

**TENNESSEE VALLEY AUTHORITY**

Watts Bar Nuclear Plant  
P. O. Box 800  
Spring City, Tennessee 37381

July 20, 1987

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Gentlemen:

In the Matter of the Application of ) Docket Nos. 50-327, 50-328  
Tennessee Valley Authority ) 50-390, 50-391  
50-259, 50-260  
50-296, 50-438  
50-439

**EMPLOYEE CONCERNS TASK GROUP (ECTG)**

Construction Subcategory Report 17100 was submitted to the NRC on June 24, 1987. Pages 9-17 of Attachment A and Attachments B and C were inadvertently omitted. These pages are included with this letter for your inclusion into your copy of Construction Subcategory Report 17100.

Please telephone me at (615) 365-3587 (Watts Bar) if you have any questions.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*James R. Russell*  
James R. Russell  
Watts Bar Nuclear Plant  
ECTG Licensing Manager

cc (See page 2.):

8707310087 870720  
PDR ADOCK 05000259  
P PDR

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**U.S. Nuclear Regulatory Commission**

**cc: Mr. G. G. Zech, Assistant Director  
Regional Inspections  
Division of TVA Projects  
Office of Special Projects  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323**

**Mr. John A. Zwolinski, Assistant Director  
For Projects  
Division of TVA Projects  
Office of Special Projects  
U.S. Nuclear Regulatory Commission  
4350 East West Highway  
EWW 322  
Bethesda, Maryland 20018**

**Browns Ferry Resident Inspector  
Browns Ferry Nuclear Plant  
Route 2, P. O. Box 311  
Athens, Alabama 35611**

**Sequoyah Resident Inspector  
Sequoyah Nuclear Plant  
2600 Igou Ferry Road  
Soddy Daisy, Tennessee 37379**

**Watts Bar Resident Inspector  
Watts Bar Nuclear Plant  
P. O. Box 800  
Spring City, Tennessee 37381**

**Bellefonte Resident Inspector  
Bellefonte Nuclear Plant  
P. O. Box 2000  
Hollywood, Alabama 35752**

ATTACHMENT A

REFERENCE - ECPS131J-ECPS131C  
 FREQUENCY - REQUEST  
 ONP - ISSS - RWM

TENNESSEE VALLEY AUTHORITY  
 OFFICE OF NUCLEAR POWER  
 EMPLOYEE CONCERN PROGRAM SYSTEM (ECPS)

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LIST OF EMPLOYEE CONCERN INFORMATION

CATEGORY: CO CONSTRUCTION-PROCESS SUBCATEGORY: 171 MECHANICAL

CONCERN NUMBER	CAT	SUB CAT	PLT LOC	GENERIC APPL			QTC/NSRS INVESTIGATION REPORT	P S R	CONCERN DESCRIPTION	REFERENCE SECTION #	
				B	B	S				W	CO
IN-85-879-001 T50167	CO	171	WBN	N	N	N	Y		SR	AN INSPECTION WAS PERFORMED AROUND 1980 OR 1981 IN UNIT 1. ICE CONDENSER, AIR SUPPLY AND RETURN WALL DUCT. THIS INSPECTION REVEALED THAT A NUMBER OF DUCTS WERE BLOCKED/RESTRICTED VARYING FROM 30% TO 100%. THE INSPECTION WAS TERMINATED WITH NO FOLLOW UP ACTION. CONSTRUCTION DEPT. CONCERN. CI HAS NO MORE INFORMATION.	1.2.2 3.2.2 4.2.2 5.0
IN-85-964-X06 T50179	CO	171	WBN	N	N	N	Y	I-85-677-WBN	SR	CRAFT PERSONNEL USE "SUPERGLUE" INSTEAD OF "PERMATEX" TO SEAL GASKETS TO FLANGES. C/I HAS NO MORE INFORMATION. CONSTRUCTION DEPARTMENT CONCERN.	1.2.5 3.2.5 4.5.1 4.5.2 5.0
IN-85-964-002 T50177	CO	171	WBN	N	N	N	Y		SR	SUPERINTENDENT (NAME KNOWN) HAD TEMPORARY MATERIALS PUT INTO PERMANENT SERVICE IN THE INTAKE PUMPING STRUCTURE. EXAMPLE: PLUMBING, C/S FITTINGS, SUCH AS ELLS AND TEES OF UNKNOWN SIZES. CI HAS NO FURTHER INFORMATION.	1.2.5 3.2.5 4.5.1 4.5.2 5.0

CONCERNS ARE GROUPED BY FIRST 3 DIGITS OF SUBCATEGORY NUMBER.

