

Job Number: BL4173-41207264 Inspection Date: July 18, 2023

Fire Department: Cocoa Fire Department / Cocoa Fleet Services

Address: 301 Shearer Blvd., Cocoa, Fl.

Persons Contacted: Tony Jones

Chief: _____

Operator: Wayne & Jeremiah

Manufacturer: Sutphen Corporation

Year of Manufacture: 2015

Chassis:

Manufacturer: Sutphen Corporation

Chassis S/N: 1S9A3JNE7E1003119

Aerial S/N: HS-5478

Engine:

Manufacturer: Cummins

Model Number: ISX

GVW:

Front: 23,000

Rear: 26,000

Rear Tandem: 26,000

Weather Conditions:

Temperature: 89 Degrees

Wind: 5 MPH

Model Number: SPH-100' Platform

Unit:

Number: Tower 32

Mileage: 49,103

Hour Meter Reading: Eng: 12,196.5 Aerial: 677.5

Transmission:

Manufacturer: Allison

Model Number: EVS4000

Platform:

Type: 100 ft. Mid Mount Platform

Material: Aluminum

Inspector: Wayne T. Fister, NDT Level II

Locations Nationwide

Aerial Device & Fire Apparatus Inspection and Certification

		Accept	See Notes	N/A
1.0	Service Records			
1.1	The telescopic platform's service records shall be checked for any reports that may indicate defective conditions.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.0	Rotation Bearing Mounting Bolts			
2.1	Inspect all accessible bolts for proper grade and installation as specified by the apparatus manufacturer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.2	Using a properly calibrated torque wrench, verify that the bolt torque on all accessible bolts meets the apparatus manufacturer's specifications.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 2.3	Inspect all accessible bolts for internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3.0	Torque Box Mounting To Frame			
3.1	If the torque box is bolted to the frame, inspect all accessible bolts for proper grade and installation as specified by the apparatus manufacturer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.2	Using a properly calibrated torque wrench, verify that the torque on all accessible bolts meets the apparatus manufacturer's specification, if the torque box is bolted to the frame.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.3	If the torque box is welded to the frame, visually inspect all accessible attaching welds for fractures.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NDT 3.4	If the torque box is bolted to the frame, inspect all bolts for internal flaws. If the torque box is welded to the frame, inspect all accessible attaching welds.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.0	Tractor-Drawn Components Mounted to Frame			
4.1	If tractor-drawn components are bolted to the frame, the mounting of the tractor-drawn components to the frame shall be inspected as follows:			
4.1.1	Inspect all accessible bolts for proper grade and installation as specified by the apparatus manufacturer.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.1.2	Using a properly calibrated torque wrench, verify that the torque on all accessible bolts meets the apparatus manufacturer's specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NDT 4.1.3	Inspect all bolts for internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.2	If tractor-drawn components are welded to the frame, the mounting of the tractor-drawn components to the frame shall be inspected as follows:			
4.2.1	Visually inspect all accessible attaching welds for fractures.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NDT 4.2.2	Inspect all accessible attaching welds.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.0	Suspension System.			
5.1	If the suspension system components are bolted to the frame, the mounting of the suspension system components to the frame shall be inspected as follows:			
5.1.1	Inspect all accessible bolts for proper grade and installation as specified by the apparatus manufacturer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.1.2	Using a properly calibrated torque wrench, verify that the torque on all accessible bolts meets the apparatus manufacturer's specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5.1.3	Inspect all bolts for internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

