



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

MAR 10 1989

MEMORANDUM FOR: C. I. Grimes, Director
Comanche Peak Project Division
Office of Nuclear Reactor Regulation

FROM: R. F. Warnick, Assistant Director
for Inspection Programs
Comanche Peak Project Division
Office of Nuclear Reactor Regulation

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION, UNIT 1
STATUS OF PREPAREDNESS FOR LICENSING

This memorandum is forwarded in accordance with MC 94300 to provide you information on the preparedness for licensing of Comanche Peak Steam Electric (CPSES), Unit 1. This is the first of what will be approximately monthly status reports. Enclosures 1 through 6 include those items requiring inspection and resolution before the Comanche Peak Project Division can make a recommendation for licensing. We recognize the enclosures contain a high number of items remaining to be completed prior to fuel load. During the next few months, we plan to assess each item to determine which ones may appropriately be postponed until some later milestone such as prior to initial critical, prior to 100% power, during first refueling, etc.

Texas Utilities Electric Company (TUE) officially estimates a fuel load date of June 1989; however, plant schedules identify October 2, 1989, as the fuel load date. We note that the utility schedule for fuel load has not slipped during the past 6 to 8 months. CPPD considers October 1989 as a realistic time frame for a licensing decision, contingent upon satisfactory resolution of the issues presented in the enclosures to this memo.

cc: Crutchfield
McKee
Wilson
Lyons

If you have any questions concerning this status report, please contact me or Mr. J. S. Wiebe of my staff.

RF Warnick

R. F. Warnick, Assistant Director
for Inspection Programs
Comanche Peak Project Division
Office of Nuclear Reactor Regulation

Enclosures:

1. Outstanding Items Including
Enforcement and Unresolved Items
2. Preoperations and Acceptance
Testing Status
3. Construction Status
4. Corrective Action Program Status
5. Status of Inspections Required
by MC 2512, MC 2513, & MC 2514

ENCLOSURE 1

Outstanding Items Including

Enforcement and Unresolved Items

I. Open, Unresolved, and Enforcement Items

Attachment 1 to Enclosure 1 is a list of all open, unresolved, and enforcement items that must be closed prior to fuel load.

There are 86 open items, 28 unresolved items, and 79 enforcement items that must be closed prior to fuel load.

II. Open Deficiency Reports - 10 CFR Part 50.55(e) Reports

Attachment 2 to Enclosure 1 is a list of all Deficiency Reports that must be closed prior to fuel load.

There are 238 Deficiency Reports that must be closed prior to fuel load.

III. NRC Bulletins

Attachment 3 to Enclosure 1 is a list of all Bulletins that must be closed prior to fuel load.

There are 58 Bulletins that must be closed prior to fuel load.

IV. Allegations

There are currently 15 open allegations. It is expected that these allegations will be inspected prior to fuel load. Closure of the allegations will depend on the outcome of the inspections and acceptance of the applicant responses or actions if any are required. The following allegations are open.

OSP-84-A-0010
OSP-84-A-0013
OSP-84-A-0014
OSP-84-A-0015
OSP-84-A-0017
OSP-84-A-0018
OSP-84-A-0019
OSP-84-A-0026
OSP-84-A-0027
OSP-87-A-0021

OSP-88-A-0024
 OSP-88-A-0052
 OSP-88-A-0053
 OSP-89-A-0010
 OSP-89-A-0011

V. Safety Issue Management System (SIMS)

Attachment 4 to Enclosure 1 is a list of SIMS items which must be closed prior to fuel load (this list will be included in a future report).

VI. Applicant Identified Activities

The applicant has identified certain activities required prior to exceeding various milestones. The activities have been categorized by the applicant and are subject to change or reevaluation. This information is correct as of 2/15/89.

Activities that Impact Heatup	204
Activities that Impact the Integrated Test Sequence	70
Activities that Impact Fuel Load, Criticality, and 5% Power	1589
Activities that Impact 100% Power and Commercial Operation	455

