

Maine Yankee

RELIABLE ELECTRICITY FOR MAINE SINCE 1872

EDISON DRIVE • AUGUSTA, MAINE 04336 • (207) 622-4868

November 14, 1989

MN-89-141

GDW-89-365

Director of Nuclear Reactor Regulation
UNITED STATES NUCLEAR REGULATORY COMMISSION
Washington, DC 20555

Attention: Mr. Richard H. Wessman, Division of Reactor Projects I-3

References:

- (a) License No. DPR-36 (Docket No. 50-309)
- (b) USNRC Letter to Maine Yankee dated September 7, 1989 - Request for Additional Information for Closeout of IE Bulletin 79-15
- (c) USNRC Letter to Maine Yankee dated July 11, 1979, IE Bulletin No. 79-15, Deep Draft Pump Deficiencies
- (d) Maine Yankee Letter to USNRC dated September 11, 1979 (WMY-79-92), Response to IE Bulletin No. 79-15

Subject: Response to Request for Additional Information - Containment Spray Pumps - for Closeout of IE Bulletin No. 79-15

Gentlemen:

Maine Yankee was requested, by Reference (b), to provide additional information, for USNRC review, to enable closeout of MRC IE Bulletin No. 79-15. The following information is enclosed:

- Type and Application of Pumps
- Detailed Maintenance History

The following information has been provided directly to Maine Yankee's NRR Project Manager, Mr. Eric J. Leeds:

- Drawings, Sectional Assemblies and Parts Lists
- Applicable P & IDs
- Recent Testing Requirements, Procedures, and Results

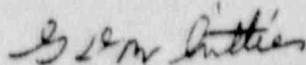
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This supplements information previously provided in Reference (d). Should you have any questions on this information, please contact us.

Very truly yours,



G. D. Whittier, Manager
Nuclear Engineering and Licensing

RCC:WSD

Enclosures

c: Document Control Desk
Mr. Eric J. Leeds
Mr. William T. Russell
Mr. Cornelius F. Holden

ENCLOSURE 1

TYPE AND APPLICATION OF PUMPS

Containment Spray Pumps P-61A, B, and S

Manufacturer: Byron Jackson
Model No.: 18 CKXH-2STG VMT
Capacity: 3700 GPM at 305 ft TDH
Dimensions: Height 36 ft 5-5/8 in.
Diameter 28 in.

Application: Described in Section 6.3 of the Maine Yankee Final Safety
Analysis Report

ENCLOSURE 2

DETAILED MAINTENANCE HISTORY

P-61A:

3/19/73	MR 493-73	Sealing line to the gland area leaks at the connection union. Tightened unions, leak stopped.
3/4/74	MR 219-74	Repaired mechanical seal leak-off line leaks.
9/27/77	MR1513-77	Small leak in leak-off gland area. Replaced leaking pipe union assembly with 1500 lb. safety class stainless tubing assembly using crimp fittings. System pressure tested by Operations. System is leak tight.
5/15/86	DR6184-85	P-61A has an excessive packing leak. Installed new mechanical seal internals. Replaced the following internals: Stationary face, rotating face, "O" ring, mechanical seal seat gasket, bellows adapter gasket, sleeve gasket, and flange gasket. Pump shaft run out and checked (0.004 T.I.R). Pump impeller lift set to 1/4". Per factory rep., the bellows assembly had to be heated to 400 degrees F for installation of rotating face. It was allowed to cool slowly. Final dial indicator readings taken with the dial indicator mounted on the motor shaft to the inside of the stuffing box of the pump. Per telecon with Byron Jackson Field Services, misalignment of 2 1/4 thousandths is acceptable.
6/16/87	DR3634-87	P-61A standing water in casing - drain plugged up. Unplug drain casing. Remove debris, clean up.
7/16/87	DR4433-87	The cap located on the lower part of the seal housing has a steady dripping leak. Pipe cap removed, threads cleaned and inspected, new sealant applied and cap reinstalled.
5/9/88	DR1112-88	Gland leakage on P-61A. No leakage without pump running. Replaced obsolete seal with replacement model (per print 1B7393-1-01) under component substitution.
10/5/88	DR3354-88	P-61A has gland leaking. The pump was found dry after test surveillance. If pump is leaking it is not through seal.