5.2	If the suspension system components are welded to the frame the mounting of the suspension system components to the frame shall be inspected as follows:	Accept	See Notes	N/A
5.2.1	Visually inspect all accessible attaching welds for fractures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.2.2	Inspect all accessible attaching welds.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.0	Rotation Gear And Bearing			
6.1	Inspect the rotation gear for missing or damaged teeth, pinion-to-gear alignment, proper lubrication and backlash.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.2	Record the inner-bearing race to outer bearing race clearance, if accessible, in accordance with the bearing manufacturer's procedures, and compare the clearance to the bearing manufacturer's specifications.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.0	Rotation Gear Reduction Box Mounting			
7.1	If the reduction box 'is bolted to the turntable inspect all bolts for the proper grade and installation as specified by the apparatus manufacturer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.2	If the reduction is bolted to the turntable, Using a calibrated torque wrench, verify that the torque on all bolts meets the apparatus manufacturer's specification.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.3	Visually inspect all accessible weldments for defects and welds for fractures.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NDT 7.4	If the reduction box is bolted to the turntable, inspect all accessible bolts for internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NDT 7.5	If the reduction box is welded to the turntable, inspect all accessible reduction box attaching welds.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.0	Turntable Structural Components			
8.1	Visually inspect all accessible turntable structural weldments for defects and welds for fractures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 8.2	Inspect all accessible turntable structural component welds.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.0	Rotation Hydraulic Swivel			
9.1	Inspect the swivel for external hydraulic fluid leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9.2	If applicable, check for indications of moisture in the electronic chamber by visually inspecting the desiccant moisture indicators.			
10.0	Hydraulic Lines and Hoses in Turntable			
10.1	Inspect all hydraulic lines and hoses for kinks, cuts and abrasions, and hydraulic fluid leakage at connectors and fittings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.0	Elevation, Extension and Rotation			
11.1	Inspect the manual valve on the elevation, extension and rotation locks for external hydraulic fluid leakage.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11.2	Test the manual valve elevation lock for proper operation by engaging the lock and then attempting to raise and lower the ladder with the main hydraulic system operating. No detectable movement shall occur as determined by visual inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11.3	Test the manual valve extension lock for proper operation by engaging the lock and then attempting to extend or retract the ladder with the main hydraulic system operating. No detectable movement shall occur as determined by visual inspection.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Accept	See Notes	N/A
11.4	Test the manual valve rotation lock for proper operation by engaging the lock and attempting to rotate the turntable clockwise and counterclockwise with the main hydraulic system. The movement shall not exceed the manufacturer's specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12.0	Signs			
12.1	Ensure that all signs are in place and legible.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.0	Power Takeoff (PTO)			
13.1	Inspect the power takeoff for external hydraulic fluid leakage, proper operation (engagement and disengagement) and warning light inside the cab.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14.0	Hydraulic Pump			
14.1	Inspect the hydraulic pump for external hydraulic fluid leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15.0	Collector Rings			
15.1	Inspect the collector rings for foreign material buildup on rings, if accessible.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15.2	If accessible, inspect the collector ring terminals for damage.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15.3	Conduct tests to ensure the proper operation of the collector rings by rotating the aerial device while electric-powered devices are in operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16.0	Elevation Cylinder Anchor Ears and Plates			
16.1	Visually inspect the elevation cylinder anchor ears and plates for defects and attaching welds for fractures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 16.2	Inspect the elevation cylinder anchor ears and plate attaching welds.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17.0	Elevation Cylinder Pins			
17.1	Inspect the cylinder pins for alignment, proper installation, lubrication, operation and retention.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 17.1	Inspect cylinder pins for internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18.0	Elevation Cylinders			
18.1	Inspect the cylinder rods for pitting, scoring and other defects.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.2	Inspect the cylinder rod to barrel seal and the end gland seal for excessive external fluid leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18.3	With the hydraulic oil at ambient temperature, subject the cylinders to a drift test by placing the aerial device at a 60 degree elevation, full extension, marking the cylinder position, closing manually operated locking valves, and allowing the device to stand for one (1) hour with the engine off. The results of such a test shall not exceed the manufacturer's specifications for allowable cylinder drift.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19.0	Holding Valves on Elevation Cylinders			
19.1	Inspect the holding valves for external hydraulic fluid leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Accept	See Notes	N/A
20.0	Operating Controls			
20.1	Inspect the operating controls for missing or damaged control handles, proper identification and hydraulic fluid leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.2	Verify that the controls operate smoothly, return to neutral position when released and do not bind during operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20.3	If interlocks have been provided or are required to prevent unintentional operation of the aerial device, verify that the interlocks or locking devices are operating properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.0	Load Limit Indicators			
21.1	Inspect the load limit indicators for proper operation and legibility.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22.0	Emergency Hand Crank Controls			
22.1	Inspect the hand crank control for proper operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23.0	Auxiliary Hydraulic Power			
23.1	Inspect the auxiliary hydraulic power for proper operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24.0	Turntable Alignment Indicator			
24.1	Verify the presence of a turntable alignment indicator.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25.0	Throttle Control			
25.1	Verify that the throttle control is operable and record the operating RPM using a tachometer or a revolution counter (if so equipped) and a stopwatch.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26.0	Communications System			
26.1	Inspect the communication system for proper installation and proper operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27.0	Relief Hydraulic Pressure			
27.1	Verify that the main pump relief hydraulic pressure does not exceed the manufacturer's specifications.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28.0	Unit Main Frame			
28.1	Visually inspect the main frame for any cracks, bends, dents, twists or other weldment defects and any welds for fractures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 28.2	Inspect all accessible main frame welds.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29.0	Transmission/Aerial Device Interlocks			
29.1	If interlocks are provided that prevent operation of the aerial device until the chassis spring brakes have been set and the transmission is properly disengaged, verify that the interlocks are operating properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30.0	Engine Speed Interlocks			
30.1	If interlocks are provided that allow operation of the engine speed control only after the spring brakes have been set and the transmission is properly positioned, verify that the interlocks are operating properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Accept	See Notes	N/A
31.0 Breathing Air Systems				
31.1	Verify that the breathing air system is properly installed including the integrity of the air cylinder mounting, the regulator and the air lines from the air cylinder(s) to the top of the aerial device.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31.2	Verify that all the component parts of the system are present and in serviceable condition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31.3	Visually inspect the air cylinder mounting brackets for defects and weld for fractures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 31.4	Inspect all accessible welds on air cylinder mounting brackets.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31.5	Check that the air pressure regulator is set at the apparatus manufacturer's recommended pressure.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32.0 Stabilizer Structural Components				
32.1	Visually inspect all stabilizer components for defects and weld for fractures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 32.2	Inspect all stabilizer structural component welds.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33.0 Stabilizer Pads				
33.1	Verify that the stabilizer pads are present, of proper construction and in serviceable condition.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.0 Stabilizer Mounting to Frame or Torque Box				
34.1	Visually inspect the stabilizer to frame or torque box attachment for defects such as weld cracks, dents and bends.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NDT 34.2	If welded, inspect the stabilizer to frame or torque box mounting welds.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
34.3	If bolted, inspect all bolts for proper fastener grade and installation as specified by the apparatus manufacturer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34.4	Verify that the torque on all bolts meets the apparatus manufacturer's specification using a properly calibrated torque wrench.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 34.5	Inspect all bolts for internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
35.0 Hydraulic Lines And Hoses In Stabilizer System				
35.1	Inspect the hydraulic hose lines for kinks, cuts and abrasions and leakage at connector and fittings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36.0 Stabilizer Interlock and Warning Device				
36.1	Verify that the interlock system is operating properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37.0 Stabilizer Extension Cylinder Pins and Hinge Pins				
37.1	Inspect all stabilizer cylinder pins and hinge pins for proper installation, lubrication, operation and retention.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 37.2	Inspect all stabilizer pins and hinge pins for internal flaws.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