ATTACHMENT 1 TO ENCLOSURE 1

OPEN, UNRESOLVED, AND ENFORCEMENT ITEMS REQUIRING RESOLUTION
PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
83-14-0-06	Solid Waste Management	RIV DRSS
83-33-0-23	Operability of Portable Radios For Contr Room & Roving Oper.	RIV DRSS
83-33-0-45	Confirm Methods For High Level Effluents During A Drill	RIV DRSS
83-33-0-57	Place Iodine Monitors In APPR. Emergency Response Facilities	RIV DRSS
83-33-0-70	Comparison Of Primary And Back-up Meteorological Tower Data	RIV DRSS
84-02-0-04	Sampling & analysis of plant ef fuenis.NUREG-0737,Item II.F.1-2	RIV DRSS
84-07-0-01	Provide Proc Concs For 10CFR21 Tracking	OSP OPS
84-16-V-01-54	Insp. of cable tray hangers did not identify improper install.	OSP CONS
84-19-0-04	Permanent Security Lock And Key System	RIV DRSS
84-22-U-06	Battery room design questioned relative to H2 buildup/entrapment	OSP OPS
84-26-V-01-57	Inspection criteria was not provided in procedures/specifica.	OSP CONS
84-26-V-02-57	Inspection of Cable Tray Hangers was inadequate	OSP CONS
84-31-U-09	Prereq For Turnover Station Mod Pkg To DPS (SEE 85-08)	OSP OPS
84-31-V-05-55	Six Exp Proc Viol Maint Area	OSP OPS
84-32-V-02-54	Failure to regularly review status & adequacy of QA program	OSP CONS
84-32-V-03-54	Failure to estab.& implement planned & periodic audits.	OSP CONS
84-36-0-04	Natural Circulation Test NUREG 0797 Sec 5.4.3	OSP OPS
84-37-0-01	Improved Security Communication System	RIV DRSS
84-42-0-01	Verify Gas Effl Samples Are Represent Of Disch Volume	RIV DRSS
84-43-0-01	Eval Handling of RAD Liquids During Accident Conditions	RIV DRSS
84-45-0-01	Valve Line Up Errors and Doc of Deficiencies ISU 206A	OSP OPS
85-02-U-06	Follow Up on Diesel Air Relief Valve Failure ICP-PT-29-03 REDD	OSP OPS
85-13-D-03	ERC insp did not document four 9/16 in drilled holes in ASME	OSP CONS
85-13-D-14	Pipe support I-5-PSTM-170 HAD 2 discrepancies.	OSP CONS
85-13-D-17	Discrepancies in I-M-DUPL-019.	OSP CONS
85-13-D-18	Discrepancies in I-M-DUPL-U40	OSP CONS

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OPEN, UNRESOLVED, AND ENFORCEMENT ITEMS REQUIRING RESOLUTION
PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
85-13-0-20	I-M-DUPL-040 was close to instr tubing support and had bent com	DSP CONS
85-13-0-44	I-S-LBSN-023 Eleven conditions identified as potential dev.	DSP CONS
85-13-0-46	I-S-LBSE-047 Inadequate thrd en gageent, undersize weld, cotter	DSP CONS
85-13-0-53	I-S-LINR-06 Excessive weld rein forcement	DSP CONS
85-13-0-54	I-S-LINR-13 Excessive weld rein forcement	DSP CONS
85-13-0-55	I-S-LINR-51 Unacceptable weld s eam surface	DSP CONS
85-13-0-56	I-S-LINR-55 Weld undercut	DSP CONS
85-13-V-01-54	Failure to accomplish conduit i dentification to provide	DSP CONS
85-14-0-15	Color Code Missing & Max Distan ce between color code marks was	DSP CONS
85-14-0-18	Duct Flange Connecting Bolts bent in package I-M-DUPL-021.	DSP CONS
85-14-0-25	Bolts attaching Actuator to Bra cket did not have full thread	DSP CONS
85-14-0-27	Insufficient Clearance with 3 adjacent pipes & dia out-of-tol	DSP CONS
85-14-0-28	Size of horizontal brace not pe r drawg. for pkg. I-S-HVDS-023.	DSP CONS
85-14-0-31	Undersize welds and incorrect member size for Pkg. I-S-STEL-88	DSP CONS
85-14-0-32	Exposed bolt holes & inadequate bolt tightening in Pky I-S-STEL	DSP CONS
85-14-0-36	Support bolt did not have requi red exposed threads for package	DSP CONS
85-14-V-03-54	Drawings revised without approv al & authorization.	DSP CONS
85-15-0-06	Inadequate medical techniques used during emergency drill	RIV DRSS
85-15-0-08	Radio communications garbled and intermittent during drill	RIV DRSS
85-15-0-09	Emerg. drill critique did not fully portray inadequacies	RIV DRSS
85-16-0-30	Failure to inspect required att ributes & indentify non-confor	DSP CONS
85-16-0-50	Serrated grooves on spring nuts not aligned w/channel clamping	DSP CONS
85-16-0-15	Lock nuts missing on clamp bolt for package I-S-PS42-25.	DSP CONS
85-16-0-16	Paint observed on spherical bea ring for pkg. I-S-PS42-41.	DSP CONS
85-16-0-39	Member dimensions incorrect in Package I-S-HVDS-089.	DSP CONS
85-16-0-43	Attributes rejected in package I-S-STEL-059.	DSP CONS

