

City of Longmont - Purchase Request

PO Number: 304167

PR Number: 80764

Vendor Information		Ship To	
Suggested Vendor	PIERCE MANUFACTURING	Company	City Of Longmont
Vendor Number	33891	Division	Fleet
Attention		Attention	Bruce Mayhills
Street1	ATTN: JEFF RESCH	Location	Fleet Operations
Street2	2800 AMERICAN DRIVE	Street1	1100 S. Sherman Street
City, ST Zip	APPLETON, WI 54912	Street2	
Telephone	0	City, ST Zip	Longmont, CO 80501
Extension		Telephone	303-651-8337
Fax	0	Fax	303-651-8556

Deliver By Date 03/12/2005 Shipping Terms Net 30 Buyer Code 20 - RB SIMMONS		Terms and Delivery Information FOB Destination Merch Rcvd No
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Line	Account - Object	Qty	Description (Limit to 80 characters)	UOF	Unit \$	Extended \$	Project	Task
1	91091049101 - 432	1	Pierce Dash 100' Stock Platform per Job #14635	EA	650000.00	650,000.00		
2	10012042202 - 432	1	13740.00 Split of Line Item #1 less prepayment discount of \$9,074.00	EA	13740.00	13,740.00		
3	10012042202 - 432	1	Options from list dated 7/8/03 @ 5:33pm from Marc Faluotico	EA	43238.94	43,238.94		
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					Subtotal	\$706,978.94		
					Total	\$706,978.94		

Item Notes: IAW RFP #3516/Pierce Proposal Dated July 10; 2003. Replacement for unit #52169

Standard Comments: 01 16 40

General Comments: (Limit to 40 characters - the current length is: 0)

Unit # 52173

LONGMONT FIRE DEPARTMENT

OPTIONS:

<u>Option:</u>	<u>Cost:</u>
1) Change Mechanical Siren from Eagle to Federal EQ2B	<\$460>
2) Add Striping As Specified on Page 10	\$700
3) Add 12" Lettering To Aerial Boom Panels	\$1,200
4) Change Fuel/Water Filter to Racor Inline	<\$200>
5) Change to ABS/ATC Braking System	\$1,326
6) Change Front Wheels To Steel	<\$1,426>
7) Change Rear Wheels to Steel	<\$2,600>
8) Add Two (2) Akron 7980 Piston Intake Valves	\$1,850
9) Add Four (4) Floor Mounted (Two Sides), 500lb Trays	\$2,200
10) Add Pike Poles as Specified	\$350
11) Add Opticom #792 On Cab Front	\$2,306
12) Change 10kW Harrison to 20kW Harrison Generator	\$10,000
13) Add Two (2) L14-30, 220V, 30amp Outlets In Front Bulkheads	\$700
14) Add One (1) Erickson Perma-Tite #2930FS20, 220V, 30amp In Bucket	\$261.94
15) Add Fire-Com 8-Position Communication System At Pierce	\$5,700
16) Add Fire-Com Radio Interface Cable	\$388
17) Add 2 nd Breathing Air Cylinder, 4500psi	\$1,745
18) Add Two (2) Scott AV2000 Respirators	\$1,526
19) Add "As Built" Electrical Diagrams	\$6,556
20) Add DDEC Pro-Link Cartridge	\$1,770
21) Add Transmission Pro-Link Cartridge	\$1,330
22) Add ABS Pro-Link Cartridge	\$821
23) Delete 12/3 Electrical Cord on Two (2) Cord Reels	<\$1,060>
24) Change Cord Reel to 4-wire Hannay 1600 (\$300 per reel)	\$600
25) Add 48" High EMS Compartment w/ One (1) Grotite Roll-up Door	\$313
26) Add Three (3) Shelves w/ Light Brackets to EMS Compartment	\$513
27) Add 6-place Power Strip, Attached To Shoreline In EMS Compartment	\$210
28) Add On-Spot Tire Chains	\$2,863
29) Add "LONGMONT FIRE", 3" White Reflective	\$540
30) Add "CALL 911", 12" Red Reflective	\$40
31) Change Ladder Compliment to:	\$3,176
- one (1) 50' Duo-Safety w/ Tormentor poles (\$2,309)	
- one (1) 28' Duo-Safety (\$779)	
- one (1) 16' Roof Ladder, mounted on Fly section (\$348 Ladder, \$319 Mounting)	
- one (1) 17' Little Giant Folding Ladder, Mounted on DS Compartment (\$928)	
- one (1) 10' Folding Ladder (Included)	
- Credit of \$1,507 For Existing Ladders Already Deducted	

Total: \$43,238.94



Component List

308

9/11/2003

Customer: Pierce Stock/Demo II
 Representative: ~~John Smith~~
 Organization: Pierce Manufacturing Inc
 Contract Admin: Rothe, Craig
 Description: 100' Platform Stock/Demo
 Body: Aerial, Platform 100', Alum Bo
 Chassis: Dash-2000, Chassis, PAP/SkyArm