38.0 Stabilizer Extension Cylinder	Accept	See Notes	N/A
38.1 Inspect the stabilizer extension cylinder rods for pitting and scoring and other defects.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.2 Inspect the cylinder rod to barrel seal and the end gland seal for excessive external fluid leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38.3 With the hydraulic oil at ambient temperature, and with the stabilizer's cylinders properly set, measurements shall be taken to determine the amount of drift present in one (1) hour with the engine off. The results shall not exceed the manufacturer's specifications for allowable stabilizer cylinder drift.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39.0 Holding Valves On Extension Cylinders			
39.1 Inspect the holding valves for external leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40.0 Operating Controls			
40.1 Verify that the controls operate smoothly, return to the neutral position (if designed to do so) when released, do not bind during operations and are free of hydraulic fluid leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40.2 If interlocks have been provided or are required to prevent unintentional operation of the aerial device, verify that the interlocks or locking devices are operating properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41.0 Diverter Valve			
41.1 Inspect the diverter valve for external hydraulic fluid leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42.0 Positive Stops And Alignment			
42.1 Inspect the mechanical stabilizers for proper operation of the positive stops to prevent over extension	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
43.0 Stabilizer Deployment			
43.1 If the stabilizer system is hydraulically operated, verify that the system can be deployed within the 90 seconds.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44.0 Manual Spring Locks			
44.1 Inspect the condition and operation of stabilizer manual spring locks for stowed power.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
45.0 Tractor Spring Lockout Device			
45.1 Inspect the spring lockout device for any discontinuities and for proper operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
46.0 Aerial Ladder Weldments			
46.1 Visually inspect all accessible aerial ladder weldments for defects and welds for fractures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46.2 Inspect all accessible welds on the ladder.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47.0 Aerial Ladder Fasteners			
47.1 All aerial ladder structural fasteners and fastened connections shall be visually inspected for cracked fasteners and material cracks around the fasteners.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Accept	See Notes	N/A
48.0	Ladder Section Alignment			
48.1	Measurements shall be taken to determine the amount of ladder section twist or bow in the aerial ladder. Results shall not exceed manufacturer's specification for allowable ladder section twist, bow or side play.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
49.0	Hydraulic, Pneumatic and Electrical Lines In Ladder Sections			
49.1	Inspect all lines for proper mounting, wear, cracking, kinks and abrasions. Frame designated by the aerial device manufacturer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
50.0	Modifications or Unauthorized Repairs			
50.1	Inspect the aerial ladder for modifications or repairs unauthorized by the manufacturer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
51.0	Top Rails			
51.1	Inspect the top rails for straightness or any signs of misalignment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 51.2	Hardness reading shall be taken intervals of 28" (710mm) or less along the entire length of both top rails of aluminum ladders. Results of this test shall be compared with the manufacturer's specifications for the hardness of the material used for construction of the top rail.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
52.0	Base Rails			
52.1	Inspect the base rail for straightness and any signs of wear, ironing, dents and corrosion.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
52.2	Inspect the bottom of all hollow I-beam base rails to determine the thickness of the rail. Results shall be not less than the manufacturer's minimum specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
52.3	Hardness reading shall be taken intervals of 28" (710mm) or less along the entire length of both base rails of aluminum ladders. Results of this test shall be compared with the manufacturer's specifications for the hardness of the material used for construction of the base rail.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
53.0	Rungs			
53.1	Inspect all rungs of the aerial ladder for straightness, damaged or loose rung covers and rung cap castings, and signs of cracks or missing rivets, if applicable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
54.0	Rollers			
54.1	Inspect all rollers for proper lubrications, operation and any signs of wear.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
55.0	Guides, Wear Strips, Pads And Slide Blocks			
55.1	Visually inspect the guides for cracked welds; lose rivets alignment and any irregularities. Inspect wear strips, pads and slide blocks for wear, gouging and proper mounting.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
56.0	Extension Sheaves			
56.1	Inspect all sheaves for signs of wear, free movement during operation, proper retainers and lubrication.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
56.2	Visually inspect all extension sheave mounting brackets for defects and welds for fractures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
56.3	Inspect all welds of extension sheave mounting brackets.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