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OPEN, UNRESOLVED, AND ENFORCEMENT ITEMS REQUIRING RESOLUTION
PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	DSP	RESP
85-16-D-49	Gaps between plate&washer on up per anchor bolt of reactor side	DSP	CONS
85-16-D-52	Plate size incorrect in package I-S-COSP-071.	DSP	CONS
85-18-D-24	Required clearances not met bet ween pipes for pkg.I-M-SBCD-083	DSP	CONS
85-18-V-01-54	Excessive length of conduit bet ween end device & junction box.	DSP	CONS
85-18-V-11-54	No ID or color coding on cable trays.	DSP	CONS
85-18-V-15-54	Measures not established to ass ure performance of design adequ	DSP	CONS
85-19-V-03-53	Failure to properly insp.& doc. & audit As-Built cable tray	DSP	CONS
86-01-D-04	Test Problem with turbine drive n aux. feedwater pump	DSP	OPS
86-01-D-19	I-M-LBCD-144: Linear Dimension out-of-tolerance but not identi	DSP	CONS
86-01-D-20	I-M-LBCD-144:No req. Clearance between line and other support	DSP	CONS
86-01-D-06	Issue & correct surveil. tests on comp cooling H2O pump No. 2	DSP	OPS
86-01-D-11	Conduit Separation Inspection.	DSP	CONS
86-01-U-01	Inadequate work Order Requests and Work Orders	DSP	OPS
86-01-U-02	Wall Thermostats in safety-rela ted battery res not explosproof	DSP	OPS
86-01-U-07	Vibration checks not performd on CCW pump as scheduled	DSP	OPS
86-03-D-05	R-E-CATY-004-DRO1 Tray Welding NCR E85-1015255X.	DSP	CONS
86-03-D-06	R-E-CATY-024-DRO1 Welder Qualif y NCR E85-10152551.	DSP	CONS
86-03-V-04	Failure to Identify all Nonconforming Conditions.	DSP	CONS
86-04-D-01	EPA Vendor Splices Not on Field Drawings.	DSP	CONS
86-04-V-02-57	EPA Drawings with Water.	DSP	CONS
86-04-V-13-57	EPA JB Seals not Installed.	DSP	CONS
86-07-D-01	Corrective action-Replace undoc umented welds not implemated.	DSP	CONS
86-07-D-29	Potential ERC deviations for Struc. Steel Pkg I-S-STEL-140.	DSP	CONS
86-07-V-04-54	Unauthorized & undocumented Design Changes to NSSS.	DSP	CONS
86-07-V-22-54	Failure to check drawing changes.	DSP	CONS
86-09,A:1.B.1	Failure to sat. min. separation requirements of IEEE standard.	DSP	CONS

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SOURCE	DESCRIPTION OF ITEM	RESP
86-09,A:1.B.2	Design changes not properly reviewed for install.of reflective	DSP CONS
86-09,A:1.B.4	No analysis for interface between Category I & non-Cat.I.	DSP CONS
86-09,A:1.B.6	Measures not established for locking devices.	DSP CONS
86-09,A:1.B.7	Cold springing of pipe criteria not I.D.,documented,or authoriz	DSP CONS
86-09,A:1.B.8	Failure to adequately I.D.design basis & inputs,including DBA	DSP CONS
86-09,A:1.B.9	No evidence to demonstrate coating had been tested & qualified	DSP CONS
86-09,A:1.C.1	QC control inspectors failed to witness butt splices of inst.&	DSP CONS
86-09,A:1.C.6	QC insp. inadequate for snubber	DSP CONS
86-09,A:1.C.8	QC insp.failed to identify pipe support welding deficiencies.	DSP CONS
86-09,A:11.A2	Improper release of drawings.	DSP CONS
86-09,B:1.A	Incorrect determination of cable tray hanger attributes by wal	DSP CONS
86-09,B:1.B.2	Vendor documents (EPAs) not properly controlled by B&H.	DSP CONS
86-09,B:1.B.5	EQ verification program.	DSP CONS
86-09,B:1.B.6	Unsealed conductor entry conduit (EPAs).	DSP CONS
86-09-D-01	Review WEO3.03(alter design of location for organiz.resp.) Proc	DSP OPS
86-15-D-01	Equip.foundation anchor bolt nut. SEE 87-02.	DSP CONS
86-22-V-04-54	Disassembled valve bonnets not undergoing a hydrotest.	DSP CONS
86-23-D-01	Security Issue	RIV DRSS
86-26-D-06	Inadequate insp.attributes for HVAC ducts & plenums.	DSP CONS
86-32-D-01	Heat tracing on containment; ATMOS sample line.	DSP CONS
87-06-D-08	Exposed and coated rebar in the seismic gap.	DSP CONS
87-06-D-09	ISAP V.c third-party closure of DIR E-0349 & D-009B.	DSP CONS
87-07-V-01-5?	Delay in 50.55(e) report.	DSP OPS
87-09-D-01	Adequacy of New SNEC For ISAP 11.c	DSP CONS
87-11-V-02-54	Splices in chiller units.	DSP CONS
87-12-D-01	Implementation of design mod.to provide lock P2R bypass valves.	DSP OPS

