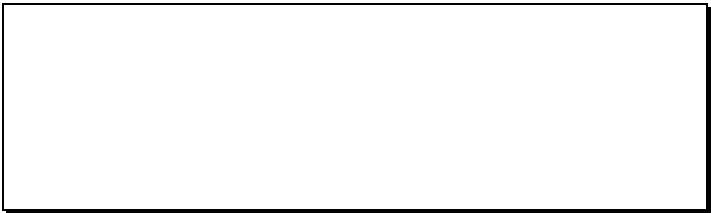




Shop Order-00-10-15: Unclassified

Town of Amherst  
 Greg Jones  
 PO Box 516  
 62 Albion Street  
 Amherst, NS B4H 4A1  
 902-667-6518



**Exp. Date:** 11/29/2016  
**Quote No:** JAMNS-0010      **Job/Order No:** 19432  
**BODY:** 00-10-15      Metalfab Pumper - ULC 05/13

09/06/2017

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PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			<b>== Metalfab Pumper - ULC 05/13 - 0.000 ==</b>	<b>1</b>	<b>MTL</b>
			<b>CHANGE ORDER D</b>	<b>1</b>	<b>MTL</b>
<b>00-00-0020</b>	<b>U</b>		<b>Exceptions to Request for Proposal</b>	<b>1</b>	
00-10-1500			Metalfab Pumper	1	MTL
00-20-1000			Company Profile	1	MTL
00-20-1500			Standard Body Warranty	1	MTL
00-20-1550			Metalfab Limited Ten (10) Year Paint and Corrosion Warranty	1	MTL
<b>00-20-1700</b>			<b>Hale Pump Warranty - 5 years</b>	<b>1</b>	<b>MTL</b>
<b>00-20-1800</b>	<b>S</b>		<b>Polypropylene Tank Lifetime Warranty</b>	<b>1</b>	<b>MTL</b>
00-20-2000			Plant Visits - unlimited at customer expense	1	MTL
00-20-3000			No Bonding Required	1	MTL
00-20-3500			Certification for Fusion Welding of Aluminum	1	MTL
00-20-4000			Quality System registered to ISO 9001:2008	1	MTL
00-20-4500			Fire Apparatus Manufacturers' Association Membership	1	MTL
<b>00-99-0010</b>	<b>U</b>		<b>Warranty work FOB Amherst, NS</b>	<b>1</b>	
			GENERAL INFORMATION	1	MTL
10-11-0000			Intent	1	MTL
<b>10-11-0110</b>			<b>Vehicle data recorder included with chassis</b>	<b>1</b>	<b>MTL</b>
<b>10-11-1100</b>	<b>S</b>		<b>ULC S515-13 and NFPA 1901-016 compliance</b>	<b>1</b>	<b>MTL</b>
10-11-1500		>	ULC Testing - Pumper	1	MTL
<b>10-11-2100</b>	<b>S</b>		<b>Maximum length - 28' or 336"</b>	<b>1</b>	<b>MTL</b>
<b>10-11-2200</b>	<b>S</b>		<b>Maximum height - 9'6" or 114"</b>	<b>1</b>	<b>MTL</b>
10-11-2300			Overall length is less than 30'	1	MTL
10-11-2500			General Construction	1	MTL
10-11-3000			Manuals - two copies	1	MTL
<b>10-11-3600</b>	<b>S</b>	>	<b>Delivery - FOB Fire Department - 62 Albion St, Amherst</b>	<b>1</b>	<b>MTL</b>
<b>10-11-4300</b>	<b>S</b>		<b>Payment Terms - Chassis and Body NET 30</b>	<b>1</b>	<b>MTL</b>
<b>10-20-1400</b>	<b>S</b>	>	<b>Hose capacity exceeding ULC/NFPA requirements</b>	<b>1</b>	<b>MTL</b>
10-20-2000			Equipment carrying capacity - standard ULC Pumper	1	MTL
			CHASSIS INFORMATION	1	MTL
<b>20-11-1000</b>	<b>S</b>	<	<b>Chassis supplied by Metalfab - Spartan Metro Star-X</b>	<b>1</b>	<b>MTL</b>
			Spartan Metro Star X		
			44,000 GVWR 20,000 lb front axle 24,000 lb rear axle		
			171" Wheelbase 117" Cab to axle		
			Allison 3000 EVS automatic transmission, 270 Amp alternator		
			1710 HD drive line series		
			50 US gallon fuel tank, polished aluminum wheels		
			6" bumper extension with apron		
			A/C not requested		
			120 Volt connection (not Auto Eject) over left front wheel		