57.0 Extension Cables	Accept	See Notes	N/A
57.1 Inspect extension/retraction cables to assure proper tension in accordance with manufacturers recommendations.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
58.0 Extension/Retraction Motor			
58.1 Inspect the extension/retraction motor for signs of external hydraulic fluid leakage and, where applicable, brake wear, and brake alignment with the shaft.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
59.0 Cable Separation Guide			
59.1 During operation of the aerial ladder, visually inspect the cable separation guide for free travel and any signs of misalignment.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60.0 Winch Holding Capacity			
60.1 Inspect the winch for holding capacity by fully elevating the aerial ladder and extending it 10 feet (3 m). Winch slippage shall be measured for a five-minute period. Slippage shall not exceed manufacturer's specification.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
61.0 Brake Holding Capacity			
61.1 Inspect the brake holding capacity of the extension motor by fully elevating the aerial ladder and extending it 10 feet (3m). Brake slippage shall be measured for a five-minute period. Slippage shall not exceed manufacturer's specification.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
62.0 Extension And Elevation Indicators			
62.1 Inspect the elevation and extension indicators for legibility, clarity and accuracy.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
63.0 Ladder Cradle			
63.1 Inspect the aerial ladder cradle for wear and proper alignment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
64.0 Ladder Bed Lock			
64.1 Inspect the ladder bed lock mechanism and hydraulic lines for proper mounting, signs of wear and hydraulic fluid leakage at fittings.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
65.0 Stop Mechanism			
65.1 Inspect stop mechanisms to ensure that they prevent over extension or over retraction of the aerial ladder.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
66.0 Maximum Extension Warning Device			
66.1 During operation of the aerial ladder, verify the proper operation of the audible device to warn of the approach to maximum extension.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
67.0 Ladder Illumination			
67.1 Inspect the operation of the lights that are used to illuminate the aerial device.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
68.0 Extension Cylinder Anchor Ears and Plates			
68.1 Visually inspect the extension cylinder anchor ears and plates for defects and the attaching welds for fractures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
68.2 Inspect the attaching welds of the extension cylinder anchor ears and plates.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Accept	See Notes	N/A
69.0	Extension Cylinder Pins			
69.1	Inspect the cylinder pins for proper installation and retention.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
69.2	Inspect the cylinder pins for internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
70.0	Extension Cylinder(s)			
70.1	Inspect the cylinder rods for pitting, scoring and other defects.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70.2	Inspect the cylinder rod to barrel seal and the end gland seal for excessive external fluid leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
70.3	With the hydraulic oil at ambient temperature, subject the cylinder(s) to drift by placing the aerial device at a 60 degree elevation, full extension, marking the cylinder piston or the second section in relation to the base section, and allowing the ladder to stand for one hour with the engine off. The results shall not exceed the manufacturer's specifications for allowable cylinder drift.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
71.0	Holding Valves on Extension Cylinder			
71.1	Inspect the holding valves for external and internal hydraulic fluid leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
72.0	Platform Mounting Brackets			
72.1	Visually inspect all platform mounting brackets for defects such as weld cracks, dents or bends.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 72.2	Inspect all welds in the platform mounting brackets.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 72.3	Inspect all bolts and pins structurally involved with the platform mounting to the ladder or boom for internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
73.0	Platform			
73.1	Visually inspect platform for defects, such as weld cracks, dents, or bends.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 73.2	Inspect all welds on platforms.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
74.0	Hydraulic, Pneumatic, and Electrical Lines in Platform			
74.1	Inspect all lines for proper mounting, wear, cracking, kinks, and abrasions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75.0	Auxiliary Winch Mounting			
75.1	Inspect all mounting bolts for proper grade and installation as specified by the apparatus manufacturer.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
75.2	Using a calibrated torque wrench, verify that the torque on all winch mounting-bolts meets the apparatus manufacturer's specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
75.3	If welded, visually inspect the winch mounting for weld fractures.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NDT 75.4	Inspect the mounting bolts for internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NDT 75.5	If brackets are welded, inspect all welds on mounting brackets.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
76.0	Winch Control			
76.1	Inspect controls for proper identification as to function and operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
76.2	Verify smooth operations of the winch controls.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
77.0	Platform Load Capacity Identification			
77.1	Verify that the proper platform capacity identification plate exists and is legible.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Accept	See Notes	N/A
78.0	Platform Gate Latches And Hinge Points			
78.1	Inspect the platform gate latches for proper alignment and the latch and hinges for smooth operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
79.0	Platform Hinge Pins			
79.1	Inspect platform hinge pins for proper installation, lubrication, and any irregularities.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NDT 79.2	Inspect the platform's hinge pins for internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
80.0	Platform Controls			
81.1	Inspect the platform operating controls for identification of functions, posted operating instructions, and warnings.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
81.2	Verify that the controls operate smoothly, return to neutral when released, and do not bind during operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
81.3	Verify that the turntable or lower controls will over-ride the platform controls.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
