedicated team of customer service professionals is ready to help, as they understand your hazards as well as regulatory compliance. Contact them at **1-877-MSA-FIRE** or visit us at **www.MSAFIRE.com**.

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FIND THE HOT SPOTS. AND THE HEARTBEATS.

MSA provides personal thermal imaging to every firefighter—from 360 to rescue; egress to overhaul.

The FIRST and ONLY TIC Integrated Directly into the SCBA

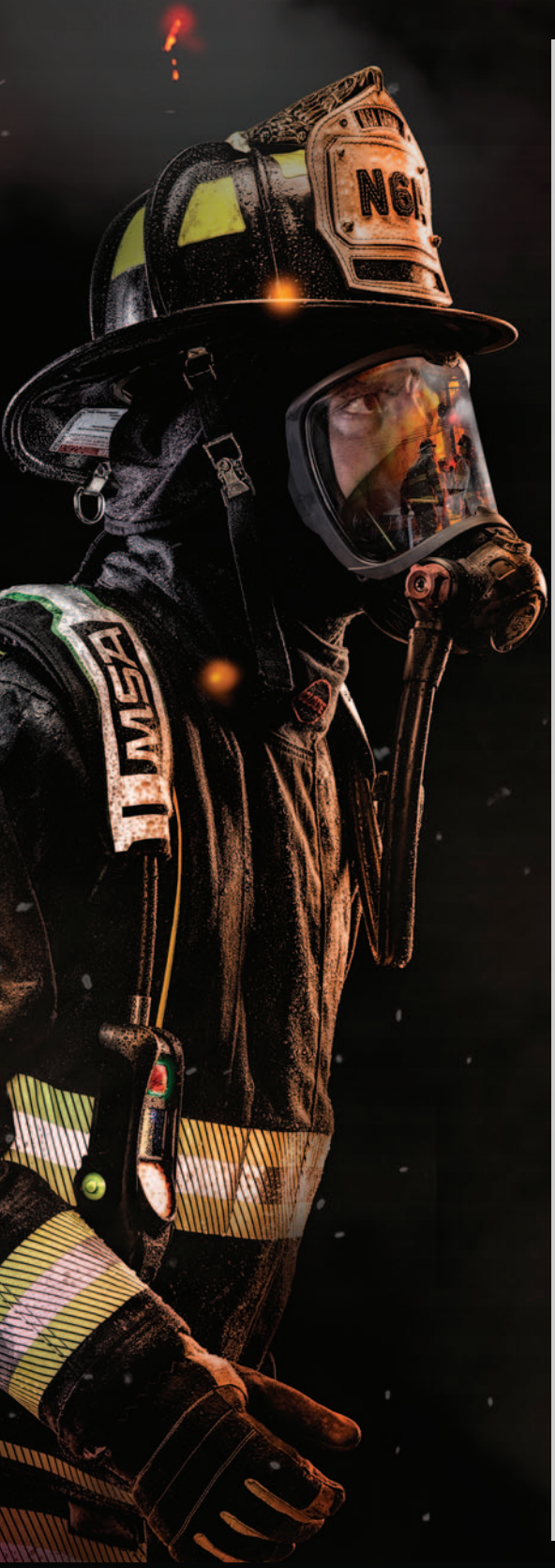
- No additional bulky equipment added to your facepiece or hanging from your gear
- Compatible with all G1 SCBA via simple field upgrade
- Powered by the G1 SCBA's single integrated power source—never check multiple battery locations again
- Single button functionality allows for simple, intuitive use

Take Advantage of the Latest Technology

- Lightweight—only adds 4.2 oz. compared to standard MSA G1 Control Module
- Up to five user-selectable palettes—10+ additional palettes available via MSA A2 Software
- 220 x 176 resolution ensures crystal clear images
- Compliant to the 2018 version of the NFPA 1981 and 1982 standards
- A full five-year warranty on thermal imager—Additional 15 years extended warranties available

MSA
The Safety Company

The MSA G1 SCBA stands out from the crowd.



1. FACEPIECE

- Open port design with cross-contamination protection
- Comfortable and easy to use, with low breathing resistance on and off air
- Zero electronics, reducing weight, snag hazards and cost

2. CONTROL

- Integrated Thermal Imaging Camera (TIC) allows firefighter to see within dark, smoke-filled environments
- Five user-selectable palettes—10+ additional programmable palettes available via MSA A2 Software
- Compatible with all G1 SCBA via simple field upgrade
- Control module provides both color LCD and analog displays
- Display automatically turns on when control module is lifted into viewing position
- No matter which button is pressed, necessary information displays
- Improved visibility through *buddy lights*

3. SITUATIONAL AWARENESS

- Wide field of view through the G1 Facepiece
- Seven three-stage buddy lights providing 360-degree visibility of pressure status
- Highly reflective material on shoulder straps and cylinder band
- Optional integrated TIC provides visibility when it is needed most

4. INFORMATION

- HUD provides more information than ever before and can be customized to meet your SOP; cylinder pressure, battery status, evacuation (optional), and so much more

5. COMMUNICATIONS

- Loud and clear communications are included with every G1 SCBA
- Intelligently removes background and inhalation noise, helping your commands to be heard

6. COMFORT

- Swiveling, adjustable lumbar pad properly positions SCBA weight
- Improved comfort, balance, fit

7. MSA G1 5500 SCBA

Staying at the forefront of safety means constantly evolving to meet the ever-changing demands you face each day on the job. Helping meet these demands MSA's tried-and-trusted G1 SCBA now comes available in a 5500 psig operating system. The MSA G1 offers our lowest profile, most comfortable, streamlined, balanced and configurable SCBA with the lightest weight 5500 psi cylinders on the market today

8. POWER

- Single power source
- Uses alkaline or rechargeable battery
- Eliminates the need to maintain multiple battery sizes or multiple battery locations
- Low cost of ownership

9. READY FOR THE FUTURE

- Bluetooth connectivity, RFID, Near Field Communication (NFC), long-range radio
- Quickly update the G1 SCBA with the latest advancements through Bluetooth technology, ensuring the SCBA you buy today can easily adapt to meet your needs far into the future

10. BUILT JUST FOR YOU

- Control module and HUD display required information; easily customized to meet your existing standard operating procedure
- Modular designs allows for quick component change

BOLTON EX6 BTS p.208/318

How to Order SCBA: Get the Exact Model You Need

The MSA Assemble-To-Order System (ATO) makes ordering the right mask fast and easy. Instead of choosing from a handful of complete air mask assemblies, you can order a custom-made air mask with every option exactly as desired. Contact MSA Customer Service for details.

Assemble-To-Order System for the MSA G1 SCBA

A	B	C	D	E	F	G	H	J	K	L
System Pressure	**Cylinder Connection**	**Harness**	**Cradle Type**	**Lumbar Type**	**Regulator Type**	**Regulator Hose Type**	**Emergency Breathing Support**	**Speaker Module**	**PASS**	**Battery Type**
2 2216 psig **4** 4500 psig **5** 5500 psig ◆	**2** CGA Threaded Remote Connection **4** CGA Quick Connect Remote Connection	**1** Standard without Chest Strap **2** Standard with Chest Strap **3** Serviceable Tunnel without Chest Strap **4** Serviceable Tunnel with Chest Strap **9** Serviceable Tunnel without Chest Strap No PASS **10** Serviceable Tunnel with Chest Strap No PASS	**M** Metal Band	**A** Adjustable Swiveling Lumbar Pad **B** Basic **C** Basic, Solid buckle **D** Adjustable Swiveling, Solid buckle **E** Adjustable Swiveling, Berry Compliant, Solid buckle **1** Rescue Belt II Hook, 50' **2** Rescue Belt II Carabiner, 50' **3** Rescue Belt II 50' FireTech Rope, Hook **4** Rescue Belt II, 50' FireTech Rope, Carabiner **5** Rescue Belt II, Lightning Hook, 50' FireTech Rope **6** Rescue Belt II, Lightning Hook, 50' Aramid/ Nylon Rope **7** Rescue Belt II, Lightning GT Hook, 50' FireTech Rope **8** Rescue Belt II Lightning GT Hook, 50' Aramid/ Nylon Rope	**1** Purge cover Left Shoulder † **2** Solid cover Left Shoulder †	**C** Continuous **Q** Quick Connect	**0** None **1** Waist Mounted Quick-Fill ◆ **2** ExtendAire II **3** Waist Mounted Quick-Fill and ExtendAire II ◆ **4** Hose and pouch **5** Waist-mounted Quick-Fill w/hose and pouch◆ **6** ExtendAire II w/ hose and pouch **7** Waist-mounted Quick-Fill w/hose and pouch, ExtendAire II ◆ **A** Pouch only	**L** Left Chest †	**A** PASS Right Shoulder † **C** PASS Telemetry Right Shoulder † **E** PASS Right Shoulder w/ Integrated TIC † **G** PASS Telemetry Right Shoulder w/Integrated TIC † **H** No PASS Right Shoulder †# **J** No PASS Telemetry Right Shoulder †# **K** No PASS Right Shoulder w/ Integrated TIC †# **L** No PASS Telemetry Right Shoulder w/ Integrated TIC †#	**A** Alkaline **R** Rechargeable * *If Telemetry is ordered R must be selected.*

◆ *SCBA to SCBA Transfilling is not available with the 5500psig operating system*
† *As Worn*
* *Charger sold separately*
\# *Can only be combined with Harness option 9 or 10*

Column: A B C D E F G H J K L
A-G1FS [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]
PART NUMBERS (BOLD LEFT HAND COLUMNS)

[ ]
QUANTITY

MSA G1 SCBA Facepieces

Part No.	Type	Size	Nosecup Size	Head Harness	ATO Configuration
10156458	Fire service	Small	Small	4-pt. adjustable	G1FP-F-S-1-S-4-0-1
10156459	Fire service	Medium	Medium	4-pt. adjustable	G1FP-F-M-1-M-4-0-1
10156460	Fire service	Large	Large	4-pt. adjustable	G1FP-F-L-1-L-4-0-1
10156461	Fire service	Small	Small	Rubber	G1FP-F-S-1-S-R-0-1
10156462	Fire service	Medium	Medium	Rubber	G1FP-F-M-1-M-R-0-1
10156463	Fire service	Large	Large	Rubber	G1FP-F-L-1-L-R-0-1
10161812	Fire service	Small	Small	5-pt. adjustable	G1FP-F-S-1-S-5-0-1
10161813	Fire service	Medium	Medium	5-pt. adjustable	G1FP-F-M-1-M-5-0-1
10161814	Fire service	Large	Large	5-pt. adjustable	G1FP-F-L-1-L-5-0-1

Assemble-To-Order System for MSA G1 Facepieces

A	B	C	D	E	F	G
Application	**Size**	**Material**	**Nosecup**	**Head Harness**	**Neckstrap**	**Regulator Connection**
F Fire	**S** Small **M** Medium **L** Large	**1** Hycar	**0** None **S** Small **M** Medium **L** Large	**0** None **4** 4-pt. adjustable **5** 5-pt. adjustable **R** Rubber	**0** None **C** Cloth **R** Rubber	**1** Fixed push-to-connect

Note: Part numbered facepieces are also available.

Column: A B C D E F G
A-G1FP [F][ ][1][ ][ ][ ][1]
PART NUMBERS (BOLD LEFT HAND COLUMNS)

[ ]
QUANTITY

MSA G1 SCBA Cylinders

Standard Carbon Cylinders (2216, 4500 and 5500 psig)
- Lightest-weight carbon composite SCBA cylinders available in North America

Eclipse Cylinders (4500 and 5500 psig)
- Advanced, high-strength aerospace-grade carbon wrap design provides black look

Locking handwheel (optional)
- Pull and turn motion required to close valve

MSA G1 SCBA Cylinders for Threaded Remote Connection

Cylinder Pressure	Cylinder Duration	Connection Type	Handwheel Type	Air	Less Air
2216 psig	30-minute	Threaded	Standard	10156422-SP	10156431-SP
4500 psig	30-minute	Threaded	Standard	10156423-SP	10156432-SP
4500 psig	45-minute LP*	Threaded	Standard	10156424-SP	10156433-SP
4500 psig	45-minute	Threaded	Standard	10156425-SP	10156434-SP
4500 psig	60-minute	Threaded	Standard	10156426-SP	10156435-SP
5500 psig	30-minute	Threaded	Standard	10185508	10185602
5500 psig	45-minute	Threaded	Standard	10185509	10185603
5500 psig	60-minute	Threaded	Standard	10185510	10185604
5500 psig	75-minute	Threaded	Standard	10185601	10185605

Threaded remote connection

MSA G1 SCBA Cylinders for Quick-Connect Remote Connection

Cylinder Pressure	Cylinder Duration	Connection Type	Handwheel Type	Air	Less Air
2216 psig	30-minute	Quick-connect	Standard	10175706	10175711
4500 psig	30-minute	Quick-connect	Standard	10175707	10175712
4500 psig	45-minute LP*	Quick-connect	Standard	10175708	10175713
4500 psig	45-minute	Quick-connect	Standard	10175709	10175714
4500 psig	60-minute	Quick-connect	Standard	10175710	10175715
5500 psig	30-minute	Quick-connect	Standard	10181628	10181708
5500 psig	45-minute	Quick-connect	Standard	10181629	10181709
5500 psig	60-minute	Quick-connect	Standard	10181630	10181710
5500 psig	75-minute	Quick-connect	Standard	10181631	10181731

Quick-connect remote connection

MSA G1 SCBA Standard Cylinders for Threaded & Quick-Connect Remote Connection with Locking Handwheel

Cylinder Pressure	Cylinder Duration	Connection Type	Handwheel Type	Air	Less Air
4500 psig	30-minute	Threaded	Locking	10191802	10191838
4500 psig	45-minute LP*	Threaded	Locking	10191806	10191842
4500 psig	45-minute	Threaded	Locking	10191804	10191840
4500 psig	60-minute	Threaded	Locking	10191808	10191844
4500 psig	30-minute	Quick-connect	Locking	10191803	10191839
4500 psig	45-minute LP*	Quick-connect	Locking	10191807	10191843
4500 psig	45-minute	Quick-connect	Locking	10191805	10191841
4500 psig	60-minute	Quick-connect	Locking	10191809	10191845

PLEASE NOTE: 2216 psig and 5500 psig locking handwheel cylinders are available upon request.

Custom-Logoed Cylinders

For easy-to-read cylinder identification, MSA can place your department logo under the clear coat of any carbon cylinder.

Custom cylinder ordering is easy and efficient at **www.msafire.com**. Or, to place your order, simply contact your local MSA authorized fire service distributor, or contact MSA Fire Customer Service at **1-877-MSA-FIRE**.

MSA G1 SCBA Cylinders

MSA G1 SCBA Eclipse Cylinders

Cylinder Pressure	Cylinder Duration	Connection Type	Handwheel Type	Air	Less Air
4500 psig	30-minute	Threaded	Standard	10204941	10204965
4500 psig	45-minute LP*	Threaded	Standard	10204945	10204969
4500 psig	30-minute	Quick-connect	Standard	10204942	10204966
4500 psig	45-minute LP*	Quick-connect	Standard	10204946	10204970
4500 psig	30-minute	Threaded	Locking	10204943	10204967
4500 psig	45-minute LP*	Threaded	Locking	10204947	10204971
4500 psig	30-minute	Quick-connect	Locking	10204944	10204968
4500 psig	45-minute LP*	Quick-connect	Locking	10204948	10204972

*PLEASE NOTE: 5500 psig Eclipse Cylinders are also available upon request. *Low Profile version of the 45 minute, 4500 psig cylinder*

MSA G1 SCBA Accessories

MSA G1 SCBA Facepiece Accessories

Part No.	Description
496081	PAPR Type H filter cartridge (6-pk.)
10042346	PAPR Type H filter cartridge (20-pk.)
10067469	P100/OV canister (1-pk.)
10094315	P100/OV canister (12-pk.)
10144230	Spectacle Kit for G1 Facepiece
10152979	Riot control P100/CN/CS canister (1-pk.)
10160594	Riot control P100/CN/CS canister (1-pk.)
805078	Multigas GME/CS/CN/P100 cartridge (1-pk.)
10144220-SP	Replacement cloth neck strap
10159699-SP	Replacement rubber neck strap
10144231-SP	APR filter adapter assembly
10189322	G1 CBRN Nosecup, Large
10189323	G1 CBRN Nosecup, Medium/Small
10046570	CBRN Canister
10144230	G1 Spectacle Kit

MSA G1 SCBA Accessories

Part No.	Description
10148740-SP	Replacement alkaline battery pack
10148741-SP	Replacement rechargeable battery pack
10158385	Rechargeable battery charging station
10149701-SP	Quick-connect adapter for 2216 psig cylinders
10149702-SP	Quick-connect adapter for 4500/5500 psig cylinders
10158389	Retainer Kit for H-30 carbon (807587) 4500 psig (Type 2 - dovetail)
10158390	Retainer Kit for H-45 LP carbon (10035644) 4500 psig (Type 3 - dovetail)
10158401	Retainer Kit for L-30 carbon (807586) 2216 psig (Type 4 - dovetail)
10162403	Quick-connect adapter for fill station
10158401	Retainer Kit for H-45 carbon (807570) 4500 psig (Type 4 - dovetail)
10158402	Retainer Kit for H-60 carbon (807588) 4500 psig (Type 5 - dovetail)
10158403	Tool Kit
10083875	RFID tag
10158407	RFID reader/writer
10186214	RFID read only (primary use with AIMS)
10175010-SP	G1 Control Module w/ Integrated TIC upgrade kit - 2216 psig
10175021-SP	G1 Control Module w/ Integrated TIC upgrade kit - 4500/5500 psig
10183992	Kit, Protective Cap & Boot for 30 min cylinder
10183993	Kit, Protective Cap & Boot for 45 min LP cylinder

MSA Rescue Belt II System for MSA G1 SCBA

MSA's innovative device for emergency egress, the Rescue Belt II System for the G1 SCBA, is an integrated personal escape system that allows firefighters to rappel to safety should they become trapped in a building's upper level. G1 Rescue Belt II System is NFPA 1983-certified for use as a personal escape system for emergency escape when installed on MSA-approved air masks. Device can also be used as a standalone product when not installed on an air mask. The Rescue Belt II System can be ordered as an MSA G1 SCBA option or as an individually-sold component for upgrade of your existing MSA G1 SCBA.

Ergonomically-contoured Ara-Shield rescue belt pouch stores:

- 50-ft. FireTech 32 rescue rope
- Auto-locking Sterling F4 Descender
- Choice of Crosby, Lightning, Lightning GT hook, or carabiner

Rope	Connectors			
50-ft. FireTech 32 *50-ft. MSA SafeTech*	Crosby hook	Carabiner	Lightning hook	Lightning GT hook
50-ft. FireTech 32	10173088	10173089	10173090	10173101
50-ft. MSA SafeTech	10173102	10173103	10173104	10173105

MSA Accountability System

A new way to monitor vital information

- Each MSA Accountability System can monitor as many as 50 firefighters; multiple accountability systems can be used on a single computer.
- MSA G1 SCBA or FireHawk M7XT/M7 Air Mask with telemetry transmits to incident command the firefighter's name, team assignment, cylinder pressure, service-time remaining, PASS alarms (motion or manual), thermal alarms, battery status, radio connectivity, and evacuation acknowledgement.

A fireground management system

- Personalized ID tags for each firefighter tell incident command exactly who is on scene.
- Integrated PAR (personnel accountability report) timer helps manage radio calls to each team.
- Incident command can manually add firefighters who are not wearing SCBA or mutual aid firefighters, so all personnel can be accounted for.

Intuitive and easy to use

- Assign firefighters to teams by clicking on firefighter's icon and dragging to appropriate team.
- Critical information is available at a screen glance due to large number of firefighters that can display, as well as pictorial information format.
- Receive both audible and visual indications of critical events such as PASS alarms or low-pressure alarms.

Two-way evacuation feature

- Individual firefighter, team of firefighters or all firefighters can be evacuated with click of a button.
- When incident command transmits alarm through MSA G1 SCBA or FireHawk M7XT/M7 Air Mask, they'll know that the firefighter received it, as unit automatically sends confirmation message to the base station.
- Firefighters hear evacuation alarm on their personal PASS devices. Visual HUD indications and control module icon alert firefighter that it is time to evacuate.
- By simply pressing control module, firefighters can send manual confirmation to acknowledge that they have received and understand critically important evacuation message.
- Although certain concrete and steel commercial structures can challenge any radio signal, MSA's Accountability System coverage with radio technology provides highly reliable performance for one-mile line-of-sight range.
- Due to spread-spectrum design, system does not interfere with other high-band radio frequency equipment.
- For additional safety, both accountibility system and firefighter modules have icon message to inform users if firefighter leaves radio signal range, so that alternate accountability measures, such as voice contact with teammates, can be taken.

Emergency Breathing Systems

Quick-Fill® System

Quick-Fill System lets MSA air mask users refill and transfill air cylinders while SCBA is worn, without removing air cylinder—even in IDLH atmospheres. Use this MSA option to:

- Fill SCBA cylinder from mobile compressor or cascade system in less than a minute.
- Transfill between two cylinders, providing emergency breathing system.
- Extend air supply over longer durations, using remote compressed-air source.

Air masks compliant to recent NFPA standards locate Quick-Fill URC fitting at Audi-Larm™ Audible Alarm. Quick-Fill System hose with quick-disconnect connects air source to adapter for air transfer. See Bulletin 0105-92-MC for Quick-Fill Systems Q&A.

QUICK-FILL SYSTEM REPLACEMENT PARTS *For MSA G1 SCBA*	10156467	Replacement Quick-Fill pouch **for MSA G1 SCBA**
	10156468	3-ft. Quick-Fill hose in pouch **for MSA G1 SCBA**
	10156465	Waist-mounted Quick-Fill **for MSA G1 SCBA**

Quick-Fill System Hoses

	FQD x FQD	FQD x CGA-347 outlet	FQD x CGA-347 CN	FQD x SAE-4	FQD x CGA-346 outlet	FQD x CGA-346 CN
25 FT.	485332	487907	487909	487906	487908	487910
12 FT.	802690	802677	802685	802704	802678	802686
10 FT.	802689	802675	802683	802703	802676	802684
8 FT.	802688	802673	802681	802702	802674	802682
6 FT.	802687	802671	802679	802701	802672	802680
3 FT.	485331	492796	487427	802705	492797	487428

25-ft. lengths are stocked; custom lengths are available on special material basis. All SAE fittings are for high-pressure service. Female quick-disconnect fittings have dust covers.

MSA G1 ExtendAire™ II System

MSA G1 ExtendAire II System is an Emergency Breathing Supply System (EBSS) accessory that uses intermediate-pressure air to provide firefighters with emergency breathing air by allowing firefighters to quickly and easily interconnect to fellow firefighter's air supply. System integrates into G1 SCBA, providing unrestricted mobility and easy access during emergency situations. Locking quick-connects with integrated check valve prevent contamination of breathing air pathway by ambient atmosphere. G1 ExtendAire II System features integrated rescue hose and manifold assembly that uses both male and female quick-connect fittings, and stows in low-profile pouch that mounts on carrier assembly. The 2018 Edition ExtendAire II System comes with the Universal Emergency Breathing Supply System (UEBSS) manifold and fittings.

G1 ExtendAire II System is NIOSH-approved and NFPA 1981-2018 edition-compliant.

EXTENDAIRE II SYSTEM	10205767	G1 ExtendAire II System Conversion Kit, UEBSS, 2018 Ed.
	10203820	Replacement pouch for G1 ExtendAire II System, UEBSS, 2018 Ed.
	10156464	G1 ExtendAire II System Conversion Kit, 2013 Ed.
	10156466-SP	Replacement pouch for G1 ExtendAire II System, 2013 Ed.

Airline Adapters

Part No.	Description
10188834	Airline Adapter, Snap-Tite Aluminum, ExtendAire II, UEBSS
10188835	Airline Adapter, Snap-Tite Stainless Steel, ExtendAire II, UEBSS
10188836	Airline Adapter, Snap-Tite Brass, ExtendAire II, UEBSS
10188837	Airline Adapter, Hansen Stainless Steel, ExtendAire II, UEBSS
10188838	Airline Adapter, Hansen Brass, ExtendAire II, UEBSS
10188840	Airline Adapter, Foster Steel, ExtendAire II, UEBSS
10188841	Airline Adapter, Foster Stainless Steel, ExtendAire II, UEBSS
10188842	Airline Adapter, Foster Brass, ExtendAire II, UEBSS
10188843	Airline Adapter, Steel, Locking, Aluminum, ExtendAire II, UEBSS
10188844	Airline Adapter, Steel, Locking, Stainless Steel, ExtendAire II, UEBSS
10188845	Airline Adapter, Steel, Locking, Brass, ExtendAire II, UEBSS
10188846	Airline Adapter, Foster, Locking, Stainless Steel, ExtendAire II, UEBSS

G1 RescueAire® II System

The MSA G1 RescueAire II System for Rapid Intervention Teams (RITs) provides firefighters with emergency breathing air, including air supply to trapped firefighters wearing SCBA with compatible system(s). Built for extreme fire service conditions, G1 RescueAire II System offers two operating pressures, 2216 and 4500 psi. Optional-use shoulder strap provides hands-free carrying.

System incorporates G1 Regulator; RIT teams can provide air to downed firefighter wearing G1 Facepiece. G1 Regulator connects directly to G1 Facepiece for maximum rescue capability, supported by flame and heat-resistant carrying harness of Nomex and Kevlar materials.

G1 RescueAire II System includes:

- SuperLite® Cylinder
- 36" Quick-Fill System EBS Connection
- ExtendAire System EBS Connection
- G1 PR-14 Pressure Reducer
- G1 Regulator
- Carrying harness with adjustable shoulder strap
- Audi-Larm™ Audible Alarm low pressure warning device

Part Numbers	Description
10161130	RescueAire II System, 4500, 60-Min Cylinder
10161142	RescueAire II System, 4500, Less Cylinder
10161141	RescueAire II System, 2216, 30-Min Cylinder
10161143	RescueAire II System, 2216, Less Cylinder

MSA G1 RIT Systems

The G1 RIT System has everything needed for RIT response. Internal pneumatics include G1 RIT System quick-connect pressure reducer that mounts directly onto user-supplied SCBA cylinder. Available in 2216, 4500, and 5500 psi operating pressures; cylinders are sold separately.

G1 RIT System includes:

- Six-foot high pressure supply line that terminates with female Quick-Fill System fitting.
- Six-foot intermediate pressure supply line that terminates with ExtendAire II System manifold assembly.
- Quick-connect second-stage G1 MMR.
- Remote external gauge for easy cylinder pressure readings.
- Medium size G1 Facepiece with four-point SpeeD-ON® Head Harness.
- URC fitting on G1 RIT System pressure reducer that allows for interconnection of G1 RIT Systems.

Part Numbers	Operating Pressure	Description
10206310	2216	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (UEBSS, 2018 ed.), remote gauge, URC, Quick-Connect
10169710	2216	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (2013 ed.), remote gauge, URC, Quick-Connect
10206311	4500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (UEBSS, 2018 ed.), remote gauge, URC, Thread Connect
10206313	4500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (UEBSS, 2018 ed.), remote gauge, URC, Quick-Connect
10169711	4500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (2013 ed.), remote gauge, URC, Quick-Connect
10192465	4500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (2013 ed.), remote gauge, URC, Thread Connect
10206312	5500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (UEBSS, 2018 ed.), remote gauge, URC, Quick- Connect
10197179	5500	G1 RIT System, FCPC, Regulator, 6-Ft Quick-Fill & ExtendAire II Systems (2013 ed.), remote gauge, URC, Quick-Connect

Note: This RIT system does NOT include cylinder. Please see cylinder ordering information.

Technical Rescue Cart

Cart Weight and Dimensions

Size: 35" H x 21"W x 15" D

Unit weight: 54.5 lbs. without cylinders

Technical Rescue Cart is of steel construction with color-designated control panel that allows one side of panel to be used for primary respirator breathing-air and one side for tool/secondary air requirements.

Two one-hour cylinders provide air for respirators. High-pressure cascade (fire truck) cylinder air is used to operate pneumatic tools.

Features

Breathing-air segment includes:

- Two-wheeled, poly-coated steel cart, two sets of double-cylinder straps, air-line hose rack, and adjustable pull handle
- Low-pressure cylinder bell alarm
- Four-outlet manifold—available with four outlet fitting options

Tooling-air segment includes:

- CGA-347 fitting to attach to auxiliary remote high-pressure air source
- Low-pressure pneumatic alarm whistle
- Four-outlet manifold with quick-disconnects

Technical Rescue Cart is sold without air cylinders. These MSA cylinders can be used with cart:

- 60-minute, H-60SL carbon-wrapped cylinder, PN 10127946-SP
- 45-minute, H-45SL carbon-wrapped cylinder, PN 10127945-SP
- 30-minute, H-30SL carbon-wrapped cylinder, PN 10127944-SP
- 45-minute, H-45S SL SuperLite Carbon Cylinder, short, PN 10149432-SP

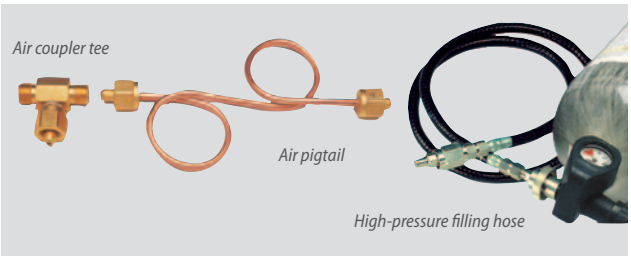
See p. 7 for cylinder ordering information. 60-minute cylinders provides maximum air supply.