2515T

ATTACHMENT A

REFERENCE - ECPS131J-ECPS131C  
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			B	B	S	W				Category	CO	
			F	L	Q	B				Subcategory	171	
IN-85-982-003 T50111	CO	171	WBN	N	N	N	Y		SR	SCHEDULE 80 PIPE WELDED TO SCH. 40 FITTINGS AND SCHEDULE 80 FITTINGS WELDED TO SCH. 40 PIPE ON "CLASS H" LINE (8" DIA) DONE IN MID-1970. ENTER T.B. #2 VIA RAIL DOOR, LOOK UP AND TO RIGHT. PIPE IS ABOUT 12' ABOVE 729' EL., NEAR HAND RAILING. NO FOLLOW UP REQUIRED.	1.2.5 3.2.5 4.5.1 4.5.2 5.0	
IN-86-055-002 T50114	CO	171	WBN	N	N	N	Y	I-85-414-WBN	SR	LEAKING PIPE ON 692' ELEV., AUX. BLDG., UNIT #1. CI HAS NO MORE INFORMATION. TIME FRAME: CURRENT.	1.2.5 3.2.5 4.5.1 4.5.2	5.0
IN-86-184-002 T50204	CO	171	WBN	N	N	N	Y	I-85-680-WBN	SR	CLASSIFICATION OF STAINLESS STEEL PIPING SHOULD BE OF CONCERN. DIFFERENT GRADES AND DIFFERENT CLASS OF PIPE ARE ASSEMBLED IN THE SAME PIPING SYSTEM. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.	1.2.5 3.2.5 4.5.1 4.5.2 5.0	

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CATEGORY: CO CONSTRUCTION-PROCESS SUBCATEGORY: 171 MECHANICAL

CONCERN NUMBER	SUB CAT	PLT LOC	GENERIC APPL			QTC/NSRS INVESTIGATION REPORT	P S R	CONCERN DESCRIPTION	REFERENCE SECTION #		
			B	B	S				W	CONCERN CATEGORY	CO
			F	L	Q	B				171	
IN-86-184-004 T50203	CO	171	WBN	N	N	N	Y	I-85-680-WBN	SR	THERE ARE DIFFERENT SIZE (GAUGE) PIPE WELDED TOGETHER. THIS OCCURRED IN REACTOR #1 AND THE FEED WATER HEATER STORAGE TANK. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.	1.2.5 3.2.5 4.5.1 4.5.2 5.0
IN-86-200-004 T50199	CO	171	WBN	N	N	N	Y		NO	10/15/85: CI OBSERVED 100'-150' RUN OF 30" O PIPE DROP 3"-4" WHEN STEAM-FITTERS REMOVED A HANGER (HANGER WAS BEING REMOVED IN ACCORDANCE WITH A WORK PACKAGE). LINE LOCATED IN TURBINE BUILDING, ELEV685', COLUMN T-14 AROUND "C" LINE. CONSTRUCTION DEPT. CONCERN. CI HAS NO ADDITIONAL INFORMATION.	1.2.5 3.2.5 4.5.1 4.5.2 5.0
IN-86-205-001 T50148	CO CO CO	101 151 171	WBN	N	N	N	Y	I-85-598-WBN	SR	ERCW (3" INTAKE) PIPELINES ARE UNSUITABLE FOR SERVICE. ALL FOUR LINES WERE SUBJECTED TO STRESS DURING ORIGINAL BACKFILLING WITH IMPROPER METHODS (UNCONTROLLED DUMPING) DURING ORIGINAL INSTALLATION: ABOUT 1976. LATENT	1.2.5 3.2.5 4.5.1 4.5.2 5.0

CONCERNS ARE GROUPED BY FIRST 3 DIGITS OF SUBCATEGORY NUMBER.

