

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

March 31, 1994

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Serial No. 94-197
NL&P/JDH R0
Docket Nos. 50-338
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License Nos. NPF-4
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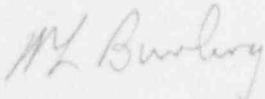
Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA POWER STATION
INFORMATION TO SUPPORT NRC GL 89-10 INSPECTION

On March 29, 1994, Mr. E. Girard, NRC Region II, requested certain information pertaining to the implementation of NRC Generic Letter 89-10 at North Anna Power Station. The request was for a list of motor-operated valves within the scope of GL 89-10 that have been differential pressure-tested. The list was to specify the valve number, type, size, differential pressure utilized during the test, design basis differential pressure, and a brief description of the valve function. Based on that information, NRC intends to select certain valves for further review during an upcoming NRC inspection at North Anna currently scheduled to begin April 11, 1994. The information requested is attached.

If you have any further questions, please contact Ms. P. E. DeTine at (304) 273- 3426.

Very truly yours,



M. L. Bowling, Manager
Nuclear Licensing & Programs

Attachment

ADDCK 1/1

cc: U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, N.W.
Suite 2900
Atlanta, Georgia 30323

Mr. R. D. McWhorter
NRC Senior Resident Inspector
North Anna Power Station

NORTH ANNA POWER STATION MOV TEST SUMMARY as of

3/31/94

GRP	#	MARK #	FUNCTION	VALVE		SIZE	PRES CL	VP DRWG #	VENDOR	DESIGN	TEST	DP TEST	PRA RISK
				TYPE	MFG					DP	PRESS	STATUS	SIGNIFICANCE
				(In)		(psi)		DRWG #	(PSID)	(PSID)		(VH,H,L, No)	
1	1-SW-MOV-110A		Recirc Air Cool Coil Supply Header	BFQT	ALLIS CH	8	150	6 50-26A	55S2436-02	*	**	SAT - UI	HRS
	1-SW-MOV-110B		Recirc Air Cool Coil Supply Header	BFQT	ALLIS CH	8	150	6 50-28A	55S2436-02	*	**	SAT - UI	HRS
	1-SW-MOV-114A		Recirc Air Cool Coil Return Header	BFQT	ALLIS CH	8	150	6 50-28A	55S2436-02	*	**	SAT - UI	HRS
	1-SW-MOV-114B		Recirc Air Cool Coil Return Header	BFQT	ALLIS CH	8	150	6 50-28A	55S2436-02	*	**	SAT - UI	HRS