82.0	Unauthorized Modifications And Added Weight			
82.1	Verify that no unauthorized modifications or extra equipment have been added to the platform without subtracting the weight of such from the platform net operation capacity.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
83.0	Platform Monitor And Nozzle			
83.1	Inspect the complete operation of the platform monitor and nozzle.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
83.2	Inspect the monitor's mounting brackets for any defects and welds for fractures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84.0	Platform Leveling Cylinders			
84.1	Inspect the cylinder rod(s) for pitting, scoring, and other defects.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84.2	Inspect the cylinder rod to barrel seal and the end gland seal for excessive external hydraulic fluid leakage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84.3	Visually inspect the leveling system for proper installation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84.4	Visually inspect the mounting of the leveling system for defects and welds for fractures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84.5	Inspect all welds for mounting of the leveling system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84.6	Inspect all leveling cylinder pins for any internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
84.2	Inspect the cylinder pins for internal flaws.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
85.0	Operational Tests From Lower Controls			
85.1	With engine speed set to allow maximum speed as permitted by the manufacturer, the elevating platform shall be operated in all positions, as ground controls. The operation of the elevating platform shall include, but not be limited to , movement of the platform basket from ground to maximum elevation as well as revolving the platform basket 360 degrees to the left and to the right while the unit is at its maximum horizontal reach.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.2	The boom should operate without any improper or unusual motion or sound.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.3	All safety devices shall operate properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Accept	See Notes	N/A
85.4	All controls shall operate smoothly, return to the neutral position when released, and not bind during operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.5	If equipped with a spirit level, check the level for accuracy and legibility.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.6	For telescoping elevation platforms, rollers, slides, and sheave wheels shall demonstrate proper alignment, function, and free operation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.7	A complete cycle of elevating platform operation shall be carried out after starting the engine, setting the stabilizers, and transmitting power to the platform booms or sections.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.8	Operating the machine from the lower control station, the elevating platform shall be raised out of the bed, extended to full specified height, and rotated through a 90-degree turn. This shall be completed smoothly and without undue vibration within the manufacturer's recommended time.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.9	The elevating platform shall be retracted, and the turntable rotation completed through 360 degrees. The elevating platform shall be lowered to its bed and a thorough inspection made of all moving parts. Special attention shall be given to the platform leveling system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85.10	The test shall, demonstrate successful operation of all elevating platform controls.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
86.0 Operational Tests From Platform Controls				
86.1	With engine speed set to allow maximum speed as permitted by the manufacturer, the elevating platform shall be operated in all positions, as allowed by the manufacturer, with only one operator in the platform basket operating from the platform control station. The operation of the elevating platform shall include, but not be limited to, moving the platform from ground to maximum elevation, as well as rotating the platform a minimum of 30 degrees and returning to the starting point in the opposite direction while the aerial device is at its maximum horizontal extension.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
86.2	All safety devices shall operate properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
86.3	The platform basket deactivation control, from the ground or lower controls shall be demonstrated to operate properly.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
86.4	The platform basket shall level properly as the booms are moved through all allowable positions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
86.5	The mechanical override on a hydraulically leveled elevation platform basket shall operate properly during emergency lowering of the boom without hydraulic power.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87.0 Load Test				
87.1	With the unit located on a hard level surface and allowing sufficient room for unrestricted boom movements, a stability and structural test shall be performed. This shall determine the elevating platform's ability to perform properly while carrying rated capacity loads in the platform basket.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87.2	The unit shall be properly stabilized according to the manufacturer's recommendation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Accept	See Notes	N/A
87.3	The platform basket shall be placed near the ground and loaded to the manufacturer's rated payload capacity. Care shall be exercised to assure that the weight of equipment added to the platform basket after delivery is subtracted from the weight of the test load being added. The platform basket load shall be properly secured.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87.4	This unit shall be operated from the lower controls through all allowable phases of operation. The manufacturer's operational limits shall not be exceeded.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87.5	The stabilizers shall show no evidence of any instability. If instability is observed, testing shall cease and the apparatus shall be repositioned or the manufacturer notified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87.6	All boom movements shall exhibit no abnormal noise, vibration, or deflection.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87.7	The platform basket shall level properly as the booms are moved through all allowable positions.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87.8	At the conclusion of the load test, weld joints at stabilizer structure, stabilizers, frame, main frame, frame reinforcements, turntable, cylinder anchors, boom joints, leveling system, platform basket, and pivot pin bosses shall be inspected and shall show no signs of deterioration.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