ENCLOSURE 2

DETAILED MAINTENANCE HISTORY(continued)

P-61B:

2/6/74	MR 219-74	Repaired mechanical seal leak-off line leaks.
12/27/73	MR2147-73	Tightened up pipeplugs, leak stopped.
4/4/77	MR 454-77	Removed and replaced mechanical seal cooling coil vent valve with new one. Replaced with 1/2" Whitey valve. SS 12NBSB.
9/27/77	MR1513-77	Small leak in gland area. Replaced leaking pipe union assembly with 1500 lb. rated Safety Class 1 stainless steel tubing assembly using crimp fittings. System pressure tested by Operations. System is leak tight.
10/30/79	MR1250-79	P-61B damaged by extended operation without flow. Removed, disassembled, and inspected pump to determine damage. Removed motor, mechanical seal, pump shafts and impellers. Measure all critical fits. Cleaned all fits and ordered all necessary replacement parts. Placed shaft sections between centers and checked for bent shafts. Found one to be 0.011" out of alignment. Straightened bent shaft. All shafts are now within 0.002".
3/26/81	MR1699-80	Reassemble P-61B ref. MR1250-79. Reassembled pump according to Maintenance procedure MYM-5-45. Installed new mechanical seal, throttle bushings, all new shaft sleeves and carbon bearings, new upper shaft wear ring on eye impeller and wear ring on lower impeller.
4/22/82	MR 843-82	Seal is leaking. Checked out seal and found minor leakage. Seal leakage determined not to be sufficient enough to replace seal or cause concern.
6/16/87	DR3638-87	Gland has a lot of boron build-up on it. Deborate and clean up. Repair leak. Cleaned pump in the gland area. Tightened swedgloc fittings.
8/14/87	DR5226-87	Gland has a lot of boron build-up, does not appear to be leaking when pump is not running. Cleaned boron and observed no obvious damage.
10/5/88	DR2319-88	Boron leak seal cooler pipe fitting. Tubing fittings are leaking at mechanical seal area. Tightened fitting and there was no apparent leak.

ENCLOSURE 2

DETAILED MAINTENANCE HISTORY(continued)

P-61S:

3/4/74	MR 219-74	Repaired mechanical seal leak-off line leaks.
4/4/77	MR 454-77	Mechanical seal cooling coil vent valve is leaking. Removed existing 1/2" stainless steel Whitey valve and replaced with new one No. SS-12858.
9/27/77	MR1513-77	Small leak in gland area. Replaced leaking pipe union assembly with a 1500 lb. rated safety class 1-1/2" stainless steel tubing assembly using crimped fittings. System was pressure tested by Operations. System is leak tight.
6/14/88	DR2579-88	P-61S seal is leaking. Tubing fittings are leaking at mechanical seal area.

ENCLOSURE 2

DETAILED MAINTENANCE HISTORY(continued)

P-61S:

3/4/74	MR 219-74	Repaired mechanical seal leak-off line leaks.
4/4/77	MR 454-77	Mechanical seal cooling coil vent valve is leaking. Removed existing 1/2" stainless steel Whitey valve and replaced with new one No. SS-12858.
9/27/77	MR1513-77	Small leak in gland area. Replaced leaking pipe union assembly with a 1500 lb. rated safety class 1-1/2" stainless steel tubing assembly using crimped fittings. System was pressure tested by Operations. System is leak tight.
6/14/88	DR2579-88	P-61S seal is leaking. Tubing fittings are leaking at mechanical seal area.