3	2-SW-MOV-203A		RSHx Inlet	BFQT	ALLIS CH	16	150	6 50-19B	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-203B		RSHx Inlet	BFQT	ALLIS CH	16	150	6 50-19B	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-203C		RSHx Inlet	BFQT	ALLIS CH	16	150	6 50-19B	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-203D		RSHx Inlet	BFQT	ALLIS CH	16	150	6 50-19B	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-204A		RSHx Outlet	BFQT	ALLIS CH	16	150	6 50-19B	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-204B		RSHx Outlet	BFQT	ALLIS CH	16	150	6 50-19B	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-204C		RSHx Outlet	BFQT	ALLIS CH	16	150	6 50-19B	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-204D		RSHx Outlet	BFQT	ALLIS CH	16	150	6 50-19B	55S2436-02	*	**	SAT - UI	VHRS
5	1-SW-MOV-117		Aux SW Pump Discharge	BFQT	ALLIS CH	24	150	6 50-31A	55S2371-03	*	**	SAT - UI	HRS
	2-SW-MOV-217		Aux SW Pump Discharge	BFQT	ALLIS CH	24	150	6 50-29A	55S2371-03	*	**	SAT - UI	HRS
6	2-SW-MOV-201A		RSHx Supply Header	BFQT	ALLIS CH	24	150	6 50-27A	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-201B		RSHx Supply Header	BFQT	ALLIS CH	24	150	6 50-27A	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-201C		RSHx Supply Header	BFQT	ALLIS CH	24	150	6 50-27A	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-201D		RSHx Supply Header	BFQT	ALLIS CH	24	150	6 50-27A	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-205A		RSHx Return Header	BFQT	ALLIS CH	24	150	6 50-27A	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-205B		RSHx Return Header	BFQT	ALLIS CH	24	150	6 50-27A	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-205C		RSHx Return Header	BFQT	ALLIS CH	24	150	6 50-27A	55S2436-02	*	**	SAT - UI	VHRS
	2-SW-MOV-205D		RSHx Return Header	BFQT	ALLIS CH	24	150	6 50-27A	55S2436-02	*	**	SAT - UI	VHRS
7	2-SW-MOV-220B		SW Disch to CW Disch Tunnel	BFQT	ALLIS CH	24	150	3900-000-125-012E	56697-1B-05	*	**	SAT - UI	LRS
9	1-CH-MOV-1350		Emergency Borate	GADD	ALOYCO	2	150	6 43-29	E-47731	124	85.5	SAT	NONE
	2-CH-MOV-2350		Emergency Borate	GADD	ALOYCO	2	150	6 43-29	E-47731	124	79	SAT	NONE
13	2-CH-MOV-2267A		RWST to Chrg Pump Suction	GADD	ALOYCO	6	150	6 43-38	E-48085	207	184.5	SAT	LRS
	2-CH-MOV-2267B		LHSI to Chrg Pump Suction	GADD	ALOYCO	6	150	6 43-38	E-48085	207	181.5	SAT	LRS
	2-CH-MOV-2269A		RWST to Chrg Pump Suction	GADD	ALOYCO	6	150	6 43-38	E-48085	207	185	SAT	LRS
	2-CH-MOV-2269B		LHSI to Chrg Pump Suction	GADD	ALOYCO	6	150	6 43-38	E-48085	207	182	SAT	LRS
	2-CH-MOV-2270A		RWST to Chrg Pump Suction	GADD	ALOYCO	6	150	6 43-38	E-48085	207	185	SAT	LRS