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TENNESSEE VALLEY AUTHORITY  
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CATEGORY: CO CONSTRUCTION-PROCESS SUBCATEGORY: 171 MECHANICAL

CONCERN NUMBER	SUB CAT	PLT LOC	GENERIC APPL				QTC/NSRS INVESTIGATION REPORT	P S R	CONCERN DESCRIPTION	REFERENCE SECTION #	
			B	B	S	W				Category	Subcategory
IN-86-205-001										CO	171

IN-86-205-001  
 (Continued)

STRESS BECAME EVIDENT WHEN PIPE WAS EXCAVATED AND CUT FOR MORTAR LINING IN ABOUT 1982. BECAUSE THE PIPE MOVED UP TO 8" WHEN CUT. PIPE REQUIRED EXCESSIVE FORCE TO RE-INSTALL SECTIONS THAT HAD BEEN REMOVED. PRESENT LATENT PIPE STRESS LEVELS ARE NOT KNOWN. ALTHOUGH THE PIPE WAS CLEANED THOROUGHLY BEFORE BEING LINED WITH MORTAR, THE MORTAR WAS SEEN TO BE STILL WET AND WAS ALREADY FLAKING OFF WHEN THE PIPE WAS TESTED SEVERAL TIMES AT 600 PSI AND COULD HAVE BEEN DAMAGED BY EXCESSIVE TESTING. A DOWN-STREAM 90° ELBOW AND BUTTERFLY VALVE (BOTH 24" DIAMETER) HAVE BEEN REPLACED BECAUSE THEY HAD BEEN WORN THROUGH BY LOOSE FLAKES OF THE INTAKE LINES' MORTAR LINING. CONSTRUCTION DEPT. CONCERN. CI HAS NO FURTHER INFORMATION. NO FOLLOW UP REQUIRED.

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CONCERN NUMBER	CAT	SUB CAT	PLT LOC	GENERIC APPL				QTC/NSRS INVESTIGATION REPORT	P S R	CONCERN DESCRIPTION	REFERENCE SECTION #	
				B	B	S	W				Category	Subcategory
IN-86-205-002 T50148	CO MP	171 706	WBN	N	N	N	Y		SR	BAD MANAGEMENT HAS CAUSED THE PROBLEMS AT WBNP. EXAMPLES INCLUDE: INEPT ENGINEERING PERSONNEL WERE ALLOWED TO GIVE BAD TECHNICAL DIRECTION TO THE CRAFT ON UNIT #2 FEED-WATER HEATERS (#1 & #2, ON 692' EL.). BOTH WORK AND FINAL HARDWARE ADEQUACY WERE AFFECTED BY TECHNICAL MISDIRECTION, INCLUDING INACCURATE "SHOOTING IN" OF HEATER CENTERLINES BY ENGINEERS (KNOWN). CRAFT WAS NOT PERMITTED TO "FIELD RUN". NO FOLLOW UP REQUIRED.	1.2.3 3.2.3 4.3.2 5.0 5.1.3	CO 171
IN-86-282-004 T50241	CO	171	WBN	Y	Y	Y	Y		SR	PRESSURE TESTS WERE NOT APPLIED ON MANY VENDOR NPP-1 ASME CODE DATA FORMS FOR CONTAINMENT PENETRATIONS. THE PENETRATIONS WERE INSTALLED AND HYDRO TESTS WERE NEVER VERIFIED AND DOCUMENTED. ADDITIONAL INFORMATION KNOWN TO QTC, WITHHELD TO MAINTAIN CONFIDENTIALITY. NO FURTHER INFORMATION MAY BE RELEASED. CONSTRUCTION DEPARTMENT CONCERN. CI HAS NO FURTHER INFORMATION.	1.2.5 3.2.5 4.5.1 4.5.2 4.5.3 4.5.4 4.5.5 5.0 6.5 7.1.5 7.2.5	CO 171

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CATEGORY: CO CONSTRUCTION-PROCESS