			Paint to match DuPont Imron Elite N0006EA Commercial		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			White over		
			DuPont Imron Elite N1132EA Commercial Red		
			PPG numbers as follows;		
			PPG FBCH 91776 White		
			PPG FBCH 708720 Red		
			Spay outs will be sent to Customer for approval - provide a copy of confirmation to customer for their files		
20-11-1500			2013 Emission chassis modifications	1	MTL
20-11-1600	S		<b>Chassis Motor Vehicle Inspection not requested</b>	1	MTL
20-11-1700	S		<b>Chassis Motor Vehicle Inspection required - NB</b>	1	MTL
			<b>E</b>		
20-21-0500	S		<b>Fluid capacity plate</b>	1	MTL
20-21-0600			Pumping test plate	1	MTL
20-21-1040			<b>Maximum riders sign - 6 persons</b>	1	MTL
20-21-1510			<b>Seat belt warning labels - 4 door chassis</b>	1	MTL
20-21-1530	S		<b>Tire Pressure Indicators - Single Axle</b>	1	MTL
20-21-1600			Apparatus Information Label	1	MTL
20-21-2000			<b>Non removable key</b>	1	MTL
20-21-2500			Shifter lock not required	1	MTL
20-21-3500			Rear step warning label	1	MTL
20-21-3800			<b>Front mudflaps</b>	1	MTL
20-21-4000			Rear mudflaps - Metalfab Logo	1	MTL
20-31-0100			Fuel tank or step covers not required	1	MTL
20-31-0200			Fuel fill label -Ultra Low Sulfur Diesel only	1	MTL
20-31-1900	S		<b>Chassis cab painted two tone by chassis OEM</b>	1	MTL
20-31-7000			<b>SS nut covers, hub caps and high hats - single axle</b>	1	MTL
20-41-0600			Intake air shutoff for engine not required	1	MTL
20-41-0900			<b>Auxiliary braking system disabled when pumping</b>	1	MTL
20-41-1100			Transmission programming - Allison WT	1	MTL
20-41-1520	S		<b>Extend exhaust pipe - RS rear of rear wheels</b>	1	MTL
			<b>E</b>		
20-41-1900			Battery boost terminals with chassis	1	MTL
20-41-2000			Chassis batteries remain in OEM location	1	MTL
20-41-2550			<b>Fuel fill at LS rear fender well</b>	1	MTL
20-41-2600			Chassis fuel tank remains in OEM location	1	MTL
20-41-5000			Rear Tow Hooks - under body	1	MTL
20-51-0700			<b>Master Battery Disconnect included with chassis</b>	1	MTL
20-51-2700			<b>Back up alarm - self adjusting</b>	1	MTL
20-51-3400			Protection valve installed for air operated accessories	1	MTL
20-51-4000			<b>Auto eject for air inlet - LS</b>	1	MTL
20-51-5600			<b>Flashing headlights w/ daytime running lights</b>	1	MTL
20-51-6501	S		<b>Kussmaul Battery Charger ordered with chassis</b>	1	MTL
20-51-7102			<b>Electric System Manager included with chassis</b>	1	MTL
			<b>E</b>		
20-51-7500	S <		<b>Super Auto eject for 120 v - 20 A with sealed enclosure</b>	1	MTL
			Exchange with original non eject style connection provided with chassis		
20-51-9001	S		<b>Air horns ordered with chassis</b>	1	MTL
20-52-3500		>	<b>Chassis steering wheel lined up by Metalfab</b>	1	MTL
			<b>E</b>		
20-60-0400			Chassis wheelbase does not change	1	MTL
20-99-15AA	U <		<b>Installation of Spartan rear view camera</b>	1	
			Include an aluminum treadplate shield/guard over the rear view camera.		
