

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

March 27, 1984

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Denton:

In the Matter of the)
Tennessee Valley Authority)

Docket No. 50-296

During the past several weeks, we have instituted a regulatory performance improvement plan (RPIP) to improve our regulatory compliance at Browns Ferry Nuclear Plant (BFN). This program is based upon the principle of management control through supervisory involvement at all levels in station operation. TVA has discussed the RPIP several times with the NRC Region II staff. Region II has been provided a controlled copy of the RPIP and will be supplied updates to the plan as they occur.

To accomplish our goals relative to the RPIP, we have reduced the level of activity at the site by reducing the number of temporary personnel assigned to unit 3 refueling outage. This reduction led to a redefinition of priorities for unit 3 modification work which in turn requires an adjustment in the modification commitment schedule for the current refueling outage. Enclosed is a total list of modifications to be completed during the unit 3 outage currently in progress (enclosure 1). Also enclosed (enclosure 2) is a list of commitment modifications for which we are requesting deferments, as well as justification, for each request. Most of these items are modifications required by 10 CFR 50.49 (Category IV items).

We hereby request exemption from 10 CFR 50.49 to delay these items for installation until the next refueling outage of unit 3 (approximately February 1986). We also plan to provide a redefinition of priorities for inclusion into our integrated schedule. Included are changes to the 10 CFR 50.49 Category III list as departures from the May 20, 1983 letter to you concerning implementation of 10 CFR 50.49.

We also request that you revise the March 25, 1983 confirmatory orders regarding installation of redundant in-containment radiation monitors that meet the requirements of NUREG 0737, item II.F.1.3. Those orders require installation of the monitors before startup in cycle 6. We request that the orders be revised to reflect installation of the monitors before startup in cycle 7. Enclosure 2 presents the justification for this request.

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Mr. Harold R. Denton

March 27, 1984

A meeting with your staff in the near future is requested to discuss the requested deferrals as well as to answer any questions you may have with regard to our RPIP. We would be happy to address any questions or concerns you may have.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills

L. M. Mills, Manager
Nuclear Licensing

Sworn to and subscribed before
me this 27th day of March 1984.

Paulette H. White
Notary Public
My Commission Expires 9-5-84

Enclosures

cc (Enclosures):

U.S. Nuclear Regulatory Commission
Region II
ATTN: James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Mr. R. J. Clark
U.S. Nuclear Regulatory Commission
Browns Ferry Project Manager
7920 Norfolk Avenue
Bethesda, Maryland, 20814

ENCLOSURE 1

MODIFICATIONS TO BE PERFORMED
DURING CYCLE 5 REFUELING OUTAGE
BROWNS FERRY UNIT 3

UNIT 3 CYCLE 5 MODIFICATION LIST 09:34:04 03-13-84

U3C5...	U SYS	AREA.CORD COGENG....	PRIDOC(MI -DCR/ECN)...	DES.....	CC PROJ
D1987	3 023	FSG-E AUSTIN	D1987	SPLICE OVERHEAD POWER CABLE FROM TIE BOARD TO COOLING TOWER -- RE-CHECK CABLE.	2
D2799	3 305	BFNP-PMT SMITH	D2799	PROVIDE FACILITY TIE-INS TO THE POTABLE WATER AND SEWAGE SYSTEM FOR THE HYPOCHLORITE BLDG. (TACF)	TACF
D2910	3 023	BFNP-M BFNP-M	D2910	ADD A SURGE CHECK VLV BETWEEN DISCH ** LINE & AIR RELEASE VLV ON RHHSW & EECW DISCHARGE PIPING.	**
D2923	3 000	FSG-SC	D2923	SECURITY CHANGES TO THE CONTROL ACCESS INTO & WITHIN THE RX BLDG (COMPLETE 90 DAYS AFTER PLT SECURITY PLAN IS APPVD BY NRC).	** NRC
FCR	3 070	FSG-TORUS TORUS	DFCR	RBCCW RADIATION MONITOR SHIELD	**
FCR3094	3 433	BFNP-PMT SMITH	D2808	(DRAWING CHG ONLY) DELETE FROM APPROPRIATE DRAWING THE 4 DRYWELL ATMOSPHERE RELATIVE HUMIDITY METERS FROM WIRING DIAGRAMS 45N1630, 45N2630, 45N3630. (TACF) (D2808 WILL BE DELETED)	TACF
L1791	3 066	BFNP-PMT SMITH	L1791	MODIFY CONTROLS OF SJAE TO PROVIDE INCREASE STEAM FLOW TO PREVENT H2 BUILDUP (TACF).	TACF
L1845	3 074	FSG-E GORHAM	L1845	LPCI MODIFICATION---CLEAN UP WORK ONLY (INST CONDULET COVERS & CONDUIT SUPPORTS)	2
L1965	3 085	BFNP-M BFNP-M	L1965 D1052	SUBSTITUTE O-RINGS---CRD SCRAM PILOT SOLENOID VALVES	CONT
L1970	3 067	FSG-TORUS GRAM	L1970	CHANGE EECW PIPING & VALVES FROM CARBON STEEL TO STAINLESS STEEL (WILL REQUIRE ANI INVOLVEMENT)	CONT
L1970M	3 067	FSG-DW PARSONS	L1970	EECW PIPING REPLACEMENT IN DG BLDG TO FACILITATE THROTTLE VALVE INSTALLATION (P0709).	CONT
L1972	3 066	BFNP-PMT SMITH	L1972 D1143	PROVIDE 110-V AC POWER TO WATER CHILLER UNITS ON PNLs 25-254 A&B FROM LOCAL CONTROL PANEL. (TACF)	TACF
L2003	3 075	FSG-M ONDOCSIN	L2003	CHANGE OUT CORE SPRAY PIPING IN DRYWELL FROM SS TO CS (WILL REQUIRE ANI INVOLVEMENT)	CONT
L2079	3 076	FSG-M MCLEMORE	L2079	H202 MOD---INITIATE FCR & WORKPLAN TO MOVE SOLENOID VLVS OUTSIDE DRYWELL AND REPLACE HAND VALVES PER NON CONFORMANCE REPORT BFNTDP 8107R2	PI
L2079E	3 076	FSG-E NORMAN	L2079	H202 MOD---INITIATE FCR & WORKPLAN TO MOVE SOLENOID VLVS OUTSIDE DRYWELL AND REPLACE HAND VALVES PER NON CONFORMANCE REPORT BFNTDP 8107R2 (REFERENCE CAR 81-13).	PI
L2107	3 074	FSG-VLV HOLLINS	L2107	REPLACE DISC ON FCV-74-52 & 66	** NRC
L2117	3 090	BFNP-I	L2117	PLACE WIND RECORDER INFORMATION ON	PI