TECHNICAL RESCUE CART	10107535	Technical Rescue Cart equipped with **union** adapters
	10107818	Technical Rescue Cart equipped with **Snap-Tite aluminum** quick-disconnects
	10107820	Technical Rescue Cart equipped with **Foster steel** quick-disconnects
	10107819	Technical Rescue Cart equipped with **Hansen brass** quick-disconnects

Cleaning Accessories

CLEANING ACCESSORIES	10009971	MSA Confidence® Plus Germicidal Cleaner, 32 oz. bottle
	697383	Box of 100 individually wrapped towelettes, 7-1/4" x 5"
	697382	Canister with 220 towelettes, 4-1/4" x 6"
	10022871	The Big Ones box of 50 individually wrapped towelettes, 8" x 11"

Other SCBA Accessories



ACCESSORIES FOR FILLING LOW-PRESSURE CYLINDERS	68846	Air outlet connection, complete w/ gauge
	68850	Air coupler tee
	68851	Air pigtail
	476156	Low-pressure air-filling hose, 5-ft.
HIGH-PRESSURE FILLING HOSE	476105	High-pressure filling hose assembly (provides convenient means to connect and charge high-pressure air into high-pressure 4500 psig cylinder)

M7XT Communications: Facepiece Assemblies for FireHawk M7XT Air Masks

Ultra Elite® XT Facepiece

- Super-soft facepiece texture for smooth and comfortable fit
- Resists chemical attack and temperature extremes
- Withstands rugged day-to-day use without tearing and ripping
- Secure, comfortable fit
- Facepiece's Tufflens is molded from specially blended plastic and withstands high thermal environments; special super hardcoating resists scratches

Firehawk® MMR

Attachment Option #1—Unique Slide-To-Connect (STC) System

- Allows firefighters to hang regulator on facepiece in "ready position," then simply push it into facepiece when SCBA air is needed
- Two large release buttons automatically turn off air flow as the regulator is doffed
- Dual-swivel feature on pressure hose provides maximum head movement
- Silicone hose material ensures hose flexibility even at very cold temperatures

Attachment Option #2—Push-To-Connect (PTC) System

- PTC's adapter self-centers Firehawk Regulator
- Loud dual sound of regulator engaging onto facepiece provides confidence that Firehawk PTC is securely attached; action takes just seconds

Ultra Elite XT Facepieces

	Small	Medium	Large	
FOR FIREHAWK STC MMR REGULATOR	10149305	10149283	10149327	External HUD receiver-ready
	10149307	10149285	10149329	External HUD and communication-ready
FOR FIREHAWK PTC MMR REGULATOR	10149306	10149284	10149328	External HUD receiver-ready
	10149309	10149286	10149330	External HUD and communication-ready

SCBA Key Components: Facepiece Assemblies for FireHawk M7XT Air Masks

MSA I-HUD Receiver for FireHawk M7XT Air Mask

- Wireless I-HUD Receiver contoured shape fits securely inside Ultra Elite XT Facepiece, eliminating snag points
- Nearly 40% lighter than external M7 HUD Receiver
- Unit automatically awakens and sleeps based upon pairing with SCBA
- Wireless magnetic radio transfers actual SCBA data via IEEE 802.11network
- Enhanced light pattern for safety and security differentiation
- Powered by single, disposable CR2 lithium battery
- IP67-rated to withstand extreme hot and cold environments

Note: I-HUD Receiver is not compatible for use with FireHawk M7 Less PASS SCBA.

I-Hud Receiver

I-HUD RECEIVER	10114190	For use with Ultra Elite XT Facepieces equipped w/Hycar rubber nosecups

I-Hud Receiver-Ready Ultra Elite XT Facepiece Assemblies

	Small	Medium	Large	
FOR FIREHAWK STC MMR REGULATOR	10149309	10149287	10149331	Standard I-HUD receiver-ready
	10149311	10149289	10149310	Communication system-ready
FOR FIREHAWK PTC MMR REGULATOR	10149310	10149288	10149332	Standard I-HUD receiver-ready
	10149312	10149290	10149334	Communication system-ready

SCBA Accessories

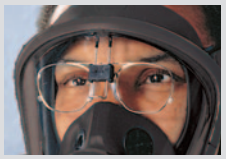
Ultra Elite APR Adapter

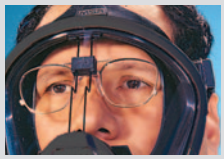
- Switch from positive-pressure facepiece to negative-pressure air-purifying respirator
- Uses MSA's comprehensive line of air-purifying cartridges to protect against many airborne contaminants
- For use in non-IDLH environments and is NIOSH-approved
- Contact MSA for more information

	Firehawk MMR STC Version	Firehawk MMR PTC Version	
APR ADAPTERS	10032511	10040052	APR Adapter
	10032927	10040055	APR Adapter Individual Kit
	10032925	10040054	APR Adapter Truck Kit

ACCESSORIES	10037809	Ultra Elite Facepiece, anti-fog applique (10/pkg)
	817590	CBA/RCA canisters (box of 6)
	809858	Replacement baffle
	813341	Replacement bayonet cover
FIT TEST ADAPTER KITS	10107229	APR Fit Test Adapter Kit, slide-to-connect
	10107256	APR Fit Test Adapter Kit, push-to-connect

Spectacle Kits





SPECTACLE KITS	804638	Ultra Elite Spectacle Kit (side wire support)
	493581	Ultra Elite Spectacle Kit (center support)

NOSECUPS *for Ultra Elite Facepieces*	495188	Nosecup, medium, silicone
	495189	Nosecup, large, silicone
	10126378	Nosecup, medium, Hycar
	10126379	Nosecup, large, Hycar

Field Maintenance and Repair

MSA offers a complete program for maintenance and repair of MSA air masks. The program is supported with personalized training tailored to customer needs and taught in the field by MSA-authorized personnel.

User maintenance covers procedures necessary to conduct general cleaning, inspection and limited maintenance in accordance with the Occupational Safety and Health Administration (OSHA), National Fire Protection Association (NFPA) and American National Standards Institute (ANSI) standards.

C.A.R.E. Certified Air Mask Repair Education covers all maintenance for both low- and high-pressure SCBA. Air mask inspection and maintenance can be performed by MSA or a factory-authorized service center. Individuals can also obtain training for C.A.R.E. certification from MSA. With a C.A.R.E-certified technician on staff, fire departments and other facilities with a large number of air masks can perform all inspection and maintenance in-house.

- All repairs and maintenance can be done in the field.
- A selection of overhaul kits, spare parts and tool kits is available.
- Users may conduct periodic performance testing using an authorized MSA regulator tester.

*These cylinders allow for custom options.

EXHIBIT 13
BOE 2020-05-06 p.217/318

MSA G1 PremAire® Cadet Escape Respirator

This combination supplied-air respirator with escape cylinder is used for entry into or escape from hazardous, confined space or immediately dangerous to life or health atmospheres. Streamlined, lightweight design incorporates a technologically advanced, light, low profile, open-port facepiece that provides cross-contamination protection.

- One-piece cylinder valve and first-stage regulator incorporates downstream design to reduce moisture buildup and dual springs for maximum reliability.
- Low-profile escape cylinder is worn on either right or left hip for easier movement within tight spaces.
- Shoulder support strap incorporates hose keeper; regulator hose stays close to body to reduce snagging.
- Escape cylinders rated at 5-, 10- and 15-minutes.
- Pressure gauge recessed into valve housing protects gauge and reduces size and profile.
- Two harness materials: standard nylon for chemical resistance and Kevlar for high heat environments or those with spark potential.
- Regulator offers bypass and purge cover.
- NIOSH-approved as combination supplied-air respirator and self-contained breathing apparatus.

Assemble-To-Order System for **MSA G1 PremAire Cadet Escape Respirator**

A	B	C	D	E	F	G	H
Type	**Carrier & Harness Type**	**Pad Option**	**Escape Cylinder**	**MMR Regulator**	**G1 Facepiece**	**Quick-Disconnect**	**Case**
PCG PremAire Cadet Escape G1	**1** Nylon, strap carrier, standard **2** Kevlar, strap carrier, standard **3** Nylon, bag carrier, standard **4** Kevlar, bag carrier, standard *Aluminum escape cylinders are not compatible with bag carriers.*	**0** None **1** Shoulder	**A** 5-minute aluminum **B** 10-minute aluminum **C** 5-minute carbon **D** 10-minute carbon **E** 15-minute carbon **F** 5-minute aluminum, less air **G** 10-minute aluminum, less air **H** 5-minute carbon, less air **J** 10-minute carbon, less air **K** 15-minute carbon, less air	**A** G1 Regulator, purge cover	**1** None **2** G1 Facepiece with 4-pt. adjustable head harness, medium* **3** G1 Facepiece with 5-pt. adjustable head harness, medium* **4** G1 Facepiece with rubber head harness, medium* *If desired facepiece is not available here, choose **None** and select from the G1 Facepiece ATO.*	**0** None **A** Snap-Tite, aluminum **B** Snap-Tite, stainless steel **C** Snap-Tite, brass **D** Hansen, stainless steel **E** Hansen, brass **F** Foster, steel **G** Foster, stainless steel **H** Foster, brass **J** Snap-Tite, locking, aluminum **K** Snap-Tite, locking, stainless steel **M** Snap-Tite, locking, brass **N** Foster, locking, stainless steel **P** Cejn, locking	**0** None **1** Hard plastic case

** Facepiece includes nosecup, but does not include neckstrap.*

Column:	A	B	C	D	E	F	G	H	
A	PCG								
	PART NUMBER								QUANTITY

Riot Control and CBRN Gas Masks

- Provides respiratory protection against military warfare, civil unrest and CBRN threats
- High-performance, custom-fit comfort in a variety of military- and riot-style masks
- Attracts, regains and neutralizes contaminants
- Flexible lens with a wider field of view for superior visibility (Millennium® & Advantage® 1000 Facepieces)
- Permeation-resistant construction
- Built-in speaking diaphragm

Millennium Gas Mask (for use with CBRN or Riot Control canisters) | *Advantage 1000 Riot Control Gas Mask* | *Ultra Elite CBRN Gas Mask* | *G1 CBRN APR*

	Small	Medium	Large	
MILLENNIUM CBRN/ RIOT CONTROL GAS MASK	10051286	10051287	10051288	Millennium Gas Mask, with nosecup, drinking tube, and clear polycarbonate outsert *Order either Riot Control or CBRN canisters separately.*
ADVANTAGE 1000 RIOT CONTROL GAS MASK	813860	813859	813861	Advantage 1000 Riot Control Mask, complete with canister, nosecup, and identification tag (*NOTE: the Advantage 1000 Riot Control Mask is* **NOT** *CBRN approved and uses Riot Control canisters only.)*
ULTRA ELITE CBRN GAS MASK	10052776	10052781	10052778	Ultra Elite CBRN Gas Mask, with rubber head harness
	10052780	10052779	10052777	Ultra Elite CBRN Gas Mask, with SpeeD-ON Head Harness *Order CBRN canisters separately.*

RIOT CONTROL CANISTERS	818264	Millennium riot control canisters, box of 6
	817590	Advantage 1000 riot control canisters, box of 6
CBRN CANISTER	10046570	CBRN canister, for Millennium and Ultra Elite Facepieces
GME CANISTER	10160594	GME P100 canister
LENS OUTSERT *For Millennium Facepiece*	10008907	Polycarbonate lens outsert, **clear**, small
	10008906	Polycarbonate lens outsert, **clear**, medium/large
	10008909	Polycarbonate lens outsert, **tinted**, small
	10008908	Polycarbonate lens outsert, **tinted**, medium/large
LENS OUTSERT *For Advantage 1000 Facepiece*	806463	Polycarbonate lens outsert, **clear**, small
	806462	Polycarbonate lens outsert, **clear**, medium/large
	806465	Polycarbonate lens outsert, **tinted**, small
	806464	Polycarbonate lens outsert, **tinted**, medium/large
ESP® II COMMUNICATION SYSTEM *For Millennium and Advantage 1000 Facepieces*	10026265	1-piece, self-contained, electronic speech projection device less battery
OTHER ACCESSORIES *For Millennium and Advantage 1000 Facepieces*	10034184	Gas Mask Pouch, Military Style
	817040	Black Nylon Bag
	816137	Advantage 1000/Millennium Spectacle Kit

MSA G1 CBRN APR

MSA's innovative G1 Facepiece can be easily adapted into a compliant CBRN Air-Purifying Respirator with the installation of an APR Adapter, CBRN Canister, and CBRN Nosecup for use in atmospheres potentially contaminated with chemical, biological, radioactive and/or nuclear (CBRN) warfare.

Notes:

- *G1 APR Facepiece Assembly does not include the CBRN Canister or APR Adapter, must be ordered separately.*
- *The G1 CBRN APR is approved for the 4 point harness, 5 point harness, and rubber harness.*
- *The neckstrap is also approved in both cloth and rubber.*
- *The standard G1 facepiece nosecup is not approved for CBRN applications and the CBRN nosecup is not approved for use in a traditional firefighting situation.*
- *If using the standard G1 facepiece in a traditional firefighting situation and CBRN environment, use the CBRN nosecup for the Fit Test.*

FACEPIECE ASSEMBLIES	10194379	Facepiece Assembly, G1 APR, SMALL
	10194380	Facepiece Assembly, G1 APR, MEDIUM
	10194381	Facepiece Assembly, G1 APR, LARGE
NOSECUP KITS	10189322	KIT, REPL, CBRN Nosecup, G1 Facepiece, LG
	10189323	KIT, REPL, CBRN Nosecup, G1 Facepiece, MD/SM
AIRGUIDES	10191617	AIRGUIDE CBRN, G1 Facepiece, left
	10191618	AIRGUIDE CBRN, G1 Facepiece, right
MISCELLANEOUS	10194547	Cover, G1 Filter Adapter
	10194548	Washer, RD40, green
	10194549	Button, G1 Filter Adapter
	10046570	Canister, CBRN, PKG, Threaded
	10144231-SP	Kit, Filter Adapter Assy, G1 Facepiece

G1 Powered Air-Purifying Respirator (PAPR)

With its industry-leading motor-blower and constantly filtered air flow, belt-mounted G1 CBRN PAPR is ideal for first responders, military and special ops personnel who require non-IDLH respiratory protection for as many as eight hours. Unit offers three proprietary cartridges designed for CBRN, particulate and poisonous gases or vapors. Constant air flow helps users stay physically alert and focused, while also preventing fogging inside the facepiece. Batteries can be "hot-swapped," and blower's EMI shield ensures that there is no interference with radio communications.

- Respirator provides constant filtered air flow, reducing fatigue and preventing facepiece fogging
- Long-life unit provides non-IDLH respiratory protection for up to eight hours
- Compatible with existing fleet of PAPRs, just add a G1 facepiece, breathing tube, and adapter.

MSA G1 PAPR KITS	10204811	G1 PAPR Kit, 30-inch breathing tube, $LiSO_2$ battery, adapter
	10204812	G1 PAPR Kit, 36-inch breathing tube, $LiSO_2$ battery, adapter
	10204813	G1 PAPR Kit, 30-inch breathing tube, NiMH battery, adapter
	10204814	G1 PAPR Kit, 36-inch breathing tube, NiMH battery, adapter
	10204815	G1 PAPR Kit, 30-inch breathing tube, $LiSO_2$ battery
	10204816	G1 PAPR Kit, 36-inch breathing tube, $LiSO_2$ battery
	10204817	G1 PAPR Kit, 30-inch breathing tube, NiMH battery
	10204818	G1 PAPR Kit, 36-inch breathing tube, NiMH battery
	10193956	Breathing tube, 30-inch, G1 PAPR
	10193957	Breathing tube, 36-inch, G1 PAPR
	10144231-SP	G1 APR filter adapter assembly

G1 Facepiece part numbers on page 6.

Responder® PAPR

The Responder Powered Air-Purifying Respirator (PAPR) is compatible with MSA Millennium and Ultra Elite Facepieces. You must choose Responder PAPR Kit, facepiece and cartridge for complete system.

RESPONDER PAPR KITS *less facepiece and cartridge*	B-60141-030	Responder CBRN PAPR Kit with 30" Breathing Tube, $LiSO_2$ Battery
	B-60141-036	Responder CBRN PAPR Kit with 36" Breathing Tube, $LiSO_2$ Battery
	B-60170-030	Responder CBRN PAPR Kit with 30" Breathing Tube, NiMH Battery
	B-60170-036	Responder CBRN PAPR Kit with 36" Breathing Tube, NiMH Battery

Accessories/Cartridges for G1 and Responder PAPRs

ACCESSORIES FOR G1 AND RESPONDER PAPR	B-20040-001	NiMH Rechargeable Kit (2 NiMH Batteries, Charger & Cap)
	S-20036	NiMH Rechargeable Battery Pack
	B-20090-001	NiMH Rapid Battery Charger
	M-20020	$LiSO_2$ Mission Battery
	B-30060-001	NiMH Rechargeable Battery Cap Assembly
	S-30019	Web Belt Assembly
	B-10079-001	PAPR Carrying Case

CARTRIDGES	10046570	CBRN Canister, each
	496081	OptiFilter XL cartridge, 6 pack
	10072237	PAPR GME Multigas HE cartridge, each

MSA Respirator Fit Test Compliance

29 CFR Part 1910.134

Advantage 1000 Respirator/ Millennium Respirator

Ultra Elite Respirator

G1 Facepiece

MSA RESPIRATOR FIT TEST KITS	**697287**	Saccharin Qualitative Fit Test Kit
	697444	Bitrex Qualitative Fit Test Kit
	801628	Banana Oil Qualitative Fit Test Kit
	697285	Replacement (Saccharin) Sensitivity Test
	697445	Solution, 55 ml bottle (Bitrex)
	697286	Replacement Fit-Test (Saccharin) Solution, 55 ml bottle
	697446	Replacement Fit-Test (Bitrex) Solution, 55 ml bottle
	697447	#1 Sensitivity Nebulizer
	697459	#2 Fit-Test Nebulizer
	697448	Test Hood (Same for Both)
	697325	"Using the Qualitative (Saccharin) Fit Test Kit" DVD
	697449	"Using the Qualitative (Bitrex) Fit-Test Kit" DVD

Fit Test Compliance Reference Guide

Respirator Description	Class	APF	OSHA Acceptable Fit Test Methods	Required Fit Factor Quantitative	MSA Fit Test Adapter Required	Cartridge Type	Probed Facepiece P/N (if applicable)	Controlled Negative Pressure (OHD) Quan Fit Test Adapter
Ultra-Elite	Full-Face Negative Pressure	50	Qualitative or Quantitative*	500	Quik Chek III Adapter #**805078**	N/A	S (813211), M (813209), L (813213)	OHD P/N 9513-0210
G1 Pressure Demand	Full-Face Positive Pressure	10,000 SCBA 1000 Air-Line	Qualitative or Quantitative	500	Quik Chek III Adapter #**805078** Use with Single Port APR adapter #**10144231-SP**	N/A	N/A	OHD P/N 9513-0130
Millennium Facepiece	Full-Face Negative Pressure	50	Qualitative or Quantitative*	500 2000±	Quik Chek III Adapter #**805078**	Threaded	Probe Assembly (10006227)	OHD P/N 9513-0130
Ultra Elite Pressure-Demand	Full-Face Positive Pressure	10,000 SCBA 1000 Air-Line	Qualitative or Quantitative	500†	APR Fit Test Adapter Kit, #**10044576** APR Fit Test Adapter Kit, Slide Version #**10107229** (10032511 APR adapter only) APR Fit Test Adapter Kit, Push-to-Connect #**10107256** (10040052 APR adapter only) Quik Chek Adapter Kit, Firehawk #**10044576**‡	Bayonet	Negative Pressure S (813211), M (813209), L (813213)	OHD P/N 9513-0380
Ultra Elite Respirator	Full-Face Positive/ Negative Pressure	10,000 SCBA 50 APR	Qualitative or Quantitative	500† SCBA 2000± APR	Responder Fit Test Kit #**10082555**	Threaded	N/A	N/A

** If only qualitative fit test is performed on a full-face negative pressure respirator, then an APF of only 10 can be assigned. If a quantitative fit test is performed, the APF is 50.*
± MSA recommends a fit factor of 2000 if the application is a CBRN environment.
† For quantitative fit testing of pressure-demand facepiece, the facepiece must be tested in a negative pressure mode which requires a minimum fit factor of 500.
‡ The Quik-Chek Adapter allows quantitative fit tests to be performed on a pressure demand Ultra Elite Firehawk facepiece by only trained and qualified personnel. Special probed facepiece is not required.

Great Reasons to Choose MSA Cairns Fire & Rescue Helmets

We've proudly manufactured fire helmets since 1836. And to this day for head protection, more first responders trust MSA Cairns Fire Helmets than any other. Here are just a few reasons why:

1 Shell Release System (SRS)

The MSA Cairns Shell Release System (SRS), offered in our most popular fire helmets, protects from impact and heat—even when your helmet is dislodged from your head.

With the SRS, if your helmet falls off due to a fall through a floor or roof, the impact cap separates from the helmet shell, ***but remains on your head***, leaving your head better protected from additional impact, projectiles and heat. Without SRS, all you've got is a Nomex hood.

2 Retractable MSA Cairns Defender® Visor

North America's first (and still best) NFPA 1971 and ANSI/ISEA Z87.1 impact-rated, integral visor. The Defender Visor was designed with firefighters in mind. Entire visor stows when not in use, and can be deployed the instant it's needed—even with a gloved hand. Visor replacement does not require special tools or helmet disassembly. These benefits make the Defender Visor the best-selling firefighting eye protection on the market.

3 Best In Class

In a survey of firefighters across the nation[1], the majority listed MSA Cairns Helmets brand as *best in class*.[1] When you consider the combined effectiveness of our SRS, crumple-zone front holder, impact cap, and suspension—our fire helmets offer the most complete package available.

4 With MSA Cairns Helmets, You Get *More* than You Pay For: 10-Year Warranty

We know, as do firefighters, that MSA Cairns Helmets are the most durable offered. We back up that claim with a 10-year lifetime warranty that the product will be be free from defects in materials and/or faulty workmanship[2]. When you factor in quality, ease of maintenance and unique safety features found in **ONLY** MSA Cairns Helmets, it's easy to see why firefighters are loyal to the MSA Cairns Helmets brand.

5 Same Day Shipping on Our Most Popular Items

When you can't afford to wait another day, MSA offers our most popular Cairns Helmets products in our Stock-Order-Ship (SOS) program. For these products, if your order is entered by 2:30 PM (EST), the product ships the same day from our warehouse in Pittsburgh, PA. Look for the SOS symbol (SOS) beside products in the program. Remember, too, you can always order customized Cairns Fire Helmets through Assemble-to-Order (ATO). ATO forms are located on every fire helmet page on www.MSASafety.com

For complete information about Cairns Fire and Rescue Helmets, see Bulletin 3600-01-MC.

[1]*Fire helmet brand assessment study conducted by outside research firm for MSA.*
[2]*10-year warranty applies to MSA Cairns Helmets manufactured on or after January 1, 2015. For MSA Cairns Fire Helmet warranty details, please see www.MSAsafety.com.*

MSA Cairns XF1 Jet-Style Fire Helmet

For Structural Firefighting & USAR

- Available in matte or glossy finish
- Hat sizes: Medium (6½ to 7¾) and Large (7⅛ to 8⅛)
- Approvals:
  NFPA 1971, Standard on Protective Ensembles for Structural Fire Fighting (current edition) and NFPA 1951, Standard on Protective Ensembles for Technical Rescue Incidents (current edition)

MSA Cairns XF1 (shown with black matte finish)

MSA Cairns XF1 (shown with glossy yellow finish)

WEIGHT ***Medium*** ***Large***	Base helmet (with full face shield), compliant to NFPA-1971 and NFPA 1951 55-57 oz. (159 +/- 30 g) 60–62 oz. (170 +/- 30 g)
SHELL	High temperature thermoplastic (injection molded)
IMPACT LINER	Shock-absorbing polyurethane foam with aramide reinforcement
CHINSTRAP	Kevlar®/Nomex blend
SOFT GOODS & EAR COVERS	Nomex
FULL FACE SHIELD	High temperature thermoplastic with AF/AS coatings

MSA Cairns XF1 Helmets Ordering Information

MATERIAL NO.	SIZE		FINISH		COLOR				OCULAR VISOR
	MED	LARGE	MATTE	GLOSSY	BLACK	RED	WHITE	YELLOW	
GYM1018500000-NE16	■		■		■				
GYM1018500000-RD16	■		■			■			
GYM1018500000-BU16	■		■				■		
GYM1018500000-JC16	■		■					■	
GYL1018500000-NE16		■	■		■				
GYL1018500000-RD16		■	■			■			
GYL1018500000-BU16		■	■				■		
GYL1018500000-JC16		■	■					■	
GYM1018500000-NA16	■			■	■				
GYM1018500000-RE16	■			■		■			
GYM1018500000-BA16	■			■			■		
GYM1018500000-JD16	■			■				■	
GYL1018500000-NA16		■		■	■				
GYL1018500000-RE16		■		■		■			
GYL1018500000-BA16		■		■			■		
GYL1018500000-JD16		■		■				■	
GYM1118500000-NE16	■		■		■				■
GYM1118500000-RD16	■		■			■			■
GYM1118500000-JD16	■			■				■	■
GYL1118500000-NE16		■	■		■				■
GYL1118500000-RD16		■	■			■			■
GYL1118500000-JD16		■		■				■	■

MATERIAL NO.	DESCRIPTION
GA1484	XF1 Lighting module
GA1087C	XF1 Ocular visor assembly
GA010002H3	XF1 Boom microphone headset
GA010002H3A	XF1 Boom microphone headset (2 speakers)
10163388	PTT for APX6000/7000
10163389	PTT for XTS5000
GA1162	XF1 Headband liner & ratchet cover kit
GA1160	XF1 Chinstrap assembly
GA1153	XF1 Reflective trim kit, lime yellow
GA1159	XF1 Ear cover

GA1484

GA1087C

N5A New Yorker & N6A Houston

For Structural Firefighting

- The Original Handcrafted Leather Firefighting Helmets
- Hat sizes: Medium (6⅜ to 7½) and Large (7⅝ to 8⅜)

N5A New Yorker
• Meets US-OSHA 1910.156 • Brass "nameplates" where North, East, South and West ribs meet the brim • No Lexan dome
N6A Houston
• Meets NFPA 1971 (Current Edition) • No brass "nameplates" • Lexan dome for additional penetration protection

N5A New Yorker (shown with Traditional Bourkes & Goggles)

N6A Houston (shown with NFPA Bourkes and Boston Bend)

FEATURES	BENEFITS
Leather Shell	100% top-grain high-quality steer hide impregnated with a natural resin system
Crumple-zone Front Holder	Absorbs impact forces to help protect your head, neck and spine from injury
Impact Cap	Provides thermal and impact protection when you need it most
Comfort Pad Kit	Creates a customized fit unlike any other helmet
Aluminum-core Edge Trim	Helps the brim retain its shape
Brim Styles	Traditional or Bronx Bend with historical oak vine pattern
Soft Goods	Nomex (Black or Yellow) or PBI/Kevlar Earlap options; removable/washable
D-ring Helmet Hanger	Fits on large hooks and resists bending
Removable/Washable Nomex Chinstrap	Available in 2 pt. or 4 pt. options with quick-release buckles, postman's slide, and Velcro stowage system

Cairns Leather Helmets Ordering Selection Matrix

A	B	C	D	E	F	G	H	I
Model	**Color**	**Size**	**Eye/Face Protection**	**Removable/Washable Earlaps**	**Front Holder**	**Removable/Washable Nomex Chinstrap**	**Trim Type**	**Trim Color**
1 N6A Houston, Standard Bend	**1** Black	**1** Medium	**0** None *	**4** Liner Cushion (G5A, G64 only)	**1** 6" Carved Brass Eagle	**0** None (Presentation Helmets only)	**0** None *	**1** Lime/Yellow (standard)
3 N5A New Yorker, Standard Bend*	**2** Red	**2** Large	**1** 4" Tuffshield	**5** Sateen liner w/Jumbo Nomex Yellow earlap	**4** 6" Carved Brass Beaver	**2** 2-pt w/Quick Release & Postman's Slide	**2** Reflexite (Standard)	**2** White * (Reflexite Only)
5 G5A Presentation*	**3** Blue		**4** ESS Innerzone 3 Goggle System	**6** Sateen liner w/Jumbo PBI/Kevlar earlap	**5** 6" Carved Brass Dragon	**4** 4-pt w/Quick Release & Postman's Slide	**3** Scotchlite	**3** Red/Orange *
6 G64 Presentation*	**4** White		**5** ESS Innerzone 2 Goggle System with low-profile snap on/snap off hardware*	**7** Sateen liner w/Jumbo Nomex Black earlap	**7** 8" Bronze Carved High Eagle (G5A, G64 only)	**5** 2-pt w/Quick Release & Postman's Slide, 7.5" longer		**4** Red/Orange Triple Trim (Scotchlite Only)
7 N6A Houston, Bronx Bend	**5** Yellow		**9** ESS Innerzone 2 Goggle System with side-mounting snap on/ snap off hardware					**5** Lime/Yellow Triple Trim (Scotchlite Only)
8 N5A New Yorker, Bronx Bend*	**7** Natural *		**M** NFPA Compliant Bourkes					
			A NFPA Compliant Bourkes & Innerzone 3 Goggle					
			B NFPA Compliant Bourkes & Innerzone 2 with side-mounting hardware					
			C Traditional Bourkes*^					
			D Traditional Bourkes & Innerzone 3 Goggle*^					
			E Traditional Bourkes & Innerzone 2 with side-mounting hardware*^					

** Not NFPA 1971 compliant*
^ Traditional Bourkes are available for NSA New Yorker fire helmets ONLY.

Column: A B C D E F G H I

B-LTH- ☐☐☐☐☐☐☐☐☐ PART NUMBER ☐ QUANTITY

EX6 RT3 p.224/318

1010 & 1044 Helmets

For Structural & Proximity Firefighting

Most popular Cairns Helmet models:

- 1010: painted high-luster finish
- 1044: unpainted matte finish

Hat sizes: 6⅜ to 8¾

Certified to NFPA 1971

- Certified for proximity firefighting (with bonnet, shroud and gold-coated faceshield)

MSA Cairns 1010 (shown with NFPA-Compliant Bourkes Lenses)

MSA Cairns 1044 (shown with Defender Visor)

FEATURES	BENEFITS
New Impact/Thermal Cap	Provides superior thermal and impact protection through an impact-resistant polymer liner covered by a high-temperature, energy-absorbing urethane foam
Warranty	10 years[1]
Made in the U.S.A	Yes
Through-color Fiberglass Composite Shell[2] *(1044–unpainted/1010–painted)*	Maintains color even after taking a beating on the fireground
Available Colors	1044 – black, yellow, red, white, blue 1010 – black, yellow, red, white, orange, blue, pink, green
Retractable Defender Visor *(installed or enabled)*	Deploys easily when you need it, stores securely inside your helmet shell when you don't. Impact cap comes with upgrade hardware built right in!
Shell Release System (SRS)	Retain your impact cap, suspension system and earlaps if your helmet shell is torn away during a fall or structural collapse
Crumple-Zone Front Holder[3]	Absorbs impact forces to help protect your head, neck and spine from injury
Adjustable NAPE Height	Three ratchet height positions easily adjusted with the nape arm/speedy button mechanism
Adjustable Headband Height	Ensures a perfect fit between your helmet and SCBA mask
Head Size Accommodated	6⅜ to 8¾!
Embossed Helmet Brim	Oak vine pattern ties the helmet to 180+ years of MSA Cairns helmet design tradition
D-Ring Helmet Hanger	Fits on large hooks and resists bending
Removable/Washable Nomex Chinstrap Options	Enhances safety, performance and fit through hi-viz quick-release buckles, postman's slide, and hook and loop stowage system. Available in 2-point or 4-point configurations
ARFF Proximity System Available	Yes

[1]*Helmets manufactured before January 1, 2015 have a limited five year warranty. For details on both warranty policies, please see www.MSAFire.com*
[2] *Through color is present on blue, red, white and yellow. All others are painted over a white shell.*
[3]*Crumple zone front holders are designed to absorb energy from an impact.*

880 Tradition™ Helmets

For Structural Firefighting

- Lightest, lowest profile traditional helmet
- Fits smallest head sizes of any Cairns Helmet
- Certified to NFPA 1971 (Structural)
- Hat sizes: 5⅝ to 7⅞

MSA Cairns 880 with NFPA-Compliant Bourkes Eye Shield

FEATURES	BENEFITS
Through-color Thermoplastic Shell	Maintains its color even after taking a beating on the fireground
Impact Cap	Provides superior thermal and impact protection when you need it most
Tube Lock System	Helps protect you from injury by transmitting energy from the suspension to its support and the surrounding foam
Crumple-zone Front Holder	Absorbs impact forces to help protect your head, neck and spine from injury
Adjustable NAPE Height	Three ratchet height positions to maximize comfort
Adjustable Headband Height	Ensures a perfect fit between your helmet and SCBA mask
Embossed Helmet Brim	Oak vine pattern ties the helmet to over 180 years of MSA Cairns helmet design tradition
D-ring Helmet Hanger	Fits on large hooks and resists bending
Removable/Washable Nomex Chinstrap	Enhances safety, performance and fit thanks to quick release buckles, postman's slide, and Velcro stowage system