	2-CH-MOV-2270B		LHSI to Chrg Pump Suction	GADD	ALOYCO	6	150	6 43-38	E-48085	207	182	SAT	LRS
16	2-SI-MOV-2862A		RWST to LHSI Pump Suction	GAFW	ALOYCO	10	150	6 36-41	D-50198	26	9	SAT	VHRS
	2-SI-MOV-2862B		RWST to LHSI Pump Suction	GAFW	ALOYCO	10	150	6 36-41	D-50198	26	24.5	SAT	VHRS
17	1-SI-MOV-1862A		RWST to LHSI Pump Suction	GADD	ALOYCO	12	150	6 39-45	E-48921	27	22	SAT	VHRS
	1-SI-MOV-1862B		RWST to LHSI Pump Suction	GADD	ALOYCO	12	150	6 39-45	E-48921	27	22	SAT	VHRS
21	1-QS-MOV-102A		CAT to RWST	GADD	CRANE	6	150	6 36-14	78738	30	24.5	SAT	NONE
	1-QS-MOV-102B		CAT to RWST	GADD	CRANE	6	150	6 36-14	78738	30	24.5	SAT	NONE
23	1-QS-MOV-100A		RWST to QS Pump Suction	GADD	CRANE	10	150	6 36-2	7872	27	22	SAT	NONE
	1-QS-MOV-100B		RWST to QS Pump Suction	GADD	CRANE	10	150	6 36-2	7872	27	23	SAT	NONE
	2-QS-MOV-200A		RWST to QS Pump Suction	GADD	CRANE	10	150	6 36-2	7872	27	22.5	SAT	NONE
	2-QS-MOV-200B		RWST to QS Pump Suction	GADD	CRANE	10	150	6 36-2	7872	27	23	SAT	NONE
24	1-SI-MOV-1864A		LHSI to RCS Cold Leg Injection	GASP	CRANE	10	300	6 43-31	K8380	201	158	SAT	VHRS
	2-SI-MOV-2864A		LHSI to RCS Cold Leg Injection	GASP	CRANE	10	300	6 43-31	K8380	201	182	SAT	VHRS
	2-SI-MOV-2864B		LHSI to RCS Cold Leg Injection	GASP	CRANE	10	300	6 43-31	K8380	201	185	SAT	VHRS
27	2-CH-MOV-2115C		VCT to Charging Pump Suction	GAFW	DARLING	4	150	6 43-26	1S-1029-3E	79	61	SAT	VHRS
	2-CH-MOV-2115E		VCT to Charging Pump Suction	GAFW	DARLING	4	150	6 43-26	1S-1029-3E	79	63	SAT - UI	VHRS
28	2-CH-MOV-2115B		RWST to Charging Pump Suction	GAFW	DARLING	8	150	6 43-24	1S-1028-3E	155	160	SAT	VHRS
	2-CH-MOV-2115D		RWST to Charging Pump Suction	GAFW	DARLING	8	150	6 43-24	1S-1028-3E	155	159	SAT	VHRS
29	1-SI-MOV-1863A		LHSI to HHSI Suction	GAFW	DARLING	8	150	6 39-25	3S-1028-3E	212	154	SAT - UI	HRS
	2-SI-MOV-2863A		LHSI to HHSI Suction	GAFW	DARLING	8	150	6 43-25	3S-1028-3E	212	171	SAT	HRS
	2-SI-MOV-2863B		LHSI to HHSI Suction	GAFW	DARLING	8	150	6 43-25	3S-1028-3E	212	164	SAT	HRS
31	1-SI-MOV-1890A		LHSI to RCS Hot Leg Injection	GADD	DARLING	10	1500	6 43-36	93-13308	201	182	SAT	VHRS
	1-SI-MOV-1890D		LHSI to RCS Cold Leg Injection	GADD	DARLING	10	1500	6 43-36	93-13308	201	182	SAT	VHRS
	2-SI-MOV-2890A		LHSI to RCS Hot Leg Injection	GADD	DARLING	10	1500	6 43-36	93-13308	201	182	SAT	VHRS
	2-SI-MOV-2890B		LHSI to RCS Hot Leg Injection	GADD	DARLING	10	1500	6 43-36	93-13308	201	185	SAT	VHRS