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SOURCE	DESCRIPTION OF ITEM	RESP
87-13-U-03	Equipment setting performed by Bohson & B&R homogeneity in qu	DSP CONS
87-16-D-04	Other forms considered in SNEC review.	DSP CONS
87-16-V-12-54	Missing cotter pins on pipe sup port.	DSP CONS
87-18-V-02	NCR not dispositioned properly.	DSP CONS
87-25-D-02	Walkdown error regarding condui t C Train less than or eq.to 2"	DSP CONS
87-27-V-01-A	TUE failed to take corrective a ction on AFW pumps.	DSP CONS
87-27-V-01-C	TUE failed to take corrective a ction on AFW pumps.	DSP CONS
87-27-V-01-D	TUE failed to take corrective a ction on IR letter about AFW pu	DSP OPS
87-27-V-04-A	TUE failed to assure design req uirements translated into specs	DSP OPS
87-30-V-06-54	Capacitors in ED6 control panel	DSP CONS
87-30-V-07-54	ED6 control panel drawings not correct.	DSP CONS
87-35-V-02	Improper documentation of as-bu ilt conditions.	DSP CONS
88-02-D-01	Salee Unit 1 & 2 hydrogen & LYZ ER Part 21.	DSP OPS
88-04-D-01	Cables outside cable tray.	DSP CONS
88-05-V-02-57	Excessive grinding on duct segme nt B-1-658-015.	DSP CONS
88-07-D-01	Environmental air sampler calib ration.	RIV FRPS
88-07-D-02	eteorological instrumentation reliability.	RIV FRPS
88-10-D-06	Submitted of required records n ot assured.	DSP CONS
88-10-D-10	No TUE audits of or procedure f or verifying eng'rg qualis.	DSP CONS
88-11-U-01	No travelr form for print need val on HVAC support.	DSP CONS
88-11-U-03	Gaps in snubber load pin holes.	DSP CONS
88-11-U-04	Snubber ext. piece not torqued- size 35.	DSP CONS
88-11-U-05	Use of A-307 bolts on transitio n kits for snubbers.	DSP CONS
88-12-V-01	Failure to revise FSAR.	DSP CONS
88-16-D-01	False ceiling at personnel acce ss point.	RIV DRSS
88-16-D-02	Adequacy of fireproofing materi al as a barrier.	RIV DRSS

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SOURCE	DESCRIPTION OF ITEM	RESP
88-16-0-03	No separation between vital/PA barriers.	RIV DRSS
88-20-U-05	No hardened washers under heads of high strength bolting.	DSP CONS
88-20-U-06	Incorrect material certification.	DSP CONS
88-20-U-07	Side loads on sway struts.	DSP CONS
88-20-V-01-S?	Performing UT through paint.	DSP CONS
88-20-V-02-S?	Improper marking of stainless steel.	DSP CONS
88-20-V-04-S?	Undersized welds on cable tray supports.	DSP CONS
88-22-U-04	Housekeeping & equipment protection.	DSP OPS
88-22-U-05	Procedure implementing maintenance program.	DSP OPS
88-27-V-01-S?	Twelve procedure manuals not controlled properly	DSP CONS
88-28-0-02	FSAR and TS clarification of neutron detector temp limit.	DSP CONS
88-32-V-01-S?	Improper use of "use-as-is" disposition on an NCR	DSP CONS
88-36-V-01-S4	Inadequate Hilti bolt embedment	DSP CONS
88-38-0-02	Cable grip installation.	DSP CONS
88-38-U-01	Adequacy of NCR dispositioning.	DSP CONS
88-42-U-01	Effectiveness of FVM-075 to detect concrete spacing violations	DSP CONS
88-42-U-02	Hilti bolt spacing violations.	DSP CONS
88-44-0-01	Air valve testing.	DSP OPS
88-44-0-03	Documentation of QA discrepancies.	DSP OPS
88-44-V-01	Adverse conditions are promptly identified & corrected.	DSP OPS
88-45-0-01	Replace EDB meters.	DSP CONS
88-46-V-01	Error in revision to MKS-904.	DSP CONS
88-46-V-02	QC inspector did not document differences from design drawing.	DSP CONS
88-47-0-02	Establishment of corrosion program with present data questioned	DSP CONS
88-47-0-03	Practice of engineering selecting quality level questioned.	DSP CONS
88-47-V-01aS?	Failure to establish QA/tech. requirements in procurement docu	DSP CONS