Bid Number: 5018
 DB Version: 200025
 Bid Date: 2/13/2003
 Job Number: 14635TR

Line	PRIDE #	Type	Component	Qty
1	0000003		Boiler Plates, Aerial 100' Platform	1
2	0018180		Single Source Compliance (Aerials)	1
3	0028079		Match Not Required	1
4	0015918		Comply NFPA 1901 Changes Effective Jan 1, 2000	1
5	0012771		Stock/Demo No Fire Department	1
6	0020748		Quint Fire Apparatus	1
7	0000007		Approval Drawing	1
8	0030008		Warranty, Custom Chassis	1
9	0030005		Bid Bond, 10%, Pierce Built Chassis	1
10	0070220		Dash-2000, Chassis, PAP/SkyArm/Midmount	1
11	0000109		Seating Capacity, Cab	6
12	0000110		Wheelbase	1
			Wheelbase - 257.00	
13	0000070		GVW Rating	1
			GVW rating - 76,800	
14	0000203		Frame Rails, 13.38 x 3.50 x .375, DLX/Qtm/Enf/AXT	1
15	0024856		Frame Liner, Inv "L" 12.68" x 3.00" x .25", DLX/Qtm/Enf	1
16	0018453		Axle, Front, Oshkosh TAK-4, Non Drive, 22,800 lb, DLX/Enf/Qtm/AXT	1
17	0000322		Oil Seals, Front Axle	1
18	0030260		Shock Absorbers on "IS", DLX/Qtm/AXT	1
19	0010461		Axle, Rear, Meritor RT52-185, 54,000 lb	1
20	0000469		Top Speed of Vehicle	1
			Top Speed of Vehicle - 64 to 67	
21	0000485		Oil Seals, Rear Axle	1
22	0010427		Suspension, Front TAK-4, 22,800 lb, DLX/Enf/Qtm/AXT	1
23	0010563		Suspen, Rear, Dynalastic 202S, 54,000 lb	1
24	0010674		ABS/ATC Wabco Brake System, Tandem rear axle	1
25	0030185		Brakes, Knorr/Bendix 17", Disc, Frt, TAK-4, DLX/Enf/Qtm/AXT	1
26	0000730		Brakes, Meritor, Cam, Rear, 16.50 x 7.00"	1
27	0001236		No Auxiliary Brake Req'd, Alt. Aux. Brake Selected	1
28	0070784		Air Compressor, Brake, Bendix 16.5 CFM	1
29	0000789		Brake Reservoirs, Five	1
30	0010787		Air Dryer, Wabco System Saver 1200	1
31	0000790		Brake Lines, Nylon	1
32	0000854		Air Inlet, w/Disconnect Coupling	1
			Location, Air Coupling(s) - a) DS Step Well	
33	0014130		Air Tank, Additional for Extra Air Horn Capacity	1
34	0070810		All Wheel Lockup (Aerial/Tanker Chassis)	1
35	0049983		Engine, DDC Series 60, 14.0L 500 hp, 1650 Torque, DLX, 2002	1
36	0031055		Air Intake, w/Ember separator, DLX	1
37	0002880		Exhaust System, 5" Std.	1
38	0001096		Chrome Exhaust Extension, w/Elbow	1
39	0049772		Insulation, Exhaust Blanket, Delivery Pipe	1

Line	PRIDE #	Type	Component	Qty
40	0051353		Access, Fluid Checks, Eng/Trans, Inside Cab, DX	1
41	0035723		Clutch, Fan, Air Actuated, Horton Drive Master, 2002, DLX/AXT	1
42	0031231		Diagnostic Card/Adapter, DDEC III/IV, Pro-Link	1
43	0031228		Diagnostic Cartridge, Wabco ABS/ASR, Pro-Link	1
44	0031227		Diagnostic Cartridge, World/WTEC II & III, Pro-Link	1
45	0001332		Fuel/Water Separator, Racor Inline	1
46	0001244		High Idle w/Electronic Engine, Custom	1
47	0001091		Cooling Hoses, Silicone - Custom	1
48	0011104		Radiator, DLX/Enf	1
49	0001125		Fuel Tank, 65 gal	1
50	0001129		Lines, Fuel	1
51	0023745		Cooler, Chassis Fuel	1
52	0001280		Fuel Pump for Repriming	1
53	0001292		Shutoff Valves (2), Fuel Line @ Filter	1
54	0044977		Trans, Allison 4000 EVS PR	1
			Trans. retarder capacity - e. medium/1600, 4000 EVS	
			Trans, retarder control - 1) Auto 1/3, 2/3, 3/3	
55	0011477		Transmission, Shifter, 5-Spd, Push Button	1
			Trans, ratio - 4000 EVS, 5Spd	
56	0001476		Transmission Oil Cooler, External, w/Retarder	1
57	0046369		Warranty, 5-year EVS Transmission, Standard Custom	1
58	0027844		Fluid, 4000 Series Transmission, TranSynd synthetic, IPOS, Custom	1
59	0001375		Driveline, Spicer 1810	1
60	0030179		Steering, Sheppard M110 w/tilt, TAK-4, DLX/Enf/Qtm/AXT	1
61	0031621	✓	Tires, Michelin, 425/65R22.50 20 ply XZY tread	1
62	0001656	✓	Wheels, Frt, Steel 22.50" x 12.25" (385/425)	1
63	0031841	✓	Tires, (8) Michelin, 12R22.50 16 ply, XZE	1
64	0001903	✓	Wheels, Rr, Steel 22.50" x 8.25" (12R22.50)	1
65	0003245	✓	Axle Hub Covers w/center hole, S/S, Front Axle	1
66	0013241	✓	Axle Hub Covers, Rear, S/S High Hat (Tandem)	1
67	0002000	✓	Chains, Onspot automatic tire, Custom	1
68	0013769		Chocks, Wheel, Folding, Mtd, (2) pair	1
			Location, Wheel chock - under engineers compartment	
69	0002045	✓	Mud flaps, w/logo front & rear	1
70	0032055	✓	Cab, Dash-2000, 67" w/10" Raised Roof	1
71	0032100	✓	Floor, Rubber Padded Cab & Crew Cab - DLX/Enf/AXT	1
72	0052102		Window, Side of C/C, Fixed, Sab/DLX/Enf/AXT	1
73	0012090		No Windows, Front/Side of raised roof	1
74	0002101		Windows, Rear CC, (2) 8" x 14"	1
75	0002115	✓	Controls, Electric Roll-Up Windows, Frt Pr, Custom Chassis	1
76	0002134	✓	Controls, Electric Roll-Up Windows, Rr Pr, Custom Chassis	1
77	0032099		Tint, Windows, Crew cab ?	1
78	0042583	✓	Compt, EMS, Center, Frwd Facing, 48" H, DX/Enf/Qtm/Sab/CC/AXT	1
			Door, EMS Cabinet - Gortite Roll Up Dr, no lock	
79	0042265	✓	Shelf, Adj, EMS Compt, w/Light Bracket	3
			Location - in the EMS compartment	
80	0072143	✓	Locks, Keyed Cab Door, Exterior only	1
81	0012084	✓	Notch, Raised Roof, 56" square DLX/Enf/AXT	1
82	0005772	✓	Fenders, S/S on cab, w/Radius corner, 2.00" wide	1
83	0022233	✓	Scuffplate, Brushed S/S, Rear of Engine Tunnel	1
84	0002224	✓	Scuffplates, S/S At Cab Door Jamb	1
85	0032508	✓	Trim, s/s band across cab face	1
			Material Trim/Scuffplate - e) S/S, Patterned	

