

# **DRY SYSTEMS TECHNOLOGIES®**

## **OPERATION AND MAINTENANCE MANUAL**

### **DST DRY SYSTEM®**

#### **SECTION D PRE-OP INSPECTIONS**

**To be performed by the machine operator**

## **M301-019-01**

**DRY SYSTEMS TECHNOLOGIES®**

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## **OPERATION AND MAINTENANCE MANUAL PART D, M301-019-01**

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### **PRE-OPERATING INSPECTION FOR THE DST DRY SYSTEM™**

#### **MSHA Requirements**

The Part 75 MSHA regulations require that the machine operator performs a walk-around inspection of the machine before it is operated. The following is the text from the MSHA 30 CFR, Part 75.1914(e) regulations pertinent to this pre-op inspection.

*MSHA 30 CFR Part 75.1914 Maintenance of diesel-powered equipment.*

*(a) Diesel-powered equipment shall be maintained in approved and safe condition or removed from service.*

*(b) Maintenance and repairs of approved features and those features required by Sections 75.1909 and 75.1910 on diesel-powered equipment shall be made only by a person qualified under Section 75.1915.*

*(c) .....*

*(d) .....*

*(e) Mobile diesel-powered equipment that is to be used during a shift shall be visually examined by the equipment operator before being placed in operation. Equipment defects affecting safety shall be reported promptly to the mine operator.*

Note: MSHA text is provided for reference only. Refer to the official MSHA published regulations.

#### **DST Dry System™ Inspection Requirements**

The DST Dry System™ requires very little maintenance, when compared with water scrubbers. The pre-op inspection is required by MSHA to ensure that there is no damage to the DST Dry System™ and all components are properly in place. It is not necessary to perform flushing and refilling of the DST Dry System™. There are no floats or water level sensors that must be checked.

The following form is intended to guide the operator through the walk-around inspection. Please refer also to any machine inspection procedures in the OEM manual, as the following page refers ONLY to the DST Dry System™.

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## OPERATION AND MAINTENANCE MANUAL PART D, M301-019-01

### PRE-OPERATING INSPECTION FOR THE DST DRY SYSTEM™

#### Dry System™ Pre-operation Checklist

OPERATOR'S PRE-OP CHECKLIST FOR THE DST SYSTEM		
DE-ENERGIZED WALK-AROUND INSPECTION PERFORMED BEFORE EACH SHIFT		
ITEM	DESCRIPTION	COMPLETED
1	Make certain equipment is in a safe condition and in a safe area prior to the inspection.	
2	Make sure the machine is clean and free of accumulations of combustibles.	
3	Check the DST Dry System™ for external damage and to determine that all components are in place and not damaged.	
4	Look for loose or missing DST components and loose or missing hardware.	
5	Look for gas leakage at each flange connection of the DST Dry System™.	
6	Inspect the bellows assembly for external damage or leakage.	
7	Check for damaged coolant hoses, vent hoses and coolant leaks.	
8	The surge tank must be completely full. <b>DO NOT OPEN RADIATOR CAP IF HOT.</b>	
9	Check the coolant overflow bottle. Coolant must be between upper and lower marks. Add coolant mix if needed.	
10	Check the radiator cap on top of the surge tank to be in place and tightened.	
11	Check the radiator core for obstructions, plugging, damage and leaks.	
12	Check the fan for broken or missing blades.	
13	Check all belts to be properly tightened and in good condition.	
14	Check the water level in the tank for the on-board cleaning system and top off with clean bottled water if necessary.	
15	Check all gauges for external damage.	
16	Replace all lids and secure all access doors as needed.	
17	Complete this form and place in operator's cab	
18	Report all damage or problems to Maintenance for further action.	

Name: ..... Date: .....