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OPEN, UNRESOLVED, AND ENFORCEMENT ITEMS REQUIRING RESOLUTION
PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP		
88-47-V-01bS?	Failure to establish adequate controls of sandblast process.	DSP	CONS	
88-47-V-01cS?	Failure to provide insp.procedures & monitoring of sandblast.	DSP	CONS	
88-47-V-01dS?	Failure to identify/correct problems identified by NRC.	DSP	CONS	
88-51-V-01-54	Improper approvals for DCAs.	DSP	CONS	2 2
88-52-0-01	Securing power.	DSP	OPS	1 1
88-52-0-02	Technical spec reference for DN BR.	DSP	OPS	1 1
88-52-0-05	Monitoring sediment buildup in SS1	DSP	OPS	
88-52-0-08	Kapton wiring.	DSP	CONS	
88-53-0-01	Stick-on cable tie attachments to be replaced.	DSP	CONS	
88-56-0-04	Improper use of use-as-is dispo on NCRs.	DSP	CONS	
88-56-U-05	Sluged welds and poor fit-up.	DSP	CONS	
88-56-V-01	Incomplete rework per NCR dispo	DSP	CONS	
88-56-V-02	Inadequate design calcs.	DSP	CONS	
88-58-0-03	Bolts used to anchor angle for watertight door.	DSP	CONS	
88-58-0-04	Welded Hilti Bolts.	DSP	CONS	
88-58-V-02	Inadequate PCWP inspection of watertight door.	DSP	CONS	
88-59-V-01	FVM-89 Maldown discrepancies.	DSP	CONS	
88-62-0-01	Inability of control RI personnel to retrieve DCAs.	DSP	OPS	
88-62-0-02	Broken screwhead on Unit 1 TR B DG engine cover sport bracket.	DSP	OPS	
88-62-U-01	Unaccounted for Safeguard information.	DSP	OPS	
88-63-U-01	Review applicant's assessment of records facility recommendations	DSP	CONS	
88-64-V-02	Undersized & mislocated welds.	DSP	CONS	
88-65-0-01	Improperly installed cotter pins.	DSP	CONS	
88-65-V-02	Undocumented work activities.	DSP	CONS	
88-70-V-03	Gouge in base metal of embedded plate.	DSP	CONS	
88-71-U-01	Inadequate design calcs for piping & supports.	DSP	CONS	

ATTACHMENT 1 TO ENCLOSURE 1

OPEN, UNRESOLVED, AND ENFORCEMENT ITEMS REQUIRING RESOLUTION
PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
88-71-V-02-S4	Failure to properly inspect thr ead engagement for SPA hgr.	DSP CONS
88-71-V-03	Failure to properly review desi gns for applicability.	DSP CONS
88-71-V-04-S4	Lack of documented instructions for tech.dispo.in FVMs.	DSP CONS
88-75-0-03	Effect of welding on gasket ser vice life.	DSP CONS
88-75-U-01	Clamp Ear parallelism.	DSP CONS
88-75-U-02	Uncoated HVAC welds.	DSP CONS
88-75-U-04	Control of weld filler mat'l & thermometer calibration.	DSP CONS
88-79-U-01	Contant.press relief sys. debris screen piping classif. awaiting	DSP OPS
88-82-V-01	Undersized weld per revised DCA	DSP DSP
88-84-0-01	List of hot shutdown panel swit ches.Awaiting applicant action.	DSP OPS
88-84-0-02	SSII testing, procedures, train ing.Awaiting NRC verification.	DSP OPS

ATTACHMENT 2 TO ENCLOSURE 1

DEFICIENCIES REQUIRING RESOLUTION PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
CP-77-06	Omission Reactor Bld 1 Reinforcing Steel Pour 101-4812-001	DSP CONS
CP-77-10	Reactor Bld 1 & Aux Reinforcing Steel Omitted from Concrete	DSP CONS
CP-77-11	Reactor #1 Safeguard Bldg 1 Reinforcing Steel Left Out/Omitted	DSP CONS
CP-77E	PSAR/FSAR nonconformances re: mechanical safety-related Specs.	DSP CONS
CP-77F	Delaval DG stator winding defect.	DSP CONS
CP-78-03	Steam Generator Upper Lateral Supports Embeds	DSP CONS
CP-79-07	Rebar coverup.	DSP CONS
CP-80-03	Weld connections-hot SD control board did not meet design req.	DSP CONS
CP-80-05	Embedment lengths of Hilti Bolt Anchor in Floor Slabs-TUE reop	DSP CONS
CP-80-09	Diesel Generator Pipe Supports. Closed in 81-09. TUE reopened.	DSP CONS
CP-80-11	Safeguard bldg.yard tunnel,NPSI sway struts (thread upset verif	DSP CONS
CP-82-02	Papco HVAC Fire Damper.Closed in 84-12.TUE reopened.Ref-CP-84-	DSP CONS
CP-82-07	Governor drive coupling. CLOSED in 84-08. TUE reopened.	DSP OPS
CP-82-13	Rotofoam Plywood Void in AUX. Bld. Concrete Floor Slab	DSP CONS
CP-82-15	Transamerica Delaval Piston Skirt Castings (Part 21). Closed	DSP OPS
CP-83-05	Hilti Bolt Cut Off & Welded to Electrical Conduit Support	DSP CONS
CP-83-08	Control Valve Brackets. Fisher Pneumatic Act.Cont.Cl.in 84-12.	DSP CONS 88676 SUPPL.
CP-83-15	Cable Tray Bolting Support Material in Fuel Bldg. TUE reopened	DSP CONS
CP-83-18	Reactor Containment Bldg Cooling Sys Insulation Ring Airflow	DSP OPS
CP-83-21	Barton Transmitter Errors and Calibration Techniques.	DSP OPS
CP-84-02	Diesel Gen. push rod welds have linear indications. CLOSED IN	DSP CONS
CP-84-08	Fire dampers installed w/o gap for thermal expans.TUE reopened	DSP CONS
CP-84-12	Environmental Qual.of Equipment for High Energy Line Breaks.	DSP CONS
CP-84-17	Flooding Levels In E&C Bldg. TUE reopened. Closed in 84-40.	DSP CONS
CP-84-27	Ventilation Exchange Dampers.	DSP CONS
CP-84-29	Control Room HVAC.Safe shutdown capability for fire.	DSP TECH