Line	PRIDE #	Type	Component	Qty
86	0022172		✓ Cab Lift, Elec/Hyd, DLX	1
			Location, Cab Lift Recept - a) Frt Face of Bumper (std)	
87	0022188		Mirrors, Velvac #2025 w/bolt on convex, htd & Rem	1
88	0012245		Bumper, 19" extended - all chassis'	1
89	0012225		Gravel Pan, Extended Bumper	1
90	0002268		Rods, Sight on Bumper, Bores, model BG48-10	1
91	0012354		✓ Strap, Black Nylon Hold-down, Velcro, Hose Tray	1
			Location - passenger side front bumper extension	
92	0012222		✓ Tray, (1) Hose Right Side of Bumper	1
			Capacity, Bumper Tray - 07) 100' of 1.50"	
			Grating, Bumper extension - Grating, Rubber	
93	0002270		Tow Hooks, Chrome	1
94	0052275		✓ Cab Interior vinyl - DLX	1
			Color, Cab Interior Vinyl - a) Silver/Gray	
95	0012430		Cab Interior, paint color	1
			Color, Cab Interior Paint - d) red	
96	0022343		✓ Seat, Driver, HO Bostrom, Sierra 100RX, Air, DLX/Enf/Qtm	1
97	0021858		✓ Seat, Officer HO Bostrom Tanker 450 Air Ride, w/SCBA, Qtm/DLX/Enf	1
98	0002517		(No Radio Compartment)	1
99	0082372		✓ Seats, (2) C/C, Bos 400CT Rear Fc, w/SCBA, Outbrd	1
100	0012398		[No Pick Required]	1
101	0007968		✓ Upholstery, Seats In Cab, All Dura-Wear, Bostrom	1
			Color, Cab Interior Vinyl - c) Black	
102	0072358		✓ Bracket, Air Bottle KD-UH-6-SFCRS, In Cab Seats	1
103	0004431		Inserts, Back Rest For Bostrum SCBA Seats	5
104	0021754		✓ Seat, Belt, Height Adjustment, DLX	1
105	0019914		Warranty, Cab (Sab/DLX/Enf/AXT/Qtm w/fixed step)	1
106	0002526		Light, Engine Compt, All Custom Chassis	1
107	0022733		✓ Lights, Cab Inter, Officer and Driver Side, w/Weldon Dome Lights	1
108	0018318		Lights, Weldon, Dome, (4), C/C, Red/Clear	1
109	0012288		✓ Heater/defroster, DLX/Enf	1
110	0002301		✓ Heater, Crew cab Sab/Qtm/DLX/Enf	1
111	0047687		✓ Air conditioning, DX/Enf, 10" Raised Roof w/notch, DS Condenser, Std '99 AC Pkg	1
112	0092557		Cab Instruments, DLX	1
113	0018987		Air Restriction Indicator - DLX	1
114	0012630		Wiper control, 2-speed w/intermittent, DLX/Enf/AXT	1
115	0002565		Hourmeter, Aerial Inside Cab	1
116	0002615		Switch, Aerial 12V Master	1
117	0002617		PTO switch, w/light - aerial	1
118	0057521		Radio, Panasonic w/CD and NOAA Weatherband	1
			Antenna, AM/FM Radio - c) Roof-mounted rubber antenna	
			Location, AM/FM Radio - d) heavy duty swivel bracket	
			Speakers, AM/FM Radio - e) Three (3) pairs of speakers	
			Remote for AM,FM Radio - w) without remote control	
119	0002549		Switching, Cab Instrument & Overhead, Membrane Sw	1
			Location, Emerg Switch - a) driver's	
120	0035738		Pierce Command Zone, Advanced Electronics and Control System, DLX	1
121	0048697		Intercom, Fire-Com 3010, 8-Pos, 4-Radio, D,O,2C,P,T,2B	1
			location, intercom, C Cab - b) rearward facing seats	
122	0006240		Fire-Com Radio Interface Cable	1
			Radio, Two-Way Make/Model - Motorola MC2000-II	
123	0022853		Antenna, Mount Only, For 2-way Radio Std, DLX/Enf/AXT	1
124	0072104		Roof, Alum 4-way (Aerials)	1

Line	PRIDE #	Type	Component	Qty
125	0003348		Batteries, (6) Douglas Grp 31, 950 CCA each, SAE Post	1
126	0008621		Battery System, Single Start, All Custom Chassis	1
127	0042699		Battery Compartment, DX/Enf	1
128	0012707		Charger, Sngl system, Kussmaul Auto Charge 1200	1
129	0012779		Location, Charger, In Seat Box, "All Custom Chassis"	1
130	0072719		Kussmaul "Super" Auto-Eject Recep, 20A (batt chrg)	1
			Location - rear of crew cab door driver side	
			Color, Kussmaul Cover - b) red	
131	0012683		Trays, Battery Box, Poly w/drains, Pair	1
132	0035726		Alternators, Dual System, 540 amp, Leece-Neville, Series 60 2002, DLX/AXT	1
133	0012744		Cigarette Lighter and Plug	1
			Location - between driver and officer interior cab	
134	0092582		Load Manager/Sequencer, DLX	1
			Enable/Disable Hi-Idle - e)High Idle enable	
135	0024056		Amp Draw Report, NFPA 1999 Addition	1
136	0002758		Amp Draw, NFPA Radio Allowance	1
137	0040262	PSC	Cab Lighting, Platform, (2) Side Cab, (5) Platform	1
138	0041213		Front Directionals, Whelen 600, LED or Halogen	1
			Light, Directional - a)arrow shape LED	
			Location, Front Direction - b)below the headlights	
139	0044697		Light, Front Zone Lower, Whelen 600 LED Red, 2-pair	1
140	0002790		Daytime Running Lights, Headlights	1
141	0042913	PSC	Light, Directional, Whelen, 600 LED, Populated, In Addition To	1
			Location, lights - EACH SIDE ON THE BACK OF THE ENGINEER COMPARTMENT.	
142	0005910		Alarm, Back-up Warning, ECCO SA917-PM2	1
143	0031972		Manuals, Two (2), Fire Apparatus Parts, Custom Chassis	1
144	0002905		Manuals, Two (2) Chassis Service, Custom	1
145	0032433		Manuals, Two (2) Chassis Operation, Custom	1
146	0038115		Electrical Diagrams, 12V As-Built on CD, Custom Chassis HDR/Aerial	1
			Diagrams, Hard Copy - No hard copies	
			Mult Trk Cr, Cust HDR/Aer - Single Truck Order	
147	0022153		Aerial, Platform 100', Alum Body	1
148	0014926	PSC	Tank, Water, 300 Gallon, Poly, PAL/ PAP, "L"-Shaped	1
149	0003405		Overflow, 4" Water Tank, Poly	1
150	0028107		No Foam Cell	1
151	0003401		Warranty Lifetime, UPF	1
152	0003429		No Direct Tank Fill Req'd	1
153	0031444	PSC	Alum Hose Bed, Skyarm Trough Style, (PAP)	1
			Location, driver's/passen - passenger's	
154	0003491		Hose bed Capacity 1000' of 5.00" (PAP/PAL/SkyArm)	1
155	0003509		Running Boards (PAP)	1
156	0003526		Turntable Steps-Morton Cass (PAL, PAP, SkyArm Std.)	1
157	0029503		Tow Eyes (2) (Aerial)	1
158	0013639		Construction, Compt, Alum (PAP)	1
159	0033598		Eng Compt, Trans, Full-Width, Lap Dr	1
160	0008938		Compt, DS F/H,F/D, Lift Drs,w/o Chute, 100' PAP	1
161	0001810		Compt, DS Turntable, F/H F/D, PAP	1
162	0023672		No Compt IPO Stairs Required @ DS	1
163	0000539		Compt, PS F/H, Lift Drs,100' PAP	1
164	0000701		Compt, PS Turntable, F/H, PAP	1
165	0023673		No Compt IPO Stairs Required @ PS	1
166	0023915		Doors, Lap w/"D" Handles - Side Compts	1
167	0018820		Bumper, Rear, 5" w/Treadplate Cover, PAP/PAL/SkyArm	1

