Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

John A. Scalice
Site Vice President, Watts Bar Nuclear Plant

NOV 0 5 1997

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

Gentlemen:

In the Matter of) Docket No. 50-390
Tennessee Valley Authority)

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 - GENERIC LETTER (GL) 89-13 - SERVICE WATER SYSTEM PROBLEMS AFFECTING SAFETY-RELATED EQUIPMENT - CONFIRMATION OF COMMITMENT COMPLETION (TAC NO. M74082)

The purpose of this letter is to provide confirmation that the baseline inspection/testing of the WBN Unit 1 safety-related heat exchangers cooled by essential raw cooling water (ERCW) has been completed. A program that implements GL 89-13 recommendations has also been established with a frequency of once a cycle for a minimum of three cycles. This program has been implemented as discussed in TVA's July 30, 1997 letter.

In the July 30, 1997 letter, TVA committed to inspect one cooler from each of the five groups of engineered safety feature (ESF) coolers before startup from the first refueling outage with the remaining coolers to be inspected in conjunction with maintenance activities during Cycle 2. In a teleconference on July 22, 1997, NRC accepted that approach providing the inspection results from the five coolers supported the justification for the extended inspection period of the remaining coolers. The results of the inspections are provided in the enclosure.

A matrix that documents inspection and performance data for the 26 ESF coolers is provided in the enclosure. One cooler from Groups 1 through 5 has been inspected with satisfactory results.

A065

9711130085 971105
PDR ADOCK 05000390
P PDR

Two small clams were found and subsequently removed from the 1A Centrifugal Charging Pump Room Cooler inlet manifold. These two clams did not obstruct flow. No cleaning of the other 4 coolers was required and no abnormal fouling was evident in any of the coolers. In March 1991, 8 ESF coolers were inspected with no indications of foreign material tube obstruction. Of the remaining 13 ESF coolers that have not been inspected, 10 have combined air and water flow margins that exceed the minimum design flow requirements by 20% or more. The remaining 3 coolers have combined air and water flow margins of more than 10% in the worst case ERCW flow balance operating mode.

The inspection data in the enclosure and the above discussion supports the extended baseline inspection period. If you should have any questions, please contact P. L. Pace at (423) 365-1824.

Sincerely,

R. Rancell for

J. A. Scalice

Enclosure
cc (Enclosure):

NRC Resident Inspector
Watts Bar Nuclear Plant
1260 Nuclear Plant Road
Spring City, Tennessee 37381

Mr. Robert E. Martin, Senior Project Manager
U.S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Rockville, Maryland 20852

U.S. Nuclear Regulatory Commission
Region II
Atlanta Federal Center
61 Forsyth St., SW, Suite 23T85
Atlanta, Georgia 30303

ENCLOSURE

ESF COOLER INSPECTION AND TESTING DATA

ESF Cooler Inspection and Testing Data

COMPONENT ID	MIN DESIGN AIR FLOW (CFM)	PREOP TEST AIR FLOW (CFM)	AIR FLOW MARGIN (%)	PREOP TEST DATE	PREOP TEST FAN SPEED (RPM)	PREOP DATE	LATEST FAN SPEED (RPM)	DATE	SPEED CHANGE (%)
1-PMCL-030-0175-A	6233	7318	17.4	9/3/94	928	4/4/94	920	10/27/95	-0.9
1-PMCL-030-0176-B	6233	7585	21.7	9/2/94	940	3/27/94	NA		NA
1-PMCL-030-0177-A	7674	8567	11.6	9/8/94	808	9/18/94	810	10/28/95	0.2
1-PMCL-030-0178-B	7674	8547	11.4	9/10/94	799	9/7/94	800	9/5/97	0.1
1-PMCL-030-0179-B	6669	7193	7.9	9/12/94	781	9/17/94	784	10/28/95	0.4
1-PMCL-030-0180-A	6669	7566	13.5	9/11/94	816	8/2/94	784	9/5/97	-3.9
1-PMCL-030-0182-B	8280	8876	7.2	9/2/94	554	3/29/94	NA		NA
1-PMCL-030-0183-A	8280	8861	7.0	9/2/94	565	3/29/94	597	10/20/97	5.7
2-PMCL-030-0184-A	18788	21858	16.3	12/7/94	629	12/7/94	NA		NA
2-PMCL-030-0185-B	18788	20364	8.4	12/3/94	645	12/3/94	NA		NA
1-CLR-030-0186-A	4005	4414	10.2	8/28/94	885	4/17/95	878	10/28/95	-0.8
1-CLR-030-0187-B	4005	4597	14.8	9/8/94	820	8/15/94	872	9/5/97	6.3
1-PMCL-30-0190-A	22487	29718	32.2	9/9/94	785	3/30/94	NA		NA
1-PMCL-30-0191-B	22487	24985	11.1	9/9/94	797	3/30/94	796	10/28/95	-0.1
0-PMCL-30-0192-A	6650	7611	14.5	4/14/95	724	4/14/95	724	10/28/95	0.0
0-PMCL-30-0193-B	6650	7370	10.8	2/18/95	746	2/18/95	747	10/28/95	0.1
1-PMCL-030-0194-A	3915	4383	12.0	9/5/94	850	8/14/94	850	10/28/95	0.0
1-PMCL-030-0195-B	3915	4689	19.8	1/23/95	896	8/4/94	898	10/28/95	0.2
2-PMCL-030-0194-A	3915	4329	10.6	8/28/94	823	8/13/94	829	9/5/97	0.7
2-PMCL-030-0195-B	3915	4689	19.8	9/10/94	780	10/25/94	786	10/28/95	0.8
1-CLR-030-0196-A	3281	3803	15.9	9/3/94	967	9/17/94	966	10/28/95	-0.1
1-CLR-030-0197-B	3281	3645	11.1	9/10/94	943	9/17/94	945	10/28/95	0.2
2-CLR-030-0200-A	2957	3212	8.6	9/11/94	1025	9/18/94	1023	10/28/95	-0.2
2-CLR-030-0207-B	2957	3589	21.4	9/3/94	1006	9/18/94	1003	10/28/95	-0.3
1-CLR-030-0201-A	3915	4344	11.0	3/21/95	760	3/21/95	762	10/28/95	0.3
1-CLR-030-0202-B	3915	5084	29.9	5/17/95	740	5/17/95	747	10/28/95	0.9