ATTACHMENT 2 TO ENCLOSURE 1

DEFICIENCIES REQUIRING RESOLUTION PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
CP-85-03	Anchor Bolts in Steam Gen. Later al Supp Engaged Less Than 2 1/4	OSP CONS
CP-85-04	Containment Spray Isolation Val ves Open Time.	OSP OPS
CP-85-11	Instrument Tub.ing Tapped Off 45 degree not allowed.	OSP CONS
CP-85-12	Aux Feed Flow may be Outside Te ch Spec because of Bad Setpoint	OSP OPS
CP-85-17	Core Exit Temp. Monitoring Syst em Thermocouple may Err. Not re	OSP OPS
CP-85-21	Diesel Generator Potential Cont rol Panel Overheating. Not repo	OSP OPS
CP-85-22	PosiSeal Containment Iso.Valve Oper.under Plant Faulted Cond.	OSP OPS
CP-85-25	Sequencing Fire Protection Comp onents for HVAC/CCM.NOT REPORTA	OSP TECH
CP-85-26	Unit I Upper Lateral Restraint.	OSP CONS
CP-85-27	Concrete Debris in Separation B aps between the Fuel & Aux Bldg	OSP CONS
CP-85-27Rev 1	Seismic Gap - See DRR 105. Revision 1 to CP-85-27.	OSP CONS
CP-85-29-SUPL	Design of architectural feature control room ceiling. (PSR)	OSP CONS
CP-85-31	Additional Weight for Electrica l Raceways.	OSP CONS
CP-85-33	Seismic valves - see DRR 105.	OSP CONS
CP-85-34	Conduit support design. (PSR)	OSP CONS
CP-85-35	Cable Tray Hanger Design. Ref. CP-83-15.	OSP CONS 88867
CP-85-39	Equipment Conduit Interface.	OSP CONS
CP-85-40	Equip.conduit inter/face-flux ma pping seal table restraint.	OSP CONS
CP-85-41	Computer Program Errors for Analysis of Cable/Cond.Supports	OSP CONS
CP-85-42	Thermolag and substitutions on Conduit Support.	OSP CONS
SDAR CP89-01	NANCO Limit Switches.	OSP CONS
SDAR-CP-85-48	D6 Intake Silencer Internals.	OSP CONS
SDAR-CP-85-49	Main Fluid Line - Fluid Transit	OSP OPS
SDAR-CP-85-50	Cable Tray "Tee" Fittings.	OSP CONS
SDAR-CP-85-51	Application of Low Sulphur Cont ent A388 Steel.	OSP CONS
SDAR-CP-85-52	Cable Tray Hanger Reverfication Program.	OSP CONS

ATTACHMENT 2 TO ENCLOSURE 1

DEFICIENCIES REQUIRING RESOLUTION PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
SDAR-CP-85-53	Seismic Category II platforms incomplete QC. See 87-71.	DSP CONS
SDAR-CP-85-54	Seismic Qualification of HVAC S supports.	DSP CONS
SDAR-CP-86-03	Class IE Instrument Techniques.	DSP CONS
SDAR-CP-86-04	Proximity Placement: Rich. Insert & Weld Attach. to embedded plate	DSP CONS
SDAR-CP-86-05	Safety Class Pipe Supports mounted to NNS embedded plate.	DSP CONS
SDAR-CP-86-06	Pump & driver dowing/SU testing.	DSP OPS
SDAR-CP-86-10	Electric Penetration Assemblies	DSP CONS
SDAR-CP-86-18	Safety chilled water chiller operation.	DSP OPS
SDAR-CP-86-19	Instrument Installation. REF. CP- 86-16, 86-50, 86-70, & 86-77.	DSP CONS 1/21/87-INCLUDES RESULTS OF CP-86-77, CP-86-70, CP-86-16, & 86-50
SDAR-CP-86-22	Safeguards Area Fan Coolers - Operations.	DSP OPS
SDAR-CP-86-23	P-10 Permissive Rx Protection System.	DSP OPS
SDAR-CP-86-24	Degrade in Class IE Circuiting- Unqualified Switch & Heater.	DSP CONS
SDAR-CP-86-26	Adequacy of Containment Spray System.	DSP OPS
SDAR-CP-86-32	Thru-Wall Embedded Conduit Sleeves	DSP CONS
SDAR-CP-86-34	Bisco Fire Stop Designs-Unexposed Surface exceed 325 degrees.	DSP TECH
SDAR-CP-86-35	Motor Operators for Manual Valves in Main Steam System.	DSP CONS
SDAR-CP-86-36	Large Bore Piping & Supports. TUE Final Reports on Units 1&2	DSP CONS
SDAR-CP-86-38	Traceability of IE Pigtail Extensions. (PSR)	DSP CONS
SDAR-CP-86-39	Dimensional Error for Cable Tray Shims used with C-type Clamps	DSP CONS
SDAR-CP-86-40	Application of Nonqualified Agastat Relays	DSP CONS
SDAR-CP-86-41	Break Loss of Coolant in Mode 4 Operation of EM Core Cool Sys.	DSP OPS
SDAR-CP-86-42	I&C Breaker for Power Cabinet- Incorrect Overcurrent Setting.	DSP OPS
SDAR-CP-86-43	ITT Barton Switches Malfunction Under LOCA Conditions.	DSP OPS
SDAR-CP-86-45	Design of Seismic Cat II Change did not consider NonCat 1 Equip	DSP CONS
SDAR-CP-86-48	Adequacy of Nonconformance Dispositions	DSP CONS