Line	PRIDE #	Type	Component	Qty
168	0026026		Scuffplate, S/S Around Fuel Fill Opening	1
169	0003918		Pull Strap for Doors	2
			Location, Door Accessory - each lift-up door	
170	0021603		Scuffplate, Brushed S/S Bottom of Door Frame	8
			Location, Door Accessory - all body door compartments	
171	0003982		Tray, 500 lb Slide-out w/ 2" Sides - Floor Mounted	4
			Location - each full height compartment	
172	0043966		Shelves, Adjustable, 3/16", 500 lb Capacity	4
			Location, Shelf - in compartments D1, D4, P1,P4 upper portion	
173	0003945		Shelf Tracks	8
			Location - all body compartments	
174	0004016		Rubrail, Aluminum Extruded, Side of Body	1
175	0004027		Rear Fender Crowns, S/S, Two Pair	1
176	0004151		Handrails, Side Pump Panels	1
177	0004210		Compt, Air Bottle in Fender Panel	8
			Location, Bracket/comp. - body fender panels	
178	0084211		Scuffplate, Around Air Bottle Compartment	8
179	0049220	PSC	Ladder, 45' Duo-Safety 1525A 3-Sect w/Poles	1
180	0014221		Ladder, 35', Duo-Safety 1200A 2-Section	1
181	0010406		Ladder, 28' Duo-Safety 1200A 2-Sec	1
182	0074231		No Roof Ladder Req'd	1
183	0004233		Ladder, 14' Duo-Safety Fresno 701	1
184	0004246		Ladder, 10' Duo-Safety Folding 585A	1
185	0042207		Ladders Stored in Torque Box, Gortite Roll, (ML, HL, PAP)	1
			Color, Gortite, Roll-up Door - Satin finish	
186	0004252		Ladder, Little Giant Model 10102 - 17'	1
			Location, Fold Ladder - c) Left Compt	
187	0004249		Slides, Dura-Surf, Ground Ladder Storage, (PAL/PAP)	1
188	0004318		Pike Poles, 12' Fiberglass Handles	2
189	0004337		Pike Poles, 8' Fiberglass Handles	2
190	0004347		Pike Poles, 6' Fiberglass Handles	2
191	0004344		Pike Poles, 3' Fiberglass w/"D" Handles	2
192	0004383		Steps, Folding, Front Bulkheads (Aerial)	1
193	0004390		Step, Folding - Extra, Body Only	2
			Location, Additional Step - front body bulbheads	
194	0004435		Pump, 2000 CSUY Single Stage, Waterous	1
195	0004482		Seal, Mechanical, Waterous	1
196	0091446		Pump Setup Charges N/A	1
197	0039453		Transmission, Pump - Waterous "Y" Series	1
198	0014480		Shift, Air w/ Manual Over, Split Shaft PTO, Waterous	1
199	0003148		Transmission Lock-up, EVS	1
200	0004547		Auxiliary Cooling System	1
201	0014486		(No Transfer Valve Required on 1 Stage Pump)	1
202	0004517		Valve, Relief Intake, Elkhart	1
203	0010449		Controller, Pressure	1
			Pressure Governor Type - Custom Chassis DDEC Engine	
204	0024543		Primer, Hale, ESP, For An Other Pump	1
205	0004490		Fitting, Lubrication (Driver's Side)	1
206	0044552		Line, .50" Recirculating w/Check Valve	1
207	0024962		Thermal Relief Valve, OPM, Waterous	1
208	0004575		Warranty, Waterous 2 Yrs	1
209	0004560		Manuals, Pump (2)	1
210	0004590		Pump Test, Third Party	1