Cairns Traditional Helmets Ordering Selection Matrix

A	B	C	D	E	F	G	H	I	K	L
Model	**Color**	**Eye/Face Protection**	**Headband Liners**	**Earlaps**	**Front Holder**	**Removable/ Washable Nomex Chinstrap**	**Trim Type**	**Trim Color**	**Additional Eye/Face Protection**	**Accessory Type**
1 1010 **5** 880 Tradition **7** 1044	**1** Black **2** Red **3** Blue **4** White **5** Yellow **6** Orange ◆ **7** Green ◆ **8** Pink ◆	**1** 4" Tuffshield **2** Cairns 550 Goggles **4** ESS Innerzone 3 Goggles **5** ESS Innerzone 2 Goggles w/ low profile hardware **8** 6" Gold-Coated Faceshield **‡ **B** Defender Visor, Clear ‡ **C** Defender Visor, Amber Tuffshield ‡ **E** ESS Innerzone 2 w/side-mount hardware **M** NFPA compliant Bourkes	**1** Economy Flannel † **2** Standard Flannel **3** Deluxe Leather w/Crown Pad, 880 Deluxe Leather, **4** 1010/ 1044	**1** Yellow Nomex **2** Yellow Nomex w/Underchin Extension **3** PBI/Kevlar **9** CFR Aluminized Bonnet w/PBI/Kevlar Shroud & Nomex Earlap ‡§ **A** Black Nomex **B** Black Nomex w/Underchin Extension	**1** 6" Carved Brass Eagle **2** 6" Silk Screened Eagle **3** 6" Silk Screened Maltese Cross **6** 6" Carved Brass Beaver ‡ **7** 6" Carved Brass Dragon ‡	**2** 2-Pt w/Quick Release & Postman's Slide **4** 4-Pt w/Quick Release & Postman's Slide ‡ **5** 2-Pt w/Quick Release & Postman's Slide, 7.5" longer	**0** None * **2** Reflexite (standard) **3** Scotchlite	**1** Lime/Yellow (standard) **2** White * (Reflexite only) **3** Red/ Orange * **4** Blue * (Reflexite only) **5** Red/Orange Triple Trim * (Scotchlite only) **6** Lime/Yellow Triple Trim (Scotchlite only)	**0** None **1** 4" Tuffshield **2** Cairns 550 Goggles **4** ESS Innerzone 3 Goggles **5** ESS Innerzone 2 Goggles w/ low profile hardware **8** 6" Gold-Coated Faceshield ‡ **B** Defender Visor, Clear ‡ **C** Defender Visor, Amber Tuffshield ‡ **E** ESS Innerzone 2 w/side mount hardware **M** NFPA compliant Bourkes **N** Low-Profile Hardware Only	**0** None **A** LCP Crown Pad w/ standard liner(880) **B** LCP Crown Pad w/ economy liner(880) **D** Goggle Sleeve

◆ *Not available on 1044*
‡ *Not available with 880 Tradition*
† *Available with 880 Tradition only*
* *Not NFPA 1971 compliant*
** *Compliant to NFPA 1971 Proximity Firefighting ONLY.*
§ *Not NFPA-1971 compliant when used with a Front Holder*

Column:	A	B	C	D	E	F	G	H	I	J	K	L	
C-TRD-										A			
	PART NUMBER												QUANTITY

660C Metro™ & Invader 664™ Helmets

For Structural & Proximity Firefighting

- Most popular modern helmet models
- Sleek, low-profile design
- Only difference
  - 660C: painted high-luster finish
  - 664: unpainted matte finish
- Certified to NFPA 1971 (Structural and Proximity)
- Certified for proximity firefighting (with bonnet, shroud, and gold-coated face shield)
- Hat sizes: 6⅜ to 8⅜

MSA Cairns 660C Metro (shown with Tuffshield visor)

MSA Cairns Invader 664 (shown with Defender visor)

Commando HP3® Helmets

For Structural Firefighting & USAR

- Sleek, low profile design
- Same shell as 660C with back watershed trimmed off
- Lightest fiberglass helmet
- Painted high-luster finish
- Certified to NFPA 1971 & 1951
- Hat sizes: 6⅜ to 8⅜

MSA Cairns Commando HP3 (shown with Defender visor)

FEATURES	BENEFITS
Through-color Fiberglass Composite Shell	Maintains its color even after taking a beating on the fireground
Impact Cap	Provides superior thermal and impact protection when you need it most
Shell Release System *(660C Metro and Invader 664 Helmets only)*	Retain your impact cap and earlaps if your helmet shell is torn away during a fall or structural collapse
Defender Visor Retractable Eye Protection	Deploys easily when you need it, stores securely inside your helmet shell when you don't
Adjustable NAPE Height	Three ratchet height positions to maximize comfort
Adjustable Headband Height	Ensures a perfect fit between your helmet and SCBA mask
D-ring Helmet Hanger	Fits on large hooks and resists bending
Removable/Washable Nomex Chinstrap	Enhances safety, performance and fit thanks to quick-release buckles, postman's slide, and Velcro stowage system

Structural 360S, Rescue 360R, & Rescue 360R-13

For Structural Firefighting (Structural 360S and Rescue 360R) & USAR (Rescue 360R and Rescue 360R-13)

- Light-weight, low-profile design
- Rescue 360R and Rescue 360S feature same shell as 360S without the back watershed
- Structural 360S certified to NFPA 1971
- Rescue 360R certified to NFPA 1971 & 1951
- Rescue 360R-13 certified to NFPA 1951 for USAR
- Hat sizes: 6⅜ to 7¾

FEATURES	BENEFITS
Through-color Thermoplastic Shell	Maintains its color even after taking a beating on the fireground
Impact Cap	Provides superior thermal and impact protection when you need it most (not available on Rescue 360R-13)
Adjustable NAPE Height	Three ratchet height positions to maximize comfort
Adjustable Headband Height	Ensures a perfect fit between your helmet and SCBA mask
D-ring Helmet Hanger	Fits on large hooks and resists bending
Removable/Washable Nomex Chinstrap	Enhances safety, performance and fit thanks to quick-release buckles, postman's slide, and Velcro stowage system

Cairns Modern Helmets Ordering Selection Matrix

A	B	C	D	E	F	G	H	I	J
Model	**Color**	**Eye/Face Protection**	**Headband Liners**	**Earlap**	**Removable/Washable Nomex Chinstrap**	**Trim Type**	**Trim Color**	**Trim Shape**	**Accessory Bracket**
2 660C Metro	**1** Black	**0** None *	**1** Economy Flannel	**0** None *	**2** 2-pt w/Quick Release & Postman's Slide	**0** None *	**1** Lime/Yellow (standard)	**1** Tetrabar ✣	**0** None
6 Structural 360S	**2** Red	**1** 4" Tuffshield ▲	**2** Standard Flannel	**1** Yellow Nomex	**6** 2-pt w/Quick Release & Postman's Slide, 7.5" longer **	**2** Reflexite (Standard)	**2** Red/Orange ✱	**2** Bar ✚	**9** Frontpiece Bracket
A Invader 664	**3** Blue ‡	**2** Cairns 550 Goggles	**3** Deluxe Leather w/Crown Pad	**2** Yellow Nomex w/Underchin Extension	**7** 3-pt w/Quick Release & Postman's Slide, ◆	**3** Scotchlite	**3** Blue * (Reflexite only)	**4** Triple Trim (Scotchlite only)	**C** Frontpiece Bracket and Frontpiece Installed
B Rescue 360R ✪	**4** White	**4** ESS Innerzone 3 Goggles		**3** PBI/Kevlar			**4** White *		**D** Goggle Sleeve
C Rescue 360R-13 ★	**5** Yellow	**5** ESS Innerzone 2 Goggles w/side-mount hardware		**8** Black Nomex w/Underchin Extension **					
D 660C Metro Defender	**6** Orange ‡	**7** 4" Standard Faceshield ▲		**9** CFR Aluminized Bonnet w/PBI/Kevlar Shroud & Nomex Earlap ●					
E Invader 664 Defender	**7** Green † ‡	**A** 6" Gold-Coated Faceshield ●		**A** Black Nomex					
G Commando HP3 ■	**8** Pink † ‡	**C** Defender Visor, Clear							
		D Defender Visor, Amber Tuffshield							
		G ESS Innerzone 2 Goggle w/low profile clip							

✪ *Compliant to NFPA 1971 and 1951*
★ *NFPA 1951 compliant only*
■ *Available with eye protection options 4, C or D.*
‡ *Not available on Invader 664*
† *Not available on 360S/R/R-13*
* *Not NFPA 1971 compliant*
▲ *Not available on 360R/R-13*
● *Non-Defender 660C/664 only*
◆ *360R/R-13 and HP3 only*
** *Not available on 664/660C Non-Defender and HP3.*
✱ *NFPA compliant as Triple Trim only*
✣ *NFPA compliant in lime/yellow only on all modern helmets*
✚ *NFPA compliant in lime/yellow and on 660C/664 only*

Column: A B C D E F G H I J

C-MOD- ☐☐☐☐☐☐☐☐☐☐ ☐

PART NUMBER QUANTITY

Stocked Cairns Traditional and Modern Helmets Ordering Information

All of the items listed below are stocked on the SOS (SOS) program. You can also order customized Cairns Fire Helmets through Assemble-to-Order (ATO). ATO forms are on every fire helmet page on MSASafety.com.

Model	Part No.	Color	Features
CAIRNS 1010	1010FSB	Black	With 4" Tuffshield, yellow Nomex earlap, chinstrap with Postman's Slide and lime/yellow Reflexite trim
	1010DSB	Black	With Clear Defender Visor, yellow Nomex earlap, chinstrap with Postman's Slide and lime/yellow Reflexite trim
CAIRNS 1044	1044FSB	Black	With 4" Tuffshield, yellow Nomex earlap, chinstrap with Postman's Slide and lime/yellow Reflexite trim
	1044DSR	Red	With Clear Defender Visor, yellow Nomex earlap, chinstrap with Postman's Slide and lime/yellow Reflexite trim
	1044DDB	Black	With Clear Defender Visor, PBI/Kevlar earlap, deluxe leather liner, carved brass eagle
	1044DSB	Black	With Clear Defender Visor, yellow Nomex earlap, chinstrap with Postman's Slide and lime/yellow Reflexite trim
	10205805	Black	With Clear Defender Visor, black earlap, deluxe leather liner, carved brass eagle
660C METRO	660DSR	Red	With clear Defender Visor, yellow Nomex earlap, chinstrap with Postman's Slide and lime/yellow Reflexite trim
	660CFSY	Yellow	With 4" Tuffshield, yellow Nomex earlap, chinstrap with Postman's Slide and lime/yellow Reflexite trim
	660CFSB	Black	With 4" Tuffshield, yellow Nomex earlap, chinstrap with Postman's Slide and lime/yellow Reflexite trim
INVADER 664	664FSY	Yellow	With 4" Tuffshield, yellow Nomex earlap, chinstrap with Postman's Slide and lime/yellow Reflexite trim
	664FSB	Black	With 4" Tuffshield, yellow Nomex earlap, chinstrap with Postman's Slide and lime/yellow Reflexite trim

Fire Helmet Fronts

Design your own MSA Cairns Fire Helmet Front at http://webapps.msanet.com/fronts, and call 1-877-MSA-FIRE to order! Or, use an order form: Bulletin ID 3600-85-MC, available at MSAFire.com. Give the completed form(s) to your sales representative or fax them to 800-967-0398.

- Reinforced with high-temperature, shrink-resistant backing
- Sewn with high-temperature, fire-retardant Nomex thread
- Configure your own front piece at http://webapps.msanet.com/fronts. Part of a tested/compliant configuration according to NFPA 1971.
- For MSA Cairns standard front or passport front order forms, see Bulletin ID 3600-85-MC available at MSAFire.com

Select Replacement Parts

Part No.	Description	Cairns 1010 & 1044 Helmets	660C Metro & Invader 664 Helmets	Commando HP3 Helmets
DEFENDER VISOR				
10077117	Clear lens w/hardware	■	■	■
10077118	Amber Tuffshield lens w/hardware	■	■	■
BOURKE'S LENSES				
10186311	NFPA-compliant Bourke's lens and hardware kit*	■		
10189241	Hole plug kit (10 helmets)**	■		
SOFT GOODS KITS				
10160548	**Soft Goods Kit:** Standard liner, yellow Nomex ear lap, Velcro tabs, mesh laundering bag	▲	■	■
10160549	**Soft Goods Kit:** Standard liner, black Nomex ear lap, Velcro tabs, mesh laundering bag	▲	■	■
10172739	**Soft Goods Kit:** Standard liner, yellow Nomex ear lap, Velcro tabs, mesh laundering bag	●		
10172740	**Soft Goods Kit:** Standard liner, black Nomex ear lap, Velcro tabs, mesh laundering bag	●		
EARLAPS				
L655XP	Yellow Nomex earlap	■	■	■
L655AP	Yellow Nomex earlap w/under-chin extension	■	■	■
L655GP	Black Nomex earlap	■	■	■
10124742	Black Nomex earlap w/under-chin extension	■	■	■
L955P	PBI/Kevlar earlap	■	■	■
L955AP	PBI/Kevlar earlap w/under-chin extension	■	■	■

▲ For MSA Cairns 1010/44 fire helmets manufactured before November 2015 ONLY.
● For MSA Cairns 1010/44 fire helmets manufactured on or after November 2015 ONLY.
** Addition of an NFPA-compliant Bourke's lens does not affect the compliance as indicated on the original fire helmet ensemble as shipped from MSA.*
*** To cover holes created by faceshield hardware when an MSA faceshield is replaced by an NFPA-compliant Bourke.*

Sightgard® Safety Glasses

Material: Polycarbonate
Rating: Impact (Z87+)
Standards: ANSI/ISEA Z87.1-2010
CSA Z94.3 (as noted)
NFPA-1500: 2013
Certification: Third-party by Intertek

SIGHTGARD SAFETY GLASSES		Model	Part No.	Product Specifics
		Arctic™ Eyewear TRY IT!	697514	• Frameless and lightweight • Among our most popular models! • Tuff Stuff™ Anti-scratch Coating • Full side coverage
		Arctic Eyewear TRY IT!	697515	• Popular, lightweight model • Full side coverage • Anti-scratch coating
		Arctic Elite Eyewear	10059671	• Indoor/outdoor mirror allows workers to go from bright to low light conditions • Rubber tipped temples and nosebridge for comfortable, yet secure fit • Anti-fog coating
		OvrG™ II Eyewear	10118475	• Clear lenses • For use over small-to-medium Rx glasses • Squared-off, stylish look • Maximum UV protection • 30% lighter weight than standard visitor specs

The "Try It" sample program offers some of the most popular MSA head, eye, face, and hearing protection products—including Sightgard Eyewear—completely FREE of charge! The TRY IT! tells you which products are in the program.

For more information on our complete line of eye protection, please visit MSAsafety.com.

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Applications

Size Up

Ideal for locating the seat of any fire and for pinpointing and isolating hidden fires, as well as for location of heat accumulation areas and possible ventilation points.

Optional real time video broadcast directly from operations scene to incident command control assists firefighters in making strategic decisions and increasing fireground safety.

Search/Rescue

Search for victims and downed firefighters, locate missing/injured persons, search for suspects, or quickly scan areas for heat signatures using available six color palettes.

Operations

Monitor building conditions to help avoid collapse, aid in decision-making process of placing firefighters on scene to find fire extensions.

Overhaul

Search for remaining hot spots and areas of building instability. User-selectable color palettes support code inspections and maintenance.

Fire Extension Location

Water Rescue

HazMat

Scene Investigation

Fire scene investigation (arson suspicion) as well as scene investigation involving electrical or ventilation issues

Liquid Storage Evaluation

Evolution® 6000 Basic TIC

Provides easy to use TIC performance—a simplified fireground tool.

- Economical, durable value to fit your station's budget
- Save on repair costs with rugged, waterproof and shock-resistant product design
- 320X240 high definition image quality offers excellent resolution
- Standard flashlight provides extra visibility for firefighter proximity to enhance safety and situational awareness
- Laser pointer precisely indicates hot spots and other areas of interest to allow others to take fast, specific action
- Patented dual-handle design for easy handoff on the fireground
- Three carabiner attachment points offer flexibility in attaching camera to firefighter

Colorized basic image

Three carabiner attachment points

Patented dual-handle design

Field-replaceable germanium lens

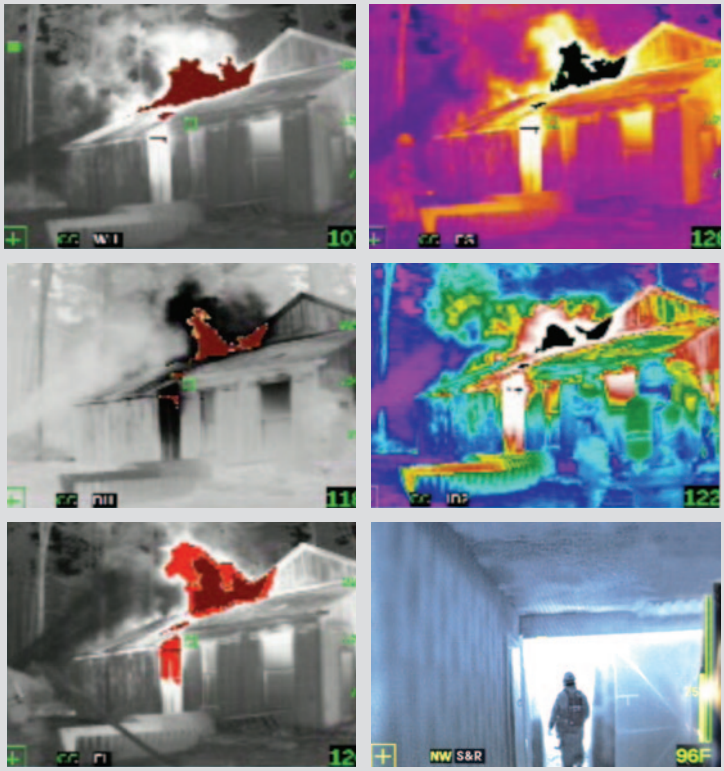
Flashlight

Laser pointer

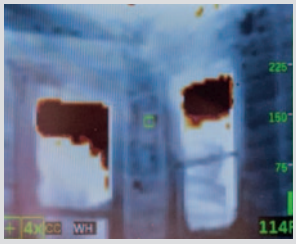
Evolution 6000 Plus TIC

Adds additional tools to aid and improve fireground safety and decision making.

- 2X/4X zoom provides a closer look at areas of interest
- Six user-selectable color palettes provide flexibility to view thermal images
- Compass allows for faster rescues and improved situational awareness by displaying letters or icon for directional information
- Optional integrated range finder offers more usable information to enable faster, more precise action from 16 to 210 feet away (replaces flashlight option)



Six color palettes



2X/4X zoom

Compass

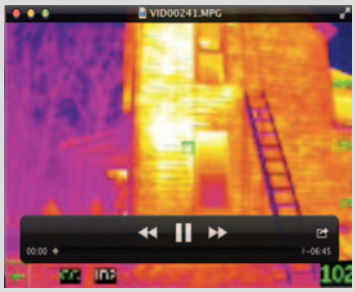
Laser range finder

Evolution 6000 Xtreme TIC

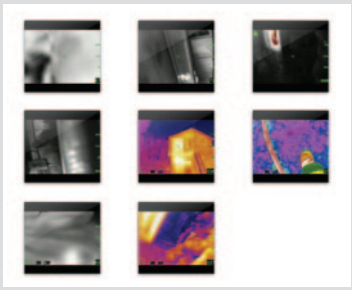
Provides same standard and optional features as EVOLUTION 6000 Plus TIC. Xtreme model adds:

- Integrated picture and video capture save action to camera's internal hard drive
- Capability to download pictures and video to your desktop
- Use of pictures and video for training, after-action review and documentation

Camera configuration application



Video capture



Picture capture

Evolution 6000 TIC Model Comparison

	EVOLUTION 6000 TIC	EVOLUTION 6000 Plus TIC	EVOLUTION 6000 Xtreme TIC
HIGH DEFINITION 320X240 THERMAL IMAGING CORE	•	•	•
LASER POINTER	•	•	•
LED FLASHLIGHT *	•	•	•
THREE CARABINER ATTACHMENT POINTS	•	•	•
FIELD-REPLACEABLE GERMANIUM LENS	•	•	•
PATENTED DUAL-HANDLE DESIGN	•	•	•
SIX COLOR PALETTES		•	•
2X/4X ZOOM		•	•
COMPASS		•	•
OPTIONAL RANGE FINDER		•	•
INTEGRATED PICTURE CAPTURE			•
INTEGRATED VIDEO CAPTURE			•

** Not available with range finder option*

Evolution 6000 TIC Technical Specifications

CONSTRUCTION	Flame-retardant (material passes NFPA direct flame exposure test) IP67 [withstands immersion to 3 ft. (1 meter)]
APPROXIMATE DIMENSIONS	7.3" x 4.8" x 11.6" (LxWxH) (185 mm x 122 mm x 295 mm)
SENSOR	Uncooled VOX microbolometer
ARRAY SIZE	320X240
WEIGHT	2.65 lbs (1.2 kg)
POWER SOURCE	Rechargeable lithium-ion battery
OPERATING TIME	3.5 hours at nominal 72°F (22°C)
FIELD OF VIEW	48° H; 37° V
RANGE FINDER	Maximum range 210 ft. (70 m)
INTRINSICALLY SAFE	Nonincendive equipment (UL Class 1, Div 2)

APPROVALS	NFPA 1801
NET EQUIVALENT TEMPERATURE DIFFERENCE	High sensitivity 40 mK (0.040°C) (typical), 78 mK (0.078°C) (max) Low sensitivity 234 mK (0.234°C)
TEMPERATURE MEASUREMENT	± 18 °F (10 °C) or ±10 %, whichever is greater
IMAGE STORAGE (6000X ONLY)	Number of images stored, 1000 minimum Format – JPG
VIDEO STORAGE (6000X ONLY)	Length – 4-hour minimum Format – MPEG 4
ENVIRONMENTAL AMBIENT TEMPERATURE AND OPERATING TIME	176º F (80ºC) > 30 minutes 248º F (120ºC) > 20 minutes 500º F (260ºC) > 6 minutes -22º F (-30ºC) > 40 minutes -40º F (-40ºC) > 25 minutes

Ordering Information

Model	Temperature units	Part number	With range finder option
EVOLUTION 6000 Basic TIC	Fahrenheit	10145938	
	Celsius	10145939	
EVOLUTION 6000 Plus TIC	Fahrenheit	10145940	10145951
	Celsius	10145954	1014595
EVOLUTION 6000 Xtreme TIC	Fahrenheit	10145958	10145959
	Celsius	10145962	10145963

EVOLUTION 6000 CHARGING KITS	
10145750	EVOLUTION 6000 TIC Station Kit (includes carrying case, 2 rechargeable batteries, multi-use charger (North America), retractable lanyard, carabiner)
10145771	EVOLUTION 6000 TIC Vehicle Kit (includes 2 rechargeable batteries, vehicle charger, retractable lanyard, carabiner)

ACCESSORIES	
10145859	Multi-use charger (12V) kit
10148136	Vehicle-mounted charger system
10147390	Vehicle mounting bracket
10145749	Reflective label ID kit (includes 3 sets of reflective ID labels)
10120606-SP	Lithium-ion battery
10145748	Tripod adapter
10040005	Carabiner
10127441-SP	Plastic carrying case
10040226	Retractable lanyard
10039515	Shoulder strap
10039516	Wrist strap
10148391-SP	Protective display covers (3 per package)

MSA Gas Detectors for YOUR Fire Service Applications

Emergency response crews face two basic challenges when entering potentially hazardous environments:

- Is the air acceptable for normal, unprotected breathing?
- Is the air safe from potential explosions?

Portable gas detection equipment can help emergency response crews to meet these challenges. Gas detection needs are expanding. Increasingly, fire departments respond to situations where hazardous substances may be present and proper detection equipment is necessary. MSA provides equipment to meet almost any gas detection need.

Confined Space Entry
Emergency response teams may be called upon to perform services or rescues in confined spaces. While often industrial in nature, a confined space is typically defined as any enclosed area not meant for human habitation, such as sewers or storm drains. MSA's multigas detectors can help to ensure that confined space atmospheres are safe for worker entry.

Overhaul
During overhaul operations, you can never be certain of conditions within damaged structures. MSA Single-Gas and Multigas Detectors can indicate the need to use respiratory protection.

Hydrogen Cyanide (HCN) Risks
Hydrogen cyanide (HCN) detection has increasingly become a key part of firefighting respiratory programs and SOPs as awareness of HCN exposures increases. Materials such as insulation, furniture, carpets, appliances, and plastics can generate HCN when burned, as can many items made of natural materials.

In addition to smoke generated during active fires, continued presence of heat and smoldering materials during overhaul can generate potentially hazardous HCN levels, prompting many departments to adjust their respiratory SOPs to minimize firefighter HCN exposure. Use of HCN monitors during overhaul can provide critical information needed to support those decisions and further protect firefighters.

HCN is colorless gas with a bitter, almond-like odor. Per NIOSH, HCN reaches IDLH at 50 ppm, and can enter the body through absorption, inhalation and ingestion. HCN exposure symptoms can include nausea, dizziness, vomiting, and breathing difficulty, and can appear immediately. Long-term effects of repeated exposure continue to be studied. MSA ALTAIR® Pro and ALTAIR 5X Gas Detectors can help firefighters to detect potential HCN threats.

Carbon Monoxide (CO) Risks
CO is colorless, odorless gas that is toxic at 35 ppm, with NIOSH IDLH at 1200 ppm. Exposure symptoms can include headache, nausea, dizziness, confusion, and shortness of breath. As CO is often the by-product of incomplete combustion, it can be a threat during overhaul or residential calls.

Home Calls
Fire departments often respond to calls concerning CO home alarms. MSA ALTAIR 2X, ALTAIR 4XR and ALTAIR 5X Detectors can idenitfy the presence of CO upon arrival at call sites and determine if premises are safe for habitation. These units can even be used to locate the gas source (often garages or leaky furnace vents). Fire departments may also respond to natural gas leaks or suspicious odors and must be able to measure concentrations of several gases simultaneously.

HazMat
Fire departments and HazMat teams at times must detect and identify hazardous compounds and other VOCs at spills and other emergency situations. With the ability to detect hundreds of volatile organic compounds, the ALTAIR 5X Multigas Detector with PID is the ideal instrument for HazMat applications.

ALTAIR® 2X Gas Detector

ALTAIR 2X Gas Detectors incorporate XCell® Sensor Technology to deliver unparalleled performance while minimizing total cost of ownership, increasing durability and delivering enhanced worker safety, compliance and traceability. ALTAIR 2X Detectors use revolutionary XCell Pulse Technology for gas-less bump testing.

Built Tough

ALTAIR 2X Detectors are built for durability.

DETECTOR TYPE (LOW, HIGH ALARM IN PPM)	CHARCOAL	GLOW-IN-THE-DARK
ALTAIR 2X Single-Gas Detector		
CO (25, 100)	10153986	10154185
CO-H_2 (25, 100)	10154074	10154186
CO-HC (25, 100)	10154075	10154187
ALTAIR 2XT Two-Tox Gas Detector		
CO/H_2S (CO: 25, 100; H_2S: 10, 15)	10154040	10154181
CO-H_2/H_2S (CO: 25, 100; H_2S: 10, 15)	10154071	10154182
CO/H_2S-LC (CO: 25, 100; H_2S: 5, 10)	10154072	10154183
CO/NO_2 (CO: 25, 100; NO_2: 2.5, 5)	10154073	10154184
ALTAIR 2XP – with XCell Pulse Technology		
H_2S-Pulse (10, 15)	10153984	10154188

- Withstands extreme impact with rugged polycarbonate housing; passes 25-ft. drop test
- IP67-rated unit is both dust- and watertight
- Minimal RF interference
- Full three-year warranty supports entire instrument, including sensors

ALTAIR Pro HCN Single-Gas Detectors

Ease of Use

ALTAIR Pro HCN Gas Detectors combine flexibility and functional simplicity. Units use replaceable, commercially available battery and one-button operation.

Distinctive Alarm System

Triple alarm system's piercing audible alarm averages 95 dB @ 1 ft. and is unlikely to be confused with other sounds. Visual alarm features dual bright top LED to be seen from all angles. Internal vibrating alarm is standard.

ALTAIR PRO HCN SINGLE-GAS DETECTOR					
Instrument Type	P/N	Low Alarm	High Alarm	STEL	TWA
HYDROGEN CYANIDE (HCN)	10076729	4.7 PPM	10 PPM	10 PPM	4.7 PPM

ACCESSORIES	
	Description
711072	Calibration gas - 10 ppm HCN - 34 liter
655051	Replacement HCN sensor
467895	Flow control regulator
602294	Tubing
10150609	Calibration gas - 60 ppm CO - 116 liter

ALTAIR PRO HCN Fire Single-Gas Detector

Built-In IR Communication (Event and Data-Logging)

ALTAIR Pro HCN Gas Detectors provide standard data logging, automatically recording 50 latest events while simultaneously recording peak readings every three minutes.

Durability

Thick rubberized housing withstands accidental drops and other impacts. 10-ft. drop test and IP67-rated for water-and-dust resistance.

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ALTAIR 5X Multigas Detector
ALTAIR 5X Detector with PID for Volatile Organic Compound (VOC) Detection

ALTAIR 5X Multigas Detector

ALTAIR 5X Multigas Detector with MSA XCell Sensors has typical life of more than double the industry average. MSA's proprietary Application-Specific Integrated Circuit (ASIC) design miniaturizes sensor controlling electronics, offering superior stability, accuracy and repeatability. Faster sensor response and span calibration times save on calibration gas and maintenance costs. ALTAIR 5X Multigas Detectors can also be equipped with MSA infrared (IR) sensors for many gases and ranges, including CO_2.

ALTAIR 5X Detector with PID for Volatile Organic Compound (VOC) Detection

VOC detection is critical for HazMat, arson investigations and fire service applications. Unmatched durability with advanced XCell Sensor technology combines with PID to provide a complete platform that seamlessly integrates into MSA's fleet management infrastructure.