ATTACHMENT 2 TO ENCLOSURE 1

DEFICIENCIES REQUIRING RESOLUTION PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
SDAR-CP-86-49	Repl.crazed mod.sealant caused by polar organic sol.Conax pen.	DSP CONS
SDAR-CP-86-51	Hilti Anchor Bolts.NRC INFO.NGT ICE 86-94 ISSUED.	DSP CONS
SDAR-CP-86-52	Cable Tray Splices/Connections & Field Drilled Cable Tray hole	DSP CONS
SDAR-CP-86-53	Seismic Design of Conduit.	DSP CONS
SDAR-CP-86-54	Original Design of Control Room Ceiling	DSP CONS
SDAR-CP-86-56	Possible Engine Failure of Standby Diesel Generator-TransAmer.	DSP OPS
SDAR-CP-86-60	Polar Crane Support Girder Brackets not Shimmed.(ISAP)	DSP CONS
SDAR-CP-86-61	Polar Crane Rail Moved, Ground Wires Broken,& Shoes Dislodged	DSP CONS
SDAR-CP-86-63	Cracked cotter pin in pipe sunb bers. PSR	DSP CONS
SDAR-CP-86-64	Tech.basis for repair of safety -related coating in DG tank.	DSP DPS
SDAR-CP-86-66	No lap bar on some vert.dowel bars in wall of auxiliary bldg.	DSP CONS
SDAR-CP-86-67	Pre-Operational Vibrational Test Criteria	DSP OPS
SDAR-CP-86-68	Weather Protection of Class 1E Components Located Outdoors.PSR	DSP CONS
SDAR-CP-86-72	Small Bore Piping & Supports. TUE FINAL REPORTS ON UNITS 1&2.	DSP CONS Originally SDAR CP-86-36.
SDAR-CP-86-73	ASME Snubber Attachment Bracket s.	DSP CONS
SDAR-CP-86-74	Unit 2 Rockwell Supplied Isolation Valves.	DSP OPS
SDAR-CP-86-75	Contaminated APCD Solenoid Valves, Seals, & O-Rings.	DSP CONS
SDAR-CP-86-78	Bolted Connections in Shear Plates (PSR).	DSP CONS
SDAR-CP-86-81	RCP Safety-Related Instrument Set Points.	DSP OPS
SDAR-CP-86-82	Weld Penetration Incomplete on Unit 1 Cable Tray Hangers.	DSP CONS
SDAR-CP-87-01	Finite Element Computer-Error- Load Distribution in Safe.bldg.	DSP CONS
SDAR-CP-87-03	6.9 KV Switchgear Installation, Jackshafts.	DSP CONS 87-03 INCLUDES 86-14 PER TIX-6341 DTD 3/16/87.
SDAR-CP-87-04	Plug Welding on Embedded Channels.	DSP CONS
SDAR-CP-87-07	Items issued from whose may not conform to QA doc-safety relate	DSP CONS
SDAR-CP-87-09	Terminal Studs in PK-2 test Blocks	DSP CONS
SDAR-CP-87-10	Control of Design Modifications	DSP CONS