Line	PRIDE #	Type	Component	Qty
211	0089351		Plumbing, Stainless Steel & Hose (Control Zone)	1
212	0089437		Plumbing without Foam System	1
213	0032998		Warranty, 10 Year Stainless Steel Pumping	1
214	0004645		Inlets, 6.00" - 1250 GPM or Larger Pump	1
215	0004646		Cap, Long Handle Pump Inlet, NST - VLH	1
216	0084605		Valves, Waterous Side with Akron 8000 Series	1
217	0004660		Inlet, LH Side, 2.50" gated	1
218	0004680		Inlet, RH Side, 2.50" gated	1
219	0016158		Valve, Inlet(s) Recessed, Side Cntrl, "Control Zone"	2
220	0034720		Anode, Zinc, Pair, Pump Inlets	1
221	0004700		Inlet Control At Valve	1
222	0092569		No Rear Inlet (Large Dia) Requested	1
223	0092696		No Rear Suction Cap	1
224	0064116		No Rear Inlet Actuation	1
225	0009648		No Rear Intake Relief Valve Req'd	1
226	0092568		No Rear Inlet (auxiliary) Requested	1
227	0004699		Valve, .75 Bleeder, Aux. Side Inlet	1
228	0029043		Line, 3.00" Tank to Pump	1
229	0004905		Outlet, 1.50" Tank Fill	1
230	0004940		Outlet(s), LH Side, 2.50"	2
231	0092570		No Additional Outlet (LH) Requested	1
232	0004945		Outlet(s), RH Side, 2.50"	2
233	0092571		No Additional Outlets (RH) Requested	1
234	0005046		Outlet, 4" w/3.50" Waterous Valve Right	1
235	0024934		Outlet, Front, 1.50" w/2.00" plumb & swivel	1
			Location, Outlet - a) passenger's side	
236	0092575		No Rear Outlet Requested	1
237	0092574		No Rear Outlet (Added) Requested	1
238	0092573		No Hosebed/Running Board Outlet	1
239	0085076		Caps for 1.50" - 3.00" Discharges - VLH	1
240	0005043		Valve, Bleeder - .75" Quarter Turn	1
241	0005091		Elbows, 45 Degree - 2.50" Outlets LH - VLH	1
242	0035094		No Elbows Req'd (Added LH Outlets)	1
243	0025091		Elbows, 45 Degree - 2.50" Outlets RH - VLH	1
244	0089584		No Elbow req'd (Added RH Outlet not requested)	1
245	0045099		No Elbow at Rear	1
246	0085695		No Elbows Req'd, Rear, Large Outlet	1
247	0005097		Elbow, 30 Degree - 4.00"(F) X 5.00" Storz	1
248	0005040		Control, Outlets	1
249	0029106		No Deluge Riser Requested	1
250	0029302		No Monitor Requested	1
251	0029304		No Nozzle Req'd	1
252	0029107		No Deluge Mount	1
253	0005096		Waterway Outlet & Control, Waterous, handwheel (PAP, SkyArm)	1
254	0029167		Crosslays Sngl Sheet unpainted, (2+) 1.50", Std. Cap	2
255	0090442		Crosslays Sngl Sheet unpainted, (1) 2.50" Std Cap	1
256	0029260		Speedlays not requested	1
257	0044333		No Foam System Required	1
258	0012126		CAF Compressor Not Required	1
259	0042573		Foam System Demonstration Not Required	1
260	0045465		No Foam Tanks Required	1
261	0091110		No Foam Tank Drain	1
262	0091079		No Foam Tank #2 Required	1

Line	PRIDE #	Type	Component	Qty
263	0091112		No Foam Tank Drain	1
264	0007545		Pump House - Side Control 45", "Waterous Control Zone"	1
265	0032479		Pump Panel Configuration, Control Zone	1
266	0005580		Step, Slide-Out Pump Op. Platform (Aerial)	1
267	0005525		Panel, Pump and Gauge, Brushed S/S	1
268	0005578		Panel, Pump Access - Pass Side Only	1
269	0035501		Pump House Structure, Std Height	1
270	0091532		Gauges, Engine - Pump Panel, DLX	1
271	0005601		Throttle Included w/ Pressure Controller	1
272	0015629		Indicator Lights @ Pump Panel, DLX	1
273	0005780		Control, Air Horn at Pump Panel	1
274	0005621		Test Port, Pump, RPM	1
275	0009152		Gauges, 4" Master - NoShok, S/S Case, 30"-0-600psi	1
276	0006542		Gauge, 2.5" Pressure - NoShok, S/S Case, 30"-0-400psi	1
277	0005651		Gauge, Water Level, Incand 5 Light, IC	1
278	0006774		No Foam Level Gauge Req'd	1
279	0017010		Step/Light Shield Ass'bly, 8" Depth, Side Mount	1
280	0027026		Step/Light Shield, Addn'l, 4-Way, 8" Depth, PS	1
281	0005896		Wiring, DLX	1
282	0092871		Lights, Step, (6) Weldon 9186-23882-30, aerial with pump	1
283	0039821		Tail-Lights, Whelen 600, LED for use w/ Whelen Housing, Pop Arrow, Low	1
284	0039214		Lights, Backup, Whelen 600, LED for Whelen CAST3 & 4 housing	1
285	0090155		Lights, Identification/Clearance, Rear, Truck-Lite, 35 LED	1
286	0045550		Bezel, (2) Whelen Cast 4, For mtg (4) Whelen 600 lights	1
287	0002464		Light, Map w/Goose Neck, Federal LF18TS w/Toggle Switch	1
			Location - officer side of cab	
288	0037182		Light, Marker End Outline, Rubber Arm, Marker Lamp	1
			Location, lights - at rear of truck each side	
289	0090531		Light, Marker, Truck-Lite, 35200, LED, Recessed, Qty Feature, Feature Location	6
			Location - recess in each body rubrail and runningboard	
290	0005924		Light, Do not move apparatus, Custom	1
291	0092565		Messages, Open Door/Do Not Move Truck - DLX	1
292	0005920		Lights, Compt, Truck-Lite model 79384	1
293	0005919		Light, One (1) 4.00" Dia. recessed in Compt Door	2
			Location, lights - compartments D3, P3	
294	0005945		Light, Pump Compartment	1
295	0005947		Perimeter Scene Lights, Cab Exit Areas, NFPA (STD)	1
			Cab, Perimeter Scene - Cab, 4dr Custom	
296	0005942		Perimeter Scene Lights (4), Pump Panel/Rear Step Area	1
			Switch, Location, Perim - Parking brake	
297	0039768		Lights, Side Scene, Whelen 900 Halogen	1
			Location, lights - behind crew cab doors high as possible.	
			Switch, 4 Scene Cntrl, Dr - a) no switch control	
			Switch, 2 Scene Cntrl - b) pump panel	
			Switch, 1 Scene Cntrl - c) cab and crew cab doors	
			Scene Light Angle - d) 8 to 32 degree internal opti	
			Switch, 3 Scene Cntrl - n) No additional control, 3	
			Flange Kit, Whelen 9E - w) with 9E flange	
298	0005956		Lights, Unity A Deck-Rear, Aerial	1
299	0075992		Handheld Cab Spotlight, Specialty Lighting 2150-1	1
			Location, lights - officer side of cab	
300	0006052		Air Horns, (2) Grover in Bumper Inside Frame	1
			Location, Air Horn (bmpr) - inboard of frame rails	