*=DENOTES CHATTANOOGA DESIGNATION TO WORK

#=NON OUTAGE RELATED MODS

4=CANCELLED FOR UNIT 3

**=ADDED AFTER START OF OUTAGE.

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U3C5...	U	SYS	AREA-CORD COG 3....	PRIDOC(MI -DCR/ECN)...	DES.....	CC PROJ
			BFNP-I	D0728R2	RRRMS COMPUTER PER CCPOR 563 (PARTIAL).	
P0027	2	079	FSG-REF CARRIGAN	P0027	HIGH DENSITY FUEL STORAGE RACK WORK	** PI
P0061	3	027	BFNP-I BFNP-I	P0061 D1396	REPLACE DELTA 'P' INDICATING SWITCHES WITH BARTON MODEL	CONT
P0073	3	111	FSG-REF CARRIGAN	P0073 D1458	ADD THRUST ROLLER BEARING, BUSHING, GREASE SEALS & END CLOSURE TO 5 TON HOOK	** CONT
P0093	3	433	FSG-TORUS SAVAGE	P0093	TORUS MOD: VACUUM BREAKER PLATFORMS.	NRC
P0093E	3	433	FSG-E SAMPSON	P0093	TEMPORARY TORUS POWER FEEDER - INSTALL HEAT CURE CABLE & ASSOCIATED HARDWARE	2 NRC
P0100	3	006	FSG-BOP COOPER KERR	P0100	CHANGE HEATER DRAIN TANK LEVEL CONTROL VALVE CHARACTERISTICS	CONT
P0112	3	090	BFNP-I BFNP-I	P0112 D1245R1	THERMAL POWER MONITOR LOGIC CHANGE (TIE INTO 1ST PRINTER).	PI
P0126	3	085	FSG-I HARGIS	P0126 D1398	INSTALL ECCS ATU INVERTERS (IN SUPPORT OF P0533).	NRC
P0185	3	082	FSG-E NORMAN	P0185 D1435	REWIRE DG PROTECTIVE CKT TO BYPASS LOSS OF FIELD TRIP WHEN IN EMERGENCY MODE	** PI
P0210	3	026	BFNP-PMT SMITH	P0210 D1581	MODIFICATIONS NECESSARY DUE TO MALFUNCTIONS OF RSW OR FIREPUMP TRIPS (TACF).	TACF
P0214	3	047	BFNP-E BFNP-E	P0214 D1701	INSTALL GENERATOR BREAKER MUFFLERS TO MAIN GENERATOR AND UPRATE.	PI
P0246	3	066	FSG-E GLOVER	P0246 D1745	RELOCATE HAND SWITCHES FOR OFF-GAS CRITICAL VALVES. (FCV 1-76 A&B, 12-74, 12-75) - FMT	PI
P0268	3	401	FSG-TORUS TRAGLIA	P0268	CONCRETE ANCHOR INSPECTION PER 79-02	NRC
P0271	3	074	FSG-VLV SANDERS	P0271	REMOVE PACKING BLEED OFF VLVS FSC-74-643A & 643B; CAP BLEED OF VLVS HCV 74-559 AND 560	CONT
P0275	3	047	FSG-E AUSTIN	P0275 D1701R1	DEGRADED VOLTAGE RELAY REPLACEMENTS.	PI
P0284	3	001	FSG-I MCMYLER	P0284 D1904	ACOUSTIC MONITORING SYS - REPLACE CHARGE CONVERTERS & CABLES BETWEEN ACCELEROMETERS & THEIR CHARGE CONVERTER.	7901
P0289	3	401	FSG-TORUS TRAGLIA	P0289	HANGER INSPECTIONS PER NRC 79-14.	NRC
P0302	3	433	FSG-DW PARSONS	P0302 D1981R1	DRILL & TAP BOLT HOLES FROM 1 INCH TO 1 1/8 INCH. INSTALL BOLT HATCHES X-1B & X-1A (DW EQUIP HATCHES)	CONT
P0311	3	027	FSG-BOP COOPER	P0311 D2007	SEAL JOINTS IN CCW CONDUITS UNDER TURBINE BLDG	CONT