ESF Cooler Inspection and Testing Data

COMPONENT ID	MIN DESIGN H2O FLOW (GPM)	PREOP TEST LO H2O FLOW (GPM)	PREOP DATE	H20 FLOW MARGIN (%)	AIR/H2O FLOW/SPEED FLOW (%)	VISUAL INSPECT WO/WR	GROUP	INSPECT DATE	INSPECTION FINDINGS
1-PMCL-030-0175-A	19	20	3/6/95	5.3	21.8	MR A671078	1	3/6/91	No foreign material found.
1-PMCL-030-0176-B	19	25	2/21/95	31.6	*53.3*	MR A671079	1	3/6/91	No foreign material found.
1-PMCL-030-0177-A	28	28	3/2/95	0.0	11.9	MR A671080	2	3/4/91	No foreign material found.
1-PMCL-030-0178-B	28	30	2/21/95	7.1	18.6	MR A671081	2	3/6/91	No foreign material found.
1-PMCL-030-0179-B	22	24	2/21/95	9.1	17.3	97-12358-00	1	10/13/97	No significant findings.
1-PMCL-030-0180-A	22	22	3/6/95	0.0	*13.5*		1		
1-PMCL-030-0182-B	25	30	2/21/95	20.0	27.2		2		
1-PMCL-030-0183-A	25	25	3/6/95	0.0	7.0	97-12358-01	2	10/17/97	No significant findings. 2 clams found.
2-PMCL-030-0184-A	60	61	3/2/95	1.7	18.0		3		
2-PMCL-030-0185-B	60	64	2/21/95	6.7	15.1		3		
1-CLR-030-0186-A	12	20	3/6/95	66.7	76.1	MR A678911	5	3/7/91	No foreign material found.
1-CLR-030-0187-B	12	23	2/21/95	91.7	*106.4*	MR A671082	5	3/7/91	No foreign material found.
1-PMCL-30-0190-A	102	108	3/6/95	5.9	38.0		3		
1-PMCL-30-0191-B	102	105	2/21/95	2.9	13.9	97-12358-02	3	10/13/97	No significant findings.
0-PMCL-30-0192-A	29	30	3/2/95	3.4	17.9	97-12358-03	4	10/13/97	No significant findings.
0-PMCL-30-0193-B	29	32	2/21/95	10.3	21.3		4		
1-PMCL-030-0194-A	12	21	3/6/95	75.0	87.0		5		
1-PMCL-030-0195-B	12	22	2/21/95	83.3	103.3		5		
2-PMCL-030-0194-A	12	21	3/6/95	75.0	*85.6*	97-12358-04	5	10/13/97	No significant findings.
2-PMCL-030-0195-B	12	25	3/6/95	108.3	128.9		5		
1-CLR-030-0196-A	11	21	3/6/95	90.9	106.7		5		
1-CLR-030-0197-B	11	22	2/21/95	100.0	111.3		5		
2-CLR-030-0200-A	10	24	3/6/95	140.0	148.4		5		
2-CLR-030-0207-B	10	26	2/21/95	160.0	181.1		5		
1-CLR-030-0201-A	15	28	3/6/95	86.7	97.9	MR A671083	5	3/7/91	No foreign material found.
1-CLR-030-0202-B	15	33	2/21/95	120.0	150.8	MR A671084	5	3/7/91	No foreign material found.