

Preliminary - For Review Only

NAVSEA
STANDARD ITEM

FY-06

ITEM NO: 009-38
DATE: 30 AUG 2002
CATEGORY: II

1. SCOPE:

1.1 Title: Boiler Dry Lay-up; accomplish

2. REFERENCES:

2.1 S9086-GY-STM-010/CH-221, Boilers

3. REQUIREMENTS:

3.1 Fill or drain water in steam drum to a level below the bottom of the manhole.

3.1.1 Inject 10 pounds of sodium nitrite for each 1,000 gallons of boiler water in a slurry solution to the water in the boiler.

3.1.1.1 If boiler is pressurized, inject sodium nitrite after pressure drops to 100 PSIG or less.

3.2 Fill the steam drum to bring water level to the top of the gage glass using water conforming to the following requirements:

| <u>CONSTITUENT</u> or <u>PROPERTY</u> | <u>REQUIREMENT</u> |
|---------------------------------------|---|
| pH | 5.8 to 8.0 |
| Conductivity | 2.5 micromho/cm (at point of delivery) |
| Dissolved Silica | 0.2 ppm (0.2 mg/L) max |
| Hardness | 0.10 epm (0.10 meg/L) max |

3.2.1 Submit one legible copy, in hard copy or electronic media, of chemical analysis to the SUPERVISOR prior to adding water to boiler.

3.2.2 Prevent water level from carrying the solution over into the superheater.

3.3 Remove and dispose of the solution from the boiler immediately.

3.3.1 Do not drain the solution to the bilge.

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3.4 Remove each drum manhole plate and header handhole plate from boiler.

3.4.1 Do not remove seal welded handhole plates.

3.5 Blow out horizontal tubes with clean air to remove any water. Dry remaining solution from water walls, economizers, superheater headers, steam and water drums.

3.6 Circulate heated air with positive flow through the firesides and watersides, as long as the boiler is in a dry lay-up condition, in accordance with Paragraph 221-2.3.7.1 of 2.1.

3.6.1 Introduce and exhaust heated air in accordance with Table 221-2 of 2.1.

(V) "INSPECT BOILER LAY-UP"

3.6.2 Inspect the boiler daily and at the end of each work shift and ensure dry lay-up conditions are maintained in accordance with Paragraphs 221-2.4.6.2 and 221-2.4.6.3 of 2.1.

4. NOTES:

4.1 None.