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P0322	3	433	FSG-I MCMYLER	P0322 D2017	REPLACE EXISTING CONTAINMENT PRESSURE MONITORING SYS WITH ONE CAPABLE OF MEASURING FROM 5 PSIG TO AT LEAST 225 PSI.		NRC
P0323	3	433	FSG-I MCMYLER	P0323 D2018	REPLACE PRESENT TORUS LVL TRANSMITTERS WITH ONES CAPABLE OF MEASURING FROM BOTTOM OF TORUS TO 5 FT ABOVE NORMAL WATER LVL		NRC
P0323T	3	433	FSG-TORUS SAVAGE	P0323	TORUS LEVEL INDICATORS		
P0334	3	079	FSG-RFF CARRIGAN	P0334 D1614	REFUEL PLATFORM - CHANGE 1/2 HP AIR ** COMPRESSOR TO 3/4 HP		CONT
P0360	3	433	FSG-TORUS SAVAGE	P0360 D2161A	TORUS MOD: A,B,C,D GUSSETS: DEMIN WATER RE-ROUTE. Q PLATES		NRC
P0361	3	433	FSG-TORUS SAVAGE	P0361 D2161B	MODIFY TORUS ATTACHED PIPING SUPPORTS (WILL REQUIRE ANI INVOLVEMENT). - SYSTEMS: RHR LOOP I & II, FLEX LINE MOD.		NRC
P0361E	3	433	FSG-E GARBER	P0361 D2161B	WORK ON H2O2 ANALYZERS		NRC
P0362	3	433	FSG-TORUS SAVAGE	P0362 D2161C	TORUS MOD--STRENGTHEN SRV SUPPORTS AND REPLACE MITERS WITH ELLS. (PRE-FAB & INSTALLATION)	2	NRC
P0369	3	073	FSG-E ANERTON	P0369	BYPASS MOD AROUND 73-3 - VERIFY CORRECT INSTALLATION AND ROUTING OF CONDUIT 3ES4457.	2	PI
P0371	3	074	FSG-E GORHAM	P0371 D2159	LPCI BYPASS MOD - INST SPARE COMPT IN 480V RX MOV BD 3D & 3E	2	PI
P0392	3	085	FSG-M ONDOCSIN	P0392 D2201	MODIFY SCRAM DISCHARGE SYSTEM - PREFAB 1 1/2", 2" AND 3" SDIV ATTACHED INSTRUMENT, VENT AND DRAIN PIPING. SET TANK & INSTALL ASSOCIATED PIPE.		NRC
P0392E	3	085	FSG-I HARGETT	P0392 D2201	MODIFY SCRAM DISCHARGE SYSTEM--ELECTRICAL PORTION		NRC
P0399	3	253	FSG-E AUSTIN	P0399 D2344	PROVIDE LONG-TERM SOLUTION TO INSTRUMENT AND CONTROL BUS PROBLEMS (TO BE WORKED WITH P0422 & P0533).		NRC
P0400	3	027	FSG-BOP COOPER	P0400 D2387	REPAIR JOINTS IN THE ROUND PORTION OF CCW CONDUITS THAT ARE LEAKING		CONT
P0415	3	003	FSG-I CARPENTER	P0415 D1947	TEMPERATURE INSTRUMENTATION - REACTOR VESSEL FEEDWATER NOZZLES.		NRC
P0422	3	257	FSG-E GLOVER	P0422 D2354	PROVIDE REDUNDANT CLASS IE PROTECTION AT INTERFACE OF NON-CLASS IE SUPPLIES & THE RPS - INST CIRCUIT PROTECTOR, CONDUIT & CABLE		NRC
P0430	3	075	FSG-RFF CARRIGAN	P0430 D2254	INSTALL BRACKET ASSEMBLIES TO IN-VESSEL CORE SPRAY SPARGERS IN VICINITY OF CRACKS, ETC.		CONT
P0447	3	027	FSG-BOP COOPER	P0447 D2382	CCW EXPANSION JOINT REPAIRS WITH PRE-ASSEMBLED JOINTS		CONT

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P0450	3	329	FSG-RFF CARRIGAN	P0450 D2470	REPLACE EXISTING JET PUMP HOLDDOWN BEAM ASSEMBLIES.		NRC
P0459	3	027	BFNP-PMT SMITH	P0459 D2460	CT SYSTEM-INTERIM FIX -- PROVIDE TEMPERATURE AVERAGE SYSTEM INPUTS TO RRRMS COMPUTER. (TACF)		TACF
P0479	3	057	FSG-E THOMAS K	P0479 D2536	INSTALL EMERGENCY LIGHTING UNITS		NRC
P0480	3	261	BFNP-PMT SMITH	P0480 D1803	PROVIDE PLANT DATA TO ENVIRONMENTAL DATA STATION FOR COMPLIANCE WITH EPA RIVER WATER TEMPERATURE REQUIREMENTS BY WAY OF EXISTING RRRM SYSTEM. (TACF)		TACF
P0499	3	111	FSG-RFF CARRIGAN	P0499	RX BLDG CRANE - REPLACE SS WIRE ROPE WITH CS. REPLACE AUX HOIST ROPE GUIDE.	**	CONT
P0501	3	003	FSG-DW GAUTNEY	P0501 D2257	MODIFY HANGER SUPPORT FOR RFWS-48 TO REDUCE STRESS.		PI
P0527	3	035	FSG-BOP COOPER	P0527 D2461	HYDROGEN COOLERS RETUBE		CONT
P0533	3	433	FSG-I LE-BEAU	P0533 D2631	INSTALL TORUS TEMPERATURE MONITORING DEVICES - INSTALL CONDUIT & CABLE.		NRC
P0533T	3	433	FSG-TORUS SAVAGE	P0533	INSTALL THERMOWELLS IN BAYS 1-5		
P0537	3	074	FSG-VLV HOLLINS	P0537 D2552	INSTALL 1/16-INCH GARLOCK SHEET GASKET ACROSS BONNET AREA & FLEXITALLIC GASKET OF A&M 24-INCH VALVE 74-54 & 74-68		CONT
P0538	3	085	FSG-M WEEKS	P0538 D2482	INSTALL BLIND FLANGES IN THE END OF SCRAM DISCHARGE HEADER TO SERVE AS FLUSH CONNECTIONS (WILL REQUIRE ANI INVOLVEMENT)		PI
P0545	3	074	FSG-E GORHAM	P0545 D2649R1	REPLACE WALDRON 2-1/2 2W COUPLINGS ON ALL LPCI MG (CONTINGENCY)		CONT
P0547	3	068	FSG-VLV THORNTON	P0547 D2627	REPLACE RECIRC VALVES 68-508, 523, 550, 555 (LACK LEAK TEST)		CONT
P0548	3	067	FSG-TORUS SAVAGE	P0548 D2464	INSTALL SLUDGE TRAPS IN THE EECW PIPING UPSTREAM OF EACH RHR PUMP SEAL WATER HEAT EXCHANGER.		PI
P0555	3	433	FSG-TORUS SAVAGE	P0555 D1789	PROVIDE A PROTECTIVE COATING TO THE TORUS INTERIOR ABOVE & BELOW THE WATERLINE		PI
P0557	3	057	BFNP-PMT SMITH	P0557 D2534	INSTALL 10-KVA 120/120/1 PHASE SOLA MINCOMPUTER REGULATING TRANSFORMER (RUSCO CARD ENTRY SECURITY POWER FEEDER). (TACF)		TACF
P0567	3	057	FSG-E THOMAS K	P0567 D2082	REPLACE 2 DIODES (ON DWGS 45W763-7,-8,-9,-10,-11,-12) WITH DIODES HAVING A DC BLOCKING VOLTAGE OF AT LEAST 400 VOLTS DC.		PI
P0569	3	003	FSG-VLV THORNTON	P0569 D2553	REPLACE RPV HEAD VENT VALVES 3-98, 3-99		PI