88.0 Waterway System Test

NOTE: The following examination and test shall apply only to permanently piped aerial platform pipes.

88.1	The waterway system shall be inspected for proper operation of all components. It shall be free of rust, corrosion, other defects, or blockage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
88.2	The waterway attaching brackets shall be inspected for loose bolts, weld fractures or other defects.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
88.3	Inspect all attaching welds.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
88.4	Pressure Test (Turntable Swivel)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The aerial platform shall be positioned between 0 and 10 degrees elevation and fully retracted. The water system shall be filled with water and the valve at the discharge end closed. If there is not a valve at the discharge end, a valve shall be attached for the purpose of this test.

NOTE: For safety reasons, all air must be removed from the system.

The pressure on the system shall be raised to the water system manufacturer's maximum rated working pressure and maintained for the duration of the test. The aerial platform shall be raised to full elevation and rotated 360 degrees. The water system, including the turntable swivel, shall be checked for leaks. Care shall be taken not to overheat the water pump.

	Accept	See Notes	N/A
<p>88.5 Pressure Test (Waterway Seals)</p> <p>The aerial platform shall be positioned between 0 and 10 degrees elevation and extended to its maximum permissible limit. The water system shall be filled with water and the valve at the discharge end closed. If there is not a valve at the discharge end, a valve shall be attached for the purpose of this test.</p> <p>NOTE: For safety reasons, all air must be removed from the system.</p> <p>The pressure on the system shall be raised to the water system manufacturer's maximum rated working pressure and maintained for the duration of the test. The entire length of the water system shall be checked for leaks. Care shall be taken to not overheat the water pump. The water system shall operate properly and with an absence of leaks during these tests.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>88.6 Pressure Gauge</p> <p>If the waterway system is equipped with a water pressure gauge(s), each water pressure gauge shall be checked for accuracy. Pressure gauges shall be checked at least 3 points, including 100 psi, 150 psi, and 200 psi. Any gauge that reads off by more than 10 psi shall be repaired or replaced.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<p>88.7 Relief Valve</p> <p>If the waterway system is equipped with a relief valve, this relief valve shall be checked to verify that it is operational at the waterway manufacturer's recommended pressure setting.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Data Records