			If possible wire so the audio is rendered inoperative		
			SOPT 1056		
20-99-25AA	U <		<b>Binder storage on right side of dog house</b>	1	
			Binder storage 10" wide x 7" high under officer seat to match		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			last truck - photo to be provided by Sales		
			SOPT 166		
			PUMP AND PLUMBING	1	MTL
30-11-8100			Hale QMAX 1250 IGPM single stage pump	1	MTL
30-12-3400			Packing for Hale QMID/QMAX/QTWO pumps	1	MTL
30-15-0104			Plumbing - Hale manifold pump SM SS	1	MTL
30-20-0500			Valves and controls - side mount panel	1	MTL
30-20-1001	S		Valve brand - Hale stainless steel	1	MTL
30-20-1600			Piping stainless steel - general	1	MTL
30-20-1700	S		1-1/2" thread specifications NPSH	1	MTL
30-20-1800	S		2-1/2" thread specifications 3.234 x 5 NSST - NS Standard Thread (NSZ1)	1	MTL
30-20-2000			Piping hydrostatic test	1	MTL
30-20-2500			Anodes in suction and discharge piping	1	MTL
30-21-5560	S		Tank to Pump SS 3" w/ check valve manifold pump	1	MTL
30-22-0520	S		Tank Fill valve 2" SS	1	MTL
30-31-4010			Suction - 6" not gated each side manifold pump	1	MTL
30-32-7530	S		Suction - 2-1/2" left side SS, bleeder, Hale manifold pump	1	MTL
30-32-8030	S		Suction - 2-1/2" right side SS, bleeder, Hale manifold pump	1	MTL
30-40-2020	S		4" right discharge SS, plumbed 3", Hale manifold pump	1	MTL
30-41-2020	S		2-1/2" RS discharge SS, bleeder, Hale manifold pump	1	MTL
30-41-2520	S		2-1/2" LS discharge SS, bleeder, Hale manifold pump	2	MTL
30-43-1520	S		2-1/2" rear discharge SS, plumbed 2-1/2", bleeder	2	MTL
30-44-0520	S	<	1-1/2" crosslay (each) SS, 2" valve, bleeder	2	MTL
			200' of 1.75" per crosslay. The bottom of the crosslay is to be as low as possible.		
			Both Crosslays are foam capable		
30-44-6520	S		Piping for monitor SS, plumbed 3", bleeder	1	MTL
30-51-0500			Pump shift-Midship air	1	MTL
30-51-0700			Pump Gearbox mounted manual over ride for pump shift	1	MTL
			E		
30-51-1500			Power shift PTO - Automatic transmission	1	MTL
30-51-1501			PTO driveshaft	1	MTL
30-51-6640			Class One "TPG Plus" Governor/Throttle	1	MTL
30-51-7000	S		Suction side relief V/V, manifold pump - Elkhart Style 40	1	MTL
30-51-7700			Primer Hale oil less ESP with oil tank Hale	1	MTL
30-51-8100			Heat exchanger included with chassis	1	MTL
30-51-9100			Thermal Relief Valve with warning light	1	MTL
30-52-1000			Master drain V/V, 12 port	1	MTL
30-52-2000			Drain valve for foam system header	1	MTL
30-52-5610			Foam system-Hypro FoamPro 2001 Dual Tank	1	MTL
30-52-6500			FoamPro dual tank selector valve (manual)	1	MTL
30-52-9200			Foam System Instruction Plates	1	MTL
30-52-9400			NFPA Foam System certification test	1	MTL
			WATER AND FOAM TANKS	1	MTL
40-11-2100	S		Polypropylene water tank (Imperial gallons)	1	MTL
40-11-2200			Water tank capacity certification (tank manufacturer)	1	MTL
40-11-7601	S		Tank capacity special - 600 Imperial Gallons	1	MTL
40-12-4500			Foam cell - 20 Imperial gallon	2	MTL
40-21-0500			3" tank to pump connection	1	MTL
40-22-0500			2" tank fill connection	1	MTL
40-23-0500			1" water level gauge connection	1	MTL
40-23-1000			1" foam level gauge connection	2	MTL
40-30-0400			3" plug in sump box	1	MTL
40-30-1000			Water Fill Box front left corner	1	MTL
40-31-0400			Rear dump valve not requested	1	MTL
40-31-6050			Rear fill not requested	1	MTL
			ELECTRICAL	1	MTL