SUBCATEGORY: 171 MECHANICAL

CONCERN NUMBER	CAT	SUB CAT	PLT LOC	GENERIC APPL			QTC/NSRS INVESTIGATION REPORT	P S R	CONCERN DESCRIPTION	REFERENCE SECTION #	
				B	B	S				W	CO
IN-86-284-002 T50178	CO	171	WBN	N	N	N	Y	SR	VALVES V329 & V330 IN THE IN-CORE INSTRUMENT BUILDING WERE PRESSURE-TESTED BY AIR IN 1980, BUT THESE VALVES SHOULD HAVE BEEN HYDRO-TESTED. CI STATED THAT THE VALVES WERE REPLACED (POSSIBLY AFTER TESTING). CI HAS NO FURTHER INFORMATION. CONSTRUCTION DEPT. CONCERN.	1.2.1 3.2.1 4.1.2 5.0	
IN-86-311-001 T50255	CO	171	WBN	N	N	N	Y	SR	BELLOWS WERE INSTALLED WITHOUT PROPER PAPERWORK IN THE ANNULUS AREA BEHIND THE NORTH FIRE ROOM, IN THE SUMMER OF 1985. NAMES AND DETAILS KNOWN TO QTC, BUT WITHHELD TO MAINTAIN CONFIDENTIALITY. NO ADDITIONAL INFORMATION MAY BE RELEASED. CONSTRUCTION DEPT. CONCERN.	1.2.3 3.2.3 4.3.2 5.0	
PH-85-003-004 T50106	CO	171	WBN	N	N	N	Y	SR	THERE IS NO INSULATION BETWEEN PUMPS ON EL 692'. (NAMES KNOWN TO QTC AND RELEASE OF THIS INFORMATION WOULD JEOPARDIZE CI'S CONFIDENTIALITY) CI HAS NO MORE INFORMATION AVAILABLE. NO FOLLOW UP REQUIRED.	1.2.4 3.2.4 4.4.2 5.0	

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				B F	B L	S Q				W B	CO
PH-85-035-001 T50194	CO	171	WBN	N	N	N	Y	SR	4" S.S. DRAIN LINE RUNNING FROM 676' ELEV TO 713' ELEV FROM THE COLLECTOR TANK IN UNIT 1 SYSTEM 77 OR 26 WAS INSTALLED AS A TEMPORARY LINE, HOWEVER THE LINE WAS LEFT AS PERMANENT, WITH NO INSPECTION OR PAPERWORK DOCUMENTED. CONSTRUCTION DEPT. CONCERN. CI HAS NO FURTHER INFORMATION.	1.2.5 3.2.5 4.5.1 4.5.2 5.0	
PH-85-035-004 T50194	CO	171	WBN	N	N	N	Y	SR	A TANK IN AUX BUILDING, ELEV. 713, IN UNIT 1 WAS OVER PRESSURIZED APPROXIMATELY 200 PSI. THIS CAUSED A BULGE IN THE TANK AT ANGLE IRON BAND. CI STATED, THE TANK WAS BOUGHT OFF BY BY ENGINEERING, BECAUSE IT COULD NOT BE REMOVED FOR REPAIR. CONSTRUCTION DEPT. CONCERN. CI HAS NO FURTHER INFORMATION.	1.2.3 3.2.3 4.3.2 5.0	
BLN- QCP10.35-8-14	CO	171	BLN	N	Y	N	N	SS	INCORRECT SLOPE IN FPS PIPING	1.2.5 3.2.5 4.5.1 4.5.5	5.0

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			B	B	S	W				CATEGORY	CO
			F	L	Q	B			SUBCATEGORY	171	
BLN-QCP10.35-8-15	CO	171	BLN	N	Y	N	N	SR	CI CONCERNED THAT AIR IN FPS PIPES COULD REACT WITH WATER AND RUST PIPES AND VALVES. HE FELT SYSTEM SHOULD BE CHARGED WITH WATER AT ALL TIMES.	1.2.5 3.2.5 4.5.1 4.5.5	5.0
BLN-QCP10.35-8-17	CO	171	BLN	N	Y	N	N	SR	SOME VALVES IN THE PLANT WERE RUSTED. HE SAID THEY WERE PROBABLY OK BUT JUST LOOKED BAD.	1.2.1 3.2.1 4.1.5 5.0 6.1	
WI-85-053-012 T50134	CO	171	WBN	Y	Y	Y	Y	SR	BURIED PENETRATIONS HAVE VENDOR WELDS THAT WERE NOT INSPECTED DURING HYDRO TESTS. CONSTRUCTION DEPT CONCERN. CI HAS NO FURTHER INFORMATION. NO FOLLOW UP REQUIRED.	1.2.5 3.2.5 4.5.1 4.5.2 4.5.3 4.5.4	4.5.5 5.0 6.5 7.1.5 7.2.5