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P0581	3	241	BFNP-PMT SMITH	P0581 D2042	MOVE SUPERVISORY (ADCC) CONTROL POWER LINE CARRIER 5031 FROM GROUND WIRE TO PHASE WIRE ON BF-ATHENS 161-KV LINE. (TACF)		TACF
P0584	3	078	BFNP-PMT SMITH	P0584 D2098	REVISE FPC ABNORMAL ANNUNCIATION LOGIC SO THAT 1 PUMP MAY RUN WITHOUT CONTINUOUS ALARM. (TACF)	**	TACF
P0585	3	082	FSG-E NORMAN	P0585 D2242	DIESEL GENERATOR SPEED SENSING DEVICE.		PI
P0590	3	247	FSG-E THOMAS K	P0590 D2683	UPGRADE CONTROL ROOM EMERGENCY LIGHTING.		NRC
P0599	3	079	FSG-RFF CARRIGAN	P0599 D1989	REFUEL PLATFORM - REPLACE CS COMPRESSED AIR LINES WITH SS TUBING AND FITTINGS.	**	CONT
P0600	3	068	FSG-E STADDEN	P0600 D2051	MODIFY RECIRC MG SET DRIVE MOTOR & GENERATOR TO ALLOW REMOVAL OF BRUSHES WITH MG SETS IN SERVICE.	2	PI
P0602	3	074	FSG-TORUS SAVAGE	P0602 D2660R1	INSTALL TEST RETURN LINE FLOW LIMITING ORIFICE PLATES AT THE END OF THE RETURN LINE TAILPIPE INSIDE THE TORUS		PI
P0605	3	077	BFNP-PMT SMITH	P0605 D2529	DRAWING CHANGE ONLY - RELOCATE RADWASTE BUILDING FUEL POOL FILTERS/DEMINERALIZERS MONORAIL. (TACF)		TACF
P0608	3	000	FSG-TORUS FSG-TORUS	P0608 D2711	NEW DESIGN FOR SUPPORT HPASH-4	**	
P0611	3	001	FSG-VLV FOLLETT	P0611 D2714R1	MACHINE GASKET SURFACES ON MSRV'S.	2	PI
P0612	3	032	FSG-VLV FOLLETT	P0612 D1946	INSTALL 1/2-INCH SS FLEX LINE FROM CONTROL AIR PERM LINE TO SOLENOID CONTROL OF MSRV'S.		NRC
P0613	3	001	FSG-VLV HOLLINS	P0613 D2723	MSIV GUIDE RIB MOD (TRAINING CLASS TO INSTRUCT DC INSP & MA WILL BE HELD BY COGEN ON INSP REQUIREMENTS PRIOR TO BEGINNING OF WORK).		NRC
P0614	3	001	FSG-VLV HOLLINS	P0614 D2724	MSIV'S - INSTALL LARGER 2-INCH STEM, MODIFY VALVE BONNET BACKSEAT & STUFFING BOX, INSTALL ANTI-ROTATION DEVICE ON POPPET.		NRC
P0616	3	070	FSG-DW GAUTNEY	P0616 D2712R1	REPLACE FITTINGS ON UPPER & LOWER ENDS OF RBCCW OIL COOLER COOLING WATER INLET & OUTLET. (LEAK TEST)	2	PI
P0617	0	420	FSG-CE HOLDER	P0617	RE-ROUTE COOLING TOWER FENCE NEAR TOWER #4; INSTALL GATE FOR NEW TRANSFORMER HAUL ROAD FROM BARGE DOCK. REMOVE SECTION OF E-FIELD, SECURITY FENCE & PERIM-ALERT.		PI
P0621	3	001	FSG-VLV HOLLINS	P0621 D2735	MSIV'S - INSTALL NEW LOCKING TABS, MODIFY LIMIT SWITCH MOUNT PLATES, INSTALL GATE VALVES & ADD HANGERS TO TEST CONNECTIONS.		PI
P0636	3	047	FSG-BOP COOPER	P0636 D2587	REPLACE EHC COOLERS AS REQUIRED WITH FIXED TUBE BUNDLE HEAT		PI