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
50-11-0500			Base electrical system	1	MTL
50-11-0600			Warning Light Certification	1	MTL
50-11-0700			Low Voltage Electrical system test	1	MTL
50-11-0800			Low Voltage Electrical System Documents	1	MTL
50-11-0900			<b>Rocker switch panel with master warning switch</b>	1	MTL
50-11-2010	S	<	<b>Federal Q2B mechanical siren - through front grille</b>	1	MTL
			Q2B to be installed through the front grill		
			***Controlled by foot switch at both driver and officer positions.		
			Provide a cable on the chassis inspection door above Q2B so it will not hit the Q2B		
50-11-2600			<b>Siren to be accessible to driver and officer</b>	1	MTL
50-11-5002	S	<	<b>Special Light Bar - Whelen Freedom IV series Rota-Beam</b>	1	MTL
			See SOPT in file for the lightbar configuration		
			Whelen Freedom Series (Roto-Beam) LED light bar, red/clear, mounted on cab roof.		
50-11-6501			Rear Directional Light not required	1	MTL
50-11-86AA	U	<	<b>Whelen R416RF Rear Beacons - Rota-Beam (pr)</b>	1	
			SOPT 1076		
50-12-8521			<b>Front flashers, intersection lights included with chassis, Whelen 600</b>	1	MTL
50-12-86AA	U	<	<b>Rear LED flashers (pr) Whelen amber LED 600 with interal flasher</b>	1	
			Mounted high as shown on the proposal drawing		
			SOPT 951a		
50-12-8810	S		<b>Body side inter lts (pr)-Whelen red LED 600 with integral flasher</b>	1	MTL
50-12-90AA	U	<	<b>Whelen 500 LED flasher - red (pr) in rub rail</b>	2	
			SOPT 40		
			One in Zone B and one in Zone D		
50-21-1100	S		<b>Hand held spot light, cab mounted</b>	1	MTL
50-21-1500			Rear floods (pr)-Unity	1	MTL
50-21-5100		>	Compartment lighting - LED tube lights in each compartment (rollup doors)	1	MTL
50-21-5500			<b>Door Ajar warning light</b>	1	MTL
50-21-8001			<b>Step lights for body steps - 4" LED</b>	1	MTL
50-21-8600			LED clearance lts and reflectors	1	MTL
50-21-90AA	U	<	<b>License plate holder with LED light</b>	1	
			Cast Products - Metalfab p/n 1562640		
			SOPT 18		
50-22-0750	S		<b>Whelen 64 LED CAST 4V tail/brake-turn-backup-warning module (pr)</b>	1	MTL
50-31-4088	U		<b>6 KW Smart Power Hydraulic Generator</b>	1	
50-31-6505			<b>Ground lighting included with chassis</b>	1	MTL
50-31-6620			<b>Ground lighting (4" LED) - side mount body</b>	1	MTL
50-35-0565			<b>VHF antenna with base - custom chassis (thick roof)</b>	1	MTL
50-35-0595	S		<b>Cellular/TMR antenna with base - custom chassis (thick roof)</b>	1	MTL
50-99-0010	U		<b>250A Bussman fuse for Metalfab electrical system</b>	1	
50-99-05AA	U	<	<b>FRC 750-watt, 120 volt telelight, FCA530-S75-ON-RB-SR</b>	2	
			Quartz Halogen Focus head		
			RS to be installed on back of cab		
			SOPT 614		
			LS to be traded for a 30214 Go Light same as North River plus a flood light overlay to change beam from 8 degree to 30 degree. This light to be mounted on the LS rear of pump		

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			house on a raised mount so that the maximum height of the light is 11'. Remote control to be mounted on the pump panel.		