1.	Rotation Bearing Mounting Bolts:	Bolt Grade: <u>8</u>	Size: <u>3/4"</u>	Torque: <u>225 Ft. lbs.</u>
2.	Torque Box Mounting to Frame:	Bolt Grade: <u>Huck Bolts</u>	Size: <u>Riveted"</u>	Torque: <u>n/a Ft. lbs.</u>
3.	Rotation Gear and Bearing:	Backlash: <u>.100" - .120"</u>	Bearing Race Clearance: <u>.020" - .025"</u>	
4.	Pinion to Bullgear Horizontal Alignment:			
5.	Rotation Gear Reduction Box:	Bolt Grade: <u>8</u>	Size: <u>1/2"</u>	Torque: <u>85 Ft. lbs.</u>
6.	Elevation Cylinders Drift:	Left: <u>1/16"</u>	Right: <u>1/16"</u>	
7.	Relief Hydraulic Pressure:	<u>2300</u> PSI	Down: <u>1000</u> PSI	Retract: <u>2300</u> PSI Extension: <u>1950</u> PSI
8.	Breathing Air Pressure Regulator Setting:	<u>0</u> PSI	Air Bottle(s): <u>4000</u> PSI	
9.	Stabilizer Mounting Bolts:	Bolt Grade: <u>8</u>	Size: <u>1"</u>	Torque: <u>550 Ft. lbs.</u>
10.	Stabilizer Cylinders Drift:	LF: <u>0"</u>	RF: <u>0"</u> LM: <u>n/a"</u>	RM: <u>n/a"</u> LR: <u>0"</u> RR: <u>0"</u>
11.	Ladder Section Twist:	Base: <u>n/a</u>	2nd: <u>n/a</u> 3rd: <u>n/a</u> 4th: <u>n/a</u>	5th: <u>n/a</u> Total: <u>n/a</u>
12.	Ultrasonics Test:	All Pins: <u>Accept: <input type="checkbox"/> See Notes: <input type="checkbox"/> N/A: <input checked="" type="checkbox"/></u>	All Bolts: <u>Accept <input type="checkbox"/> See Notes <input type="checkbox"/> N/A <input checked="" type="checkbox"/></u>	
13.	Welds Inspected - NDT:	Stabilizers: <u>accepted</u>	Turntable: <u>accepted</u>	Aerial Sections: <u>accepted</u>
14.	Top Rail Hardness Min/Max:	Base <u>n/a</u>	2nd <u>n/a</u> 3rd <u>n/a</u> 4th <u>n/a</u>	5th <u>n/a</u>
15.	Base Rail Hardness Min/Max:	Base <u>n/a</u>	2nd <u>n/a</u> 3rd <u>n/a</u> 4th <u>n/a</u>	5th <u>n/a</u>
16.	Extension Winch Drift:	<u>n/a</u>	Extension Winch Motor Brake Drift: <u>n/a</u>	
17.	Extension Cylinder Drift:	Left: <u>1/8"</u>	Right: <u>1/8"</u>	
18.	NFPA Time Test:	<u>112</u> Seconds		
19.	Waterway Relief Valve Settings:	<u>150 & 230</u> PSI		
20.	Base Rail Thickness Readings: Min:	Base <u>n/a "</u>	2nd <u>n/a "</u>	3rd <u>n/a "</u> 4th <u>n/a "</u> 5th <u>n/a "</u>
	Max:	Base <u>n/a "</u>	2nd <u>n/a "</u>	3rd <u>n/a "</u> 4th <u>n/a "</u> 5th <u>n/a "</u>
21.	Platform Rated Capacity:	<u>1000</u> Lbs.		
22.	High Speed:	<u>1400</u> RPM		
23.	Up	<u>55</u> Sec. <u>1700</u> PSI	CC	<u>99</u> Sec. <u>1300</u> PSI
	Out	<u>64</u> Sec. <u>1700</u> PSI	C	<u>85</u> Sec. <u>1400</u> PSI
	In	<u>64</u> Sec. <u>1900</u> PSI	Down	<u>56</u> Sec. <u>1500</u> PSI

NDT Equipment

Magnetic Particle						
Code/Specification ASTM-E709			Procedure 100-MT-002 Rev. 8		Acceptance Criteria AWS D1.1	
Material & Thickness: Steel/Various			Medium		Technique	
Magnetizing			<input checked="" type="checkbox"/> Visible <input checked="" type="checkbox"/> Dry		<input type="checkbox"/> AC <input checked="" type="checkbox"/> DC	
Manufacturer: Parker		Color: Yellow		<input checked="" type="checkbox"/> Yoke [Spacing: 2"-6"]		
Model: B100		Type: 2		<input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Residual		
Serial No: 9924		Batch 15A001		White Light Source: Flashlight		
Cal. Due Date: 8-29-23		Pre/Post Clean Method: SKC-S		Other Equipment:		
Liquid Penetrant						
Code/Specification ASTM E165			Procedure 100 PT-004 Rev. 8.1		Acceptance Criteria AWS D1.2	
	Manufacturer	Type	Batch Number(s)	Application Method	Process Time (minutes)	
					Pre-clean Dry Time: 10	
Cleaner:	Magnaflux	SKC-S	18L05K	Sprayed	Penetrant Dwell Time: 10	
Penetrant:	Magnaflux	SKL-SP2	18F09K	Brushed	Developer Time: 10	
Developer:	Magnaflux	SKD-S2	18K06K	Sprayed	Post Clean Method: 10	
Developer Form: <input type="checkbox"/> a. Dry Powder <input type="checkbox"/> b. Water Soluble <input type="checkbox"/> c. Water Suspended <input checked="" type="checkbox"/> d. Nonaqueous Wet						
Ultrasonic						
Code/Specification ASTM E797			Procedure 100-UT-003 Rev. 10		Acceptance Criteria Customer	
Instrument				Setup Data		
Model	Serial No.	Cal. Due Date	Cal. Standard:	Step Wedge	Serial No.	011798
Pocket U2	8620150957	Daily	Scan Equipment:	<input type="checkbox"/> Automatic <input checked="" type="checkbox"/> Manual		
Transducer			Couplant:	Sonotest	Batch No.	14A026
Frequency	Size	Serial No.	Cable Type:	Coaxial		
5 MHZ	3/8"	628	Cable Length:	5'		
Visual						
Code/Specification AWS D1.1 / AWS D1.2			NDT Procedure 100-VT-004 Rev. 4 / 100-VT-005 Rev. 0		Acceptance Criteria AWS D1.1 / AWS D1.2	
Material Steel / Aluminum		Weld Process Various		Temp. Gun Serial No. 170975352		Temperature 68-84
Technique <input checked="" type="checkbox"/> Direct Visual <input type="checkbox"/> Remote Visual			Surface Condition As Welded / Smooth		Visual Aids <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Supplemental Lighting <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Access within 24" & 30° <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		1/32" Line/Simulated Imperfections Used <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Dimensional Aids <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Light Meter Serial No. 170975606
½" Torque Wrench S/N & Cal. Due Date DMD20433 4-3-24			¾" Torque Wrench S/N & Cal. Due Date DLG79482 4-3-24		Dial Indicator S/N & Cal. Due Date TSM329 4-3-24	
Technician Name & Level Wayne T. Fister, Level II		Customer (if applicable):			Reviewed By (if applicable):	