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					EXCHANGERS	
P0638	3	079	FSG-RFF CARRIGAN	P0638 D2654	REVISE NOTES ON DRAWINGS TO ALLOW INSTALLATION OF EQUIPMENT POOL SHIELD PLUGS WITH FUEL IN VESSEL & REACTOR HEAD REMOVED.	PI
P0640	3	420	FSG-CE HOLDER	P0640 - P0645 D2810	BUILDING INSTALLATION (CSB FSG SUPPORT).	PI
P0643	0	420	FSG-CE HOLDER	P0643	NEW SHOP BLDG - INSTALL ELECT POWER FOR SEWAGE LIFT PUMPS.	PI
P0644	0	420	FSG-CE HOLDER CSB	P0644 D2810	FSG OFFICE BLDG - WP8651--ELECTRICAL WORK. WP8634R3--FINISH GRADE, INST SIDEWALKS, ETC. WP8668 INST ARCHITECTURAL FINISH.	PI
P0645	0	420	FSG-E HOLDER	P0645	INSTALL TRANSFORMER AND POWER CABLE FOR FSG OFFICE BLDG. PULL & TERMINATE TELEPHONE CABLE AND INST CONNECTION BLOCKS. SECURITY LIGHTING.	PI
P0646	3	082	FSG-M WEEKS	P0646 D2092R1	INSTALL INSUL VLV ON EACH AIR SUPPLY LINE TO AIR STARTING MOTORS FOR ALL DIESEL GENERATORS	** PI
P0648	3	006	BFNP-M BFNP-M	P0648 D2793	HEATER DRAINS AND VENTS - REPLACE PORTIONS OF THE CARBON STEEL PIPING AND FITTINGS WITH STAINLESS. (HP FW HTR ROOMS)	PI
P0649	3	068	BFNP-PMT SMITH	P0649 D2769	CHANGE ROUTING OF CABLE 3R 160 (TACF). (DOCUMENTATION ONLY).	TACF
P0653	3	001	FSG-VLV HOLLINS FOLLETT	P0653 D2835	REPLACE/REPAIR MSRV TAILPIPE VACUUM BREAKERS	PI
P0657	3	074	FSG-BOP COOPER	P0657 D2492R1	PROVIDE ALTERNATIVE GASKETS FOR RHR HEAT EXCHANGER ON AN AS-DESIRED BASIS.	CONT
P0660	3	401	BFNP-M BFNP-M	P0660 D2790	SECONDARY CONTAINMENT DOOR 235 - CHANGE BUSHING MATERIAL IN HINGE YOKE FROM OILITE TO CARBON STEEL AND A GREASE FITTING FOR LUBRICATION. (TACF)	TACF
P0662	3	329	FSG-RFF CARRIGAN	P0662 D1912R2	PLACE CAVITY SHIELD BLOCKS OVER TOP OF EQUIPMENT POOL.	** CONT
P0666	3	074	FSG-VLV LEE G	P0666 D2878	INSTALL A 1" BYPASS LINE AROUND VLVS 74-675 & -674. WILL INCLUDE 2 CK VLVS & 1 HAND ISOLATION VLV.	PI
P0672	3	057	FSG-I MCMYLER	P0672 D2674	REMOVE PS-3-57A-D AND ASSOCIATED WIRING FROM PANELS 25-5A AND -6A, ETC.	NRC
P0677	3	090	BFNP-PMT SMITH	P0677 D2570	REMOVE HIGH RADIATION AREA DOOR ALARMS FROM THE RFPT ROOMS (DOORS 560-562, 568-583) AND THE ROOF AND CRANE ACCESS ENTRANCE (DOORS 576-578). (TACF)	TACF
P0682	3	003	BFNP-PMT SMITH	P0682 D2777	(TESTABLE CHECK VALVES) FCV-3-92, -98, -94 - ADD A PRESSURE REGULATOR	TACF

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					VLV IN AIR SUPPLY LINE TO CAP END OF AIR CLOSING CYLINDERS. (TACF).	
P0683	3	027	BFNP-PMT SMITH	P0683 D2832	REMOVE OUTSTANDING TEMPORARY CONDITIONS ASSOCIATED WITH SWANSON COOLING TOWER CONTROL SYSTEM (MAKES PERMANENT NUMEROUS TACF'S AND JIWR'S). (TACF)	TACF
P0684	3	064	FSG-VLV THORNTON	P0684 D2854	MODIFY DRYWELL TORUS VACUUM BREAKERS.	PI
P0686	3	085	FSG-DW GAUTNEY PARSONS	P0686	CRD REBUILD ROOM DRAIN LINE	** PI
P0688	3	076	FSG-VLV LEE G	P0688 D2893R1	MODIFY FCV-76-19 TO ALLOW FLANGE SIDE TO BE TESTABLE.	** PI
P0689	3	064	FSG-VLV LEE G	P0689 D2384	ADD STAINLESS STEEL OVERLAY TO SYSTEM 64 VALVE DISCS.	CONT
P0690	3	076	FSG-VLV LEE G	P0690 D2893R1	MODIFY FCV 76-18 TO ALLOW FLANGE SIDE THAT CANNOT BE ISOLATED FROM PRIMARY CONTAINMENT TO BE TESTABLE.	NRC
P0691	3	064	FSG-VLV LEE	P0691 D2859	MODIFY VALVES FCV 64-20, 21, 18, 19, 32, 29 TO ALLOW FLANGE SIDES TO BE TESTABLE.	NRC
P0693	3	406	BFNP-PMT SMITH	P0693 D2726	INSTALL DOOR CLOSURE (ELECTRICAL OVER HYDRAULIC) ON SERVICE DOOR NO. 141 TO MACHINE SHOP ENTRANCE FROM OUTSIDE. (TACF)	TACF
P0695	3	084	FSG-VLV LEE G	P0695 D2924	MODIFY VALVES 84-8A,B,C,D TO ALLOW FLANGE SIDES TO BE TESTABLE.	** PI
P0709	3	082	FSG-DW PARSONS	P0709 D2930	(U1,U2) VLV CHANGEDOUT ON DG COOLERS - PREFAB WORK.	** PI
P0712	3	000	FSG-E	P0712	REGULATING TRANSFORMER	**
P0730	3	329	FSG-DW PARSONS	P0730 D2929R1	REMOVAL OF HEAD SPRAY PIPING	** NRC
P0732	3	305	FSG-CE SMITHSON	P0732 D2602R1	REPLACE OR MODIFY THE EXISTING SEWAGE TREATMENT SYSTEM.	** PI
P3002	3	043	BFNP-M BFNP-M	P3002 D2349	REPLACE FSV-43-13 PER NRC 79-01B	7901
P3003	3	084	BFNP-M BFNP-M	P3003 D2349	REPLACE FSV-84-20 PER NRC 79-01B	7901
P3006	3	073	FSG-I MCMASTERS	P3006 D2349	REPLACE PRESSURE SWITCHES 73-1-C, 1-D, 20-A, 20-B, 20-C, 20-D.	** NRC
P3025	3	073	FSG-I MCMASTERS	P3025 D2349	REPLACE PRESSURE SWITCHES PS-73-22A & 22B	** NRC
P3040	3	077	FSG-VLV PARSONS	P3040 D2349	REPLACE FSV-77-2A & B, 15A & B PER NRC 79-01B	7901
P3043	3	064	BFNP-M BFNP-M	P3043 D2349	REPLACE FSV-64-9, -10, -36, -40, -41, -42, -43.	7901
P3046	3	064	BFNP-M BFNP-M	P3046 D2349	REPLACE FSV-64-139, -140, -141 PER NRC 79-01B.	7901

*=DENOTES CHATTANOOGA DESIGNATION TO WORK
 #=NON OUTAGE RELATED MODS
 4=CANCELLED FOR UNIT 3
 **=ADDED AFTER START OF OUTAGE.