Line	PRIDE #	Type	Component	Qty
301	0016065		Horn & Pass Side Chrome Push Button, Air Horns	1
302	0006133		Siren, Code 3 3692 200W	1
303	0016133		Location, Electronic Siren, Swivel Mount Centered Overhead	1
304	0076156		Siren Control on Siren Head Only	1
305	0016174		Speaker, Code-3 PB100C, Chrome, recess bumper Connection, Speaker - siren head	1
306	0038271		Siren, Federal E-Q2B, Control Head and Amplifier, Auxiliary	1
307	0026165		Switches, 1 Toe DS & Push Button PS, Mech Siren	1
308	0038272		Speaker, Auxiliary Siren, Federal, BP200-EF, Recessed in Bumper Location - mounted on the left side	1
309	0021826		Bracket, Wedge Style for Foot Switch, Each Location - driver side of cab floor	1
310	0037701	PSC	Lightbar, Whelen, MEDLED, 21", LED @ 30 Degree, Bars, pair, Red, PAP	1
311	0040928		Lights, Front Zone Upper, Platform, Whelen 2-600 clear LED & 6-600 red LED	1
312	0040632		Lights, Basket, Whelen, 600, LED In Addition to Required Location - front corner each side of basket as far forward as possible Color, Light - a) red	1
313	0056614		Light, 592 Opticom Emitter, Remote mount on Cab Front Location - centered over grill	1
314	0006507		Flasher, Headlight Alternating, DLX Headlt flash deactivation - a)w/low beam	1
315	0018999		Lights, Side, Whelen 500 LED, Interior Cab & Crew Doors Color, Lights, Warning - c) amber	1
316	0019626		Traffic Directing Light, Rear, Whelen TA852L 8-light LED, 43.85", Surface Mt	1
317	0040116		Light, Side Zone Lower, Whelen 600 LED, Over 25 Foot Gap, 3pr Location, lights rear fen - center of body fender panel Location, lights crew cab - behind crew cab door Location, lights firt side - b)each side bumper Color, Lt, Rear Fender - r)red Color, Light, Front, Side - r)red front side lights Color, Lt, Front Bumper - rr)red, front side lights Flange Kit, Whelen 6E - w)6E or 64 Flange Kit	1
318	0016380		No Additional Lights Req'd, Side Zone Upper	1
319	0039759		Lights, Rear Zone Low, Whelen 600 LED, w/Cast 3 or 4 Bezel Color, Light - a) red	1
320	0020437		Light, Rear Zone Upper, Whelen B6R, Rotator/LED Flash Color, Dome, Rear Warning - b)both domes red Color, Lights, Warning - c) amber	1
321	0006551		No lights Req'd, Rear Upper Zone Blocking	1
322	0025957		Switch, Hosebed Lights Location, Switch - a) cab	1
323	0006646		Electrical System, A/C, General Design	1
324	0003637		Harrison 20kW MPC Hydraulic (20,000W Cont. Rating)	1
325	0006645		Location, Hydraulic Generator Above Pump Location, Generator - driver side cargo area above pump	1
326	0016752		Starting Switch for Truck Engine Powered Generator	1
327	0016760		Remote Start, Hyd. Gen., (Field Swt, Not PTO Sw.) Location, Remote Start - d) cab/pp	1
328	0016740		Fuel System, None Required	1
329	0016767		Oil Drain Extension Not Req'd for Generator	1
330	0016771		Routing Exhaust Not Req'd for Generator	1
331	0036738		Circuit Breaker Panel, Included With PTO Generator Location, CB Panel - compartment D5 above driver-side front stabilizer	1

Line	PRIDE #	Type	Component	Qty
332	0006736		Cover, Generator, Above Pump	1
333	0092352		Fire Research, 1000W Non-telescopic, FC570 M12 Location, 120/240 Volt Lt - above compartments D2 & P2	2
334	0012193		Fire Research, 1500W Side Mount, Top Raise, Focus FC540-M15 Location, 120/240 Volt Lt - at rear of pump house each side	2
335	0032862	PSC	Light, FRC FOCUS, 750W, Center Forward, Frt of Basket, PAP	1
336	0033109	PSC	Light, FRC FOCUS, (2) 750W, Under Basket, PAP	1
337	0066627		Reel, Elec Four (4) Wire - Hannay 1600 Series Location, Cord Reel - above midship pump officer side cargo area Reel Guide - a) Nylatron guide	1
338	0053942		Enclosure, Reel, Feed Through Side Sheet Location - above midship pump officers side	1
339	0066629		Guide, Roller In Body Sheet Location - above pump panel officer side	1
340	0061325	PSC	Receptacle, 20 Amp 120V 3-Prong, twist lock, Ericson Perma-Tite #2820-FS10 Location, Receptacles - in front bulkheads	2
341	0061327	PSC	Receptacle, 30 Amp 240V 4-Prong, twist lock, Ericson Perma-Tite #2930-FS20 Location, Receptacles - in the bucket	1
342	0016794		Receptacle, Outlet, 6-Place, 120 Volt, 15 Amp, Shoreline Location, Receptacles - mounted in the EMS compartment	1
343	0006791		Receptacle, 20 Amp 120V 3-Prong, Twist Lock, Marine Grade Location, Receptacles - each front body bulhead, two at rear of truck, one each side body fender panels	6
344	0022160		Aerial, 100' Pierce Platform	1
345	0000043		Boom Support, Recessed in Engineer Compartment	1
346	0076901		Basket, PAP, Wide	1
347	0056905		Basket Heat Shields	1
348	0016974		Spotlights, Collins Fx-12 On Basket (PAP)	1
349	0092763		Control Stations, 85'/100' PAP	1
350	0000879		Stabilizers, Two Sets (PAP)	1
351	0045416		Light, Stabilizer Warning, (2) sets, Whelen 900, LED Color, Lights, Warning - a) red Flange Kit, Whelen 9E - w) with 9E flange	1
352	0040603		Lights, Piranha LED, Stabilizer Beam, (2) Sets	1
353	0018658		Hydraulic System (100' PAP)	1
354	0016918		Swivels (32 Collector Rings)	1
355	0006999		Warranty, 20 Year Structural (PAL, PAP)	1
356	0016930		120 Volt To Tip, 20 Amp (PAP)	1
357	0016924		Intercom, 2-Way Atkinson (PAP)	1
358	0025497		Breath Air To Tip (100 PAP), (2) 4500 PSI, No Masks	1
359	0024741		Mask, Scott AV2000 Respirator (std)	2
360	0056918		No Raised Aerial Pedestal Required	1
361	0076978		Box, Hose Storage @ Platform w/Cover, 100'/1.75"	1
362	0036922		Light, Locator, Whelen 800 at Tip, PAP/PAL Color, Light - d) amber	1
363	0048758		Lyfe Brackets, 3-In-1, Wide Basket	1
364	0035896		Mansaver Bars, In Place of Standard Chains	1
365	0089988		Door Latches, Eberhard 206, On Platform Basket	1
366	0016950		Waterway, 100' PAP	1
367	0016952		(1) Preconnect At Platform (2 Monitors)	1
368	0025357		Monitors, Aerial, Dual (Manual/Elect) PAP Monitor, Aerial (PAP) - Two (2) Akron, 1 Man, 1 Elect	1
369	0086971		Flowmeter, Waterway, Mux (PAP)	1
370	0004836		Inlet, 5.00" at Rear (PAP, PAL)	1