ALTAIR 5X Detectors Features

- Built upon durability
- Powered by performance
- Flexibility & connectivity
- Industry-first man-down alarm
- Bluetooth wirelesss connectivity
- Altair Connect App available on Google Play
- Industry-leading warranty
- Online product simulation and training

Google Play

ALTAIR 5X PID Multigas Detector

ALTAIR 5X MULTIGAS DETECTOR KITS	UL P/N	CSA P/N
Instrument-only kits		
ALTAIR 5X DETECTOR MONO, (LEL, O_2, CO, H_2S)	10116924	10115118
ALTAIR 5X DETECTOR MONO, (LEL, O_2, CO, H_2S, SO_2)	10116925	10115119
ALTAIR 5X DETECTOR COLOR, (LEL, O_2, CO, H_2S, PID)	10165445	
Standard kits—monochrome display, 10-ft. sampling line, 1-ft. probe		
ALTAIR 5X DETECTOR MONO, (LEL, O_2, CO, H_2S)	10116926	10115120
ALTAIR 5X DETECTOR MONO, (LEL, O_2, CO, H_2S, SO_2)	10116927	10115141
Deluxe kits—color display, 10-ft. sampling line, 1-ft. probe		
ALTAIR 5X DETECTOR COLOR, (LEL, O_2, CO, H_2S)	10116928	10115142
ALTAIR 5X DETECTOR COLOR, (LEL, O_2, CO, H_2S, SO_2)	10116929	10115143
ALTAIR 5X DETECTOR COLOR, (LEL, O_2, CO, H_2S, PID)	10165446	

ACCESSORIES	
USB IR RECEIVER	10082834
BATTERY PACK, ALKALINE	10114837

GAS TYPE	RANGE	RESOLUTION
COMBUSTIBLE	0-100% LEL	1% LEL
COMBUSTIBLE	0-5% Vol, CH_4	0.05% Vol, CH_4
OXYGEN	0-30%Vol	0.1%Vol
CARBON MONOXIDE	0-2000 ppm	1 ppm
CARBON MONOXIDE	0-10,000 ppm	5 ppm
HYDROGEN SULFIDE	0-200 ppm	1 ppm
HYDROGEN SULFIDE - LC	0-100 ppm	0.1 ppm
SULFUR DIOXIDE	0-20 ppm	0.1 ppm
CHLORINE	0-10 ppm	0.05 ppm
AMMONIA	0-100 ppm	1 ppm
NITROGEN DIOXIDE	0-20 ppm	0.1 ppm
NITROGEN DIOXIDE (XCELL)	0-50 ppm	0.1 ppm
CHLORINE DIOXIDE	0-1 ppm	0.01 ppm
PHOSPHINE	0-5 ppm	0.05 ppm
HYDROGEN CYANIDE	0-30 ppm	0.5 ppm
CARBON DIOXIDE, CO_2	0-10%Vol	0.01%Vol
BUTANE, C_4H_{10}	0-25%Vol	0.1%Vol
METHANE, CH_4	0-100%Vol	1%Vol
PROPANE, C_3H_8	0-100%Vol	1%Vol
PROPANE, C_3H_8	0-100% LEL	1% LEL
PID - 10.6EV	0-2000 ppm	0.1 ppm
PID - 10.6EV	0-10,000 ppm	1 ppm

ALTAIR 4XR Multigas Detectors

ALTAIR 4XR Gas Detectors are tough, reliable four-gas monitors. Proven MSA XCell Sensors are among the fastest in the world, and when paired with MSA ALTAIR Connect app, detector can text alarm notifications to supervisors and team members.

- ***Reliable:*** <15-second sensor response time, four-year warranty, five-year expected life, 24-hour run-time
- ***Rugged:*** IP68 rating, survives incidental 25-ft. drops, exceeds MIL-STD-810 drop test requirements
- ***Real-time monitoring:*** Bluetooth connectivity and event notification, instrument compliance

Google Play

ALTAIR 4XR Multigas Detector

ALTAIR 4XR MULTIGAS DETECTOR		
USA/CAN	ATEX	Description
10178557	10178573	ALTAIR 4XR Multigas Detector (LEL, O_2, CO, H_2S), charcoal
10178558	10178569	ALTAIR 4XR Multigas Detector (LEL, O_2, CO, H_2S), phosphorescent
ALTAIR 4XR MULTIGAS DETECTOR KITS		
USA/CAN		Description
101788356		ALTAIR 4XR Multigas Detector (LEL, O_2, CO, H_2S), charcoal, with 34-liter gas cylinder (1.45% CH_4, 15% O_2, 60 ppm CO, 20 ppm H_2S) regulator (0.25 l/min)
10178357		ALTAIR 4XR Multigas Detector (LEL, O_2, CO, H_2S), charcoal, with 34-liter gas cylinder (1.45% CH_4, 15% O_2, 60 ppm CO, 20 ppm H_2S) regulator (0.25 l/min), and ALTAIR Pump Probe

ACCESSORIES	
	Description
10152669	ALTAIR Pump Probe with charger (USA/Canada)
10052668	ALTAIR Pump Probe with charger (ATEX/IEC)
10048280	34 liter quad gas - LEL-O_2-CO-H_2S
10045035	58 liter quad gas - LEL-O_2-CO-H_2S

SENSOR SPECIFICATIONS		
Gas Type	Range	Resolution
LEL	0-100%	1%
O_2	0-30% VOL	0.1% VOL
CO	0-1999 PPM	1 PPM
H_2S	0-200 PPM	1 PPM

MSA XCell Technology

MSA sensor technology provides design breakthroughs for superior performance that saves you money.

- Sensor response and clear times in fewer than 15 seconds
- Bump test in fewer than 15 seconds
- Span calibration time of 60 seconds
- Greater signal stability and repeatability within changing or extreme environmental conditions
- Two-tox CO/H_2S sensor with virtually no cross-channel interference
- Sensor digital output reduces susceptibility to RF interference
- Reliable, extended-life XCell Sensors offer typical life greater than four years
- Laser-welded sensor housings eliminate opportunities for leaks
- Combustible sensor proprietary operating mode improves poison resistance
- End-of-sensor-life warning gives advanced notice to user, reducing service outages

XCell® SENSORS

The Importance of Calibration and Bump Testing

It is vital to firefighter safety that portable gas detectors are maintained and calibrated properly. All sensors can eventually expire due to loss of sensitivity, slowed response time or both. Because of this, performance of a daily bump test is best practice because it is the only method by which the entire system: instrument, sensors, flow path, power source, alarms, and all electronics can be checked to ensure that it is functioning properly. That's why most manufacturer instructions recommend a daily bump test each day, prior to operation of gas detectors.

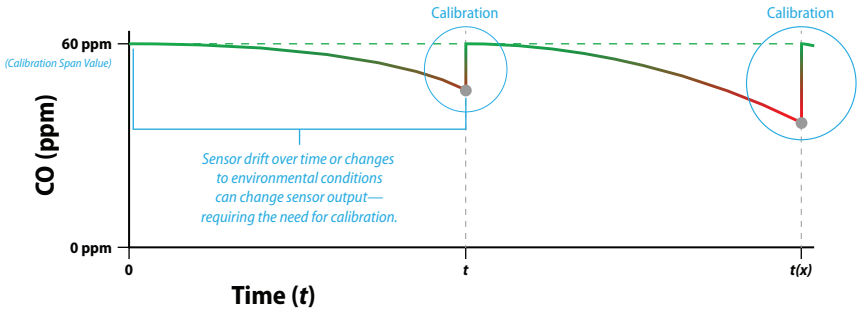
Sensor drift

All electrochemical sensors will eventually lose sensitivity over time with exposure to work conditions. Calibration is used to compensate for the loss of sensitivity and adjust the readings to the new sensitivity output level.

Drift is the amount that sensor output changes over time. All sensors experience drift. Once the sensitivity becomes too low, it becomes more difficult to assess exact differences in gas concentrations. Sensors typically have a fixed sensitivity limit assigned by the detector; once that limit is reached, they will not pass calibration.

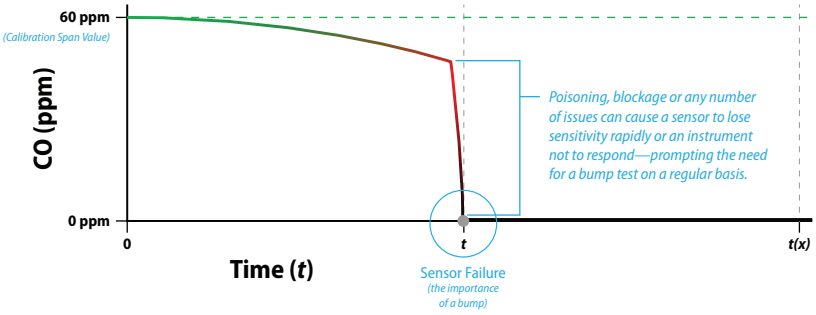
What is a Calibration?

Calibration is an adjustment of the sensor(s) output to match the known traceable calibration gas concentration. Full calibration ensures maximum accuracy of the instrument. Environmental conditions such as over-exposures, introduction of poisons, heavy impacts, or other extreme environmental changes can cause sensors to become less accurate. Calibration allows the instrument to manage these changes in sensitivity.



What is a Bump Test?

Bump tests are meant to verify that the sensors and the alarms function properly and that the sensors respond within acceptable margins. Gases or vapors must be able to reach the sensor. Bump tests confirm that gas flow paths to the sensor on the detector are clear and the sensor(s) are functioning from a qualitative standpoint. Bump testing will alert users if a gas inlet has become blocked, even if the blockage is not visible. The bump test, however, is not meant to adjust the device's accuracy.



GALAXY® GX2 Automated Test System

Simplicity counts with the MSA GALAXY GX2 Automated Test System for advanced safety management and effortless operation, by providing simple, intelligent testing and calibration of MSA ALTAIR, ALTAIR PRO, and ALTAIR 2X Single-Gas Detectors and ALTAIR 4XR and ALTAIR 5X/5X PID Multigas Detectors. Easy-to-use automated test stand offers high performance as either stand-alone unit or integrated portable detector management system, enabling total data access and control of the MSA ALTAIR family Gas Detector fleet. New Safety io Grid Fleet Manager for proactive safety management; gas exposure email alerts, direct data input, live filtering, test and exposure queries, collecting and printing reports.

- Color touch screen for ease of setup and viewing
- Extremely simple to use; testing starts automatically without touching a single button
- Simultaneous testing of up to ten instruments
- GALAXY GX2 System is optimized for use with MSA's XCell Sensors; provides up to 50% cost of ownership reduction
- At-a-glance indicators include low calibration gas volume, expiration warnings and test stand status

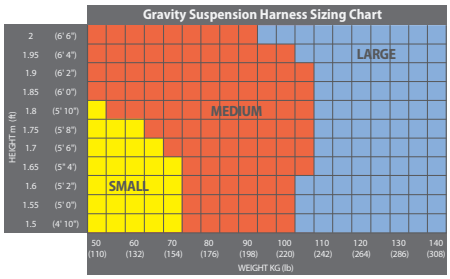
GALAXY GX2 SYSTEM TEST STAND				
	1 valve (for use with 1 calibration gas cylinder)		4 valve (for use with 1-4 calibration gas cylinders)	
	*Charging**	*No-charging*	*Charging**	*No-charging*
ALTAIR / ALTAIR PRO SINGLE-GAS DETECTOR	—	10128644	—	10128643
ALTAIR 4/4X MULTIGAS DETECTOR	10128630	10128642	10128629	10128641
ALTAIR 5/5X MULTIGAS DETECTOR	10128626	10128628	10128625	10128627

CALIBRATION CYLINDERS AND ACCESSORIES	
10034391	Demand Flow Regulator (universal)
10050985	Kit, case with Gas Miser® Regulator, demand flow RP (includes tubing and fitting, less gas)
10041225	Calibration tubing with quick-disconnect fitting
10045035	58L Quad Gas Cylinder, 60 ppm C0, 20 ppm H_2S, 15% O_2, 1.45% CH_4
10048280	34l Quad Gas Cylinder, 60 ppm C0, 20 ppm H_2S, 15% O_2, 1.45% CH_4
10048789	34l Cylinder, 60 ppm CO,15% O_2, 1.45% CH_4
711068	34l Econo-Cal® Cylinder, 10 ppm NO_2,air balance

ACCESSORIES	
10127422	ALTAIR 4/4X Detector Multi-unit Charger
10127427	ALTAIR 5/5X Detector Multi-unit Charger
10161803	ALTAIR 4/4XR & 5X (2:2) Multi-unit Charger
10105756	Electronic Cylinder Holder
10125135	Standard Cylinder Holder
10034391	Demand Flow Regulator (universal)
10127111	Memory Card

Gravity® Suspension Harness

- Unparalleled comfort for all applications that require wearing a fall protection harness for extended periods of time
- Easy donning
- Eight adjustment points for perfect sizing and fit
- Quick-adjusting buckles allow one-hand tightening/loosening
- Aluminum D-ring hardware
- Tool loops with internal rigid supports allow for easier tool connection
- Tool loops on leg straps provide more tool-holding options, and may be cut off if not needed
- Modern styling
- Standards: ANSI Z359.11 and CSA Z259.10



PART NO.	D-Ring Configuration	Size		Leg Buckle Type	Padding	Web Color	
	Back, Hips, Sternal & Ventral	M	L	Quick-Connect	Shoulder, Leg & Lumbar	Green	Black
10150454	■	■		■	■	■	
10150455	■		■	■	■	■	
10150457	■	■		■	■		■
10150458	■		■	■	■		■

Rescue Equipment

Confined Space Entry Kit
with Workman Rescuer and Winch
(Part No. 10163033)

Workman® Tripod

- No tools needed to set up and dismantle
- Automatic hinge lock legs with incremental adjustment
- Skid-resistant feet

Workman Confined Space Entry Kits

- Allow for non-entry rescue of confined space entrant
- Great portability of entire tripod kit
- Lift and lower materials and personnel via hoist while retaining ability to use SRL

PART NO.	Stainless Steel Kit Components					Standards	
	8' Tripod	50' Workman Rescuer	65' Workman Winch	Pulleys	Carabiners	ANSI Z359.14	OSHA
10163033	■	■	■	2	2	■	■
10163034	■	■		1	1	■	■

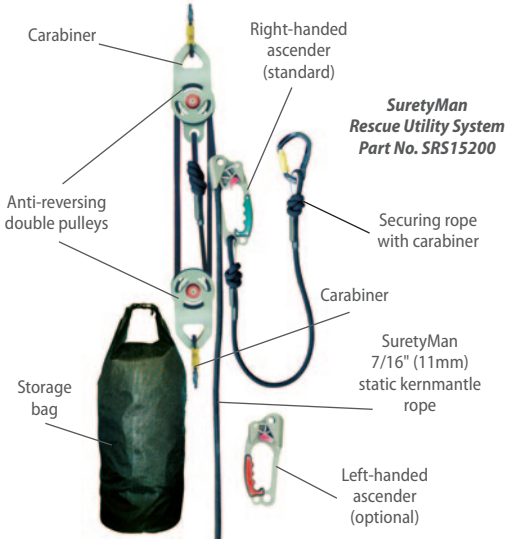
Replacement Parts and Accessories

10105612	Leg base support strap
10089207	Carabiner
506222	Pulley
10105656	Tripod duffel bag

Includes carry bags for tripod, Workman Winch and Workman Rescuer

Rescue Equipment

SuretyMan™ Rescue Utility System



The SuretyMan Rescue Utility System is primarily used for raising and lowering people or equipment in rescue and confined space applications. Pulleys are equipped with built-in anti-reversing lock. Offers rapid deployment, is virtually maintenance free and is rated for two-person load.

- Compact and lightweight with standard system weight of 17 lbs. (7.7 kg)
- Rated capacity of 600 lbs. (272 kg) for personnel and materials

NOTE: Due to 4:1 mechanical advantage, user should order system with 4X rope necessary for application. For example, 50 ft. application requires 200 ft. of rope.

SURETYMAN RESCUE UTILITY SYSTEM	SRS15200	SuretyMan Rescue Utility System, 200 ft. (61m) length
	SRS15300	SuretyMan Rescue Utility System, 300 ft. (91.4m) length
	SRS15400	SuretyMan Rescue Utility System, 400 ft. (122m) length
	10093608	SuretyMan Rescue Utility System, 500 ft. (152.4m) length
	10033360	SuretyMan Rescue Utility System, 600 ft. (182.9m) length
	10101135	SuretyMan Rescue Utility System, 800 ft. (272m) length
	10037101	Left-hand ascender with securing rope
	10035698	Right-hand ascender with securing rope

Confined Space/Head First Extraction System

Strength: 5,000 lbs. (22 kN) Weight approx: 2 lbs. (0.9 kg)

Specialized rescue product allows rescuer to be lowered comfortably into confined space head first, harness victim, and raise both victim and rescuer out of confined space. Consists of adjustable lifting strap (A), adjustable victim strap (B), one pair of ankle harnesses (C), two carabiners (D), and storage bag (E). This compact system can be used with any confined space retrieval equipment such as tripods and davits.

- Leaves both hands free for rescuer to assist in retrieval of another person
- Small, lightweight system

Pair of rescue wristlets Part No. 507002

CONFINED SPACE/HEAD FIRST EXTRACTION SYSTEM	SRS3100	Confined Space/ Head First Extraction System
ACCESSORIES	SRS3103	Rescue anklets
	507002	Rescue wristlets

Components

SuretyMan Rescue Eight Part No. SRF5077

Stealth Rigging Plate Part No. SRSPR5990

Stretcher Rigging Plate Part No. SRSPR5980

Carabiner Part No. SRCC641

RESCUE COMPONENTS	SRSF5077	SuretyMan Rescue Eight, aluminum, weight: 1.5 lbs. (675 g), strength: 6,720 lbs. (30 kN)
	SRSPR5990	SuretyMan Stealth Rigging Plate, aluminum, teal, weight: .46 lbs. (250g), strength: 11,000 lbs. (48 kN)
	SRSPR5980	SuretyMan Stretcher Rigging Plate, aluminum, teal, weight: .74 lbs. (330g), strength: 12,200 lbs. (54 kN)
	SRCC641	Carabiner, 1.2" (32mm) gate, steel, NFPA, weight: 11 oz. (311 g), strength: 12,364 lbs. (55 kN)

The Safety Company

MSA—**The Safety Company**

Our business is safety. We've been the world's leading manufacturer of high-quality safety products since 1914. MSA products may be simple to use and maintain, but they're also highly sophisticated devices and protective gear—the result of countless R&D hours, relentless testing and an unwavering commitment to quality that saves lives and protects thousands of men and women each and every day. Our product focus emphasizes Self-Contained Breathing Apparatus (SCBA), including the revolutionary MSA G1 SCBA and respiratory protective equipment; MSA Cairns® head, eye, face, hearing and communications protection; Globe® turnout gear and boots; fall protection and rescue products; ALTAIR® Portable Gas Detection instruments and GALAXY® Test Systems; and Evolution® Thermal Imaging Cameras (TIC). When You Go In, We Go In With You. For more information, visit ***www.MSAfire.com*** *or call* ***1-877-MSA-FIRE****.*

Our Mission

MSA's mission is to see to it that men and women may work in safety and that they, their families and their communities may live in health throughout the world.

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

MSA operates in over 40 countries worldwide. To find an MSA office near you, please visit ***MSAsafety.com/offices***.

6001-435-MC / 12.2019
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MSA HGAC **List Price Discounting Reference Sheet**

2020

The Safety Company

Product	% off List Price
SELF-CONTAINED BREATHING APPARATUS (SCBA)	
G1 SCBA Facepieces	15%
G1 SCBA Cylinders	15%
G1 SCBA Rescue Belt II System	15%
G1 SCBA Accessories	15%
MSA HUB	15%
Emergency Breathing Systems	15%
G1 PremAire Cadet Escape Respirator	15%
SCBA Accessories	15%
SCBA Key Components	15%
Rescue Aire II Portable Air-Supply System	15%
G1 RIT System	15%
Technical Rescue Cart	15%
Cleaning Accessories	15%
Other SCBA Accessories	15%
CBRN FACEPIECE	
CBRN Facepiece and Replacement Components	15%
MSA CAIRNS FIRE AND RESCUE HELMETS	
Helmets	15%
Replacement Parts	15%
EYE PROTECTION	
Safety Glasses	15%
EVOLUTION THERMAL IMAGING CAMERAS	
Thermal Imaging Camera	5%
Charging Kits	5%
Accessories	5%
Video Transmission Receiving Systems	5%
GAS DETECTION	
Gas Detector	15%
Kits	15%
Accessories	15%
FALL ARREST, RESCUE AND CONFINED SPACE EQUIPMENT	
Gravity Suspension Harness	15%
Rescue Equipment	15%

Note: This Bulletin contains only a general description of the products shown. While product uses and performance capabilities are generally described, the products shall not, under any circumstances, be used by untrained or unqualified individuals. The products shall not be used until the product instructions/user manual, which contains detailed information concerning the proper use and care of the products, including any warnings or cautions, have been thoroughly read and understood. Specifications are subject to change without prior notice.

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WHEN YOU GO IN, WE GO IN WITH YOU.

MSA – The Safety Company

MSA G1 SCBA

Limited Warranty and Terms of Sale

Express Warranty — MSA - The Safety Company (MSA) warrants MSA G1 SCBA (SCBA) to be free from defects in materials and/or faulty workmanship for a period of fifteen (15) years from the date of sale by MSA. This warranty applies to all components* of the SCBA including all accessories and optional equipment purchased and supplied at the time of the original sale. MSA's obligation under this warranty is limited to the repair or replacement, at MSA's option, of the SCBA or components shown to be defective in either workmanship or materials.

No agent, employee or representative of MSA may bind MSA to any affirmation, representation or modification of the warranty concerning the goods sold under this contract.

MSA shall be released from all obligations under this warranty in the event that repairs or modifications are made by persons other than its own or authorized service personnel, or if the warranty claim results from accident, alteration, misuse, or abuse.

*This warranty expressly excludes the G1 SCBA Integrated Thermal Imaging Camera. For warranty information regarding the G1 SCBA Integrated Thermal Imaging Camera please see the *G1 SCBA Integrated Thermal Imaging Camera Warranty*.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTEES, EXPRESSED, IMPLIED, OR STATUTORY INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN ADDITION, MSA EXPRESSLY DISCLAIMS ANY LIABILITY FOR ECONOMIC, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY CONNECTED WITH THE SALE OR USE OF MSA PRODUCTS, INCLUDING, BUT NOT LIMITED TO, LOSS OF ANTICIPATED PROFITS.

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Phone 1-800-672-2222
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Fax 52-44 2227 3943

MSA International
Phone 724-776-8626
Toll-Free 1-800-672-7777
Fax 724-741-1553

MSA
The Safety Company

EXHIBIT 7
VENDOR DATA SHEET

Note: The following information is required as part of your response to this solicitation. Failure to complete and provide this sheet may result in finding your bid nonresponsive.

1. Qualification: The vendor must have the capability and capacity in all respects to satisfy fully all of the contractual requirements.

2. Vendor's Primary Contact:
Name: _____ Phone: _____

3. Years in Business: Indicate the length of time you have been in business providing this type of good or service:
_____ Years _____ Months

4. Vendor Information:

FIN or FEI Number: _____ If Company, Corporation, or Partnership

5. Indicate below a listing of at least four (4) current or recent accounts, either commercial or governmental, that your company is servicing, has serviced, or has provided similar goods. Include the length of service and the name, address, and telephone number of the point of contact.

Company:	Contact:
Phone:	Email:
Dates of Service:	$$ Value:

Company:	Contact:
Phone:	Email:
Dates of Service:	$$ Value:

Company:	Contact:
Phone:	Email:
Dates of Service:	$$ Value:

Company:	Contact:
Phone:	Email:
Dates of Service:	$$ Value:

I certify the accuracy of this information.

Signed: _____Title:_____

Date: _____

PLEASE RETURN THIS PAGE WITH BID SUBMISSION – *[REQUIRED]*

PROOF OF AUTHORITY TO TRANSACT BUSINESS IN VIRGINIA

THIS FORM MUST BE SUBMITTED WITH YOUR PROPOSAL/BID. FAILURE TO INCLUDE THIS FORM MAY RESULT IN REJECTION OF YOUR PROPOSAL/BID

Pursuant to Virginia Code §2.2-4311.2, an Offeror/Bidder organized or authorized to transact business in The Commonwealth pursuant to Title 13.1 or Title 50 of the Code of Virginia shall include in its proposal/bid the identification number issued to it by the State Corporation Commission ("SCC"). Any Offeror/Bidder that is not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50 of the Code of Virginia or as otherwise required by law shall include in its proposal/bid a statement describing why the Offeror/Bidder is not required to be so authorized. Any Offeror/Bidder described herein that fails to provide the required information shall not receive an award unless a waiver of this requirement and the administrative policies and procedures established to implement this section is granted by the County Administrator, as applicable. If this quote for goods or services is accepted by the County of Fluvanna, Virginia, the undersigned agrees that the requirements of the Code of Virginia Section 2.2-4311.2 have been met.

Please complete the following by checking the appropriate line that applies and providing the requested information. ***PLEASE NOTE: The SCC number is NOT your federal ID number or business license number.***

A._____ Offeror/Bidder is a Virginia business entity organized and authorized to transact business in Virginia by the SCC and such vendor's Identification Number issued to it by the SCC is _____.

B._____ Offeror/Bidder is an out-of-state (foreign) business entity that is authorized to transact business in Virginia by the SCC and such vendor's Identification Number issued to it by the SCC is _____.

C._____ Offeror/Bidder does not have an Identification Number issued to it by the SCC and such vendor is not required to be authorized to transact business in Virginia by the SCC for the following reason(s):

Please attach additional sheets if you need to explain why such Offeror/Bidder is not required to be authorized to transact business in Virginia.

Legal Name of Company (as listed on W-9) _____

Legal Name of Offeror/Bidder _____

Date _____

Authorized Signature _____

Print or Type Name and Title _____

PLEASE RETURN THIS PAGE WITH BID SUBMISSION – *[REQUIRED]*

CERTIFICATION OF NO COLLUSION

The undersigned, acting on behalf of _____, does hereby certify in connection with the procurement and proposal to which this Certificate of No Collusion is attached that:

This bid is not the result of, or affected by, any act of collusion with another person engaged in the same line of business or commerce; nor is this bid the result of, or affected by, any act of fraud punishable under Article 1.1 of Chapter 12 of Title 18.1 of the Code of Virginia, 1950, as amended (18.2-498.1 et seq.).

Respectfully submitted this _____day of _____, 20____.

Complete if Bidder is an Entity:

WITNESS the following duly authorized signature and seal:

Name of Entity:_____
By:_____(SEAL)
Signature
Print Name:_____
Print Title:_____

STATE OF _____
COUNTY/CITY OF _____, to-wit:

The foregoing instrument was acknowledged before me this ___ day of _____ (month), _____(year) by _____(Print Name), _____(Print Title) on behalf of _____ (Name of Entity).

_____ [SEAL]
Notary Public

My commission expires:_____
Notary registration number: _____

Complete if Bidder is a Sole Proprietor:

Witness the following signature and seal:

_____(SEAL)
Signature
Print Name:_____

STATE OF _____
COUNTY/CITY OF _____, to-wit:

The foregoing instrument was acknowledged before me this ___ day of _____ (month), _____(year) by _____(Print Name), a sole proprietor.

_____ [SEAL]
Notary Public

My commission expires:_____
Notary registration number: _____

PLEASE RETURN THIS PAGE WITH BID SUBMISSION - *[REQUIRED]*

OFFEROR STATEMENT

The undersigned Bidder/Offeror (hereinafter "Bidder") hereby certifies that the Bidder has carefully examined all instructions, plans, conditions, specifications and other documents or items of this Invitation for Bid or Request for Proposals and hereby submits this bid/proposal pursuant to such instructions, plans, conditions, specifications and other documents or items. By submitting a bid/proposal, the Bidder covenants and agrees that he has satisfied himself, from his own investigation of conditions to be met, that he fully understands his obligation and that he will not make any claim for, or have right to cancellation or relief from the resulting contract because of any misunderstanding or lack of information; Certifies and warrants that the Bidder is properly licensed to provide the goods/services specified in the Request for Proposal and has the appropriate License or Certificate and classification(s) required to perform the work included in the scope of the proposal documents, prior to submitting the proposal, in accordance with Title 54.1, Chapter 11 of the Code of Virginia. If an Bidder shall fail to obtain the required license prior to submission of his proposal, he shall be deemed to be in violation of § 54.1-1115 of the Code of Virginia (1950), as amended, and his proposal will not be considered; Bidder further agrees that conditions herein have been carefully read and this proposal is submitted subject to all requirements stated herein. The undersigned hereby acknowledges and agrees, if this proposal is accepted, to furnish all services agreed upon in strict accordance with the contract.

Complete if Bidder is an Entity: WITNESS the following duly authorized signature and seal:

Name of Entity:_____
By:_____(SEAL)
Signature
Print Name:_____ Print Title:_____

STATE OF _____
COUNTY/CITY OF _____, to-wit:

The foregoing instrument was acknowledged before me this ___ day of _____ (month), _____(year) by _____(Print Name), _____(Print Title) on behalf of _____ (Name of Entity).

_____ [SEAL]
Notary Public

My commission expires:_____
Notary registration number: _____

Complete if Bidder is a Sole Proprietor: Witness the following signature and seal:

_____(SEAL)
Signature
Print Name:_____

STATE OF _____
COUNTY/CITY OF _____, to-wit:

The foregoing instrument was acknowledged before me this ___ day of _____ (month), _____(year) by _____(Print Name), a sole proprietor.

_____ [SEAL]
Notary Public

My commission expires:_____
Notary registration number: _____

PLEASE RETURN THIS PAGE WITH BID SUBMISSION - *[REQUIRED]*

Exhibit 8
GENERAL TERMS, CONDITIONS AND INSTRUCTIONS TO BIDDERS AND CONTRACTORS

These General Terms, Conditions and Instructions to Bidders and Contractor (hereinafter referred to as the "General Conditions") shall apply to all purchases and be incorporated into and be a part of each Solicitation (as defined below) and every Contract (as defined below) awarded by Fluvanna County, a political subdivision of the Commonwealth of Virginia (hereinafter referred to as the "County") unless otherwise specified by the County in writing. Bidders, Offerors and Contractors or their authorized representatives are expected to inform themselves fully as to these General Conditions before submitting Bids or Proposals to and/or entering into any Contract with the County: failure to do so will be at the Bidder's/Contractor's own risk and except as provided by law, relief cannot be secured on the plea of error.

Subject to all Federal, State and local laws, policies, resolutions, regulations, rules, limitations and legislation, including the County's Procurement Policies and Procedures, Bids or Proposals on all Solicitations issued by County will bind Bidders or Offerors, as applicable, and Contracts will bind Contractors, to all applicable terms, conditions, instructions, rules and requirements herein set forth unless otherwise SPECIFICALLY set forth by the County in writing in the Solicitation or Contract. All provisions of these General Conditions are material to any contract between the County and a Contractor.

INTRODUCTION

1. **VIRGINIA PUBLIC PROCUREMENT ACT AND ETHICS IN PUBLIC CONTRACTING:** The Virginia Public Procurement Act of Virginia Code §§ 2.2-4300 *et seq.* (hereinafter the "VPPA") is incorporated herein by reference. Nothing in these General Conditions is intended to conflict with the VPPA and in case of any conflict, the VPPA controls. Specifically, the provisions of Article 6 of the VPPA (Virginia Code §§ 2.2-4367 through 2.2-4377) relating to ethics in contracting, shall be applicable to all Solicitations and Contracts solicited or entered into by the County. By submitting their Bids or signing any Contract, all Bidders and Contractors certify that they have not violated any of the provisions of Article 6 of the VPPA, including, but not limited to, that their Bids are made without collusion or fraud and that they have not offered or received any kickbacks or inducements.