UNIT 3 CYCLE 5 MODIFICATION LIST 09:34:04 03-13-84

U3C5...	U	SYS	AREA.CORD COGENG....	PRIDOC(MI -DCR/ECN)...	DES.....	CC	PROJ
P3069	3	075	BFNP-M BFNP-M	P3069 D2349	REPLACE SOLENOID VLVS FSV-75-57, -58		7901
P3106	3	084	FSG-I CARPENTER	P3106 D2349	REPLACE FLOW TRANSMITTER FT-84-19, -20 PER NRC 79-01B.		7901
P3130	3	032	FSG-VLV THORNTON	P3130 D2349	REPLACE FLOW SOLENOID VALVES FSV-32-62 AND -63.		7901
P3134	3	084	FSG-E GARBER	P3134 D2349	MODIFY MOUNTING BRACKETS ON FM-84-19B & 20B PER 79-01B.	**	NRC
P3138	3	000	FSG-E GARBER	P3138 D2349	REPLACE COOLER MOTOR	**	NRC
P5016	3	068	FSG-DW PARSONS	P5016	REMOVE INACTIVE SNUBBER PADS ON "A" AND "B" LOOP RECIRC PIPING. (REMOVAL REQUIRED FOR IHSI).	**	
P5019	3	002	FSG-TORUS TRAGLIA	P5019	REMOVE VLV 3-2-1143 & CAP TORUS PENETRATION X-228. (LEAK TEST)		2

132 records listed.

*=DENOTES CHATTANOOGA DESIGNATION TO WORK
 #=NON OUTAGE RELATED MODS
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 **=ADDED AFTER START OF OUTAGE.

ENCLOSURE 2
MODIFICATION DEFERRALS AND JUSTIFICATIONS

ECN P0087 is the replacement of paddle-type flow switches in SGTS per LER 259/83018. This modification was committed to be installed by February 15, 1984, in the above LER. Design was not complete and material was not onsite by RPIP guidelines (February 1, 1984) for the upcoming unit 3 cycle 5 outage. The LER was revised (G. T. Jones to J. P. O'Reilly February 21, 1984) to reflect our intended implementation date once the problem was worked out. Related NRC-TVA correspondence includes the LER transmittal of April 22, 1983 (H. J. Green to J. P. O'Reilly).

ECN P0324, (containment hi-rad monitors). We are under confirmatory orders (issued March 25, 1983) to install redundant in-containment radiation monitors at Browns Ferry Nuclear Plant before startup from the cycle 5 outage to meet the requirements of NUREG-0737, item II.F.1.3. There are equipment qualification problems with the cable connections to the drywell penetration for the installation of this equipment, and the full environmental qualification of the installed system is questionable. We request relief from these orders because of the qualification problems, and we will complete installation before startup from the cycle 6 refueling outage of unit 3. The existing containment radiation monitors will remain in service. Related NRC-TVA correspondence concerning order for modification to the NRC March 25, 1983 order concerning Browns Ferry unit 1 includes: TVA letter (D. S. Kammer to H. R. Denton) of October 12, 1983, and NRC letter (D. B. Vassallo to H. G. Parris) of December 12, 1983.

ECN P0085 upgrades drywell temperature and pressure instrumentation. The original scope of this item has been revised within the last few months because of Regulatory Guide 1.97 and IE Bulletin 79-01B considerations. This has resulted in new material and equipment delivery dates that will not allow us to support this modification during the unit 3 cycle 5 outage.

TVA requests deferral to unit 3 cycle 6 based upon material availability.

IE Bulletin 79-01B items that will not be worked during the current unit 3 cycle 5 outage as a result of requesting deferral being added to the list, being deleted from the list, or changing in category as referenced to the May 20, 1983 letter to NRC.

In accordance with the RPIP, all materials and drawings were required to be onsite by February 1, 1984, for implementation of 79-01B items during the unit 3 cycle 5 outage.

1. P3006 PS-73-1(C,D)
- P3019 PS-71-1(C,D)
- P3023 PS-74-8(A,B)
PS-74-1 (A,B)
PS-74-31(A,B)
PS-74-42(A,B)
- P3026 PS-75-7
PS-75-16
PS-75-35
PS-75-44
- P3028 PS-84-21
PS-84-22
- P3084 PS-71-1(A,B)
- P3085 PS-73-1(A,B)

Requisition No. 829416, awarded in August 1981 to Automatic Switch Company (ASCO), was unable to adequately qualify these components. ASCO was notified that this material was removed from the contract. Contract No. 833341 was then released for bid in June 1983 and was awarded to Static-O-Ring in September 1983. Delivery was originally scheduled for November 1983 based on quality assurance (QA) qualified material. TVA-OQA issued a stop work order for their failure to fully implement the required QA program items (OQA 831027 502). Static-O-Ring submitted more data, which OQA found acceptable, and the hold order was released in December 1983. The material was originally scheduled for delivery in mid-March. TVA-EN DES concentrated on other items which had a much better possibility of being implemented. Material was delivered onsite for unit 3 on January 31, 1984. Drawings were not issued until approximately February 9, 1984. These dates were too late for planning and scheduling for the unit 3 outage.

2. P3039 FSV-85-70(A,B)

The original procurement request (PR) was released in June 1981. During a review of the 79-01B items, it was discovered that unacceptable specifications were used to generate the procurement. A revised PR was released in October 1983. Items have been reordered with an expected delivery date of April 13, 1984.

- 3. P3051 PDIS-64-20, PDIS-64-21
- P3053 LIS-3-208(A-D)
- P3058 PT-64-51
- P3098 FIS-75-21, FIS-75-49
- P3104 FT-73-33

PRs were generated between March and July 1981. Requisition was released for bids in June 1981. Bidders proved inadequate in October 1981. All bids were rejected in November 1981. The PRs were revised and released in January and February 1982. A search of the market for qualified indicating switches proved fruitless. After additional PR revisions, a requisition (electronic switches) was released in June 1983. The requisition for transmitters has experienced continued revisions to tailor specifications of available components, resulting in rejection of all first-round bids. The requisition for electronic switches was recommended for award in September 1983 to Rosemount. Delivery is expected to occur in mid-March 1984. An estimated delivery for other components is July 1984.

