

10

Babcock & Wilcox

Nuclear Power Generation Division

a McDermott company

3315 Old Forest Road
P.O. Box 1260
Lynchburg, Virginia 24505
(804) 384-5111

50-460
50-518
50-432/39
50-514/15

January 13, 1981

Mr. Victor Stello, Director
Office of Inspection and Enforcement
United States Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Stello:

Pursuant to the requirements of 10 CFR 21 this report, in three copies, is made concerning lube oil coolers supplied on Makeup/High Pressure Injection Pumps for the Washington Public Power Supply System (WPPSS), Tennessee Valley Authority (TVA) and Portland General Electric (PGE) contracts. Attached is a listing with identification numbers of the pumps (Bingham-Willamette vendor) and a drawing of the heat exchangers (Ametek, Schutte & Koerting Division of Whitlock - Subvendor) involved.

The cause of this concern is that the head opposite the inlet and outlet piping connections of these makeup/high pressure pump lube oil coolers can be misoriented so that the coolers can have a 2-pass configuration instead of the intended 4-pass orientation.

The concern is that the vendor has confirmed that the change from the 4-pass to 2-pass configuration will reduce the heat exchange area of the coolers by 50%. This loss of 50% heat exchange surface when taken with maximum design cooling water temperature of 105°F could cause the lube oil temperature to exceed the maximum allowable temperature of 200°F resulting in possible loss of the high pressure injection function.

This concern has been judged reportable under the requirements of 10 CFR 21.

Examination of B&W records shows that the pumps were supplied with these heat exchangers on WPPSS, TVA and PGE contracts and to Power Authority of the State of New York (PASNY), a contract that has been cancelled. No other plants under construction and no operating plants have been supplied with these coolers on Makeup/High Pressure Injection Pumps.

Mr. Victor Ste...o

-2-

January 13, 1981

Corrective action consist of:

- Notification of affected licensees of this concern-completed.
- Addition of explicit warning about proper orientation of cooler heads in the pump instruction manuals - completed.
- Investigation through the pump vendor of the feasibility of making field changes to limit physically the position of the cooler head to the proper orientation for 4-pass configuration.

In the interest of thoroughness PASNY will also be notified by telecon of this concern even though it is a cancelled contract.

Mr. D. E. Guilbert, Vice President, Nuclear Power Generation Division of Babcock & Wilcox Company was informed of this reportable concern on January 8, 1981.

This letter confirms our telephone conversation of January 9, 1981 on the subject with G. W. Reinmuth of your office.

Very truly yours,

J. H. Taylor by *T. L. Baldwin*
J. H. Taylor
Manager, Licensing

JHT/fw

Enclosures - As stated

cc: Mr. D. E. Guilbert-Vice-President
Nuclear Power Generation Division

Mr. R. B. Borsum - Bethesda Representative

Mr. G. W. Reinmuth - NRC - Office of Inspection and Enforcement

PUMP IDENTIFICATION

Makeup & Seal Injection Pump

Washington Public Power Supply System, WNP 1 and 4

Vendor - Bingham-Willamette Co.

Pump - Type CP High Pressure Pump, 3 x 4 x 8½ 11-Stage Horizontal (Double Case)

WNP 1 (B&W Contract - 620-0023)

<u>B&W Mark No.</u>	<u>WPPSS Iden. No.</u>
MUP1A	1-MUS-PMP-1A
MUP1B	1-MUS-PMP-2B
MUP1C	1-MUS-PMP-3C

Bingham-Willamette Co. Serial No's. 230281, 230282, 230283

WNP 4 (B&W Contract - 620-0032)

<u>B&W Mark No.</u>	<u>WPPSS Iden. No.</u>
4MU-P1A	4-MUS-PMP-1A
4MU-P1B	4-MUS-PMP-2B
4MU-P1C	4-MUS-PMP-3C

Bingham-Willamette Co. Serial No's. 16210028, 16210029, 16210030

Tennessee Valley Authority, Bellefonte Nuclear Plant No. 1, Bellefonte Nuclear Plant No. 2

Vendor - Bingham-Willamette Co.

Pump - Type CP High Pressure Pump, 4 x 6 x 8½ 11-Stage Horizontal (Double Case)

Bellefonte No. 1 (B&W Contract - 620-0015)

<u>B&W Mark No.</u>	<u>TVA Iden. No.</u>
1-MU-P1A	1MPMP-001-A
1-MU-P1B	1MPMP-002-A
1-MU-P1C	1MPMP-003-B

Bingham-Willamette Co. Serial No's. 230286, 230287, 230288

Bellefonte No. 2 (B&W Contract - 620-0016)

<u>B&W Mark No.</u>	<u>TVA Iden. No.</u>
2-MU-P1A	2MPMP-001-A
2-MU-P1B	2MPMP-002-A
2-MU-P1C	2MPMP-003-B

Bingham-Willamette Co. Serial No's. 230291, 230292, 230293

Portland General Electric Company Pebble Springs

Vendor - Bingham-Willamette Company

Pump - Type CP High Pressure Pump, 3 x 4 x 8 $\frac{1}{4}$ 11-Stage Horizontal (Double Case)

Pebble Springs (B&W Contract - 620-0024)

<u>B&W Mark No.</u>	<u>PGE Iden. No.</u>
MU-P1A	P-205A
MU-P1B	P-205B
MU-P1C	P-205C

Bingham-Willamette Co. Serial No's. 230633, 230634, 230635

PART 21 IDENTIFICATION NO. 81-343-000 COMPANY NAME Babcock & Wilcox

DATE OF LETTER 1/13/81 DOCKET NO. 50-460/013; 50-436/439; 50-511/015

DATE DICTATED 1/22/81 a.m. ORIGINAL REPORT SUPPLEMENTARY

D. ACTION:

REACTOR (R)

FUEL CYCLE &

SAFEGUARDS (S)

IE FILES

MATERIALS (M)

IE FILES

EES

IE FILES

AD/SG

AD/FF/MSI

AD/ROI

REGIONS I,II,III,IV,V

REGIONS I,II,III,IV,V

REGIONS I,II,III,IV,V

VENDOR BR. R-IV

VENDOR BR. R-IV

VENDOR BR. R-IV

LOEB / MPA MNB 5715

NMSS / FCMS SS-396

NRR/DOL

AEOD MNB 7602

LOEB / MPA MNB 5715

NMSS / SG SS-881

NRR/DOE

AEOD MNB 7602

LOEB / MPA MNB 5715

NRR/DSI

ASLBP E/W 450

AEOD MNB 7602

NRR/DST

SAP/SP MNB-7210A

ASLBP E/W 450

NRR/DOL

CENTRAL FILES 016

CENTRAL FILES 016

ASLBP E/W 450

CENTRAL FILES (CHRON)

CENTRAL FILES (CHRON)

CENTRAL FILES 016

PDR

CENTRAL FILES SS-396

CENTRAL FILES (CHRON)

LPDR

PDR

TERA

LPDR

PDR

TERA

LPDR

TERA

ACTION:

PRELIMINARY EVALUATION OF THE ATTACHED REPORT INDICATES LEAD RESPONSIBILITY FOR FOLLOWUP AS SHOWN BELOW:

IE

NRR

NMSS

OTHER

EES