2. **DEFINITIONS:** The definitions of Virginia Code §§ 2.2-4301, 2.2-4302.1 and 2.2-4302.2 are specifically incorporated herein by reference and as used in these General Conditions, whether capitalized or not, any of such defined terms have the same meaning as such terms have under the VPPA: such defined terms include: "Affiliate", "Best Value", "Business", "Competitive Negotiation", "Competitive Sealed Bidding", "Construction", "Construction Management Contract", "Design-Build Contract", "Employment Services Organization", "Goods", "Informality", "Job Order Contracting", "Multiphase Professional Services Contract", "Nonprofessional Services", "Potential Bidder or Offeror", "Professional Services", "Public Body", "Public Contract", "Responsible Bidder or Offeror", "Responsive Bidder", "Reverse Auctioning" and "Services". Additionally, as used in these General Conditions, the following terms, whether capitalized or not, have the following meanings:

    a. Bid/Proposal: The offer of a Bidder or Offeror to provide specific Goods or Services at specified prices and/or other conditions specified in the Solicitation. The term "Bid" is used throughout these General Conditions and where appropriate includes the term "Proposal" or any modifications or amendments to any Bid or Proposal.

    b. Bidder/Offeror/Vendor: Any individual(s), company, firm, corporation, partnership or other organization bidding or offering on any Solicitation issued by the County and/or offering to enter

into Contracts with the County. The term "Bidder" is used throughout these General Conditions and where appropriate includes the term "Offeror" and/or "Vendor".

c. Contract: Any contract to which the County will be a party.

d. Contractor: Any individual(s), company, firm, corporation, partnership, or other organization to whom an award is made by the County or whom enters into any contract to which the County is a party.

e. County: The County of Fluvanna, a political subdivision of the Commonwealth of Virginia, including where applicable all agencies and departments of the County.

f. County Administrator: The Fluvanna County Administrator.

g. County Attorney: The Fluvanna County Attorney.

h. Purchasing Offeror: The County Administrator is the County's Purchasing Offeror and is responsible for the purchasing activity of Fluvanna County; and has signatory authority to bind the County to all contracts and purchases made lawfully under the Fluvanna County Small Purchasing Procedures. The Purchasing Agent has signatory authority to bind the County to all other contracts and purchases only after the contracts or purchases have been approved by a vote of the Fluvanna County Board of Supervisors.

i. General Terms, Conditions and Instructions to Bidders and Contractors (also referred to herein as the "General Conditions"): These General Terms, Conditions and Instructions to Bidders and Contractors shall be attached to and made a part of all Solicitations by the County and all Contracts to which the County is party.

j. His: Any references to "his" shall include his, her, their, or its as appropriate.

k. Invitation to Bid (also referred to herein as an "IFB"): A request which is made to prospective Bidders for their quotation on Goods or Services desired by the County. The issuance of an IFB will contain or incorporate by reference the General Conditions and the other specifications and contractual terms and conditions applicable to the procurement.

l. Purchasing Officer: The Purchasing Officer employed by the County and to whom Bidders/Contractors can submit questions relating to any Bid or Contract.

m. Request for Proposal (also referred to herein as a "RFP"): A request for an offer from prospective Offerors which shall indicate the general terms which are sought to be procured from Offerors. The RFP will specify the evaluation factors to be used and will contain or incorporate by reference the General Conditions and other applicable contractual terms and conditions, including any unique capabilities or qualifications that will be required of the Contractor.

n. Small Purchasing Procedures: The County's Small Purchasing Procedures, being Chapter 4 of the County's Procurement Policies and Procedures, a method of purchasing not requiring competitive sealed bids or competitive negotiation for single or term contracts for goods and services other than professional services if the aggregate or the sum of all phases is not expected to exceed $50,000; and also allowing for single or term contracts for professional services without requiring competitive negotiation, provided the aggregate or the sum of all phases is not expected to exceed $50,000.

o. Solicitation: The process of notifying prospective Bidders or Offerors that the County wishes to receive Bids or Proposals on a set of requirements to provide Goods or Services. "Solicitation" includes any notification of the County requirements may consist of public advertising (newspaper, County's website, or other electronic notification), the mailing of notices of Solicitation, any Invitation for Quotes ("IFQ"), Initiations to Bid ("IFB"), or Requests for Proposal ("RFP"), the public posting of notices, issuance of an Open Market Procurement ("OMP"), or telephone calls to prospective Bidders or Offerors.

p. State: The Commonwealth of Virginia.

3. AUTHORITY: The Purchasing Agent shall serve as the principal public purchasing official for the County, and shall be responsible for the procurement of goods, services, insurance and construction in accordance with the County's Procurement Policies and Procedures. The Purchasing Agent has responsibility and authority for negotiating, placing and when necessary modifying every Solicitation, Contract and purchase order issued by the County under the County's Small Purchasing Procedures. The Purchasing Agent has signatory authority to bind the County to all contracts and purchases made lawfully under the County's Small Purchasing Procedures. The Purchasing Agent has responsibility and authority for negotiating, placing and when necessary modifying every other Solicitation, Contract and purchase order issued by the County except that the Purchasing Agent has signatory authority to bind the County to all other contracts and purchases ONLY after the contracts or purchases have been adopted and approved by a vote of the Fluvanna County Board of Supervisors (the "Board").

Unless specifically delegated by the Board or the Purchasing Agent, and consistent with the limited authority granted thereto, no other County officer or employee is authorized to order supplies or Services, enter into purchase negotiations or Contracts, or in any way obligate the County for any indebtedness. Any purchase or contract made which is contrary to such authority shall be of no effect and void and the County shall not be bound thereby.

For convenience, the County's Purchasing Officer shall serve as an intermediary between the Purchasing Agent and the Bidder or Contractor and any Bidder or Contractor may direct communications regarding any purchase, Solicitation or Contract to the Purchasing Officer; however as stated *supra* only the Board or County's Purchasing Agent can bind the County and only upon the conditions stated *supra*.

CONDITIONS OF BIDDING

4. COMPETITION INTENDED: It is the County's intent to encourage and permit open and competitive bidding in all Solicitations. It shall be the Bidder's responsibility to advise the County in writing if any language, requirement, specification, etc., or any combination thereof, stifles competition or inadvertently restricts or limits the requirements stated in a Solicitation to a single source. The County must receive such notification not later than seven (7) business days prior to the deadline set for acceptance of the Bids. In submitting a Bid, the Bidder guarantees that he or she has not been a party with other Bidders to an agreement to bid a fixed or uniform price. Violation of this implied guarantee shall render the Bid of any Bidder involved void.

5. DISCRIMINATION PROHIBITED: Pursuant to Virginia Code § 2.2-4310, the County does not discriminate against Bidders, Offerors or Contractors because of race, religion, color, sex, national origin, age, disability, status as a service disabled veteran, or any other basis prohibited by state law relating to discrimination in employment. Whenever solicitations are made, the County shall include businesses selected from a list made available by the Department of Small Business and Supplier Diversity. Pursuant to Virginia Code § 2.2-4343.1, the County does not discriminate against "faith-based organizations",

being a religious organization that is or applies to be a contractor to provide goods or services for programs funded by the block grant provided pursuant to the Personal Responsibility and Work Reconciliation Act of 1996, P.L. 104-193.

6. **CLARIFICATION OF TERMS:** Pursuant to Virginia Code § 2.2-4316, if any Bidder has questions or comments about the specifications or other Solicitation documents, the prospective Bidder should contact the County no later than seven (7) business days prior to the date set for the opening of Bids or receipt of Proposals. Any revisions to the Solicitation will be made only by written addendum issued by the County. Notifications regarding specifications may not be considered if received in less than seven (7) business days of the date set for opening of Bids/receipt of Proposals.

7. **MANDATORY USE OF COUNTY FORM AND TERMS AND CONDITIONS:** Unless otherwise specified in the Solicitation, all Bids must be submitted on the forms provided by the County, including but not limited to, a Cover Sheet or Pricing Schedule, if applicable, properly signed in ink in the proper spaces and submitted in a sealed envelope or package. Unauthorized modification of or additions to any portion of the Solicitation may be cause for rejection of the Bid. However, the County reserves the right to decide, on a case by case basis, in its sole discretion, whether to reject any Bid or Proposal which has been modified. These General Conditions are mandatory provisions of all Solicitations and all Contracts of the County.

8. **LATE BIDS & MODIFICATION OF BIDS:** Any Bid or modification thereto received at the office designated in the Solicitation after the exact time specified for receipt of the Bid is considered a late Bid or modification thereof. The County is not responsible for delays in the delivery of the mail by the U.S. Postal Service, private carriers or the inter-office mail system. It is the sole responsibility of the Bidder to ensure their Bid reaches County by the designated date and hour. The following rules apply to all Bids submitted to the County:

    a. The official time used in the receipt of Bids/Proposals is that time on the automatic time stamp machine in the Finance Department;
    b. Late Bids or modifications thereof will be returned to the Bidder UNOPENED, if Solicitation number, due date and Bidder's return address is shown on the container;
    c. If a Bid is submitted on time, however a modification thereto is submitted after the due date and time, then the County in its sole discretion may choose to consider the original Bid except that the County may not consider such original Bid if the Bid is withdrawn by the Bidder pursuant to Section 9 below; and
    d. If an emergency or unanticipated event or closing interrupts or suspends the County's normal business operations so that Bids cannot be received by the exact time specified in the Solicitation, then the due date/time specified for receipt of Bids will be deemed to be extended to the same time of day specified in the Solicitation on the first work day on which normal County business operations resume.

9. **WITHDRAWAL OF BIDS:**

    a. Pursuant to Virginia Code § 2.2-4330, a Bidder for a public construction contract, other than a contract for construction or maintenance of public highways, may withdraw his Bid from consideration if the price bid was substantially lower than the other Bids due solely to a mistake in the Bid, provided the Bid was submitted in good faith, and the mistake was a clerical mistake as opposed to a judgment mistake, and was actually due to an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of a Bid, which unintentional arithmetic error or unintentional omission can be

clearly shown by objective evidence drawn from inspection of original work papers, documents and materials used in the preparation of the Bid sought to be withdrawn.

If a Bid contains both clerical and judgment mistakes, a Bidder may withdraw his Bid from consideration if the price bid would have been substantially lower than the other Bids due solely to the clerical mistake, that was an unintentional arithmetic error or an unintentional omission of a quantity of work, labor or material made directly in the compilation of a Bid that shall be clearly shown by objective evidence drawn from inspection of original work papers, documents and materials used in the preparation of the Bid sought to be withdrawn. The Bidder shall give notice in writing to the County of his or her claim of right to withdraw his or her Bid within two (2) business days after the conclusion of the Bid opening procedure and shall submit original work papers with such notice.

b. A Bidder for a Contract other than for public construction may request withdrawal of his or her Bid under the following circumstances:

    i. Bids may be withdrawn on written request from the Bidder received at the address shown in the Solicitation prior to the time of opening.
    ii. Requests for withdrawal of Bids after opening of such Bids but prior to award shall be transmitted to the County, in writing, accompanied by full documentation supporting the request. If the request is based on a claim of error, documentation must show the basis of the error. Such documentation may take the form of supplier quotations, Bidder work sheets, etc. If Bid bonds were tendered with the Bid, the County may exercise its right of collection.

c. No Bid may be withdrawn under this Section 9 when the result would be the awarding of the Contract on another Bid of the same Bidder or of another Bidder in which the ownership of the withdrawing Bidder is more than five percent (5%).

d. If a Bid is withdrawn under the authority of this Section 9 the lowest remaining Bid shall be deemed to be the low Bid.

e. No Bidder who, is permitted to withdraw a Bid shall, for compensation, supply any material or labor to or perform any subcontract or other work agreement for the person or firm to whom the Contract is awarded or otherwise benefit, directly or indirectly, from the performance of the project for which the withdrawn Bid was submitted.

f. The County shall notify the Bidder in writing within five (5) business days of its decision regarding the Bidder's request to withdraw its Bid. If the County denies the withdrawal of a Bid under the provisions of this Section 9, it shall State in such notice the reasons for its decision and award the Contract to such Bidder at the Bid price, provided such Bidder is a responsible and responsive Bidder. At the same time that the notice is provided, the County shall return all work papers and copies thereof that have been submitted by the Bidder.

g. Under these procedures, a mistake shall be proved only from the original work papers, documents and materials delivered as required herein. The work papers, documents and materials submitted by the bidder shall, at the bidder's request, be considered trade secrets or proprietary information subject to the conditions of subsection F of Virginia Code § 2.2-4342.

10. **ERRORS IN BIDS**: When an error is made in extending total prices, the unit Bid price will govern. Erasures in Bids must be initialed by the Bidder. Carelessness in quoting prices, or otherwise in preparation of the Bid, will not relieve the Bidder. Bidders/Offerors are cautioned to recheck their Bids for possible error. Errors discovered after public opening cannot be corrected and the Bidder will be required to perform if his or her Bid is accepted.

11. **IDENTIFICATION ON BID ENVELOPE:** All Bids, Proposals and requested copies thereof submitted to the County shall be in a separate envelope or package, sealed and identified with the following information clearly marked on the outside of the envelope or package:

    a. Addressed as indicated on page 1 of the solicitation;
    b. Solicitation number;
    c. Title;
    d. Bid due date and time;
    e. Bidder's name and complete mailing address (return address); and
    f. Pursuant to Virginia Code § 2.2-4311.2, the Bidder's identification number issued by the State Corporation Commission, or if the bidder is not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50 or as otherwise required by law shall include in its bids or proposal a statement describing why the bidder or offeror is not required to be so authorized.

    If a Bid is not addressed with the information as shown above, the Bidder takes the risk that the envelope may be inadvertently opened and the information compromised, which may cause the Bid to be disqualified. Bids may be hand delivered to the designated location in the County's offices. No other correspondence or other Proposals/Bids should be placed in the envelope. Any Bidder or Offeror that fails to provide the information required in (f) above shall not receive an award unless a waiver is specifically granted by the County Administrator.

12. **ACCEPTANCE OF BIDS:** Unless otherwise specified, all formal Bids or Proposals submitted shall be valid for a minimum period of one hundred twenty (120) calendar days following the date established for opening or receipt, respectively, unless extend by mutual agreement of the parties. At the end of the one hundred twenty (120) calendar days the Bid/Proposal may be withdrawn at the written request of the Bidder. Thereafter, unless and until the Proposal is withdrawn, it remains in effect until an award is made or the Solicitation is canceled by the County. The County may cancel any Solicitation at any time by notice of such cancelation to the Bidders.

13. **COMPLETENESS:** To be responsive, a Bid must include all information required by the Solicitation.

14. **CONDITIONAL BIDS:** Conditional Bids are subject to rejection in whole or in part.

15. **RESPONSE TO SOLICITATIONS**: In the event a Bidder cannot submit a Bid on a Solicitation, the Bidder is requested to return the Solicitation cover sheet with an explanation as to why the Bidder is unable to Bid on these requirements, or if there be no cover sheet for the Solicitation a letter to the County explaining the same.

16. **BIDDER INTERESTED IN MORE THAN ONE BID AND COLLUSION:** More than one bid from an individual, firm, partnership, corporation or association under the same or different name will be rejected. Reasonable grounds for believing that a bidder is interested in more than one bid for the work contemplated will cause rejection of all bids in which the bidder is interested. Any or all bids may be rejected if there is any reason for believing that collusion exists among the bidders. Participants in such collusion may not be considered in future bids for the same work. Each bidder, as a condition of submitting a bid, shall certify that he is not a party to any collusive action as herein defined. However, a party who has quoted prices on work, materials, or supplies to a Bidder is not thereby disqualified from quoting prices to other Bidders or firms submitting a Bid directly for the work, materials or supplies.

17. **BID OPENING:** Pursuant to Virginia Code § 2.2-4301, all Bids received in response to an IFB will be opened at the date, time and place specified, and announced publicly, and made available for inspection as provided in Section 21 of these General Conditions. Proposals received in response to an RFP will be made available for inspection as provided in Section 21 of these General Conditions.

18. **TAX EXEMPTION:** The County is exempt from the payment of any federal excise or any Virginia sales tax. The price bid must be net, exclusive of taxes. Tax exemption certificates will be furnished if requested by the Bidder.

19. **DEBARMENT STATUS:** By submitting their Bids, Bidders certify that they are not currently debarred from submitting Bids on Contracts by the County, nor are they an agent of any person or entity that is currently debarred from submitting Bids or Proposals on Contracts by the County or any agency, public entity/locality or authority of the State.

20. **NO CONTACT POLICY:** No Bidder shall initiate or otherwise have contact related to the Solicitation with any County representative or employee, other than the Purchasing Officer or Purchasing Agent, after the date and time established for receipt of Bids. Any contact initiated by a Bidder with any County representative, other than the Purchasing Officer or Purchasing Agent, concerning this Solicitation is prohibited and may cause the disqualification of the Bidder.

21. **VIRGINIA FREEDOM OF INFORMATION ACT**: As provided under Virginia Code § 2.2-4342, all proceedings, records, Contracts and other public records relating to procurement transactions shall be open to the inspection of any citizen, or any interested person, firm or corporation, in accordance with the Virginia Freedom of Information Act of Virginia Code §§ 2.2-3700 *et seq.*, except:

    a. Cost estimates relating to a proposed procurement transaction prepared by or for the County shall not be open to public inspection;
    b. Any competitive sealed bidding Bidder, upon request, shall be afforded the opportunity to inspect Bid records within a reasonable time after the opening of Bids but prior to award, except in the event that the County decides not to accept any of the Bids and to reopen the Contract. Otherwise, Bid records shall be open to public inspection only after award of the Contract;
    c. Any competitive negotiation Offeror, upon request, shall be afforded the opportunity to inspect Proposal records within a reasonable time after the evaluation and negotiations of Proposals are completed but prior to award except in the event that the County decides not to accept any of the Proposals and to reopen the Contract. Otherwise, Proposal records shall be open to the public inspection only after award of the Contract;
    d. Any inspection of procurement transaction records under this Section 21 shall be subject to reasonable restrictions to ensure the security and integrity of the records;

e. Trade secrets or proprietary information submitted by a Bidder, Offeror or Contractor in connection with a procurement transaction shall not be subject to public disclosure under the Virginia Freedom of Information Act; however, the Bidder, Offeror or Contractor must invoke the protections of this Section 21 prior to or upon submission of the data or other materials, and must identify the data or other materials to be protected and State the reasons why protection is necessary; and
f. Nothing contained in this Section 21 shall be construed to require the County, when procuring by "competitive negotiation" (RFP), to furnish a Statement of reasons why a particular Proposal was not deemed to be the most advantageous to the County.

22. CONFLICT OF INTEREST: Bidder/Contractor certifies by signing any Bid/Contract to/with the County that no conflict of interest exists between Bidder/Contractor and County that interferes with fair competition and no conflict of interest exists between Bidder/Contractor and any other person or organization that constitutes a conflict of interest with respect to the Bid/Contract with the County.

SPECIFICATIONS

23. OMISSIONS OR DISCREPANCIES: Any items or parts of any equipment listed in a Solicitation which are not fully described or are omitted from such specification, and which are clearly necessary for the completion of such equipment and its appurtenances, shall be considered a part of such equipment although not directly specified or called for in the specifications. Should a Bidder find a discrepancy or ambiguity in, or an omission from, the Solicitation, including the drawings and/or specifications, he or she shall so notify the County within twenty-four (24) hours of noting the discrepancy, ambiguity or omission and in any event no less than five (5) days prior to the date set for the opening of Bids. If necessary, the County will send a written addendum for clarification to all Bidders no later than three (3) days before the date set for opening of Bids. Any notification regarding specifications received less than five (5) days prior to the date set for the opening of Bids may or may not be considered by the County in its sole discretion. The Bidder shall abide by and comply with the true intent of the specifications and not take advantage of any unintentional error or omission, but shall fully complete every part as the true intent and meaning of the specifications and drawings. Whenever the mention is made of any articles, material or workmanship to be in accordance with laws, ordinances, building codes, underwriter's codes, A.S.T.M. regulations or similar expressions, the requirements of these laws, ordinances, etc., shall be construed as to the minimum requirements of these specifications.

24. BRAND NAME OR EQUAL ITEMS: Pursuant to Virginia Code § 2.2-4315, unless otherwise provided in the Solicitation, the name of a certain brand, make or manufacturer does not restrict Bidders to the specific brand, make or manufacturer named; it conveys the general style, type, character, and quality of the article desired, and any article which the County in its sole discretion determines to be the equal of that specified, considering quality, workmanship, economy of operation, and suitability for the purpose intended, shall be accepted. The Bidder is responsible to clearly and specifically indicate the product being offered and to provide sufficient descriptive literature, catalog cuts and technical detail to enable the County to determine if the product offered meets the requirements of the Solicitation. This is required even if offering the exact brand, make or manufacturer specified. Normally in competitive

sealed bidding, only the information furnished with the Bid will be considered in the evaluation. Failure to furnish adequate data for evaluation purposes may result in declaring a Bid non-responsive. Unless the Bidder clearly indicates in its Bid that the product offered is "equal" product, such Bid will be considered to offer the brand name product referenced in the Solicitation.

25. **FORMAL SPECIFICATIONS:** When a Solicitation contains a specification which states no substitutes, no deviation therefrom will be permitted and the Bidder will be required to furnish articles in conformity with that specification.

26. **CONDITION OF ITEMS:** Unless otherwise specified in the Solicitation, all items shall be new, in first class condition.

AWARD

27. **RESPONSIBLE BIDDERS:** In determining whether a Bidder is a responsible Bidder as defined herein, at minimum, the following criteria will be considered:

    a. The ability, capacity and skill of the Bidder to perform the Contract or provide the service required under the Solicitation;
    b. Whether the Bidder can perform the Contract or provide the service promptly, or within the time specified, without delay or interference;
    c. The character, integrity, reputation, judgment, experience and efficiency of the Bidder;
    d. The quality of performance of previous Contracts or Services;
    e. The previous and existing compliance by the Bidder with laws and ordinances relating to the Contract or Services;
    f. The sufficiency of the financial resources and ability of the Bidder to perform the Contract or provide the service;
    g. The quality, availability and adaptability of the Goods or Services to the particular use required;
    h. The ability of the Bidder to provide future maintenance and service for the use of the subject of the Contract;
    i. The number and scope of the conditions attached to the Bid;
    j. Whether the Bidder is in arrears to the County on debt or Contract or is a defaulter on surety to the County or whether the Bidder's County taxes or assessments are delinquent; and
    k. Such other information as may be secured by the County, the Purchasing Agent or the Purchasing Officer having a bearing on the decision to award the Contract. If an apparent low Bidder is not awarded a Contract for reasons of nonresponsibility, the County shall so notify that Bidder and shall have recorded the reasons in the Solicitation or Contract file.

28. **AWARD OR REJECTION OF BIDS; WAIVER OF INFORMALITIES:** The County shall award the Contract to the lowest responsive and responsible Bidder complying with all provisions of the IFB, provided the Bid price is reasonable and it is in the best interest of the County to accept it. Awards made in response to

a RFP will be made to the highest qualified Offeror whose Proposal is determined, in writing, to be the most advantageous to the County taking into consideration the evaluation factors set forth in the RFP. The County reserves the right to award a Contract by individual items, in the aggregate, or in combination thereof, or to reject any or all Bids and to waive any informality in Bids received whenever such rejection or waiver is in the best interest of the County. Award may be made to as many Bidders/Offerors as deemed necessary to fulfill the anticipated requirements of the County. The County also reserves the right to reject the Bid if a Bidder is deemed to be a non-responsible Bidder. Pursuant to Virginia Code § 2.2-4319, an IFB, a RFP, any other solicitation, or any and all bids or proposals, may be canceled or rejected by the County at any time. The reasons for cancellation or rejection shall be made part of the contract file. The County shall not cancel or reject an IFB, a RFP, any other solicitation, bid or proposal solely to avoid awarding a contract to a particular responsive and responsible bidder or offeror.

29. **EXCLUSION OF INSURANCE BIDS PROHIBITED:** Pursuant to Virginia Code § 2.2-4320, notwithstanding any other provision of law or these General Conditions, no insurer licensed to transact the business of insurance in the State or approved to issue surplus lines insurance in the State shall be excluded from presenting an insurance bid proposal to the County in response to a RFP or an IFB; excepting that the County may debar a prospective insurer pursuant to its Debarment Policy, see Chapter 2 of the County's Procurement Policies and Procedures.

30. **ANNOUNCEMENT OF AWARD:** Upon the award or announcement of the decision to award a Contract as a result of this Solicitation, the County will publicly post such notice on the County's bulletin board located at 72 Main Street, 2nd Floor, Palmyra, Virginia 22963. Award results may also be viewed on the County's website.

31. **QUALIFICATIONS OF BIDDERS OR OFFERORS:** The County may make such reasonable investigations as deemed proper and necessary to determine the ability of the Bidder to perform the work/furnish the item(s) and the Bidder shall furnish to the County all such information and data for this purpose as may be requested. The County reserves the right to inspect Bidder's physical facilities prior to award to satisfy questions regarding the Bidder's capabilities. The County further reserves the right to reject any Bid or Proposal if the evidence submitted by or investigations of, such Bidder fails to satisfy the County that such Bidder is properly qualified to carry out the obligations of the Contract and to complete the work/furnish the item(s) contemplated therein.

32. **TIE BIDS AND PREFERENCE FOR VIRGINIA PRODUCTS WITH RECYCLED CONTENT AND FOR VIRGINIA FIRMS**:

    a. Pursuant to Virginia Code § 2.2-4328, in the case of a tie bid on an IFB only, the County may give preference to Goods, Services and construction produced in Fluvanna County or provided by persons, firms or corporations having principal places of business in Fluvanna County. If such choice is not available, preference shall then be given to Goods produced in Virginia, or for goods, services or construction provided by Virginia persons, firms, corporations, pursuant Virginia Code § 2.2-4324. If no County or State choice is available, the tie shall be decided publicly by lot. The decision by the County to make award to one or more such Bidders shall be final.
    b. Whenever the lowest responsive and responsible bidder is a resident of any other state and such state under its laws allows a resident contractor of that state a percentage preference, a like preference shall be allowed to the lowest responsive and responsible bidder who is a resident of Virginia and is the next lowest bidder. If the lowest responsive and responsible bidder is a resident of any other state and such state under its laws allows a resident contractor of that

state a price-matching preference, a like preference shall be allowed to responsive and responsible bidders who are residents of Virginia. If the lowest bidder is a resident contractor of a state with an absolute preference, the bid shall not be considered. The Department of General Services shall post and maintain an updated list on its website of all states with an absolute preference for their resident contractors and those states that allow their resident contractors a percentage preference, including the respective percentage amounts. For purposes of compliance with this Section 32, the County may rely upon the accuracy of the information posted on this website.

c. Notwithstanding the provisions of subsections a and b, in the case of a tie bid in instances where goods are being offered, and existing price preferences have already been taken into account, preference shall be given to the bidder whose goods contain the greatest amount of recycled content.
d. For the purposes of this Section 32, a Virginia person, firm or corporation shall be deemed to be a resident of Virginia if such person, firm or corporation has been organized pursuant to Virginia law or maintains a principal place of business within Virginia.

33. NEGOTIATION WITH LOWEST RESPONSIBLE BIDDER: Pursuant to Virginia Code § 2.2-4318, unless cancelled or rejected, a responsive Bid from the lowest responsible Bidder shall be accepted as submitted, except that if the Bid from the lowest responsible Bidder exceeds available funds, the County may negotiate with the apparent low Bidder to obtain a Contract price within available funds. However, the negotiation may be undertaken only under conditions and procedures described in writing and approved by the County prior to issuance of the IFB and summarized therein.

CONTRACT PROVISIONS

34. APPLICABLE LAW AND COURTS: Any Bid or Contract resulting from a Solicitation and its terms, including, but not limited to, the parties' obligations under it, and the remedies available to each party for breach of it, shall be governed by, construed and interpreted in accordance with the laws of the Commonwealth of Virginia, and exclusive jurisdiction and venue of any dispute or matters involving litigation between the parties hereto shall be in the courts of Fluvanna County, Virginia. Any jurisdiction's choice of law, conflict of laws, rules, or provisions, including those of the Commonwealth of Virginia, that would cause the application of any laws other than those of the Commonwealth of Virginia, shall not apply. The Contractor shall comply with applicable federal, State and local laws, ordinances, rules and regulations in performance of the Contract.

35. PROVISION AND OWNERSHIP OF INFORMATION: The County shall make a good faith effort to identify and make available to the Contractor all non-confidential technical and administrative data in the County's possession which the County may lawfully release including, but not limited to Contract specifications, drawings, correspondence, and other information specified and required by the Contractor and relating to its work under any Contract. The County reserves its rights of ownership to all material given to the Contractor by the County and to all background information documents, and computer software and documentation developed by the Contractor in performing any Contract.

36. DOCUMENTS: All documents, including but not limited to data compilations, drawings, reports and other material, whether in hard copy or electronic format, prepared, developed or furnished by the Contractor pursuant to any Contract shall be the sole property of the County. At the direction of the County, the Contractor shall have the right to make copies of the documents produced available to other

parties. The County shall be entitled to delivery of possession of all documents, upon payment in accordance with the terms of any Contract for the service incurred to produce such documents.

37. CONFIDENTIALITY: Contractor shall not publish, copyright or otherwise disclose or permit to be disclosed or published, the results of any work performed pursuant to this contract, or any particulars thereof, including forms or other materials developed for the County in connection with the performance by Contractor of its services hereunder, without prior written approval of the County. Contractor, cognizant of the sensitive nature of much of the data supplied by the County, shall not disclose any information (other than information which is readily available from sources available to the general public) obtained by it in the course of providing services hereunder without the prior written approval of the County, unless disclosure of such information by it is required by law, rule or regulation or the valid order of a court or administrative agency.

38. INDEPENDENT CONTRACTOR: The Contractor and any agents, or employees of the Contractor, in the performance of any Contract shall act as an independent contractor and not as officers, employees or agents of the County.

39. INSURANCE: The Contractor agrees that, during the period of time it renders services to the County pursuant to any Contract, it shall carry (and provide the County with evidence of coverage) the following minimum amounts of insurance:

Automobile	$500,000	Liability Medical Payment Comprehensive Collision
Public Liability	$1,000,000	
Professional Liability	$1,000,000	
Excess Liability	$2,000,000	Aggregate Over Above Policy Limits (Excluding Professional Liability)
Worker's Compensation	Amount required by Virginia law	

The Contract may specifically require the Contractor to carry higher minimum amounts of insurance. In addition, the Contractor shall require, and shall include in every subcontract, that any subcontractor providing any goods or services related to such Contract obtain, and continue to maintain for the duration of the work, workers' compensation coverage in the amount required by Virginia law.

40. KEY PERSONNEL: For the duration of any Contract, the Contractor shall make no substitutions of key personnel unless the substitution is necessitated by illness, death, or termination of employment, or as expressly approved by the County. The Contractor shall notify the County within five (5) calendar days after the occurrence of any of these events and provide the information required by the paragraph below.

The Contractor shall provide a detailed explanation of the circumstances necessitating any proposed substitution, complete resumes for the proposed substitute, and any additional information requested by the County. The proposed substitute should have comparable qualifications to those of the person being replaced. The County will notify the Contractor within fifteen (15) calendar days after receipt of all required information of its approval or disapproval of the proposed substitution.