51-31-3020	S	< >	<b>240 volt wiring for hydraulic generator - GFI breakers</b> GFI breakers Mount breaker panel low on front wall (next to pump panel) of front LS compartment to match previous unit. Two (2) NEMA L5-20-R 20 Amp with weatherproof covers - One each side at the wheel wells (120 v - 1440 watts per plug) One (1) NEMA L5-20-R 20 Amp with weatherproof cover - One right side pump panel (120 v - 1440 watts per plug) One (1) NEMA L6-20-R 20 Amp with weatherproof cover - One left side pump panel (240 v - 2880 watts per plug) One (1) circuit for 50-99-05AA 750 watt flood Note that Neutral is bonded to chassis ground.	1	MTL
51-31-4500			<b>Dielectric strength test for line voltage system</b> BODY	1	MTL
60-10-1400			Single axle extruded aluminum body	1	MTL
60-10-4100			No "beavertail" rear step supports	1	MTL
60-10-4500			<b>Aluminum tread plate fender surround - single axle</b>	1	MTL
60-10-4700			Integral aluminum fender trim	1	MTL
60-10-5400		>	Diamondback pumphouse steps	1	MTL
60-10-5450		>	<b>Diamondback 10" rear step</b>	1	MTL
60-10-6500			<b>Bolt on extruded aluminum rub rail</b>	1	MTL
60-11-0300		>	<b>Eront left side compartments full height</b> E	1	MTL
60-11-0700		>	<b>Front right side compartments full height</b> E	1	MTL
60-11-1000		>	<b>Rear left side compartments full height</b> E	1	MTL
60-11-1400		>	<b>Rear right side compartments full height</b> E	1	MTL
60-11-2000		>	<b>High side compartment (over 18") each</b>	2	MTL
60-11-3200		>	Full Height Rear compartment	1	MTL
60-11-5500			<b>Rollup door - standard height</b>	2	MTL
60-11-5520			<b>Rollup door - full height</b>	5	MTL
60-11-5530			<b>Rollup door - to enclose pump panel</b>	1	MTL
60-31-4100	S	<	<b>Extruded aluminum handrails</b> One handrail mounted vertical each side of rear compartment One handrail mounted horizontally, above the RS pump panel as long as possible. One handrail mounted horizontal under the hose bed Minimum 2" clearance from handrail to any surface	1	MTL
60-31-55AA	U	<	<b>Lighted folding steps</b> Metalfab Standard On rear of body - each side Right side pump panel only - LS has a roll up door	1	
60-31-6500			Compartment matting-Turtle tile	1	MTL
60-31-80AA	U	<	<b>BA bottle compartment (double) in fender well (ea)</b> Cast Products - Metalfab p/n 1002962 - similar to M16-18977 SOPT 820 Total of 6 SCBA cylinders to be stored - one pair forward in LS rear fender (fuel fill rearward), one pair forward in RS rear fender, and one pair rearward in RS rear fender Customer to provide information of their SCBA cylinders Make - _____ Model - _____ Diameter - _____	4	

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			Over all length - _____		
60-31-8800	< >		<b>Sliding tray (ea) - 600 pound capacity</b> To be installed in the rear compartment	1	MTL
60-31-9600	S < >		<b>Adjustable shelf (ea)</b> 2 full depth in front LS compartment 1 full depth in front RS compartment 1 shallow in front RS compartment 1 shallow in second RS compartment over rear wheels 1 full depth in rear compartment Reflective stripe is applied on the exposed edge for visibility when the compartment door is open	5	MTL
60-32-3550			<b>Two adjustable hose divider (each)</b>	1	MTL
60-32-7500	S <		<b>Hose bed - aluminum</b> Hose bed capacity to be minimum 500' x 4" and 150' x 2-1/2", maintain the current hose bed dimensions	1	MTL
60-33-0100			<b>Paint exterior - Imron Elite and clearcoat</b> <b>E</b>	1	MTL
60-33-0200			Undercoat vehicle with KROWN rust protection	1	MTL
60-33-0600			<b>Chassis wheels not painted</b>	1	MTL
60-33-1000			Paint pump and plumbing job colour	1	MTL
60-33-1500			Buffed finish compartment interior	1	MTL
60-33-2200	S <		<b>Lettering - \$1000 budget</b> Lettering to match previous unit (customer to provide door crest for rear cab door) Provide a 1/2" gold stripe between the red and white on the chassis cab to match previous unit	1	MTL