Inspection Notes: Page #1

Item	Category	Comment
#1	C	The turntable rotation gear teeth are dry / rusting and should be lubricated.
#2	C	When lowering the aerial, the platform's leveling system does not keep the platform level. This problem should be determined and repaired.
#3	I	The cab's left tilt cylinder is leaking.
#4	C	The cab's right cylinder to the leaf springs is leaking oil and should be repaired.
#5	C	The aerial's extension hydraulic relief valve is set too high at 1950 psi and should be set to 1700 psi.
#6	C	The breathing air pressure regulator is set too low at 0 psi and should be set at 100 psi.
#7		

Categories:

- R = Required Items:** Items that do not meet Mistras specifications, manufacturer's specifications and applicable NFPA standards are items which Mistras mandates be repaired or replaced before issuance of an Inspection certificate.
 The location of these items may be found by the general description below. Weld discontinuities, if any, are marked with felt pen at their specific location by our inspectors. Left and right, as listed, are viewed standing on the turntable looking up at the ladder.
 The ladder sections are numbered from the bottom up, base assembly being 1st section, 2nd section, 3rd Section and 4th section. Rungs, vertical and diagonal support members (truss-members) on each section are numbered starting at the base of each ladder section with number one and increasing in number to the top of each ladder section.
 Left and right on the vehicle chassis are viewed as left being the driver's side, and the right being the Officer's side.
 Mistras will allow a maximum of sixty (60) calendar days from the date of this report for items listed under this category to be repaired or replaced. If this cannot be completed within this 60-day time frame, it is necessary that you notify our office prior to the lapse of this period at 1-800-333-8629.
- C = Recommended Items:** These are items, which we recommend be repaired, replaced or installed, or preventive maintenance procedures initiated and implemented.
- I = Informational Items:** These are items which we have found to be in noncompliance with today's standards, or items which should be checked periodically, or items listed solely for your general information.

Customer: _____

Mfg., Year: _____

Serial #: _____

Person Contacted: _____

Inspector: Wayne T. Fister, NDT Level II

Address: _____

Job Number: _____

Unit Type: _____

Inspection Date: _____

Dear Mr. Kelker:

This is to certify that all items listed under "REQUIRED ITEMS" on your inspection report have been completed.

These items have been completed in accordance with the manufacturer's recommendations and the best business practices available to our department.

Signed: _____

Title: _____

IMPORTANT NOTES

1. *Enclose with the above letter, copies of all work records and invoices regarding the repair, which was conducted on the apparatus in accordance with our report.*
2. *This letter and associated documents may be sent by fax or mailed to the address located at the bottom of this page, or by email at certifyapparatus@mistrasgroup.com.*
3. *Mistras Group-Services Division will allow a maximum of sixty (60) calendar days from the date of the report for the required repairs to be made. If repairs cannot be completed within this time frame, please notify Mistras Group-Services Division at 1-800-333-8629 prior to the lapse of this period.*
4. *A Certificate of Inspection will be issued upon receipt of this signed letter and supporting documents that the corrections required by this report have been completed.*

If you have any questions, or require any additional information, please do not hesitate to contact me.

James Kelker

Operations Manager

Mistras Group-Services Division

Transportation Department