41. **SEVERABILITY:** If any term, covenant or provision of these General Conditions or any Contract shall be held to be invalid, illegal or unenforceable in any respect, these General Conditions and any Contract shall remain in effect and be construed without regard to such provision.

42. **TITLES:** The titles and section headings herein and in any Contract are inserted solely for convenience and are not to be construed as a limitation on the scope of the provisions to which they refer.

43. **ATTORNEYS' FEES:** In the event of a dispute between the County and Contractor under any Contract which cannot be amicably resolved, in addition to all other remedies, the party substantially prevailing in any litigation shall be entitled to recover its reasonable expenses, including, but not limited to, reasonable attorneys' fees.

44. **NO WAIVER:** Neither any payment for, nor acceptance of, the whole or any part of the services by the County, nor any extension of time, shall operate as a waiver of any provision of any Contract, nor of any power herein reserved to the County, or any right to damages herein provided, nor shall any waiver of any breach of any Contract be held to be a waiver of any other or subsequent breach. Failure of the County to require compliance with any term or condition of any Contract shall not be deemed a waiver of such term or condition or a waiver of the subsequent enforcement thereof.

45. **NO FINANCE CHARGES:** No finance charges shall be paid by the County.

46. **ANTITRUST**: By entering into a Contract, the Contractor conveys, sells, assigns, and transfers to the County all rights, title and interest in and to all causes of the action it may now have or hereafter acquire under the antitrust law of the United States or the State, relating to the particular Goods or Services purchased or acquired by the County under said Contract. Consistent and continued tie bidding could cause rejection of Bids by the County and/or investigation for antitrust violations.

47. **PAYMENT:** Pursuant to Virginia Code § 2.2-4352, unless more time is provided in the Solicitation or Contract, payment will be made forty-five (45) days after receipt by the County of a proper invoice, or forty-five (45) days after receipt of all Goods or acceptance of work, whichever is later. The County reserves the right to withhold any or all payments or portions thereof for Contractor's failure to perform in accordance with the provision of the Contract or any modifications thereto. Within twenty (20) days of receipt of proper invoice or of goods or services, the County shall notify the Contractor if any defect or impropriety that would prevent payment by the payment date. The following provisions apply to such payments:

    a. Invoices for items/Services ordered, delivered/performed and accepted shall be submitted by the Contractor in duplicate directly to the payment address shown on the purchase order, Solicitation or Contract, as applicable. All invoices shall show the Contract number, purchase order number, or Solicitation number, as applicable, and as required under Virginia Code § 2.2-4354, either the individual Contractor's social security number or the Contractor's federal employer identification number, whichever is applicable.

    b. Any payment terms requiring payment in less than forty-five (45) days will be regarded as requiring payment forty-five (45) days after receipt of proper invoice or receipt of all Goods or acceptance of work, whichever occurs later. Notwithstanding the foregoing, offers of discounts for payment in less than forty-five (45) days are valid and enforceable.

c. Pursuant to Virginia Code § 2.2-4353, the date any payment shall be deemed the date of postmark in all cases where payment is made by mail.

d. The County's fiscal year is July 1 to June 30. Contractors are advised to submit invoices, especially for Goods and/or Services provided in the month of June, for the entire month (i.e. June 1 - June 30), so that expenses are recognized in the appropriate fiscal year.

e. Any payment made by the Contractor to the County shall only be made in U.S. Dollars. If payment is received in foreign currency the County may, in its sole discretion, reject such payment and require immediate compensation in U.S. Dollars.

48. SUBCONTRACTORS: Pursuant to Virginia Code § 2.2-4354, in the event that any subcontractors are used by Contractor in connection with the work, Contractor shall:

a. Within seven (7) days after receipt of amounts paid to the Contractor for work performed by a subcontractor, either:
   i. Pay the subcontractor for the proportionate share of the total payment received attributable to the work performed by the subcontractor under any Contract; or
   ii. Notify the County and subcontractor, in writing, of his intention to withhold all or a part of the subcontractor's payment with the reason for nonpayment.

b. Contractor shall require each subcontractor to provide either (i) for an individual, their social security numbers, or (ii) for proprietorships, partnerships, and corporations to provide their federal employer identification numbers.

c. The Contractor shall pay interest to any subcontractor on all amounts owed by the Contractor that remain unpaid after seven days following receipt by the Contractor of payment from the County for work performed by the subcontractor under any Contract, except for amounts withheld as allowed in subdivision (a)(II) above. Unless otherwise provided under the terms of any Contract, interest shall accrue at the rate of one percent (1%) per month.

d. The Contractor shall include in each of its subcontracts under any Contract a provision requiring each subcontractor to include or otherwise be subject to the above payment and interest requirements (a), (b) and (c) with respect to each lower tier subcontractor.

e. The Contractor's obligation to pay an interest charge to a subcontractor pursuant to the payment clause in this Section 48 shall not be construed to be an obligation of the County. No Contract modification may be made for the purpose of providing reimbursement for such interest charge. No cost reimbursement claim may include any amount for reimbursement for such interest charge.

49. RETAINAGE ON CONSTRUCTION CONTRACTS: Pursuant to Virginia Code 2§ 2.2-4333, if a Contract for construction provides for progress payments in installments based upon an estimated percentage of completion, then the contractor shall be paid at least ninety-five percent (95%) of the earned sum when payment is due, with no more than five percent (5%) being retained to ensure faithful performance of the contract. All amounts withheld may be included in the final payment. Any subcontract related to work on a Contract that provides for similar progress payments shall be subject to the provisions above and the Contractor agrees to include such provisions in every subcontract.

50. SUCCESSORS AND ASSIGNS: The County and the Contractor bind themselves and their respective successors and assigns to any Contract. The foregoing notwithstanding, the Contractor shall not assign, sublet or transfer its interest in any Contract without the prior written consent of the County, which may be granted or withheld in the County's sole discretion. Nothing hereinafter mentioned shall be construed as creating any personal liability on the part of any officer, agent or employee of the County, nor shall it be construed as giving any benefits hereunder to anyone other than the County and the Contractor.

51. DEFAULT: Failure of a Contractor to deliver Goods or Services in accordance with Contract terms and conditions and/or within the time specified, or within reasonable time as interpreted by the County in its sole discretion, or failure to make replacements/corrections of rejected articles/services when so requested, immediately or as directed by the County, or failure of the Contractor to act in accordance with the Contract in any material respect, as reasonably determined by the County, shall constitute a "default" by the Contractor and shall further authority for the County to purchase in the open market articles/services of comparable grade/quality to replace the services, articles rejected, and/or not delivered. On all such purchases, the Contractor shall reimburse the County, within a reasonable time specified by the County, for any expense incurred in excess of Contract prices including, but not limited to, any purchase and administrative costs. Such purchases shall be deducted from the Contract quantities, if applicable. Should public necessity demand it, the County reserves the right to use or consume articles delivered or services performed which are substandard in quality, subject to an adjustment in price to be determined by the County. In case of any default, the County, after due oral or written notice if required in accordance with the Contract, may terminate the Contract at its option in its sole discretion effective immediately. These remedies shall be in addition to any other remedies which the County may have, including but not limited to, any remedies at law, under the Contract or in equity.

Notwithstanding the foregoing, the Contractor shall not be liable for damages for delay in shipment or failure to deliver when such delay or failure is the result of fire, flood, strike, act of God, act of Government, act of an alien enemy or by any other circumstances which, in the County's opinion, are beyond the control of the Contractor. Under such circumstances, however, the County may, at its sole discretion, terminate or cancel the Contract effective immediately.

52. NON-DISCRIMINATION ASSURANCES: The Contractor shall conform to the provisions of the Federal Civil Rights Act of 1964, as amended, as well as the Virginia Fair Employment Act of 1975, as amended, where applicable, and § 2.2-4311 of the Virginia Procurement Act:

a. During the performance of any Contract, the Contractor agrees as follows: the Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, national origin, age, disability, or other basis prohibited by state law relating to discrimination in employment, except where there is a bona fide occupational qualification reasonably necessary to the normal operation of the Contractor. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause. The Contractor, in all Solicitations or advertisements for employees placed by or on behalf of the Contractor, will state that such Contractor is an equal opportunity employer. Notices, advertisements and Solicitations placed in accordance with federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this Section 52.

b. The Contractor shall include the provisions of paragraph (a) above in every subcontract or purchase over $10,000.00 so that the provisions will be binding upon each subcontractor or Vendor.

53. MODIFICATION:

a. Pursuant to Virginia Code § 2.2-4309, these General Conditions and any Contract entered into by the County and any Contractor shall not be subject to change, modification, or discharge except by written instrument signed by the County and Contractor, but no fixed-price contract may be increased by more than twenty-five percent (25%) of the amount of the contract or $50,000, whichever is greater, without the advance written approval of the County's Board. In no event may the amount of any contract, without adequate consideration, be increased for any purpose, including, but not limited to, relief of an offeror from the consequences of an error in its bid or offer.

b. The County may, but is not obligated to, extend the term of an existing contract for services to allow completion of any work undertaken but not completed during the original term of the contract.

c. Nothing in this Section 53 shall prevent the County from placing greater restrictions on contract modifications.

54. INDEMNIFICATION: Contractor agrees to indemnify, keep and save harmless the County, its officers, agents, officials, employees and volunteers against any and all claims, claims of injuries, death, damage to property, patent claims, suits, liabilities, judgments, losses, costs and expenses, including but not limited to costs of investigation, all reasonable attorneys' fees (whether or not litigation results), and the cost of any appeal, occurring or arising in connection with the Contractor's, its agents', subcontractors', employees', or volunteers' negligence or wrongful acts or omissions in connection with its performance of any Contract. The Contractor shall, at his or her own expense, appear, defend and pay all charges of attorneys and all costs and other expenses arising therefrom or incurred in connection therewith; and if any judgment shall be rendered against the County in any such action, the Contractor shall, at his or her own expenses, satisfy and discharge the same. Contractor expressly understands and agrees that any performance bond or insurance protection required by any Contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the County as herein provided. Nothing contained in this Solicitation or the Contract shall be deemed to be a waiver of the County's sovereign immunity.

55. DRUG-FREE WORKPLACE: Pursuant to Virginia Code § 2.2-4312, in every Contract over $10,000.00 the following provisions apply: During the performance of any Contract, the Contractor agrees to (i) provide a drug-free workplace for the Contractor's employees; (ii) post in conspicuous places, available to employees and applicants for employment, a Statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the Contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition; (iii) state in all Solicitations or advertisements for employees placed by or on behalf of the Contractor that the Contractor maintains a drug-free workplace; and (iv) include the provisions of the foregoing clauses in every subcontract or purchase order of over $10,000, so that the provisions will be binding upon each subcontractor or vendor.

For the purposes of this Section, "*drug-free workplace"* means a site for the performance of work done in connection with a specific Contract awarded to a Contractor in accordance with this the VPPA and

the County's Procurement Procedures, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the Contract.

56. TERMINATION: Contracts will remain in force for full periods specified and/or until all articles ordered before date of termination shall have been satisfactorily delivered and accepted and thereafter until all requirements and conditions shall have been met, unless:

a. Terminated prior to expiration date by satisfactory deliveries of entire Contract requirements;

b. Terminated by the County upon thirty (30) days written notice to the Contractor at the County's convenience in the County's sole discretion ("termination for convenience"), unless a termination for convenience is specifically and expressly prohibited by the Contract. Any Contract cancellation notice shall not relieve the Contractor of the obligation to deliver and/or perform on all outstanding orders issued prior to the effective date of the termination;

c. Terminated by the County for cause, default or negligence on the part of the Contractor. However, pursuant to Section 51 of these General Conditions, the County may hold the Contractor responsible for any resulting additional purchase and administrative costs. There is no advance notice requirement in the event of Termination for Cause and termination is effective immediately upon notice to Contractor of the termination for cause;

d. Extended upon written authorization of County and accepted by Contractor, to permit ordering of unordered balances or additional quantities at Contract prices and in accordance with Contract terms.

57. APPROPRIATIONS: Notwithstanding any other provision of any Contract, the payment of the County's obligations under any Contract shall be subject to annual appropriations by the Board of Supervisors of the County in each fiscal year of monies sufficient to satisfy the same.

58. REFERENCES TO VIRGINIA LAW: Any reference in these General Conditions to the Code of Virginia or other relevant Federal, State or local law is incorporated in whole herein by reference as in effect at the time of the Solicitation or Contract as such statutory provisions may be amended or replaced by any statute dealing with the same or similar subject matter.

59. COOPERATIVE PROCUREMENT: Except as prohibited by the current Code of Virginia, all resultant Contracts will be extended to other Public Bodies of the Commonwealth of Virginia, to permit their ordering of Goods, supplies and/or Services at the prices and terms of the resulting Contract ("cooperative procurement"). By submitting any Bid or entering into any Contract with the County a Bidder/Contractor expressly authorizes cooperative procurement under Virginia Code § 2.2-4304 to the full extent permitted by law. If any other public body decides to use any Contract, the Contractor must deal directly with that public body concerning all matters relating thereto, including but not limited to, the placement or orders, issuance of the purchase order, contractual disputes, invoicing and payment. The County acts only as the "Contracting Agent" for these public bodies. Any resulting contract with other public bodies shall be governed by the laws of that specific entity. It is the Contractor's responsibility to notify the public bodies of the availability of the Contract. Fluvanna County shall not be held liable for any direct or indirect costs, damages or other claim of any kind incurred by another public body or any Contractor as a result of any cooperative procurement.

60. AUDIT: The Contractor hereby agrees to retain all books, records and other documents relative to any Contract for five (5) years after final payment, or until audited by the County, whichever is sooner. The County, its authorized agents, and/or County auditors shall have full access to and right to examine any of said materials during said period.

61. GUARANTIES AND WARRANTIES: All guarantees, representations and warranties required shall be furnished by the Contractor and shall be delivered to the Purchasing Agent before final payment on any Contract is made. In addition to any guarantees, representations and warranties required under the Contract, the Contractor agrees to:

a. Save the County, its agents and employees harmless from liability of any nature or kind for the use of any copyrighted or un-copyrighted composition; secret process, patented or unpatented; invention; article or appliance furnished or used in the performance of a Contract for which the Contractor is not the patentee, assignee, licensee or owner;

b. Protect the County against latent defective material or workmanship and to repair or replace any damages or marring occasioned in transit or delivery;

c. Furnish adequate protection against damage to all work and to repair damages of any kind to the building or equipment, to the Contractor's own work or to the work of other contractors, for which the Contractor's workers are responsible;

d. Pay for all permits, licenses and fees and give all notices and comply with all laws, ordinances, rules and regulations of the County; and

e. Protect the County from loss or damage to County owned property while it is in the custody of the Contractor;

f. At minimum supply all Goods or Services with the manufacturer's standard warranty, if applicable; and

g. For any Contract involving Services of any nature, the Contractor further agrees to:

i. Enter upon the performance of Services with all due diligence and dispatch, assiduously press to its complete performance, and exercise therein the highest degree of skill and competence;
ii. Allow Services to be inspected or reviewed by an employee of the County at any reasonable time and place selected by the County;
iii. Acknowledges that the County shall be under no obligation to compensate Contractor for any Services not rendered in strict conformity with the Contract; and
iv. Stipulates that the presence of a County Inspector shall not lessen the obligation of the Contractor for performance in accordance with the Contract requirements, or be deemed a defense on the part of the Contractor for infraction thereof. The Inspector is not authorized to revoke, alter, enlarge, relax, or release any of the requirements of any Contract Any omission or failure on the part of the Inspector to disapprove or reject any work or material shall not be construed to be an acceptance of any such defective work or material.

62. PRICE REDUCTIONS: If at any time after the date of the Bid/Contract the Contractor makes a general price reduction in the comparable price of any material covered by the Contract to customers generally, an equivalent price reduction based on similar quantities and/or considerations shall apply to any Contract for the duration of the Contract period (or until the price is further reduced). Such price reduction shall be effective at the same time and in the same manner as the reduction in the price to customers generally. For purpose of this provision, a "general price reduction" shall mean any horizontal reduction in the price of an article or service offered (1) to Contractor's customers generally, or (2) in the Contractor's price schedule for the class of customers, i.e., wholesalers, jobbers, retailers, etc., which was used as the basis for bidding on this Solicitation. An occasional sale at a lower price, or sale of distressed merchandise at a lower price, would not be considered a "general price reduction" under this provision. The Contractor shall submit his or her invoice at such reduced prices indicating on the invoice that the reduction is pursuant to the "Price Reduction" provision of the Contract documents. The Contractor in addition will within ten (10) days of any general price reduction notify the County of such reduction by letter. FAILURE TO DO SO IS A DEFAULT UNDER THE CONTRACT AND MAY RESULT IN TERMINATION OF THE CONTRACT IN THE COUNTY'S DISCRETION. The Contractor, if requested, shall furnish, within ten (10) days after the end of the Contract period, a statement certifying either (1) that no general price reduction, as defined above, was made after the date of the Bid or Contract, or (2) if any such general price reductions were made, that as provided above, they were reported to the County within ten (10) days and the County was billed at the reduced prices. Where one or more such general price reductions were made, the statement furnished by the Contractor shall include with respect to each price reduction (1) the date when notice of any such reduction was issued, (2) the effective date of the reduction, and (3) the date when the County was notified of any such reduction.

63. COMPLIANCE WITH IMMIGRATION LAW: Pursuant to Virginia Code § 2.2-4311.1, in every Contract the following provision applies: the Contractor does not, and shall not during the performance of the Contract, knowingly employ an unauthorized alien as defined in the federal Immigration Reform and Control Act of 1986.

64. VIRGINIA STATE CORPORATION COMMISSION: Pursuant to Virginia Code § 2.2-4311.2, Any Bidder or Contractor organized as a stock or non-stock corporation, limited liability company, business trust, or limited partnership or registered as a registered limited liability partnership shall be authorized to transact business in the Commonwealth as a domestic or foreign business entity if so required by Title 13.1 or Title 50 of the Code of Virginia, or as otherwise required by law, at the time of the Bid, Proposal or any response to Solicitation and during the term of the Contract and any Contract renewal. The Contractor shall not allow its existence to lapse or its certificate of authority or registration to transact business in the Commonwealth, if so required, to be revoked or cancelled at any time during the term or any renewal of the Contract. If the Contractor fails to remain in compliance with the provisions of this Section 64, the Contract may become void at the option of the County.

65. CLAIMS PROCEDURE:

a. The procedure for consideration by the County of contractual claims for any Contract shall be that set forth in Virginia Code § 15.2-1243, *et seq*.

b. In addition, pursuant to Virginia Code § 2.2-4364, contractual claims, whether for money or other relief, shall be submitted in writing to the County Administrator no later than sixty (60) days after final payment; however, written notice of the Contractor's intention to file such claim shall have been given at the time of the occurrence or beginning of the work upon which the claim is based. Nothing herein shall preclude a Contract from requiring submission of an invoice

for final payment within a certain time after completion and acceptance of the work or acceptance of the Goods. Pendency of claims shall not delay payment of amount agreed due in the final payment.

c. No written decision denying a claim or addressing issues related to the claim shall be considered a denial of the claim unless the written decision is signed by the Board or the County Administrator. The contractor may not institute legal action prior to receipt of the final written decision on the claim unless the County fails to render a decision within ninety (90) days of submission of the claim. Failure of the County to render a decision within ninety (90) days shall not result in the contractor being awarded the relief claimed or in any other relief or penalty. The sole remedy for the County's failure to render a decision within 90 days shall be the contractor's right to institute immediate legal action.

d. A Contractor may not institute legal action, prior to receipt of the County's decision on the claim, unless the County fails to render such decision within the time specified by law. A failure by the County to render a decision within the time provided by law shall be deemed a final decision denying the claim by the County.

e. The decision of the Board or the County Administrator shall be final and conclusive unless the Contractor appeals within six (6) months of the date of the final written decision by instituting legal action as provided in Virginia Code § 2.2-4364.

f. No administrative appeals procedure pursuant to Virginia Code § 2.2-4365 has been adopted for contractual claims by the County.

g. Nothing herein shall be construed to prevent the County from instituting legal action against any Contractor or Bidder.

66. NOTICES: All written notices required or permitted under any Solicitation, Bid or Contract shall be deemed sufficient if delivered in person to the County Purchasing Agent or Bidder/Contractor, as applicable, or sent by first class mail to the County or Bidder/Contractor at the addresses set forth in the Solicitation, Bid or Contract or at such other address as a party may designate from time to time by notice given in accordance with the terms of this Section 66; except that where a Solicitation, Bid or Contract expressly requires notice to a specific individual or at a specific location, such shall control. Such notices are deemed received when actually delivered to the party or its representative or agent if hand delivered, or one (1) business day after deposited into the United States mail, if mailed.

DELIVERY

67. SHIPPING INSTRUCTIONS-CONSIGNMENT: Unless otherwise specified in the Solicitation or Contract, as applicable, each case, crate, barrel, package, etc., delivered under the Contract must be plainly stenciled or securely tagged, stating the Contractor's name, purchase order number, and delivery address as indicated in the order. Where shipping containers are to be used, each container must be marked with the purchase order number, name of the Contractor, the name of the item, the item number, and the quantity contained therein. Deliveries must be made within the hours of 8:00 a.m. – 3:00 p.m. Deliveries at any other time will not be accepted unless specific arrangements have been previously made with the designated individual at the delivery point. No deliveries will be accepted on Saturdays, Sundays and holidays unless previous arrangements have been made. It shall be the responsibility of the Contractor to ensure compliance with these instructions for items that are drop-shipped.

68. **RESPONSIBILITY FOR SUPPLIES TENDERED:** The Contractor shall be responsible for the materials or supplies covered by the Contract until they are delivered at the designated point. The Contractor shall additionally bear all risk on rejected materials or supplies after notice of rejection is tendered by the County. Rejected materials or supplies must be removed by and at the expense of the Contractor promptly after notification of rejection, unless public health and safety require immediate destruction or other disposal of rejected delivery. If rejected materials are not removed by the Contractor within ten (10) days after date of notification, the County may return the rejected materials or supplies to the Contractor at the Contractor's risk and expense or dispose of them as abandoned property.

69. **INSPECTIONS:** The County reserves the right to conduct any test/inspection it may deem advisable to assure supplies and Services conform to the specification in the Solicitation, Bid or Contract, as applicable. Inspection and acceptance of materials or supplies will be made after delivery at destinations herein specified unless otherwise stated. Unless otherwise specified in the Contract, if inspection is made after delivery at the destination specified, the County will bear the expense of inspection except for the value of samples used in case of rejection. Final inspection shall be conclusive except in regard to latent defects, fraud or such gross mistakes as to amount to fraud. Final inspection and acceptance or rejection of the materials or supplies will be made as promptly as practicable, but failure to inspect and accept or reject materials or supplies shall not impose liability on the County for such materials or supplies as are not in accordance with the specifications.

70. **COMPLIANCE:** Delivery must be made as ordered and in accordance with the Solicitation, Bid or Contract, as applicable, or as directed by the County when not in conflict with the Bid/Contract. The decision as to reasonable compliance with delivery terms shall be final. Burden of proof of delay in receipt of Goods by the purchaser shall rest with the Contractor. Any request for extension of time of delivery from that specified must be approved by the County, such extension applying only to the particular item or shipment affected. Unless otherwise specified in the Contract, should the Contractor be unreasonably delayed by the County, there shall be added to the time of completion a time equal to the period of such delay caused by the County. However, the Contractor shall not be entitled to claim damages or extra compensation for such delay or suspension. These conditions may vary for construction Contracts.

71. **POINT OF DESTINATION:** All materials shipped to the County must be shipped F.O.B. DESTINATION unless otherwise stated specifically in the Solicitation, Bid or Contract, as applicable. The materials must be delivered to the "Ship To" address indicated on the purchase order or Solicitation, as applicable.

72. **REPLACEMENT:** Materials or components that have been rejected by the County, in accordance with the terms of the Contract, shall be replaced by the Contractor at no cost to the County.

73. **DAMAGES:** Any and all damages to property of the "County" that is the direct result of the Contractor, the employees of the Contractor and/or its subcontractors, agents, licensees, successors, or assigns, shall be the sole responsibility of the Contractor. The property shall be repaired to its last known condition prior to the damages and/or replaced at no cost to the County. The County shall approve any and all repairs/replacements prior to acceptance of the repairs/replacement.

74. **PACKING SLIPS OR DELIVERY TICKETS:** All shipments shall be accompanied by Packing Slips or Delivery Tickets and shall contain the following information for each item delivered:

    a. Purchase Order Number;

b. Name of Article and Stock Number;

c. Quantity Ordered;

d. Quantity Shipped;

e. Quantity Back Ordered; and

f. The Name of the Contractor.

Contractors are cautioned that failure to comply with these conditions shall be considered sufficient reason for refusal to accept the Goods.

75. ADDITIONAL CHARGES: No delivery charges of any kind shall be added to any invoice; except that (i) if Goods are expressly bought F.O.B. "shipping point" under the Contract and the Contractor prepays transportation, then delivery charges shall be added to invoices; and (ii) if express delivery is authorized and substituted by the County on orders for the method specified in the Contract, then the difference between freight or mail and express charges may be added to invoice.

76. METHOD AND CONTAINERS: Unless otherwise specified, Goods shall be delivered in commercial packages in standard commercial containers, so constructed as to ensure acceptance by common or other carrier for safe transportation to the point of delivery. Containers become the property of the County unless otherwise specified by bidder.

FLUVANNA COUNTY BOARD OF SUPERVISORS
AGENDA ITEM STAFF REPORT

TAB E

MEETING DATE:	May 6, 2020					
AGENDA TITLE:	FY21 FCPS State Revenue Supplemental Appropriation					
MOTION(s):	**I move the Board of Supervisors approve a supplemental appropriation of $284,111 to the Fluvanna County Public Schools FY21 budget for revised State revenue.**					
STRATEGIC INITIATIVE?	Yes	No	**If yes, list initiative(s):**			
		X				
AGENDA CATEGORY:	Public Hearing	Action Matter	Presentation	Consent Agenda	Other	
		X				
STAFF CONTACT(S):	Mary Anna Twisdale, Director of Finance Brenda Gilliam, Executive Director for Instruction and Finance, FCPS					
PRESENTER(S):	Mary Anna Twisdale, Director Finance					
RECOMMENDATION:	I recommend approval of the motion as stated above.					
TIMING:	July 1, 2020					
DISCUSSION:	Fluvanna County Public Schools will receive additional State revenue in the amount of $284,111 for the FY21 budget. After the General Assembly met in the reconvened session in April, the state revised the state appropriation for K-12 schools. Based on the funding template that was released by the Virginia Department of Education on April 29, 2020, Fluvanna has received additional funding that was approved by the Board of Supervisors. We are requesting a supplemental appropriation as listed below. State Funding- General Assembly Reconvene $22,925,368 Board of Supervisors Approved State Revenue $22,641,257 **Supplemental Appropriation Request** **$284,111**					
FISCAL IMPACT:	Approval of this supplemental appropriation will authorize staff to increase the FCPS Revenue and Expenditures by $284,111. This request is not for County Local funding.					
POLICY IMPACT:	N/A					
LEGISLATIVE HISTORY:	N/A					
ENCLOSURES:	FCPS Supplemental Appropriation Request					
REVIEWS COMPLETED:	Legal	Finance	Purchasing	HR	Other	
		X				

FLUVANNA COUNTY PUBLIC SCHOOLS

14455 JAMES MADISON HIGHWAY
PALMYRA, VIRGINIA 22963

Phone: (434) 589-8208 Fax: (434) 589-2248

TO: Mary Anna Twisdale, Fluvanna County Finance Director

Cc: Eric Dahl, Fluvanna County Administrator
Chuck Winkler, Superintendent
Don Stribling, Executive Director for Human Resources, Operations, and Student Services
Liz McIver, Fluvanna County Management Analyst

FROM: Brenda Gilliam, Executive Director for Instruction and Finance

DATE: April 30, 2020

RE: Supplemental Appropriation Revised State Revenue FY2021

After the General Assembly met in the reconvened session in April, the state revised the state appropriation for K-12 schools. Based on the funding template that was released by the Virginia Department of Education on April 29, 2020, Fluvanna has received additional funding that was approved by the Board of Supervisors. We are requesting a supplemental appropriation as listed below.

Please let me know if you have further questions.

State Funding- General Assembly Reconvene	$22,925,368
Board of Supervisors Approved State Revenue	$22,641,257
Supplemental Appropriation Request	**$284,111**

The Fluvanna County School Board is committed to nondiscrimination with regard to sex, gender, race, color, national origin, disability, religion, ancestry, age, marital status, genetic information, or any other characteristic protected by law. This commitment will prevail in all of its policies and practices concerning staff, students, educational programs and services, and individuals and entities with whom the Board does business. Mr. Don Stribling, Executive Director, is designated as the responsible person (Compliance Officer) regarding assurances of nondiscrimination. Any complaint alleging discrimination based on a disability shall be directed to Ms. Jennifer Valentine, Director of Special Education (the Section 504 Coordinator). Both may be reached at the following address: 14455 James Madison Highway, Palmyra, VA 22963; telephone (434) 589-8208. The Fluvanna County School Board is an Equal Opportunity Employer.

FLUVANNA COUNTY BOARD OF SUPERVISORS
AGENDA ITEM STAFF REPORT

TAB F

MEETING DATE:	May 6, 2020				
AGENDA TITLE:	Authorization to Advertise a Public Hearing for the Continuity of Operations Emergency Ordinance				
MOTION(s):	**I move the Board of Supervisors ratify the advertisement to hold a Public Hearing to be held on May 20, 2020 for the Emergency Ordinance entitled "Emergency Ordinance to Effectuate Temporary Changes in Certain Deadlines and to Modify Public Meeting and Public Hearing Practices and Procedures to Address Continuity of Operations Associated with Pandemic Disaster."**				
STRATEGIC INITIATIVE?	Yes	No	**If yes, list initiative(s):**		
		X			
AGENDA CATEGORY:	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
		X			
STAFF CONTACT(S):	Eric Dahl, County Administrator				
PRESENTER(S):	Eric Dahl, County Administrator				
RECOMMENDATION:	Approve				
TIMING:	Immediate				
DISCUSSION:	On April 1, 2020, the BOS approved the Emergency Ordinance entitled "Emergency Ordinance to Effectuate Temporary Changes in Certain Deadlines and to Modify Public Meeting and Public Hearing Practices and Procedures to Address Continuity of Operations Associated with Pandemic Disaster." The approval of this Emergency Ordinance allowed for the Board of Supervisors to meet during the COVID-19 emergency and in the event there is not a physical quorum, under Virginia Code §15.2-1413, which makes virtual/telephone meetings during a disaster allowed for the "continuity of government" and also matters directly related to the emergency. There are certain functions of government that must still proceed and this will allow for continuity of government. This does not allow for all normal business matters of the County to be handled, but for matters that are necessary for continuity of government functions and related to the emergency. In counties, emergency ordinances may be adopted without prior notice (as was done on April 1, 2020); however, no such ordinance shall be enforced for more than sixty days unless readopted in conformity with the provisions of Virginia Code §15.2-1427. To continue with this Emergency Ordinance for another 60-day period, and considering Governor Northam's Stay-At-Home Order is in effect until June 10, 2020, the County must advertise for a Public Hearing to readopt the Emergency Ordinance.				