Line	PRIDE #	Type	Component	Qty
371	0047897		Tools, Aerial, PAL/PAP/SkyArm	1
372	0016980		Manuals and Training (PAP)	1
373	0007150		Bag of Nuts and Bolts	1
			Qty, Bag Nuts and Bolts - 1	
374	0047021		Triangles, Reflective Emergency	1
375	0037022		Soft Suction Not Required	1
376	0027061		Extinguisher, 2.5 "ABC" D.O.T. w/Mtg Brkt	1
377	0048359		Belt, Safety (Aerial)	4
378	0007482		Crowbars Not Required	1
379	0007484		Claw Tools Not Required	1
380	0007490		Axes, Flathead Not Required	1
381	0007492		Axes, Pickhead Not Required	1
382	0007494		Sledgehammers Not Required	1
383	0007210		Paint, Two Tone, Cab, Custom Cab/Commercial Cab	1
			Paint Color, Upper Area - white #10	
			Paint, Color - red #90	
384	0017241		Paint Chassis Frame Assy. Black, Std.	1
385	0057205		Warranty, Standard Paint	1
386	0067227		Clearcoat Paint Sealer Over Std Job Color, Lap Doors	1
387	0087227		Wheelwells, Painted Black, IPOS	1
388	0007230		Compartment paint, Spatter gray	1
389	0007238		Aerial Platform Paint, White 10	1
390	0061715	PSC	Reflective Band, 1" - 10"	1
			Color, Reflect Band - A - a) white	
			Color, Reflect Band - B - I) white	
391	0061528	PSC	"Mountain Top", In Reflective Stripe	2
			Location - on each rear door	
392	0077356		Reflective, Cab Face, Below the S/S Trim Band	1
393	0087357		Molding, Chrome on side of cab	1
394	0025064	PPC	Lettering, 12" Reflective w/Shade On Ladder-PAL/PAP/Sky	1
			Paint, Color - Red #90	
			Color, Lettering - a) white	
395	0030076		Lettering Specifications, Vinyl/Painted	1
396	0020877		Lettering, Reflective 3" (21-40)	1
397	0067027		Lettering, Reflective, "Dial 911" Each	1
			Location, Lettering - on rear roll up door	
			Size, -Dial 911 - - 12	
			Color, Lettering - b) red	
398	1000401	PSC	Concession, Longmont, CO, per Mike Ayers, 5018	1
399	0008555		2% Handling Charge on 100' PAP	1
400	0000033		PAP BODY	1
401	0000012		PIERCE CHASSIS	1
402	0020027		SERIES 60 ENGINE	1
403	0046396		EVS 4000 Series TRANSMISSION	1
404	0020011		WATEROUS PUMP	1
405	0020009		POLY TANK	1
406	0028047		NO FOAM SYSTEM	1
407	0020006		SIDE CONTROL	1
408	0020007		AKRON VALVES	1
409	0020015		ABS SYSTEM	1

Midwest Aerial Inspection inc.

Certificate of Fire Apparatus Quality Assurance & Testing

Certificate Number

14862

On September 8, 2003, Midwest Aerial Inspection, Inc. tested the apparatus identified below in accordance with the independent testing requirements of NFPA Standard 1901, 1999 Edition at the manufacturing facility of Pierce Manufacturing, Inc.

Owner:

**Longmont Fire Department
Longmont, CO 60501**

Vehicle Manufacturer:
Pierce Manufacturing, Inc
Chassis Manufacturer:
Pierce Manufacturing, Inc

Model:
100' Platform
Model:
**Dash-2000 Chassis,
PAP/SkyArm/Midmount**
Model:
CSUYCX2000

Serial Number:
14635-01
Serial Number:
4P1CT02H23A003446

Pump Manufacturer:
Waterous

Serial Number:
113671

Barometric Pressure	30.20 in Hg	Temperature	71 F	Elevation	863 ft
Suction Hose Size	6.0 in	Length	20 ft	Pump Elevation	5 ft
Performance Certified to	2000 ft	Auto Pressure	12 PSI	Vacuum Test	1.0 in Hg
No Load	2225 RPM	Time to Prime	16 seconds	Tank Flow	257 gallons

	Pump Control Position	Flow	Discharge	Suction Allowance	Net Pressure	Pump Speed	Engine Speed	Gear Ratio
Capacity	Single Stg	2000	147	6.0	153	3602	1587	2.27
Overload	Single Stg	2000	160	6.5	167	3707	1633	2.27
70% Capacity	Single Stg	1403	198	4.5	203	3696	1628	2.27
50% Capacity	Single Stg	1002	249	3.0	252	3968	1748	2.27

Results from these services provided are on file with the manufacturer and Midwest Aerial Inspection, Inc. under the certificate number.

Midwest Aerial Inspection Inc. 2815 Oregon Street, Oshkosh, WI. 54902
920.235.8212 1.888.639.7144 Fax 920.235.8213
E-mail: services@midwestaerial.com www.midwestaerial.com