60-33-3200	S		<b>Reflective stripe - 1" - 4" - 1" white, gold at cab paint break</b>	1	MTL
60-33-3300	S		<b>Reflective stripe - special graphics - Diamond Grade Chevrons</b>	1	MTL
60-33-3500			Tarp over hose bed - black	1	MTL
60-33-4600			Aluminum cover over crosslays - with end tarps (black)	1	MTL
60-40-4500	S <		<b>6" Hose tray - side mount (ea) with tread plate scuff plate</b> Aluminum tread plate scuff plates	2	MTL
60-40-9000	< >		<b>Tube mount for ladders, with rear door</b> Rear right side of truck Storage for 24' two section 80-14-0500, 14 ' roof 80-14-5500, and 10' attic ladder 80-14-8500. Access door shall be smooth painted plate with chevron material applied.	1	MTL
60-41-1000	<		<b>Pike Pole tube with door</b> Rear left side of truck for two (2) D-handle 4' pike poles 80-13-2520 and one (1) 8' pike pole 80-13-2500 Compartment to have an aluminum deck plate door ***Note: Special configuration for pike poles with "D" handles***	1	MTL
60-41-1500	<		<b>Attic ladder tube with rear door</b> Rear right side of truck incorporated with 60-40-9000	1	MTL
60-99-05AA	U <		<b>Gear compartments</b> Compartment locations: Left rear side and right rear side compartments Shall have one (1) fixed horizontal divider 20"(inches) up from the bottom of the compartment, followed by one (1)	2	

PART NO	S	STN CODE	DESCRIPTION	QTY	ID
			fixed horizontal divider 20"(inches) up from the first fixed horizontal divider and one (1) full length vertical fixed divider creating two (2) equal compartments per shelf, approx. 15"(inches) wide x 20"(inches) high x 12"(inches) deep (Minimum). Each compartment shall have a total of six (6) divided compartments. SOPT 320 Customer has approved arrangement shown on proposal drawing		
			INSTRUMENTATION		
70-11-0000			Warning Label on Pump Operator's Panel	1	MTL
70-11-0501			<i>Side mount instrument panel with rollup door LS only</i>	1	MTL
70-11-1500	S		<i>Stainless steel instrument panels, RS hinged</i>	1	MTL
70-11-3200			<i>Colour coded tags</i>	1	MTL
70-11-4500	S		<i>Diamondback grip type panel hood step right side</i>	1	MTL
70-11-5100			<i>Open storage at rear top of pump house</i>	1	MTL
70-11-5500			<i>Right side tread plate pump access door</i>	1	MTL
70-11-7500			<i>Heat pan-aluminum</i>	1	MTL
70-11-8000			<i>Heater in pump compartment</i>	1	MTL
70-20-1500			<i>2-1/2" pressure gauge - dual face 0-600</i>	9	MTL
70-20-2500			<i>Primer control</i>	1	MTL
70-20-3100			<i>Class One Governor Control</i>	1	MTL
70-20-3500			Electric water level gauge on pump panel, Class One	1	MTL
70-20-6500			Test gauge panel	1	MTL
70-20-7500			<i>Heat exchanger control valve</i>	1	MTL
70-21-1500	S		<i>Electric Foam Level gauge on pump panel, Class One</i>	2	MTL
70-99-0010	U		<i>Pull out step under LS pump panel</i>	1	
			ACCESSORIES		
80-11-5000			<i>6" x 10' lightweight suction hose (ea)</i>	2	MTL
80-12-2500			<i>6" barrel strainer</i>	1	MTL
80-13-0500			<i>Rubber mallet</i>	1	MTL
80-13-2500	S		<i>Pike pole, fibreglass handle - 8' long</i>	1	MTL
80-13-2520	S		<i>Pike pole, fibreglass handle - 4' long - "D" handle</i>	2	MTL
80-14-0500			<i>24' 2 section extension ladder PEL 24</i>	1	MTL
80-14-5500			<i>14' aluminum roof ladder PRL-14</i>	1	MTL
80-14-8500			<i>10' aluminum folding attic ladder FL-10</i>	1	MTL
80-19-0500	S		<i>Large folding wheel chock - aluminum (ea)</i>	2	MTL
80-19-0600	< >		<i>Horizontal bracket for folding wheel chock (ea)</i> Mount under the L1 compartment	2	MTL
80-99-0010	U		<i>Touch up paint, 1 pint each red and white</i>	1	
80-99-15AA	U <		<i>TFT Hurricane monitor and riser</i>	1	
			1521669 - XFIH-E11A Hurricane RC Monitor		
			1521671 - Y4E-RP Panel mount controller		
			1521672 - M-ERP1250NJ Master stream Nozzle 1250 GPM		
			1521670 - XGA38VL-RL Extend-A-Gun		
			1521673 - XGB-33 Saddle brackets for Extend-A-Gun		
			SOPT 933		