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				B F	B L	S Q				W B	CO	171
WI-85-096-001 T50207	CO	171	WBN	N	N	N	Y		SR	IN UNIT #1 RAD. LAB. A LARGE DIA-METER PIPE MAY BE DEFORMED. THE DEFORMITY MAY BE COVERED WITH INSULATION. CI HAS NO ADDITIONAL INFORMATION. ANONYMOUS CONCERN.	1.2.5 3.2.5 4.5.1 4.5.2 4.5.5	5.0
KX-85-068-001 T50140	CO	171	BLN	N	Y	N	N	I-85-642-BLN	SR	BELLEFONTE - TWO PRESSURE GAGES WERE OVER PRESSURIZED PRIOR TO PERFORMANCE OF PHASE 2 OF HYDROSTATIC TEST IKC HOOL. THESE GAGES WERE NOT PROPERLY RECALIBRATED , AND PHASE 1 OF THE HYDROTEST WAS NOT REPERFORMED, DESPITE ANI REQUEST TO DO SO. NCR #3075 DISPOSITIONED THIS TEST. DETAILS KNOWN TO QTC, WITHHELD DUE TO CONFIDENTIALITY CONSTRUCTION DEPT CONCERN. C/I HAS NO FURTHER INFORMATION.	1.2.5 3.2.5 4.5.1 4.5.5 5.0	
KX-85-094-007 T50150	CO	171	BLN	Y	Y	Y	Y	I-85-595-BLN	SR	BELLEFONTE: LIMITORQUE VALVES WERE STORED AND INSTALLED WITH WRONG ALTITUDE (UPSIDE DOWN) AND WERE NOT MAINTAINED (STROKED, ETC). CONSTRUCTION DEPT. CONCERN. CI HAS NO FURTHER INFORMATION. NO FOLLOW UP REQUIRED.	1.2.1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 5.0	6.1 7.1.1 7.2.1

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ATTACHMENT B

LIST OF EVALUATORS

<u>Evaluator</u>	<u>Issue(s) Evaluator</u>
M. B. Bailey	Mechanical Equipment
J. L. Howard	Valves and Pipe/Fittings (SQN evaluator only)
G. L. Portwood	Mixed Structural Connections
M. B. Shirey	Insulation and HVAC
J. K. Bryant	Valves and Pipe/Fittings

ATTACHMENT C

LIST OF CONCERNS BY ISSUE

VALVES

EX-85-034-001  
IN-85-055-N04  
IN-85-169-001  
IN-85-463-003  
IN-85-719-001  
IN-86-284-002  
BLN-QCP-10.35-8-17  
XX-85-094-007

HVAC

EX-85-046-001  
IN-85-879-001

MECHANICAL EQUIPMENT

IN-85-070-001  
IN-85-559-001  
IN-86-205-002  
IN-86-311-001  
PH-85-035-004

INSULATION

IN-85-008-002  
IN-85-186-001  
PH-85-003-004

ATTACHMENT C

LIST OF CONCERNS BY ISSUE

PIPE/FITTINGS

IN-85-089-007  
IN-85-173-001  
IN-85-210-001  
IN-85-211-001  
IN-85-211-002  
IN-85-352-003  
IN-85-442-X10  
IN-85-534-005  
IN-85-793-003  
IN-85-820-001  
IN-85-864-002  
IN-85-964-X06  
IN-85-982-003  
IN-86-055-002  
IN-86-184-002  
IN-86-184-004  
IN-86-200-004  
IN-86-205-001  
IN-86-282-004  
PH-85-035-001  
BLN-QCP-10.35-8-14  
BLN-QCP-10.35-8-15  
WI-85-053-012  
WI-85-096-001  
XX-85-068-001

MIXED STRUCTURAL CONNECTIONS

IN-85-868-003