MANUFACTURERS RECORD OF PUMPER CONSTRUCTION DETAIL

Owner: **LONGMONT FIRE DEPARTMENT**Address: **1100 SO SHERMAN ST LONGMONT CO 80501**Manufacturer: **PIERCE MFG INC**Model: **100' Platform**Job No: **1-335 Vehicle 07**Engine Make: **Detroit Diesel**Model: **Series 60 DLX 2002**Serial No: **06R0737265**No. Cyl: **6** Bore: **5.240** Stroke: **6.610** Displ: **855.0** cu in. Rated Horsepower **500** at **2100** rpm Comp. Ratio: **16.00:1**Type: **Diesel** No Load Governed rpm **2225** Type of Feed: **Fuel Injection**Alternator Output: **Alternators, Dual System, 540 amp, Leece-Neville, Series 60 2002, DLX**Battery : Single or Double: **Batteries, (6) Douglas Grp 31, 950 CCA each, SAE Post**Battery : Make and Model: **DOUGLAS**System Voltage: **12 Volts.**Fuel Tank Capacity: **Fuel Tank, 65 gal**Transmission : Make **Allison**Model **EVS 4000PR**Transmission: Type **Automatic**Serial Number: **6610123431**Drive to Pump through Transmission? **Y**Gear Ratio Engine to Pump: **1:2.27**Trans. Gear Ratio Used: **1:1**Pump and Pump Transmission Make: **Waterous**Pump Serial No: **113671**Model: **CSUYCX2000**Transmission Serial No: **113671**Rated Capacity: **2000** gpm No. Stages: **1**Priming Device Type: **Primer, Hale, ESP, For An**Relief Valve? **NO** Pressure Governor? **YES** Impeller Diameter: **10.5**

in.

Auxiliary Pump? **NO** Make:

Model:

Water Tank Capacity: **Tank, Water, 300 Gallon, Poly, PAL/ PAP, Notched**Chassis Make: **Pierce**Model: **Dash-2000, Chassis, PAP/SkyArm/Midmount**Serial No: **4P1CT02H23A003446**

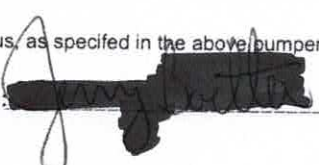
GAWR Front:

22,800.00 lbs. Rear:**54,000.00** lbs.Tires Front Size: **Tires, Michelin, 425/65R22.50 20 ply XZY tread**Rated Capacity Total: **22,800.00** lbs.Tires Rear Size: **Tires, (8) Michelin, 12R22.50 16 ply, XZE**Rated Capacity Total: **54,000.00** lbs.Chassis Weight Distribution with water Front: **21,040.00** lbs.Chassis Weight Distribution with water Rear: **49,680.00** lbs.Paint # **090 Red**Paint # **010 White**Company: **PIERCE MFG INC 2600 AMERICAN DR PO BOX 2017 APPLETON****WI 54912-2017**Certificate Number **14862** Barometric Pressure: **30.20** Temperature: **71** Elevation: **863** Suction Hose Size: **6.0** Length: **20**Pump Elevation: **5** Pump Performance Certified To: **2000**

Pump Control					Net	Pump	Eng.	Gear
Position:		Flow:	Disch:	Suct:	Pressure:	Speed:	Speed:	Ratio:
Capacity:	SINGLE STG	2000	147	6.0	153	3602	1587	2.27
Overload:	SINGLE STG	2000	160	6.5	167	3707	1633	2.27
70% Capacity:	SINGLE STG	1403	198	4.5	203	3696	1628	2.27
50% Capacity:	SINGLE STG	1002	249	3.0	252	3968	1748	2.27

Auto Pressure: **12** Vacuum Test: **1.0** No Load : **2225** Time To Prime: **16** Tank Flow: **257 @ 251**

The engine used in the fire apparatus, as specified in the above pumper construction details, has been approved for stationary pumper applications.

Pierce Manufacturing Inc. Midwest Aerial: 

Date: 9/4/03

MANUFACTURER RECORD OF AERIAL CONSTRUCTION DETAILS

Owner: LONGMONT FIRE DEPARTMENT Address: 1100 S. SHERMAN ST. LONGMONT CO 80501
Manufacturer: PIERCE MFG INC
Model: 100' Platform Job No: 14635 Vehicle: 01
Chassis Make: Pierce Serial No: 4P1CT02H23A003446
Model: Dash-2000, Chassis, PAP/SkyArm/Midmount
Engine Make: Detroit Diesel Model: Series 60 DLX 2002 Serial No: 06R0737265
No. Cyl. 6 Bore 5.240 Stroke 6.610 Displ. 855.0 cu in. Rated Horsepower 500 at 2100 rpm
Comp. Ratio: 16.00:1 Type: Diesel No Load Governed rpm 2225
Alternator Output: Alternators, Dual System, 540 amp, Leece-Neville, Series 60 2002, DLX
Battery : Single or Double: Batteries, (6) Douglas Grp 31, 950 CCA each, SAE Post
Battery : Make and Model: DOUGLAS System Voltage: 12 Volts
Fuel Tank Capacity: Fuel Tank, 65 gal.
Type of Feed: Fuel Injection
Transmission : Make Allison Model EVS 4000PR Transmission: Type Automatic
Serial Number 6610123431
GAWR Front: 22,800.00 lbs. Rear: 54,000.00 lbs.
Tires Front Size : Tires, Michelin, 425/65R22.50 20 ply XZY tread
Rated Capacity Total: 22,800.00 lbs.
Tires Rear Size : Tires, (8) Michelin, 12R22.50 16 ply, XZE
Rated Capacity Total: 54,000.00 lbs.
Tire Trail Size : _____
Rated Capacity Total: _____ lbs.
Chassis Weight Distribution with water Front: 21,040.00 lbs.
Chassis Weight Distribution with water Rear: 49,680.00 lbs.
Chassis Weight Distribution with water Trail : _____ lbs.
Aerial Device Type: Pierce Model: PAP 100 Serial No: 14635
Rated Vertical Height: 100 ft. Rated Horizontal Reach: 93 ' 0.0 " Capacity Rating: 1000 lbs.
Pump and Pump Transmission Make: Waterous Model: CSUYCX2000
Pump Serial No: 113671
Transmission Serial Number: 113671 Rated Capacity: 2000 gpm No. Stages: 1
Drive to Pump through Transmission? Y Gear Ratio Engine to Pump: 1:2.27 Impeller Diameter: 10.5 in.
Priming Device Type: Primer, Hale, ESP, For An Relief Value? NO Pressure Governor? YES Trans. Gear Ratio Used: 1:1
Auxiliary Pump? NO Make: _____ Model: _____
Water Tank Capacity: Tank, Water, 300 Gallon, Poly, PAL/ PAP, Notched
Paint # 090 Red Paint # 010 White
Company: PIERCE MFG INC 2600 AMERICAN DR PO BOX 2017 APPLETON WI 54912-2017
Certificate Number: 599164

The engine used in the fire apparatus, as specified in the above aerial construction details, has been approved for stationary pumper application.

Signed By: _____

Quality Assurance.