	Readopting this Emergency Ordinance shall remain in full force and effect for a period of another 60 days, unless amended, rescinded or readopted by the Board in conformity with the notice provisions set forth in Virginia Code §15.2-1427 and 15.2-1413, but in no event shall such ordinance be effective for more than 6 months.				
FISCAL IMPACT:	N/A				
POLICY IMPACT:	N/A				
LEGISLATIVE HISTORY:	The BOS originally adopted this Emergency Ordinance under the provisions of Virginia Code §15.2-1427 and 15.2-1413 on April 1, 2020.				
ENCLOSURES:	Draft Advertisement				
REVIEWS COMPLETED:	Legal	Finance	Purchasing	HR	Other
	X				

FLUVANNA COUNTY NOTICE OF PUBLIC HEARING

BY ORDER OF THE FLUVANNA COUNTY BOARD OF SUPERVISORS

Pursuant to Virginia Code Sec. 15.2-1427, the Board of Supervisors of Fluvanna County, Virginia (the "County") will hold a public hearing at 7:00 p.m. on Wednesday, May 20, 2020, in the Morris Room of the Fluvanna County Administration Building in Palmyra, Virginia, located at 132 Main Street, Palmyra, Virginia, 22963 for citizens of the County to have the opportunity to be heard by the Board of Supervisors for the following items:

TO READOPT AN EMERGENCY ORDINANCE TO EFFECTUATE TEMPORARY CHANGES IN CERTAIN DEADLINES AND TO MODIFY PUBLIC MEETING AND PUBLIC HEARING PRACTICES AND PROCEDURES TO ADDRESS CONTINUITY OF OPERATIONS ASSOCIATED WITH PANDEMIC DISASTER

Complete information concerning this temporary ordinance is available in the County Administration Office, located at 132 Main Street, Palmyra, Virginia 22963, between 8:00 a.m. and 4:30 p.m., Monday through Friday. Persons requiring accommodation to facilitate participation are encouraged to contact the Office of the County Administrator at 132 Main Street, Palmyra, Virginia 22963 or at (434) 591-1910, at least five days prior to the meeting.

TO: Fluvanna Review THRU: County Administration

Advertise on the following date(s): Thursday, May 7, 2020 and May 14, 2020

Authorized by: Fluvanna County Administrator
Bill to: Fluvanna County Board of Supervisors

TO BE PUBLISHED IN THE FLUVANNA REVIEW NO LATER THAN MAY 7, 2020

BOARD OF SUPERVISORS
County of Fluvanna
Palmyra, Virginia

EMERGENCY ORDINANCE TO EFFECTUATE TEMPORARY CHANGES IN CERTAIN DEADLINES AND TO MODIFY PUBLIC MEETING AND PUBLIC HEARING PRACTICES AND PROCEDURES TO ADDRESS CONTINUITY OF OPERATIONS ASSOCIATED WITH PANDEMIC DISASTER.

WHEREAS, on March 11, 2020, the World Health Organization declared the COVID-19 outbreak a pandemic;

WHEREAS, on March 12, 2020, Governor Ralph S. Northam issued Executive Order Fifty-One declaring a state of emergency for the Commonwealth of Virginia arising from the novel Coronavirus (COVID-19) pandemic;

WHEREAS, Executive Order Fifty-One acknowledged the existence of a public health emergency which constitutes a disaster as defined by Virginia Code § 44-146.16 arising from the public health threat presented by a communicable disease anticipated to spread;

WHEREAS, Executive Order Fifty-One ordered implementation of the Commonwealth of Virginia Emergency Operations Plan, activation of the Virginia Emergency Operations Center to provide assistance to local governments, and authorization for executive branch agencies to waive "any state requirement or regulation" as appropriate;

WHEREAS, on March 13, 2020, the President of the United States declared a national emergency, beginning March 1, 2020, in response to the spread of COVID-19;

WHEREAS, on March 18, 2020, the Board of Supervisors of Fluvanna County (the "Board") found that COVID-19 constitutes a "public health Emergency";

WHEREAS, the Board confirmed the declaration of local emergency made by the local director of emergency management on March 18, 2020;

WHEREAS, the Board finds that COVID-19 constitutes a real and substantial threat to public health and safety and constitutes a "disaster" as defined by Virginia Code §44-146.16 being a "communicable disease of public health threat;"

WHEREAS, Virginia Code § 15.2-1413 provides that, notwithstanding any contrary provision of law, a locality may, by ordinance, provide a method to assure continuity of government in the event of a disaster for a period not to exceed six months;

WHEREAS, Virginia Code § 44-146.21(C) further provides that a local director of emergency management or any member of a governing body in his absence may upon the declaration of a local emergency "proceed without regard to time-consuming procedures and formalities prescribed by law (except mandatory constitutional requirements) pertaining to performance of public work";

WHEREAS, Virginia Code § 2.2-3708.2(A)(3) allows, under certain procedural requirements including public notice and access, that members of Board may convene solely by electronic means "to

address the emergency" and the Board's Bylaws and Rules of Practices and Procedures specifically incorporate such provisions;

WHEREAS, the open public meeting requirements of the Virginia Freedom of Information Act ("FOIA") are limited only by a properly claimed exemption provided under that Act or "any other statute;" and

WHEREAS, the Governor and Health Commissioner of the Commonwealth of Virginia and the President of the United States have recommended suspension of public gatherings of more than ten attendees; and

WHEREAS, The Attorney General of Virginia issued an opinion dated March 20, 2020 stating that localities have the authority during disasters to adopt ordinances to ensure the continuity of government; and

WHEREAS, this emergency ordinance in response to the disaster caused by the COVID-19 pandemic promotes public health, safety and welfare and is consistent with the law of the Commonwealth of Virginia, the Constitution of Virginia and the Constitution of the United States of America.

NOW, THEREFORE, BE IT ORDAINED by the Board of Fluvanna County, Virginia:

1. That the COVID-19 pandemic is a disaster that may make it unsafe or impossible to assemble in one location a quorum for public bodies including the Board, the School Board, the Planning Commission, Board of Zoning Appeals, Board of Equalization and all local and regional boards, commissions, committees and authorities created by the Board or to which the Board appoints all or a portion of its members (collectively "Public Entities" and individually "Public Entity"), or for such Public Entities to conduct meetings in accordance with normal practices and procedures.
2. That in accordance with Virginia Code § 15.2-1413, and notwithstanding any contrary provision of law, general or special, the following emergency procedures are adopted to ensure the continuity of government during this emergency and disaster:
    a. Any meeting or activities which require the physical presence of members of the Public Entities may be held through real time electronic means (including audio, telephonic, video or other practical electronic medium) without a quorum physically present in one location; and
    b. Prior to holding any such electronic meeting, the Public Entity shall provide public notice of at least 3 days in advance of the electronic meeting identifying how the public may participate or otherwise offer comment; and
    c. Any such electronic meeting of Public Entities shall state on its agenda and at the beginning of such meeting that it is being held pursuant to and in compliance with this Ordinance; identify Public Entity members physically and/or electronically present; identify the persons responsible for receiving public comment; and identify notice of the opportunities for the public to access and participate in such electronic meeting; and
    d. Any such electronic meeting of the Public Entities shall be open to electronic participation by the public and closed to in-person participation by the public; and
    e. For any matters requiring a public hearing, public comment may be solicited by electronic means in advance and shall also be solicited through telephonic or other electronic means during the course of the electronic meeting. All such public comments will be provided to members of the Public Entity at or before the electronic meeting and made part of the record for such meeting; and
    f. The minutes of all electronic meeting shall conform to the requirements of law, identify how the meeting was conducted, members participating, and specify what actions were taken at the meeting. The Public Entities may approve minutes of an electronic meeting at a subsequent electronic meeting and shall later approve all such minutes at a regular or special meeting after the emergency and disaster has ended.

IT IS FURTHER ORDAINED that notwithstanding any provision of law, regulation or policy to the contrary, any deadlines requiring action by a Public Entity, its officers (including Constitutional Officers) and employees of its organization shall be suspended during this emergency and disaster, however, the Public Entities, officers and employees thereof are encouraged to take such action as is practical and appropriate to meet those deadlines. Failure to meet any such deadlines shall not constitute a default, violation, approval, recommendation or otherwise.

IT IS FURTHER ORDAINED, that non-emergency public hearings and action items of Public Entities may be postponed to a date certain provided that public notice is given so that the public are aware of how and when to present their views.

IT IS FURTHER ORDAINED, that the provisions of this Emergency Ordinance shall remain in full force and effect for a period of 60 days, unless amended, rescinded or readopted by the Board in conformity with the notice provisions set forth in Virginia Code §15.2-1427 and 15.2-1413, but in no event shall such ordinance be effective for more than 6 months. Upon rescission by the Board or automatic expiration as described herein, this emergency ordinance shall terminate and normal practices and procedures of government shall resume.

Nothing in this Emergency Ordinance shall prohibit Public Entities from holding in-person public meetings provided that public health and safety measures as well as social distancing are taken into consideration to the extent possible.

An emergency is deemed to exist, and this ordinance shall be effective upon its adoption.

THE FOREGOING WAS ADOPTED by the Fluvanna County Board of Supervisors at a regular meeting of the Board held on the 1st day of April 2020, in accordance with Virginia Code 15.2-1413.

THE FOREGOING WAS READOPTED by the Fluvanna County Board of Supervisors at a regular meeting of the Board held on the 20th day of May 2020, in accordance with Virginia Code 15.2-1413, by the following vote:

	AYE	NAY	ABSTAIN	ABSENT	MOTION	SECOND
Mozell H. Booker, Fork Union District						
Patricia B. Eager, Palmyra District						
Anthony P. O'Brien, Rivanna District						
John M. Sheridan, Columbia District						
Donald W. Weaver, Cunningham District						

Attest: _____
John M. Sheridan, Chair Board of Supervisors

APPROVED AS TO FORM:

_____

FLUVANNA COUNTY BOARD OF SUPERVISORS
AGENDA ITEM STAFF REPORT

TAB G

	May 6, 2020				
AGENDA TITLE:	Tax Bill Penalty and Interest Presentation				
MOTION(s):	**N/A**				
STRATEGIC INITIATIVE?	Yes	No	**If yes, list initiative(s):**		
		X			
AGENDA CATEGORY:	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
			XX		
STAFF CONTACT(S):	Eric Dahl, County Administrator				
PRESENTER(S):	Eric Dahl, County Administrator				
RECOMMENDATION:	N/A				
TIMING:	Routine				
DISCUSSION:	Per Board directives, staff has reviewed Fluvanna County Code on penalty and interest charges and comparisons to our neighboring localities.				
FISCAL IMPACT:					
POLICY IMPACT:					
LEGISLATIVE HISTORY:					
ENCLOSURES:	None.				
REVIEWS COMPLETED:	Legal	Finance	Purchasing	HR	Other

FLUVANNA COUNTY BOARD OF SUPERVISORS
AGENDA ITEM STAFF REPORT

TAB H

MEETING DATE:	May 6, 2020				
AGENDA TITLE:	Adoption of the Fluvanna County Board of Supervisors April 8, 2020 Meeting Minutes.				
MOTION(s):	**I move the meeting minutes of the Fluvanna County Board of Supervisors Regular Meeting on Wednesday, April 8, 2020, be adopted.**				
STRATEGIC INITIATIVE?	Yes	No	**If yes, list initiative(s):**		
		X			
AGENDA CATEGORY:	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
				XX	
STAFF CONTACT(S):	Caitlin Solis, Clerk to the Board				
PRESENTER(S):	Eric Dahl, County Administrator				
RECOMMENDATION:	Approve				
TIMING:	Routine				
DISCUSSION:	None.				
FISCAL IMPACT:	N/A				
POLICY IMPACT:	N/A				
LEGISLATIVE HISTORY:	None				
ENCLOSURES:	Draft Minutes for April 8, 2020.				
REVIEWS COMPLETED:	Legal	Finance	Purchasing	HR	Other

FLUVANNA COUNTY BOARD OF SUPERVISORS
REGULAR MEETING MINUTES
Morris Room
April 8, 2020
Special Meeting 7:00pm

MEMBERS PRESENT: John M. (Mike) Sheridan, Columbia District, Chair *
Tony O'Brien, Rivanna District, Vice Chair
Mozell Booker, Fork Union District *
Patricia Eager, Palmyra District *
Donald W. Weaver, Cunningham District

ABSENT: None.

ALSO PRESENT: Eric M. Dahl, County Administrator
Fred Payne, County Attorney
Caitlin Solis, Clerk for the Board of Supervisors

**Due to health concerns, Mr. Sheridan, Mrs. Booker and Mrs. Eager are attending the meeting via phone conference call.*

- *John M. Sheridan, (Calling from 445 Covered Bridge Road)*
- *Mozell Booker, (Calling from 258 Bass Lane)*
- *Patricia Eager, (Calling from 1107 Mechunk Creek Drive)*

1 - CALL TO ORDER, PLEDGE OF ALLEGIANCE, & MOMENT OF SILENCE

At 7:17pm, Chair Sheridan called to order the Regular Meeting of April 8, 2020.
After the recitation of the Pledge of Allegiance, a moment of silence was observed.

3 - ADOPTION OF AGENDA

MOTION:	Accept the Agenda, for the April 8, 2020 Special Meeting of the Board of Supervisors.				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. O'Brien	Mr. Sheridan	Mr. Weaver
ACTION:	Second				Motion
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:	**5-0**				

- Mr. Payne commented on the Special Meeting to hold a Public Hearing and facilitate the continuity of government.
- He also clarified that Mr. Sheridan, Mrs. Booker and Mrs. Eager are participating remotely due to health concerns and Mr. O'Brien and Mr. Weaver are present.

4 - COUNTY ADMINISTRATOR'S REPORT

Mr. Dahl reported on the following topics:

- **June Primary Date Change**
  - The Governor is using his statutory authority in § 24.2-603.1 and issuing an executive order to delay the June 9, 2020 primary until **June 23, 2020**.
- **Feeding Fluvanna**
  - FCSS and MACAA Food Bank
  - Blue Ridge Area Food Bank Mobile Locations
    - Columbia Baptist Church
    - Effort Baptist Church
  - Area Churches
  - Fluvanna County Public Schools
  - Meals on Wheels
- **Elevated Storage Tank Logo Painting**
  - This Weekend!
- **2020 Census: https://my2020census.gov/**
  - Will help determine how hundreds of billions of dollars in federal funding flow into communities every year for the next decade (transportation, schools and other funding).
  - Virginia 4th in the nation and Fluvanna 12th out of all VA Counties

DRAFT

Next BOS Meetings:

Day	Date	Time	Purpose	Location
Wed	Apr 15	7:00 PM	BOS Regular Meeting - Adopt FY21 Budget & CY20 Tax Rate	Morris Room
Wed	Apr 22	7:00 PM	BOS Special Meeting - TBD - Adopt FY21 Budget & CY20 Tax Rate	Morris Room
Wed	May 6	4:00 PM	BOS Regular Meeting	Morris Room
Wed	May 20	7:00 PM	BOS Regular Meeting	Morris Room

6 - PUBLIC HEARING

FY21 CIP, Budget and Tax Rates – Mary Anna Twisdale, Director of Finance, presented budget options for fiscal year 2021.

All figures based upon the $0.945 Advertised Tax Rate

- **Total Capital Improvements Plan**

Fiscal Year	Capital Fund
2021	$2,900,797
2022	$8,536,993
2023	$10,484,040
2024	$14,046,775
2025	$5,267,033
TOTAL:	$41,235,638

- **Governmental, Capital & Enterprise Summary**

	Adopted Budget FY20	Proposed Budget FY21	Increase/ (Decrease)	% Change
GOVERNMENTAL				
GOVERNMENTAL REVENUES	$77,056,343	$78,717,082	$1,660,739	2.2%
GOVERNMENTAL EXPENDITURES	$75,761,913	$77,397,967	$1,636,054	2.2%
CAPITAL FUND				
CAPITAL FUND REVENUES*	$3,766,610	$2,392,000	-$1,374,610	-36.4%
CAPITAL FUND EXPENDITURES	$4,266,610	$2,900,797	-$1,365,813	-32.0%
ENTERPRISE FUND				
ENTERPRISE REVENUES*	$2,015,176	$2,111,261	$96,085	4.8%
ENTERPRISE EXPENDITURES	$2,809,606	$2,921,579	$111,973	4.0%
GRAND TOTAL REVENUES	$82,838,129	$83,220,343	$382,214	.5%
GRAND TOTAL EXPENDITURES	$82,838,129	$83,220,343	$382,214	.5%

*Revenues are supplemented by transfers from the General Fund

- **Current and Proposed Tax Rates**

Tax Category	FY20 Adopted	FY21 Proposed
Real Property	$0.925	**$0.945**
Mobile Homes	$0.925	**$0.945**
Personal Property (Residential)	4.35	**4.35**
Personal Property (Business)	2.90	**2.90**
Machinery & Tools	1.90	**1.90**

Tax Rates are per $100 of Assessed Value

With no questions from the Board, Chair Sheridan opened the Public Hearing at 7:43pm.
-Mr. Dahl read the comments by George Graff requesting tax rate reduction.
-Mr. Dahl read the comments by Perrie Johnson, 229 Pine Ln, who asked for the budget to be funded as fully as possible.
-Mr. O'Brien read the comments of Mille Fife, who suggested the comments submitted be read aloud during the meeting and to place extension notices in with the tax bills so the public know the option is available.
- Mr. Dahl read Patty Reynard, Broken Island, comments from the last meeting.
There being no one else wishing to speak, Chair Sheridan closed the Public Hearing at 8:02pm.

10 - UNFINISHED BUSINESS

FY21 Budget Discussion – Eric Dahl, County Administrator

- Mrs. Eager asked to hire an independent consultant to give a review of the fire and rescue apparatus in the County, what the expected lifespan of apparatus and the shape of our current fleet.
- Mrs. Booker asked if there is a way to track the hardships felt throughout the County, either through DSS, MACCA, food bank distribution, or unemployment. Bryan Rothamel gave a brief update on unemployment figures that have gone from 1.9% last quarter to about 3.8% as of last week. Mrs. Booker then asked if the Chamber of Commerce might have an update of how local businesses are being affected.
- Mrs. Twisdale for an update on the FY21 figures. The fact that Fluvanna County does not have BPOL, Transient Occupancy Tax and Meals Tax is helping the locality. The potential extended due date in June might hurt FY20 but the collection would be recovered in FY21.
- Mrs. Twisdale cautioned the carryover at the end of FY20 might not be available.
- The Board explored not debt funding the fire trucks scheduled in FY20.
- After a lengthy discussion, the Board of Supervisors agreed to convene the April 15, 2020 meeting to adopt the FY21 Budget, and then continue the meeting on April 29, 2020 to see what funding would be coming from the State.
- Mr. Obrien asked Mr. Winkler to clarify whether childcare for essential workers was forthcoming for County schools. Mr. Winkler confirmed there would not be any childcare held in the County schools due to medical advisement from local health care officials and the consulted doctor. The schools have been advised in writing not to open the schools at this time.
- Mr. Dahl revisited the subject of penalties and interest being waived or extended until a later date. Mr. Payne suggested picking a date amending the ordinance temporarily for a specific amount of time this year. The temporary ordinance amendment will require advertisement for fourteen days and a public hearing.

11 - NEW BUSINESS

None.

13 - CLOSED MEETING

MOTION:	At 9:33pm, move the Fluvanna County Board of Supervisors enter into a closed meeting, pursuant to the provisions of Section 2.2-3711 A.1, & A.19 of the Code of Virginia, 1950, as amended, for the purpose of discussing Personnel, and Public Safety.				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. O'Brien	Mr. Sheridan	Mr. Weaver
ACTION:	Second		Motion		
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:	**5-0**				

MOTION:	At 9:55pm, move Closed Meeting be adjourned and the Fluvanna County Board of Supervisors convene again in open session and "BE IT RESOLVED, the Board of Supervisors does hereby certify to the best of each member's knowledge (i) only public business matters lawfully exempted from open meeting requirements under Section 2.2-3711-A of the Code of Virginia, 1950, as amended, and (ii) only such public business matters as were identified in the motion by which the closed meeting was convened were heard, discussed, or considered in the meeting."				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. O'Brien	Mr. Sheridan	Mr. Weaver
ACTION:	Second		Motion		
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:	**5-0**				

14 - ADJOURN

MOTION:	Adjourn the Special Meeting of Wednesday, April 8, 2020 9:55pm.				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. O'Brien	Mr. Sheridan	Mr. Weaver
ACTION:			Second		Motion
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:	**5-0**				

ATTEST: FLUVANNA COUNTY BOARD OF SUPERVISORS

_____ _____

Caitlin Solis
Clerk to the Board

John M. Sheridan
Chair

DRAFT

Public Comments Submitted Electronically:

"Dear Fluvanna Board of Supervisors,

I am Perrie Johnson, currently chair of Fluvanna Public Schools, but addressing you on my own behalf. I live at 229 Pine Lane in Fork Union.

Thank you for your hard work preparing a budget and tax rate for uncertain times. Since Fluvanna schools are facing similar uncertainties, I encourage you to pass the advertised tax rate and come as close as you can to fully funding the school budget. It's also my hope that this rate may accomplish the restoration of some important capital improvements for the county and the schools.

Many thanks,

Perrie Johnson"

Message To Board of Supervisors

"I've been a resident of Fluvanna since 1987. My concern of course is COVID-19. Primarily the number of workers in the county who have been laid off, furloughed or otherwise just have lost their job as a result of the virus. The Rural Virginian and other news media have given people just a smidgen of hope with the federal checks to individuals, banks working with homeowners about mortgage payment delays, and utility companies not shutting off power or water. However, I have yet to see any information on possible relief coming from our county administration in the way of financial relief ... primarily property taxes. As residents are struggling without income and many now without health benefits, I believe the county administrators should vote a significant drop in our tax rate. I assume many county employees are still getting paid along with their health insurance while many residents are going without. It makes no sense to me to say that the money is in the budget so we can spend it on our employees so we won't lose them. Then when our property taxes come due, the county will still expect the full amount while residents will have a big loss in their earnings for this year because of the virus. The Rural Virginian article says those who get a federal check should use it to build an emergency savings to be able to live on. However, it won't help them or their family if that check goes right back to the county for employee pay and benefits while the recipient of that check may still be struggling to make ends meet. So, I urge the board to significantly reduce property tax rates to not add more of a financial burden to those who have not been working and maybe not be working for some time in the future. I can't buy the argument that the county has financial commitments and we have the budget in 2020 to cover those expenses, while residents are scraping by. The county could also give rebates to residents out of those 2020 funds, or roll a large portion over to 2021 with a large relief on property taxes. I'm sure you feel many county workers are essential to our residents, but many are not, at least for a short term. If our residents just start to get on their feet later in the year, it won't help them by hitting them with a big property tax bill and putting them further in the hole, just so the county has a comfortable budget. I'm sure our supervisors can come up with property tax relief for Fluvanna residents. Thank You For Listening. I hope the 2021 budget and tax rate isn't going to be based on business as usual with excuses to out of work residents who should be grateful."

George Graf

"Dear Tony,

I appreciate your getting back to me on these matters and assuring me that you understand the gravity of this crisis. In looking at the Va. Dept. of Health stats for today I see that we're up to 12 cases in Fluvanna. Of course, the real numbers continue to be difficult to know with the number of tests not meeting the need.

DRAFT

My hope is that I'll be able to connect well enough to attend the meeting later today and to add a question beyond what we've discussed in this previous email during the Public Comment period. However, I'm writing to you about it now in case that doesn't happen.

I was in touch with Mr. Rothamel from the Economic Development Office to note that I was pleased about the survey he was doing to assess the needs of local business owners and to ask when data from that might be available for interested community members to see. He noted that should be within the next week or so. I reiterated to him that I very much hoped the BOS would have that in hand as the members planned next year's budget.

When it comes to the needs assessment recently posted for essential worker child care by the school system, or this survey by the Economic Development Office, or news related to the BOS meetings -- particularly with regard to public input for the budget process currently underway -- having internet access is crucial. I have reached out to various school board members and others to find out if there are mechanisms in place to reach ALL Fluvanna residents when it comes to these matters and it's not been made clear to me. I do sincerely appreciate the efforts being made to communicate, but this digital divide is a big one and one that those of us who have the access need to consistently keep at the forefront of our planning. I hope this will be addressed at tonight's meeting and concrete steps spelled out for addressing the issue.

Thank you for joining the FLUCares page. I'm sure you're taking advantage of a variety of media to stay abreast of what's happening in our area.

Millie Fife”

“I hope you all are staying safe and healthy during the crisis.

I listened to the live streaming board meeting this week, and was shocked to hear some of the board members were still advocating for county staff raises, and the school was still pushing for teacher raises. I don’t know the exact number of people that have already lost their jobs, but it is growing every day. It is unbelievable to me, that raises wouldn’t be the first thing to be removed from the budget. There are so many expenditures that should be cut. If you would just imagine yourself with no job, no money, and know the $1200 from the government will take 4-5 months to get to you, and that is a one time payment. This $1200 will not come close to covering, mortgage/rent, food, car, utilities, medical, and of course the taxes, the most important things. If you are eligible for unemployment, and can’t get through to the government website, because it keeps crashing or down, and it is impossible to get through on the phone, and who knows how long this process is going to take. Can you imagine yourself in this situation? So, when I heard some of the board members still wanting the raises to stay in the budget, I just couldn’t believe what I was hearing. As I have said before the County staff, and school staff are taken very good care of, they have their jobs with retirement, healthcare, sick leave, vacation, and a pay check every pay period and the $1200 stimulus, all afforded by tax paying citizens, and many that don’t have these benefited themselves.

There will be many state cuts due to the COVID-19 devastation. This is not about kicking the can down the road, this is about doing the right thing for all, not certain select groups.

Patti Reynard “

DRAFT

FLUVANNA COUNTY BOARD OF SUPERVISORS
AGENDA ITEM STAFF REPORT

TAB I

MEETING DATE:	May 6, 2020				
AGENDA TITLE:	Adoption of the Fluvanna County Board of Supervisors April 15, 2020 Meeting Minutes.				
MOTION(s):	**I move the meeting minutes of the Fluvanna County Board of Supervisors Regular Meeting on Wednesday, April 15, 2020, be adopted.**				
STRATEGIC INITIATIVE?	Yes	No	**If yes, list initiative(s):**		
		X			
AGENDA CATEGORY:	Public Hearing	Action Matter	Presentation	Consent Agenda	Other
				XX	
STAFF CONTACT(S):	Caitlin Solis, Clerk to the Board				
PRESENTER(S):	Eric Dahl, County Administrator				
RECOMMENDATION:	Approve				
TIMING:	Routine				
DISCUSSION:	None.				
FISCAL IMPACT:	N/A				
POLICY IMPACT:	N/A				
LEGISLATIVE HISTORY:	None				
ENCLOSURES:	Draft Minutes for April 15, 2020.				
REVIEWS COMPLETED:	Legal	Finance	Purchasing	HR	Other

FLUVANNA COUNTY BOARD OF SUPERVISORS
REGULAR MEETING MINUTES
Morris Room
April 15, 2020
Regular Meeting 7:00pm

MEMBERS PRESENT: John M. (Mike) Sheridan, Columbia District, Chair *
Tony O'Brien, Rivanna District, Vice Chair
Mozell Booker, Fork Union District *
Patricia Eager, Palmyra District *
Donald W. Weaver, Cunningham District

ABSENT: None.

ALSO PRESENT: Eric M. Dahl, County Administrator
Fred Payne, County Attorney
Caitlin Solis, Clerk for the Board of Supervisors

**Due to health concerns, Mr. Sheridan, Mrs. Booker and Mrs. Eager are attending the meeting via phone conference call.*

- *John M. Sheridan, (Calling from 445 Covered Bridge Road)*
- *Mozell Booker, (Calling from 258 Bass Lane)*
- *Patricia Eager, (Calling from 1107 Mechunk Creek Drive)*

1 - CALL TO ORDER, PLEDGE OF ALLEGIANCE, & MOMENT OF SILENCE

At 7:13pm, Chair Sheridan called to order the Regular Meeting of April 15, 2020.
After the recitation of the Pledge of Allegiance, a moment of silence was observed.

3 - ADOPTION OF AGENDA

MOTION:	Accept the Agenda, for the April 15, 2020 Regular Meeting of the Board of Supervisors.				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. O'Brien	Mr. Sheridan	Mr. Weaver
ACTION:			Motion		Second
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:	**5-0**				

4 - COUNTY ADMINISTRATOR'S REPORT

Mr. Dahl reported on the following topics:

- **Food Drive Sponsored by the Rotary Club Of Fluvanna County**
  - Food Drive will be held throughout Lake Monticello **Thursday, April 23, 2020**
  - Place **non-perishable** food items by mailbox in bag or box between 8-10am
  - Checks can also be mailed to MACAA at 8878 James Madison Hwy, Fork Union, VA 23055
- **Needed items include:**

Peanut butter and jelly
Pasta and spaghetti sauce
Canned vegetables and fruit
Ramen noodles
Macaroni and cheese
Canned tuna or chicken
Box cereal and oatmeal
Juice boxes and pouches
Granola bars
Canned soup and dried soup
Coffee and tea

- **Elevated Storage Tank Logo Painting**
  - Completed!
- Thank you for being vigilant against the COVID-19 threat by staying home, and covering your face when you go into public
- **Next BOS Meetings**

Day	Date	Time	Purpose	Location
Wed	Apr 22	7:00 PM	BOS Special Meeting - TBD - Adopt FY21 Budget & CY20 Tax Rate - CANCELED	Morris Room
Wed	Apr 29	4:00 PM 7:00 PM	Continued Apr 15, 2020 BOS Regular Meeting - Adopt FY21 Budget & CY20 Tax Rate	Morris Room

Wed	May 6	4:00 PM	BOS Regular Meeting	Morris Room
Wed	May 20	7:00 PM	BOS Regular Meeting	Morris Room

5 - PUBLIC COMMENTS #1

At 7:18pm, Chair Sheridan opened the first round of Public Comments.
-Patti Reynard, Broken Island, spoke against unnecessary spending, raising taxes, funding fire and rescue and asked to know how many fire and rescue calls run annually.
-John Lye, Chair of FRA, called in to comment on the number of fire and rescue calls each year. Roughly 1,800 fire calls and 2,800 EMS calls each year.
With no one else wishing to speak, Chair Sheridan closed the first round of Public Comments at 7:25pm.

6 - PUBLIC HEARING

FY20 Zion Crossroads Water & Sewer System Budget – Liz McIver, Management Analyst

Budget Amendment Information

- The Adopted FY2020 budget totals $82,838,129 in revenues and expenditures. The proposed amendment for the Zion Crossroads Construction Budget calls for an increase of $2,250,000 in revenues and expenditures.
- ZXR SNAP account remaining funds -- $1,064,461
- Invoices to requisition reimbursement for -- -$371,945
- Outstanding contracts as of April 7, 2020 -- -$2,557,881
- Current anticipated additional cost -- -$154,470
- Current shortfall of funds available -- -$2,019,835

Fund Balance

- Maintain Unassigned Fund Balance at a minimum of 12% of General Fund revenues plus Component Unit School Fund revenues, less the operating transfer from the General Fund at the end of each fiscal year.
  - Current 12% - $9,125,690
  - Current Above 12% - $5,888,239
- In the event Unassigned Fund Balance is required to be drawn below the 12% requirement due to an emergency, such as natural disaster or due to severe economic circumstances, the County Administrator will present to the Board of Supervisors a plan and timeline to restore the Unassigned Fund Balance to its minimum level established.
- Generally, per GAAP, the restore period should be within 1-3 years.