NORTH ANNA POWER STATION MOV TEST SUMMARY as of

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	2-SI-MOV-2890C	LHSI to RCS Cold Leg Injection	GADD	DARLING	10	1500	6 43-36	93-13306	201	182	SAT	VHRS
	2-SI-MOV-2890D	LHSI to RCS Cold Leg Injection	GADD	DARLING	10	1500	6 43-36	93-13308	201	182	SAT	VHRS
32	1-FW-MOV-100A	Aux Feed Pump Discharge	GL	FISHER	3	1500	7 65-3	CU-1275A	1446	1386	SAT	LRS
	1-FW-MOV-100B	Aux Feed Pump Discharge	GL	FISHER	3	1500	7 65-3	CU-1275A	1446	1390	SAT - UI	LRS
	1-FW-MOV-100C	Aux Feed Pump Discharge	GL	FISHER	3	1500	7 65-3	CU-1275A	1446	1382	SAT	LRS
	1-FW-MOV-100D	Aux Feed Pump Discharge	GL	FISHER	3	1500	7 65-3	CU-1275A	1446	1388	SAT	LRS
	2-FW-MOV-200A	Aux Feed Pump Discharge	GL	FISHER	3	1500	7 65-3	CU-1275A	1446	1356	SAT	LRS
	2-FW-MOV-200C	Aux Feed Pump Discharge	GL	FISHER	3	1500	7 65-3	CU-1275A	1446	1356	SAT	LRS
34	1-SI-MOV-2885A	Low Head Pump Recirc	GL	VELAN	2	1500	6 43-6	137 116/1	196	60	SAT	VHRS
	1-SI-MOV-2885C	Low Head Pump Recirc	GL	VELAN	2	1500	6 43-6	137 116/1	196	59	SAT	VHRS
	2-SI-MOV-2885A	Low Head Pump Recirc	GL	VELAN	2	1500	6 43-6	137 116/1	196	145	SAT	VHRS
	2-SI-MOV-2885B	Low Head Pump Recirc	GL	VELAN	2	1500	6 43-6	137 116/1	196	149	SAT	VHRS
	2-SI-MOV-2885C	Low Head Pump Recirc	GL	VELAN	2	1500	6 43-6	137 116/1	196	146	SAT	VHRS
	2-SI-MOV-2885D	Low Head Pump Recirc	GL	VELAN	2	1500	6 43-6	137 116/1	196	151	SAT	VHRS
35	2-CH-MOV-2275A	High Head Pump Recirc	GL	VELAN	2	1500	6 43-6	137 116/1	2740	2640	SAT	NONE
	2-CH-MOV-2275B	High Head Pump Recirc	GL	VELAN	2	1500	6 43-6	137 116/1	2740	2820	SAT	NONE
	2-CH-MOV-2275C	High Head Pump Recirc	GL	VELAN	2	1500	6 43-6	137 116/1	2740	2680	SAT	NONE
36	2-CH-MOV-2289A	Normal Charging Header Isolation	GAFW	VELAN	3	1500	6 43-7	88405-2	2636	2627	SAT - UI	NONE
	2-SI-MOV-2867A	HHSI to BIT Inlet	GAFW	VELAN	3	1500	6 43-7	88405-2	2636	2657	SAT	VHRS
	2-SI-MOV-2867B	HHSI to BIT Inlet	GAFW	VELAN	3	1500	6 43-7	88405-2	2636	2658	SAT	VHRS
	2-CH-MOV-2287A	Charging Pump Discharge to Alternate Header	GAFW	VELAN	3	1500	6 43-7	88405-2	2739	2606	SAT	NONE
	2-CH-MOV-2287B	Charging Pump Discharge to Alternate Header	GAFW	VELAN	3	1500	6 43-7	88405-2	2739	2758	SAT	NONE
	2-CH-MOV-2287C	Charging Pump Discharge to Alternate Header	GAFW	VELAN	3	1500	6 43-7	88405-2	2739	2607	SAT	NONE
	2-CH-MOV-2286A	Charging Pump Discharge to Normal Header	GAFW	VELAN	3	1500	6 43-7	88405-2	2739	2624	SAT	LRS
	2-CH-MOV-2286B	Charging Pump Discharge to Normal Header	GAFW	VELAN	3	1500	6 43-7	88405-2	2739	2650	SAT - UI	LRS
	2-CH-MOV-2286C	Charging Pump Discharge to Normal Header	GAFW	VELAN	3	1500	6 43-7	88405-2	2739	2643	SAT	LRS
	2-CH-MOV-2370	Chrg Pmp Disch to Seal Water Injection Filters	GAFW	VELAN	3	1500	6 43-7	88405-2	2740	2800	SAT	VHRS
	2-SI-MOV-2836	HHSI Alternate Flow to RCS Cold Legs	GAFW	VELAN	3	1500	6 43-7	88405-2	2740	2790	SAT	VHRS
37	2-SI-MOV-2869A	HHSI Alternate Flow to RCS Hot Legs	GAFW	VELAN	3	1500	6 43-37	88418-3	2764	2770	SAT	LRS
	2-SI-MOV-2869B	HHSI Normal Flow to RCS Hot Legs	GAFW	VELAN	3	1500	6 43-37	88418-3	2764	2667	SAT	LRS
40	2-CH-MOV-2373	Chrg Pmp Recirc Header Isolation	GAFW	WESTING	3	1500	6 43-47	115E075	2740	2739	SAT	NONE
42	2-CH-MOV-2289B	Normal Charging Header Isolation	GAFW	WESTING	3	2035	6 43-46	8378D38	2636	2670	SAT	NONE

UI = Uninstrumented

* Butterfly Valve design requirements are DP, flow and disk position dependent

**Test conducted at maximum achievable DP and flow