VALCOR ENGINEERING CORPORATION
2 LAWRENCE ROAD, SPRINGFIELD, NEW JERSEY 07081, U.S.A. (201)467-8400

TWX 710-996-5976 CABLE: VALCOR
FAX(201)467-8382

April 14, 1986.

U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

ATTN: Mr. Walter P. Haass

SUBJECT: OPPD 10CFR-21 Report dated 3/17/86, Docket No. 50-285
REF: Valcor letter to you dated, 3/24/86.

Dear Sir:

Valcor has assembled information concerning the customers and valve part numbers that may be affected by the failure of the 17-7 PH Springs, as noted in the subject report. Attached is a copy of the list of customers affected, (Attachment I).

Valcor is in the process of notifying each of the customers noted, and attached is a copy of the form letter that will be used, (Attachment II). The estimated date of completion of this notification is 4/30/86.

Also, Valcor will notify all other customers that have specified other types of water applications, (Attachment III).

Very truly yours,
VALCOR ENGINEERING CORPORATION

Gene Borgo

Gene Borgo
Director Quality Assurance

GB/fh
Attach.

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ATTACHMENT I

VALVE LIST - REACTOR COOLANT AND
BORATED WATER SERVICES

CUSTOMER	PO NUMBER	JOB ORDER	VALVE PART NUMBER
BALTIMORE G&E	00712-GX	E19373	104220001
COMBUSTION ENG.	9872172,5	N11060	414150002
COMMONWEALTH ED.	266850	E07998	144140004
	205951	N12862	V52600-5294-2
			V52600-5294-1
CON. EDISON	0-24092	E17992	204160006
			223160006
			104160007
	0-24215,0-47649	E18188	104170004
		[illegible]727	104170004
		E19370	104170004
DAIRYLAND	A-82698	E19393	104220003
EBASCO/KAPL	3662-MN-3-1.199	N18009	484150002
FLORIDA P&L	NY-422552	E13018	514130001
			554130001
	FLO-2998.140B-1	N14991	V52600-515-1
FLUOR/WISCONSIN PUBLIC	05555	N17663	104160002
			108170003
			218170001
			523170001
			553170001
			827170001
GEORGIA POWER	PAV-2459	N14972	208130001
			218130001
	PAV2-97	N14973	208130001
			218130001
GPU	PP-01121	N24122	214220001
JCP&L	44491	E17975	104170003
NORTHEAST UTIL.	639705	E11944	108150005
NORTHERN STATE	MQ 05017	N17381	104170001
OMAHA PUBLIC	00202	E05370	414660001
			414660002
			454660001
ROCHESTER G&E	W-EZ-03714-79-1	N17265	214130002
S.C.P&L	SN10482-SR	N17259	104160009
TOLEDO EDISON	12501-055	E08386	214140003
			864640001
TVA	77K3-821230-2	E13797	V52600-5293-4
			V52600-6030-3
			V52600-6030-7
			V52600-6040-5

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ATTACHMENT II

April 14, 1986

Attention: Purchasing Manager

Subject: Solenoid Valve Spring Failure
(Borated or Reactor Chemistry Water)

Reference: P.O.
J/O
Valve Part #

Dear Sir:

Valcor has been notified of three instances where valves using P.W.R. reactor chemistry water as their fluid at temperatures above 440 degrees F have experienced 17-7PH material spring failures after approximately one to two years service. Two other valves in the same reactor chemistry water were examined and no effect was noted on the springs. Valcor has no knowledge of any other valve spring failures. The investigation indicates that the most probable cause of the spring failure was hydrogen embrittlement.

As a conservative measure this notification is being made to all known customers where the fluid specified for the valves is borated water or reactor chemistry water, and the springs in the valve are 17-7PH material. Complete information on the application of your valve is unknown, but should your valve be used in a system where hydrogen embrittlement is probable, we recommend close monitoring of the valve for any change in normal operation such as increased seat leakage or an increase in the time required to transfer positions.

VALCOR ENGINEERING CORP.

Replacement springs of material not subject to hydrogen embrittlement are available at Valcor Engineering. Please contact Gary Kristoff, Nuclear Contracts for specific information on spring replacement kits, should your application require the upgrade.

We trust this information is sufficient but if you have any questions feel free to contact us.

Very Truly Yours,

VACOR ENGINEERING CORPORATION

GENE BORGO
DIRECTOR OF QUALITY ASSURANCE

GB/rm

CC: QA Manager

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ATTACHMENT III

April 14, 1986

Attention: Purchasing Manager

Subject: Solenoid Valve Water Application

Reference: P.O.
J/O
Valve Part #

Dear Sir:

Valcor has been notified of three instances where valves using P.W.R. reactor chemistry water as their fluid at temperatures above 440 degrees F have experienced 17-7PH material spring failures after approximately one to two years service. Two other valves in the same reactor chemistry water were examined and no effect was noted on the springs. Valcor has no knowledge of any other valve spring failures. The investigation indicates that the most probable cause of the spring failure was hydrogen embrittlement.

As a conservative measure this notification is being made to all known customers where the fluid specified for the valves is water and the springs in the valve are 17-7PH material. Complete information on the application of your valve is unknown, but should its application be reactor chemistry water or a system where hydrogen embrittlement is probable, we recommend close monitoring of the valve for any change in normal operation such as increased seat leakage or an increase in the time required to transfer positions.

VALCOR ENGINEERING CORP.

Replacement springs of material not subject to hydrogen embrittlement are available at Valcor Engineering. Please contact Gary Kristoff, Nuclear Contracts for specific information on spring replacement kits, should your application require the upgrade.

We trust this information is sufficient but if you have any questions feel free to contact us.

Very Truly Yours,

VALCOR ENGINEERING CORPORATION

GENE BORGO
DIRECTOR OF QUALITY ASSURANCE

GB/rm

CC: QA Manager