- 4. P3092 FIS-74-50, FIS-74-64

Requisition No. 829489 was released in May 1981; however, no acceptable bids were received. A review of the market was performed but failed to find acceptable equipment. A second PR was released in November 1982 to procure transmitters in lieu of switches resulting in purchase requisition No. 833150 being released. In early 1983, a potential vendor who could qualify nonindicating switches was found and a third PR for switches was released. Requisition No. 834094 was produced. Quotations are in-house and delivery is expected in August 1984; however, vendors have taken exception to portions of the specifications.

- 5. P3061 LS-73-56(A,B)
- P3087 LS-73-57(A,B)

Contract Nos. 829022 (awarded February 1982) and 829520 (March 19, 1982) went to Magnetrol. Materials under 829022 were delivered. Upon receipt of the qualification report, the instruments were found inadequate. Magnetrol was notified once, twice, and finally, on the third attempt (by three letters in six weeks), Magnetrol responded accepting requirement for retest (estimated 26-week duration) with a performance date of February 1, 1984. With TVA-OQA's approval, the qualified material was received approximately February 13, 1984.

- 6. P3067 FSV-85-35(A,B)

Adequate qualification was thought to originally be available; it was not. The PR was revised October 12, 1983. Material has been ordered under contract No. 829092 and expected delivery is April 13, 1984.

7. P3135

Upgrade panel 25-340 and 25-341 - hydrogen and oxygen analyzer systems

Originally, contract No. 824054 produced qualified analyzer assemblies. An environmental review by TVA-Electrical Engineering Branch (EEB) produced an NCR against certain inadequate subcomponents. TVA notified the assembly vendor in June 1983. The vendor accepted TVA's judgment and a change of contract was made in September 1983. The vendor performance date was January 31, 1984, but material was not delivered onsite until February 23, 1984.

8. P3112 FCV-1-55 (operator)

P3113 FCV-68-3 (brakes)
FCV-68-79 (brakes)

P3114 FCV-69-1 (replace)

P3115 FCV-71-2 (motor leads)

P3117	FCV-74-47 (limit switch)	FCV-74-61 (brake)
	FCV-74-48 (limit switch)	FCV-74-66 (brake)
	FCV-74-52 (brake)	FCV-74-67 (brake)
	FCV-74-53 (brake)	FCV-74-71 (motor)
	FCV-74-57 (motor)	FCV-74-72 (motor)
	FCV-74-58 (motor)	FCV-74-73 (motor)
	FCV-74-59 (motor)	FCV-74-74 (brake)
	FCV-74-60 (brake)	

P3118 FCV-75-23 (brake)
FCV-75-25 (brake)
FCV-75-51 (brake)
FCV-75-53 (brake)

A TVA-OQA hold on request for deliveries was issued against Limitorque for deficiencies in their QA program; however, this hold was released March 1, 1984, and TVA is proceeding with procurements. There is an estimated 26-week lead time for delivery. Below are additional details on the above-listed ECNs. All the material is being purchased from Limitorque.

P3112 - A record keeping error resulted in failure to identify required replacement until September 14, 1983.

P3113, P3114, P3117, P3118 - These components were identified for replacement in early 1983. At the time of the PR release (July 1983), it was assumed that components were readily available via TVA contract No. 829681. This assumption was found to be incorrect. A potential vendor has been found and negotiations are underway with an estimated delivery of August 16, 1984.

P3115 - It was determined in February 1984 that the motor must be sent to the vendor to repair the leads. This will be performed under requisition No. 829681.

9. P3140 FSV-64-31, FSV-64-34

The latest qualification documentation states that these flow solenoid valves must be replaced. Late disposition of the qualification status of these components has resulted in late procurement. The PR was released in November 1983 and delivery is scheduled in April 1984.

10. P0126 72 loops

Replace the following instruments.

<u>Panel</u>	<u>TVA ID Number</u>	<u>Variable</u>	<u>Function</u>
RPS	PDIS-1-13(A-D)	Main Steam Line Flow	Isolation
RPS	PDIS-1-25(A-D)	Main Steam Line Flow	Isolation
RPS	PDIS-1-36(A-D)	Main Steam Line Flow	Isolation
RPS	PDIS-1-50(A-D)	Main Steam Line Flow	Isolation
RPS	PS-1-72	Main Steam Line Pressure	Isolation
RPS	PS-1-76	Main Steam Line Pressure	Isolation
RPS	PS-1-81(A,B)	First Stage Turbine Pressure	Scram
RPS	PS-1-82	Main Steam Line Pressure	Isolation
RPS	PS-1-86	Main Steam Line Pressure	Isolation
RPS	PS-1-91(A,B)	First Stage Turbine Pressure	Scram
RPS	PS-3-22(A-D)	Vessel Pressure	Scram
ECCS	LITS-3-52	Vessel Level	Containment Spray
RPS	LIS-3-56(A-D)	Vessel Level	Isolation ECCS Initiation & Recirc Pump Trip
ECCS	LIS-3-58(A-D)	Vessel Level	Isolation ECCS Initiation & Recirc Pump Trip
ECCS	LITS-3-62	Vessel Level	Containment Spray
ECCS	PS-3-74(A,B)	Vessel Pressure	ECCS Initiation
ECCS	LIS-3-184	Vessel Level	ADS
ECCS	LIS-3-185	Vessel Level	ADS
RPS	LIS-3-203(A-D)	Vessel Level	Scram
RPS	PS-3-204(A-D)	Vessel Pressure	Recirc Pump Trip
RPS	PS-64-56(A-D)	Primary Containment Pressure	Scram - ISO
ECCS	PS-64-57(A-D)	Primary Containment Pressure	Initiation
ECCS	PS-64-58(A-D)	Primary Containment Pressure	Initiation
ECCS	PS-64-58(E-H)	Primary Containment Pressure	Initiation
ECCS	PS-68-95	Vessel Pressure	ECCS Initiation
ECCS	PS-68-96	Vessel Pressure	ECCS Initiation
ECCS	PDIS-71-1(A,B)	RCIC Steamline Flow	Isolation
ECCS	PDIS-73-1(A,B)	HPCI Steamline Flow	Isolation

Nutherm, who is contracted to seismically qualify panels for installation and install power supplies in cabinet, sent TVA a letter on problems with ELMA power supplies. NRC also issued a letter (No. 83-04) stating that other utilities had problems with them. These power supplies will be replaced on both the Reactor Protection System (RPS) and Emergency Core Cooling System (ECCS). Material has been ordered under contract No. 835043 and delivery is expected April 3, 1984.