FY20 Fund Balance Options

Use of Fund Balance Options		
Updated Balance as of March 18, 2020		Available Fund Balance
Considerations	**Expenditure**	**$ 5,888,239**
E911 System Core Cost (Louisa)	$380,000	$ 6,268,239
FY21 CIP - ZXR	($2,750,000)	$ 3,518,239
FY21 CIP	($1,119,000)	$ 2,399,239
Burn Building - Possible costs above grant	($400,000)	$ 1,999,239
Add'l JRWA Costs (Estimate - FY22/23)	($2,500,000)	$ (500,761)
	$0	$ (500,761)

- Mr. O'Brien asked … if the rating agencies will stay put if you have the plan in place to replenish the lowered fund balance. Mr. Dahl said the rating agencies have been complementary of the fund balance levels maintained by Fluvanna County despite the debt that is taken out by the County.
- Mrs. Eager asked if the fire truck purchase could be canceled and paid for by debt. Mrs. Eager also wanted to know if debt could be taken out to pay for some of the Zion Crossroads project to preserve the fund balance.
- Mr. Sheridan expressed he would not like to debt fund so the tax rate can remain flat.

- Mr. Dahl informed the Board a portion would need to be approved this fiscal year from the unassigned fund balance. $500,000 would need to be approved for this fiscal year and take out debt proceeds for the remaining $1,750,000. $150,000 debt payment would then need to be included in the operating budget each year.
- Mr. O'Brien suggested paying the $150,000 debt payment from the unassigned fund balance and spoke in favor of preserving the fund balance and taking out debt to fund the remainder of Zion Crossroads Water Project.
- Mr. Sheridan cautioned that the discussion might be heading more towards budget as opposed to the public hearing.
- Mr. Dahl clarified that the discussion is trying to figure out whether the Board is going forward with funding the entire $2.2 million out of the fund balance or fund a different number to fund the project through the end of the fiscal year and then submit a Virginia Resource Authority application.
- Mr. Dahl let the Board know that the Public Hearing needed to proceed at the advertised amount of $2,750,000 out of the unassigned fund balance. After the Public Hearing, the Board could decide to move forward with another amount.
- Mr. Obrien asked if we are proceeding with the public hearing, would we still have the ability to debt fund the project.

With no further questions from the Board, Chair Sheridan opened the Public Hearing at 7:52pm.

- Patti Reynard, Broken Island, spoke against taking on more debt for the project.

There being no one else wishing to speak, Chair Sheridan closed the Public Hearing at 7:55pm.

- Mr. O'Brien suggested to change the motion to $500,000, submit the VRA application and vote for it at a later date or advertise another Public Hearing later on for the additional $2 million dollars that are needed for the project to maintain flexibility in uncertain times.

MOTION:	Approve a budget transfer of $500,000 in revenue and expenditures, effective April 15, 2020 from Unassigned Fund Balance to the FY20 Zion Crossroads Water & Sewer Enterprise Fund Budget				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. O'Brien	Mr. Sheridan	Mr. Weaver
ACTION:		Second	Motion		
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:	**5-0**				

7 - ACTION MATTERS

Contract Agent for Voluntary Benefits – Cyndi Toler, Purchasing Officer

- From July 1, 2016 – December 31, 2019, the County had a contract agreement with Pierce Group Benefits, LLC as our Third Party Benefits Administrator.
- Responsibilities included serving as a Professional Consultant for all County benefits, Health Insurance brokerage, and Voluntary benefits brokerage (to include policy enrollment and claims assistance).
- Effective January 1, 2020, the County terminated the contract with Pierce Group, LLC Coverage.

- In February 2020, the County issued a Request for Proposal to provide Policy Brokerage, employee enrollment, and claims assistance, consistent with the legal requirements for a licensed agent/broker.
- First Financial Administrators, Inc. (FFA) was ranked the highest by the review panel, and therefore chosen to be the County's Voluntary Benefits Agent.
- The contract will be effective May 1, 2020 through June 30, 2021, then renewable annually of July 1st.

Responsibilities:

- Brokerage, enrollment, and claims assistance
- Administration of Flex Spending & HSA accounts
- COBRA Administration Assistance
- Benefits Open Enrollment

No charge to the County for services rendered by First Financial Administrators, Inc.

MOTION:	Approve the contract between County of Fluvanna and First Financial Administrators, Inc., for Agent for Voluntary Benefits at no cost for the County and further authorize the County Administrator to execute the agreement subject to the County Attorney approval as to form.				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. O'Brien	Mr. Sheridan	Mr. Weaver
ACTION:	Second		Motion		
VOTE:	Yes	Yes	Yes	Yes	Yes

RESULT:	**5-0**

7A – BOARDS AND COMMISSIONS

None.

8 - PRESENTATIONS

None.

9 - CONSENT AGENDA

The following items were discussed before approval:

- *Minutes of April 1, 2020* – Caitlin Solis, Clerk to the Board
- *CRMF - Treasurer's Office Emergency Roof Repairs* – Dale Critzer, Assistant Director of Public Works

The following items were approved under the Consent Agenda for April 15, 2020:

- *Minutes of April 1, 2020* – Caitlin Solis, Clerk to the Board
- *Accounts Payable Report for March 2020* – Liz McIver, Management Analyst
- *FY20 Sheriff Department Insurance Claim* – 2016 Ford Taurus VIN#8348 – Liz McIver, Management Analyst
- *Zion Crossroads Water & Sewer System Project Agreement #17* – Cyndi Toler, Purchasing Officer
- *Zion Crossroads Water & Sewer System Project Agreement #18* – Cyndi Toler, Purchasing Officer
- *Zion Crossroads Water & Sewer System Project Agreement #19* – Cyndi Toler, Purchasing Officer
- *Zion Crossroads Water & Sewer System Project Agreement #20* – Cyndi Toler, Purchasing Officer
- *CRMF - Treasurer's Office Emergency Roof Repairs* – Dale Critzer, Assistant Director of Public Works
- *Building Official Hiring Salary* – Jessica Rice, HR Manager

MOTION:	Approve the consent agenda, for the April 15, 2020 Board of Supervisors meeting, and to ratify Accounts Payable and Payroll for March 2020, in the amount of $2,500,661.61.				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. O'Brien	Mr. Sheridan	Mr. Weaver
ACTION:		Second			Motion
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:	**5-0**				

10 - UNFINISHED BUSINESS

- Mr. Weaver brought up the bills accrued by CSA and suggested building a facility for multiple counties and consolidating costs.
- Mrs. Eager asked if there will be more time to discuss the budget before the vote on April 29, 2020.

11 - NEW BUSINESS

None.

12 - PUBLIC COMMENTS #2

At 8:30pm, Chair Sheridan opened the second round of Public Comments.

-Patti Reynard, Broken Island, Spoke against raising taxes, questioned the numbers of fire and rescue calls and requested the number of fire and EMS calls by each company.

-John Lye, 3 Loving Terrace, Chair of the FRA, clarified the number of EMS calls run by the two EMS companies. Each company covers about 50 percent of the calls and run between 1,350 and 1,400 calls per year.

With no one else wishing to speak, Chair Sheridan closed the second round of Public Comments at 8:35pm.

13 - CLOSED MEETING

MOTION:	At 8:37pm, move the Fluvanna County Board of Supervisors enter into a closed meeting, pursuant to the provisions of Section 2.2-3711 A.6 & A.19 of the Code of Virginia, 1950, as amended, for the purpose of discussing Investment of Funds & Public Safety.				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. O'Brien	Mr. Sheridan	Mr. Weaver
ACTION:			Motion		Second
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:	**5-0**				

MOTION:	At 9:21pm, move Closed Meeting be adjourned and the Fluvanna County Board of Supervisors convene again in open session and "BE IT RESOLVED, the Board of Supervisors does hereby certify to the best of each member's knowledge (i) only public business matters lawfully exempted from open meeting requirements under Section 2.2-3711-A of the Code of Virginia, 1950, as amended, and (ii) only such public business matters as were identified in the motion by which the closed meeting was convened were heard, discussed, or considered in the meeting."				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. O'Brien	Mr. Sheridan	Mr. Weaver
ACTION:			Motion		Second

VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:	**5-0**				

14 - ADJOURN

MOTION:	At 9:22pm, adjourn the regular meeting of Wednesday, April 15, 2020 until April 29, 2020 at 4:00pm.				
MEMBER:	Mrs. Booker	Mrs. Eager	Mr. O'Brien	Mr. Sheridan	Mr. Weaver
ACTION:	Motion	Second			
VOTE:	Yes	Yes	Yes	Yes	Yes
RESULT:	**5-0**				

ATTEST: FLUVANNA COUNTY BOARD OF SUPERVISORS

_____ _____

Caitlin Solis
Clerk to the Board

John M. Sheridan
Chair

DRAFT

FLUVANNA COUNTY BOARD OF SUPERVISORS
MEETING PACKAGE ATTACHMENTS

Incl?	Item
☒	Unassigned Fund Balance Report
☒	BOS Contingency Balance Report
☒	Capital Reserve Balances Memo
☐	Fluvanna County Bank Balance and Investment Report
☒	Building Inspections Report
X	VDOT Monthly Report & 2020 Resurfacing List
☐	
☐	
☐	
☐	

COUNTY OF FLUVANNA

"Responsive & Responsible Government"

P.O. Box 540
Palmyra, VA 22963
(434) 591-1910
Fax (434) 591-1911
www.fluvannacounty.org

MEMORANDUM

Date: May 06, 2020
From: Liz McIver – Management Analyst
To: Board of Supervisors
Subject: Unassigned Fund Balance

FY19 Year End Audited Total Unassigned Fund Balance:	**$16,632,750**
Unassigned Fund Balance – 12% Target Per Policy:	**$9,125,690**
Unassigned Fund Balance – Excess Above Policy Target:	**$7,507,060**
Less: FY19/FY20 Automatic Carryover – PARC – 07.01.19	-$5,000
Less: FY20 ZXR Waterworks Operations Plan Development – 07.02.19	-$53,250
Less: FY20 Water and Sewer Master Plan – 07.02.19	-$235,570
Less: FY20 Fluvanna Rescue Ambulance CIP – 08.21.19	-$190,000
Less: FY20 Support 56 Water Rescue Truck – 11.04.19	-$83,000
Less: FY20 Self Contained Breathing Apparatus Funding – 11.04.19	-$618,000
Less: FY20 Water Distribution System Optimization Study – 11.20.19	-$22,366
Less: FY19-20 County Carryover Request – 12.4.19	-$40,635
Less: FY19-20 Schools Carryover Request – 12.4.19	-$250,000
Less: FY20 Self Contained Breathing Apparatus Funding – 03.18.20	-$121,000
Less: FY20 ZXR Enterprise Fund Budget Add'l Funding – 04.15.20	-$500,000
Current FY20 Unassigned Fund Balance – Excess Above Policy Target:	**$5,388,239**
Less: FY20 ZXR Water Project (Future Commitment - Pending Borrowing)	-$1,750,000
Current FY20 Unassigned Fund Balance – Including Zion Crossroads	**$3,638,239**

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MEMORANDUM

Date: May 06, 2020
From: Liz McIver – Management Analyst
To: Board of Supervisors
Subject: FY20 BOS Contingency Balance

The FY20 BOS Contingency line balance is as follows:

Beginning Budget:	**$211,744**
Less: FY20 Purchase of TMP 51-A-130 – 08.07.19	-$60,985
Less: FY20 Sheriff's Office Evidence Storage Building – 09.18.19	-$28,500
Less: FY20 Convenience Center Budget Transfer – 01.22.20	-$50,000
Less: FY20 Bank Franchise Tax Refund for BB&T - 04.01.15	-$32,954
Available:	**$39,305**

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MEMORANDUM

Date: May 06, 2020
From: Liz McIver – Management Analyst
To: Board of Supervisors
Subject: FY20 Capital Reserve Balances

The FY20 Capital Reserve account balances are as follows:

County Capital Reserve:

FY20 Budget Allocation:	**$250,000**
FY19 Carryover	$86,389
Add: FY19 Closed CRM Projects 6/30/19	$51,538
Total FY20 Budget:	**$387,927**
Less: Skid Steer - 07.02.19	-$3,500
Less: Library Roof Repair - 08.07.19	-$12,000
Less: Energy Recovery Unit Repair – 08.21.19	-$5,489
Less: Additional excavation & material for ADA Trail erosion repair – 10.16.19	-$4,983
Less: John Deere Backhoe/Bobcat Mini Excavator Repair – 10.16.19	-$14,000
Less: E911 UPS Battery Replacement – 11.06.19	-$16,600
Less: Treasurer's Office Front Lobby Concrete Floor – 11.06.19	-$18,663
Less: DSS Conference Room Pain & Carpet – 01.22.20	-$4,370
Less: Geo-Thermal Water Pump Replacement – 01.22.20	-$5,000
Less: Boiler Tube Replacement at Courts Building – 04.01.20	-$6,808
Less: Safety Handrail for MAACA Sidewalk – 04.01.20	-$4,000
Less: Treasurer's Office Roof Repair – 04.15.20	-$27,400

FY20 Available:	**$265,114**

Schools Capital Reserve:

FY20 Budget Allocation:	**$250,000**
FY19 Carryover	$194,149
Total FY20 Budget:	**$444,149**
Less: Bus Garage Fencing – 08.07.19	-$18,500
Less: Flashing Speed Limit Sign – 08.07.19	-$6,500
Less: Replace Diesel and Gas Pump – 08.07.19	-$14,000
Less: FCHS Turf Inspection and Leveling – 11.06.19	-$9,800
Less: FCHS Track Repair – 01.08.20	-$4,425
Less: FCHS Grinder Pump Replacement – 01.08.20	-$12,014
Less: FCHS Testing, Cleaning and Tuning of (3) Boilers – 02.19.20	-$14,850
Less: Air Quality Testing at Abrams Academy – 02.19.20	-$9,955
FY20 Available:	**$354,105**

BUILDING INSPECTIONS MONTHLY REPORT

County of Fluvanna

Building Official:	Period:
Johnny Vaughan	March, 2020

Category	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
BUILDING PERMITS ISSUED														
NEW - Single Family Detached (incl. Trades permits)	2016	11	11	8	15	9	18	6	5	9	2	6	8	**108**
	2017	3	2	16	6	4	10	6	5	14	5	7	13	**91**
	2018	8	3	15	11	13	17	13	10	8	8	6	9	**121**
	2019	8	10	14	9	12	9	10	14	13	2	11	7	**119**
	2020	12	13	22	0	0	0	0	0	0	0	0	0	**47**
NEW - Single Family Attached	2016	2	0	0	0	0	5	0	2	0	0	0	0	**5**
	2017	0	0	0	0	0	5	0	0	0	0	0	0	**0**
	2018	0	0	0	0	0	0	0	0	0	0	0	0	**0**
	2019	0	0	0	0	0	0	0	0	0	0	0	0	**0**
	2020	0	0	0	0	0	0	0	0	0	0	0	0	**0**
NEW - Mobil Homes	2016	0	1	0	0	0	0	0	1	0	0	0	0	**2**
	2017	0	0	0	0	2	1	0	1	0	0	0	0	**4**
	2018	0	0	1	1	0	0	0	0	0	0	0	0	**3**
	2019	0	0	0	0	0	0	0	0	1	1	0	1	**2**
	2020	0	0	1	0	0	0	0	0	0	0	0	0	**1**
Additions and Alterations	2016	13	10	31	27	29	29	15	32	31	28	27	27	**299**
	2017	29	20	29	43	20	29	32	18	23	27	43	28	**341**
	2018	19	6	10	19	8	13	26	25	32	42	22	21	**243**
	2019	35	33	37	27	38	38	44	34	34	36	35	31	**422**
	2020	37	38	23	0	0	0	0	0	0	0	0	0	**98**
		* Trade permits count not in .												
Accessory Buildings	2016	3	4	4	6	2	2	1	2	1	3	3	6	**37**
	2017	0	4	2	3	2	2	2	4	2	0	2	2	**25**
	2018	2	3	3	6	2	1	4	2	1	2	2	2	**30**
	2019	2	4	6	4	4	3	3	8	2	8	4	4	**52**
	2020	2	4	4	0	0	0	0	0	0	0	0	0	**10**
Swimming Pools	2016	0	0	0	0	0	1	1	0	0	0	0	0	**2**
	2017	0	0	0	0	0	1	1	0	0	1	1	0	**4**
	2018	0	1	1	1	0	1	2	0	1	2	0	0	**9**
	2019	0	0	0	3	2	2	0	1	0	1	0	1	**10**
	2020	0	1	3	0	0	0	0	0	0	0	0	0	**4**
Commercial/ Industrial Build/Cell Towers	2016	0	0	2	2	0	0	1	0	1	1	1	1	**9**
	2017	1	2	0	0	0	0	2	2	1	1	0	0	**9**
	2018	0	0	0	0	0	2	0	0	0	0	0	0	**2**
	2019	0	0	1	1	0	2	0	0	0	0	0	0	**4**
	2020	0	0	1	0	0	0	0	0	0	0	0	0	**1**
TOTAL BUILDING PERMITS	2016	27	26	45	50	40	55	24	40	42	34	37	42	**462**
	2017	33	28	47	52	28	43	43	30	40	34	53	43	**474**
	2018	29	13	30	38	23	34	45	37	42	54	30	33	**408**
	2019	45	47	58	44	56	54	57	57	50	48	50	43	**609**
	2020	51	56	54	0	0	0	0	0	0	0	0	0	**161**
		* Trade permits count not included as in previous years												
BUILDING VALUES FOR PERMITS ISSUED														
TOTAL BUILDING VALUES	2016	$1,817,981	$2,555,455	$5,542,458	$3,711,821	$2,447,891	$5,181,921	$3,611,179	$1,817,783	$3,089,971	$1,889,279	$2,028,590	$2,937,783	**$ 36,632,112**
	2017	$857,767	$827,724	$4,859,777	$2,066,132	$1,512,789	$3,676,118	$1,904,915	$2,359,988	$2,846,545	$1,957,646	$1,897,110	$3,479,285	**$ 28,245,796**
	2018	$2,541,433	$1,075,551	$3,544,096	$2,153,241	$3,834,995	$5,693,348	$3,156,593	$4,729,005	$3,637,992	$1,791,222	$2,169,284	$2,421,169	**$ 37,107,929**
	2019	$1,991,054	$2,502,719	$5,639,238	$4,695,173	$3,057,597	$3,228,152	$3,360,952	$3,926,015	$3,457,214	$2,636,194	$3,148,369	$2,960,579	**$ 40,603,256**
	2020	$2,292,161	$3,202,055	$7,238,708	$0	$0	$0	$0	$0	$0	$0	$0	$0	**$ 12,732,924**

Category	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
LAND DISTURBING PERMITS ISSUED														
LAND DISTURBING PERMITS	2016	12	11	8	14	10	17	7	6	11	3	9	9	**117**
	2017	3	2	17	7	7	9	6	6	15	8	7	14	**101**
	2018	10	4	16	13	11	17	13	7	9	6	7	8	**121**
	2019	8	12	16	9	14	10	12	14	13	2	11	8	**129**
	2020	11	10	26	0	0	0	0	0	0	0	0	0	**47**
INSPECTIONS COMPLETED														
TOTAL INSPECTIONS	2016	116	91	153	157	155	214	249	230	197	181	184	172	**2,099**
	2017	159	144	171	141	177	152	202	182	153	183	181	169	**2,014**
	2018	163	148	173	186	215	176	164	220	144	221	154	141	**2,105**
	2019	237	207	232	297	305	246	324	332	295	298	204	216	**3,193**
	2020	213	197	302	0	0	0	0	0	0	0	0	0	**712**
FEES COLLECTED														
Building Permits	2016	$11,850	$11,954	$11,576	$14,889	$8,447	$18,588	$12,947	$7,537	$11,285	$12,548	$8,361	$11,213	**$ 141,195**
	2017	$4,060	$3,660	$22,692	$9,249	$6,703	$11,948	$9,494	$7,790	$13,169	$6,895	$9,022	$12,886	**$ 117,568**
	2018	$8,988	$4,311	$9,939	$14,765	$13,796	$23,633	$14,993	$8,748	$10,826	$12,613	$9,556	$14,570	**$ 146,738**
	2019	$11,377	$13,617	$14,005	$14,308	$11,228	$16,260	$13,778	$18,772	$14,375	$8,468	$14,747	$11,059	**$ 161,994**
	2020	$12,863	$15,468	$18,152	$0	$0	$0	$0	$0	$0	$0	$0	$0	**$ 46,483**
Land Disturbing Permits	2016	$3,200	$2,575	$1,700	$1,950	$2,250	$2,200	$4,020	$875	$28,074	$2,000	$1,450	$1,100	**$ 51,494**
	2017	$475	$800	$7,000	$1,523	$2,366	$2,425	$1,733	$7,784	$2,100	$2,050	$1,000	$1,625	**$ 30,881**
	2018	$1,450	$5,975	$1,890	$1,625	$1,625	$2,850	$1,625	$1,175	$1,125	$875	$10,675	$2,150	**$ 33,040**
	2019	$1,000	$1,500	$1,625	$1,125	$3,553	$1,250	$2,975	$6,556	$1,920	$250	$1,375	$1,125	**$ 24,251**
	2020	$1,375	$1,250	$6,365	$0	$0	$0	$0	$0	$0	$0	$0	$0	**$ 8,990**
Zoning Permits/ Proffers	2016	$1,150	$1,250	$1,800	$2,450	$1,650	$2,700	$1,150	$1,150	$1,900	$1,050	$900	$850	**$ 18,500**
	2017	$400	$1,000	$2,400	$950	$1,500	$1,800	$1,245	$1,250	$1,600	$1,050	$1,250	$1,550	**$ 15,995**
	2018	$1,400	$800	$1,750	$1,600	$1,400	$2,200	$2,050	$1,400	$1,050	$1,400	$700	$1,400	**$ 17,150**
	2019	$1,200	$1,800	$2,200	$1,550	$2,050	$1,350	$1,950	$2,300	$1,700	$1,150	$1,450	$1,400	**$ 20,100**
	2020	$1,650	$1,600	$3,000	$0	$0	$0	$0	$0	$0	$0	$0	$0	**$ 6,250**
TOTAL FEES	2016	$16,200	$15,779	$15,076	$19,289	$12,347	$23,488	$18,117	$9,562	$41,259	$15,598	$10,711	$13,263	**$ 210,689**
	2017	$4,835	$5,460	$32,092	$11,722	$10,569	$16,173	$12,472	$16,824	$16,869	$9,995	$11,272	$16,061	**$ 164,444**
	2018	$11,838	$11,086	$13,579	$17,990	$16,821	$28,683	$18,668	$11,323	$13,001	$14,888	$20,931	$18,120	**$ 196,928**
	2019	$13,577	$16,917	$17,830	$16,983	$16,831	$18,860	$18,703	$27,628	$17,995	$9,868	$15,028	$13,584	**$ 203,804**
	2020	$15,888	$18,318	$27,517	$0	$0	$0	$0	$0	$0	$0	$0	$0	**$ 61,723**

VDOT Virginia Department of Transportation

Culpeper District, Louisa Residency

Fluvanna County Monthly Report: May 2020

Fluvanna Mileage, Structures

PRIMARY MILES	SECONDARY MILES	STRUCTURES	TOTAL MILES
102.34	598.62	75	700.96

Fatal Accidents

DATE	LOCATION	ALCOHOL	RESTRAINT
3/3/2020	South Boston Rd, East of Lake Monticello	No	Yes
4/9/2020	Branch Rd, 0.8 Miles East of Rock Lane	Yes	N/A
*Of the 819 fatalities in VA in 2018, 126 were related to distracted driving and 298 were motor vehicle occupants not wearing a seatbelt. **10% of all drivers do not wear a seatbelt. Of all driver fatalities, 50% are from the 10% that do not wear a seatbelt if the option was available.			

Link to Smart Scale Information

Link to Smart Scale Projects (Filter for Fluvanna Co. Projects)

SmartScale Round 4 Key Dates:

- November 6, 2019, Project Development Workshop
- February 2020, Project Review
- March 1 - April 17, 2020, Pre-application Deadline
- August 3, 2020, Application Deadline

SMART SCALE Funding the Right Transportation Projects in Virginia

Projects:

PROJECT	LAST MILESTONE	NEXT MILESTONE	AD DATE
Route 53 Safety improvements at Route 618, Roundabout, (UPC:96938)	CN Begins	CN Underway	Anticipated Completion Fall 2020
Route 1001 – PE Study (UPC 115895)	PE Authorization	Survey in Review	Anticipated Completion Spring 2020
Route 659 – PE Study (UPC 115896)	PE Authorization	Survey in Review	Anticipated Completion Spring 2020
Route 600-618 Intersection Improvements (UPC 111739)	Floodplain Analysis	Pursuing Add. SS Funding	Anticipated FEB 2022

Additional Road Projects:

- **On-Call Pipe Replacements** PR07-967-255, (UPC 106020)
- **District Wide Guardrail Repair and/or Replacement** GR07-967-269, (UPC 106849)
- **District Wide ADA Compliance** ADA7-967-317, (UPC 108027)
- **On-Call District Wide Pavement Marking** TS07-967-325 (UPC 108282)
- **District-Wide Primary Rumble-Strips** 9999-967-280, (UPC 106978)

Route	County MP Start	County MP End	Location Description	Length (LM)	Center/Edge
6	9.74	12.27	From Rt. 640 (Haden Martin Rd) to Rt. 650 (Mountain Hill Rd)	2.53	Center
15	10.23	21.58	From Rt. 673 (Bethel Church Rd) to Rt. 250 (Richmond Rd) (Exclude 35mph zone within town limits)	11.35	Center
53	0	2.41	From Albemarle County Line to Rt. 636 (Garden Ln/Nahor Manor Rd)	2.41	Center
53	0	4.77	From Albemarle County Line to Rt. 600 (S. Boston Rd)	4.77	Edge

*In a national study, 11 states analyzed the effectiveness of center line rumbles in reducing crashes. Centerline rumble strips reduced 18% - 64% of crossover crashes.
**Edge line rumble strips studies show that single vehicle run-off-road fatal and injury crashes can be reduced by nearly 29%.

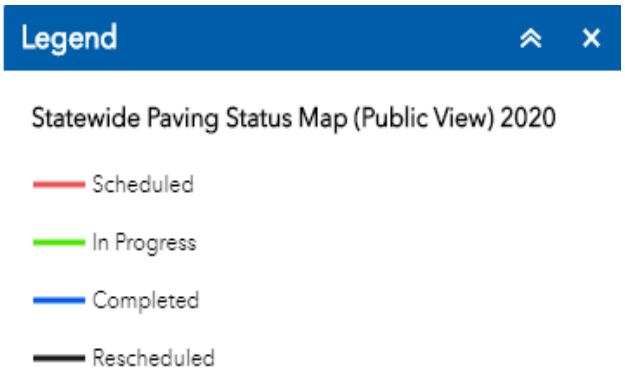
State-Force and District-Wide Bridge Projects:

- **District Wide Bridge Deck Cleaning and Washing** BRDG-967-241, (UPC 105980);
- **District Wide Bridge Maintenance** BRDG-967-240, (UPC 105979);
- **Route 623 over Venable Creek,** Completed;
- **Route 53, .5 miles S of Lake Monticello Rd - Emergency Pipe Replacement;** Completed;
- **Route 616 Soil Nailing Slope Repair;** Completed;
-

Resurfacing Projects:

VDOT provided the County with a list of routes included in the 2020 resurfacing schedule. Please review the routes listed and let us know if you have any questions or concerns.

Fluvanna County Resurfacing					
Plant Mix			**Surface Treatment**		
Schedule	Miles	Cost/Estimate	Schedule	Miles	Cost/Estimate
2019	4.94	$863.675	2019	43.65	$590,849
2020	-	-	2020	55.52	$421,558



Traffic Engineering

Studies under Review:

- Route 53 High School Speed Limit Reduction
- Route 633, 1079 N.Boston Rd – Chevrons/Curve Warning Signage + edge line consideration
- Route 250 speed study, from Route 631 to Route 15

Completed Studies:

- Route 53 shoulder safety improvements (proximity 4800 block +/-); Curve warning signs installed
- Fire Station signs along roadway by Fork Union Fire Station on Route 15 installed
- Speed limit and signage study at intersection of Route 761 and Route 620 installed
- Route 15 at Route 644 Speed Study; Not Warranted
- Centerline Marking on Rt. 613, Bybees Church Rd; Approved, Installation scheduled for Summer 2020

County Safety and Operational Improvements:

- Route 250 at Route 631 (Troy Rd): grading to improve sight distance is completed
- Route 600 at Broken Island Rd: Request for safety improvements to improve visibility at the curve; Larger chevron signs and puppy track pavement markings have been installed
- Village of Palmyra Traffic Circle: County and VDOT staff plan to simulate EMS response prior to installing pavement markings;
- Route 53 at Route 660 (Cunningham): VDOT continues to evaluate this intersection for interim and long-term safety improvements
- Route 629/631 intersection review and grading work completed
- Digital Speed Display Signs (ongoing)

Area Land Use

Fluvanna County Plat/Plan Reviews- Received March- April 2020							
Project Name	**Routes/Address**	**Submission Type**	**VDOT Contact**	**VDOT Received Date**	**Locality Due Date**	**VDOT Comment Date**	**Status**
The NR Acres Property Boundary Adjustment Plat	639-66 Rhodes School Ln Palmyra	Preliminary Plat Review,	John Wilson	3/3/2020	4/17/2020	3/11/2020	Review Complete - Acceptable
Sun Tribe Solar LLC/ Fluvanna Middle School	649-Fluvanna Middle School	Preliminary Plan	John Wilson	3/5/2020	3/12/2020	3/11/2020	Review Complete - Revision Required
Brookman Property Boundary Adjust. Plat	15-4909 James Madison Hwy., Fork Union, VA 23055	Preliminary Plat Review,	Mark Wood	3/11/2020	4/24/2020	3/11/2020	Review Complete - Acceptable
County Waste LLC	250-TMP 5-7-9A	Site Plan	John Wilson	3/17/2020	5/1/2020	3/20/2020	Review Complete - Acceptable
The Noble Properties Boundary Adjustment	6-6215 West River Rd Scottsville, V	Preliminary Plat Review,	John Wilson	3/24/2020	5/8/2020	4/2/2020	Review Complete - Revision
George and Leslie Cushnie Minor Subdivision	6-5199 W River	Preliminary Plat Review,	John Wilson	3/31/2020	5/15/2020	4/3/2020	Review Complete - Acceptable

- Zions Crossroads Small Area Plan: Existing condition transportation data & draft survey was presented at January 13th stakeholder's meeting. A web page is in development for this study.
- Virtual meeting was held with Villages at Nahor to discuss tree removal and sidewalk replacement.

Maintenance Activities

- VDOT crews in Palmyra and Zion Crossroads Area HQ have responded to **498** Work Orders in FY20. Top actives have been dead animal removal and fallen tree/limb clearing.

BOS Manual:
http://www.virginiadot.org/business/resources/local_assistance/BOSmanual.pdf

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