11. P0085 TE-64-52(A,C)

P3058 PT-64-50, PT-64-51 (material not onsite), PT-64-57

P306', PX-64-50
PX-64-51
PX-64-54

Scope changes to ECN P0085 required changes in the other two ECNs. These must be worked simultaneously. A recorder has been ordered with an expected delivery of May 15, 1984.

12. P0631 RE-90-132, RE-90-133, RE-90-134

To be relocated to a mild environment. Material not onsite by the February 1, 1984, RPIP cutoff date.

Addition

13. P3141 FSV-1-14, FSV-1-26, FSV-1-37, FSV-1-51

Original design documentation removed these components from the 79-01B list stating that they were qualified. However, after a review of the components, it was found that these solenoids are powered from terminal strips inside the drywell. A revision to the design documentation adds these items to the 79-01B equipment list. The terminal strips are to be eliminated.

FSV-3-98, FSV-3-99

Only the power and control cabling is to be qualified. These solenoid valves were recently identified as having terminal strips in the drywell which must be removed.

14. P3142 PI-3-74(A,B)

These items were identified by recent qualification documentation. Purchase requisition No. 835204 was prepared in January 1984 with an expected delivery of July 16, 1984.

15. P3139 MTR-64-3(A-D) Core Spray Pump Motor Cooler Fan Motors

These cooler fan motors were not listed on the preoutage report since delivery was not expected until late December 1983.

Note: As part of the Regulatory Performance Improvement Program (RPIP), these items are not being worked.

Deletion

P3041 PDS-64-61(A-D), PDS-64-62(A-D)

It has been determined that these instruments do not prevent reactor zone and refueling zone vent isolation following a LOCA or HELB in primary containment. They are only required during normal operation and have been removed from the 79-01B list.

GE-7-104(A-E), GE-7-106(A-E)

All traversing incore probe (TIP) equipment is in a mild environment.

GE-7-101(A-E), GE-7-113(A-E), GE-7-131(A-3)

Equipment does not perform a required safety function.

P3042 FCV-64-29

FCV-64-31

FCV-64-32

FCV-64-34

P3060 FCV-64-141

These Flow Control Valves (FCVs) were to replace the limit switches; however, a qualified flow element provides indication that there is an open valve; therefore, the limit switches and indicating lights or the replacement FCVs are not required to be qualified.

P3048 TS-64-68

TS-64-69

TS-64-70

TS-64-71

TS-64-72

TS-64-73

The RHR motor coolers start automatically whenever the associated pump starts. The circuitry is arranged so that a failure of this switch will not prevent operation of the coolers. They no longer require qualification.

P3094 RE-90-140, RE-90-141, RE-90-142, RE-90-143

These items are only required during a refueling accident; they have been removed from the 79-01B list.

P3041 PDS-64-15

P3055 PDT-64-16

P3059 - not issued
PDM-64-16

P3063 - not issued
PDIC-64-16

Procurements began in 1981. A requisition was to be awarded to Dwyer, contingent upon a successful qualification via type testing at Wyle Laboratories. The results qualified certain components and suggested retesting of the remainder. Components which tested successfully have been removed from the 79-01B list. The remainder of the items have been put on hold awaiting analysis. Any remaining components requiring additional testing by Wyle Laboratories will require a nine-month lead time. These items will be deleted from the 79-01B list.

PT-3-54, PT-3-61

These items have been deleted from the 79-01B list.

LITS-3-46(A,B)

No longer required to be qualified.

Change in Category

FCV-71-25, FCV-71-34

These valves are in the category III status to be type tested. They were originally listed as category IV on the May 20, 1983 submittal to the NRC.

CHANGES TO CATEGORY III ITEMS TEST
COMPLETION DATE

<u>Plant ID Number</u>	<u>Status</u>	<u>Test Date</u>
PSV-1-4	III	01/85
PSV-1-5	III	01/85
FSV-1-14B	III	10/84
FSV-1-14C	III	10/84
FSV-1-15B	III	10/84
FSV-1-15C	III	10/84
PSV-1-18	III	01/85
PSV-1-19	III	01/85
PSV-1-22	III	01/85
PSV-1-23	III	01/85
FSV-1-26B	III	10/84
FSV-1-26C	III	10/84
FSV-1-27B	III	10/84
FSV-1-27C	III	10/84
PSV-1-30	III	01/85
PSV-1-31	III	01/85
PSV-1-34	III	01/85
FSV-1-37B	III	10/84
FSV-1-37C	III	10/84
FSV-1-38B	III	10/84
FSV-1-38C	III	10/84
PSV-1-42	III	01/85
FSV-1-51B	III	10/84
FSV-1-51C	III	10/84
FSV-1-52B	III	10/84
FSV-1-52C	III	10/84
PSV-1-179	III	01/85
PSV-1-180	III	01/85
-APS- 480V Reactor MOV Board 1C	III	06/85
-APS- 480V Reactor MOV Bd 1D	III	06/85
-APS- 480V Reactor MOV Dd 3C	III	06/85
-APS- 480V Reactor MOV Bd 3D	III	06/85
-APS- 480V Reactor MOV Bd IE	III	06/85

<u>Plant ID Number</u>	<u>Status</u>	<u>Test Date</u>
-APS- 480V Reactor MOV Bd 3E	III	06/85

PT-64-51 Changed from category III to category IV.