ATTACHMENT 2 TO ENCLOSURE 1

DEFICIENCIES REQUIRING RESOLUTION PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
SDAR-CP-87-12	Comp. program error for analyzing containment press. & temp.	DSP OPS
SDAR-CP-87-13	Class 1E separation violations, Cable tray covers. (PSR)	DSP CONS
SDAR-CP-87-14	Inoperable power & alarm panels in Unit 1 & 2.	DSP OPS
SDAR-CP-87-15	Air accumulators. Absence of BC	DSP CONS
SDAR-CP-87-16	Limit Switch Wiring	DSP CONS
SDAR-CP-87-17	Validyne 15 Volt DC Power Supply operation.	DSP OPS
SDAR-CP-87-18	Seismic Qualification of CCW Heat Exchangers	DSP CONS
SDAR-CP-87-19	Ambient Temperature Effects on MSIV Actuators	DSP OPS
SDAR-CP-87-21	Derating factors for single cable trays may cause degradation	DSP CONS
SDAR-CP-87-22	Containment Liner Attachment Requirements: Impact Testing	DSP CONS
SDAR-CP-87-23	Loose Conduit Unions	DSP CONS
SDAR-CP-87-25	Diesel generator fuel oil storage tank vent missile protection	DSP OPS
SDAR-CP-87-26	Diesel Generator fuel oil transfer pump section lift.	DSP OPS
SDAR-CP-87-27	Galvanic Corrosion in CCW & SW Systems	DSP OPS
SDAR-CP-87-28	Condensate Storage Tank Overpressurization	DSP OPS
SDAR-CP-87-29	CCW Isolation following RCP The real Barrier Rupture	DSP CONS
SDAR-CP-87-30	Roll-away Missile Shields, welds undersize.	DSP CONS
SDAR-CP-87-33	AFW Pump Motor Fans installed Backwards. See 87-33.	DSP OPS
SDAR-CP-87-34	Equipment Nozzle Loads Interfaces.	DSP CONS
SDAR-CP-87-35	Psychrom Motor Connection Kits	DSP CONS
SDAR-CP-87-36	Equipment Qualification-Vendor Qual. Rpt. Discrepancies	DSP CONS
SDAR-CP-87-37	Westinghouse Gate Valves failed in Preop testing. NOT REPORTABLE	DSP OPS
SDAR-CP-87-38	Fire Detection System PC boards	DSP CONS
SDAR-CP-87-40	Electrical Isolation between Class 1E & Non-class 1E Equipment	DSP CONS
SDAR-CP-87-44	Unistrut Tubing Support Bolting	DSP CONS
SDAR-CP-87-45	Reactor Coolant Pump Motor Back up Circuitry.	DSP CONS

ATTACHMENT 2 TO ENCLOSURE 1

DEFICIENCIES REQUIRING RESOLUTION PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
SDAR-CP-87-46	Containment Spray Pump Motor Rotor/Stator Gap.	DSP CONS
SDAR-CP-87-47	Consumable Materials Replacement Program.	DSP OPS
SDAR-CP-87-48	Cable Tray Transverse Clamps. (PSR)	DSP CONS
SDAR-CP-87-49	Solid State Safeguards Systems (SSSS) Internal Wiring Term.	DSP OPS
SDAR-CP-87-50	Turbine Driven Auxiliary Feedwater Pump Bearing Temperature.	DSP OPS
SDAR-CP-87-51	480V Containment Electrical Penetration Backup Protection.	DSP CONS
SDAR-CP-87-54	Class 1E MOV motor starters not or starters. FSAR vs. Dwg.	DSP CONS
SDAR-CP-87-55	Containment Spray Pump Recirculating Piping.	DSP CONS
SDAR-CP-87-56	Deficient Pipe Whip Restraints. (PSR)	DSP CONS
SDAR-CP-87-59	Improper Application of Construction Aids. Cable Tray (PSR)	DSP CONS
SDAR-CP-87-60	Installation Configuration of A SCD Solenoid Valves.	DSP OPS
SDAR-CP-87-61	"Snug Tight" Torquing of Structural Bolts. (PSR)	DSP CONS
SDAR-CP-87-62	Class 5 Pipe Supports. (PSR)	DSP CONS
SDAR-CP-87-64	Design Bases Tornado (DBT) Analysis for Safety-related Equip.	DSP CONS
SDAR-CP-87-65	LOCA Effects on HVAC Duct Inside Containment.	DSP CONS
SDAR-CP-87-66	Structural Bolting in Tension. (PSR)	DSP CONS
SDAR-CP-87-67	Undersized Bolts & Missing Jam Nuts. (PSR)	DSP CONS
SDAR-CP-87-68	Hilti Bolt Inadequacies. (PSR)	DSP CONS
SDAR-CP-87-70	Pre-bend Pipe Wall Thickness (PSR)	DSP CONS
SDAR-CP-87-71	Missing Welds & Undersized Members. Structural steel. See 85-53	DSP CONS
SDAR-CP-87-77	Cable Tray Weld Documentation Requirements.	DSP CONS
SDAR-CP-87-78	Cable Tray Welding Procedures Deficiency.	DSP CONS
SDAR-CP-87-79	Cable & Raceway Data Systems Calculations for weight & fill.	DSP CONS
SDAR-CP-87-80	Fuse Sizing. NOT REPORTABLE.	DSP CONS
SDAR-CP-87-82	Fire Detection Control Panels. NOT REPORTABLE.	DSP TECH
SDAR-CP-87-83	Seismic Analysis of Service Water Discharge Structure. NOT REP	DSP CONS

ATTACHMENT 2 TO ENCLOSURE 1

DEFICIENCIES REQUIRING RESOLUTION PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF DEF	RESP
SDAR-CP-87-85	Degradation of Class 1E Circuit s	DSP CONS
SDAR-CP-87-90	RHR Relief Valve Piping.	DSP CONS
SDAR-CP-87-91	Startup Transformer Overload.	DSP OPS
SDAR-CP-87-97	Flexible Conduit Inspections. ORIGINAL FILE MISSING. NOT REPO	DSP CONS
SDAR-CP-87-98	Cable Raceway Fill Calculations -Cable Outside Diameter. NOT RE	DSP CONS
SDAR-CP-87-99	Cable Outside Diameter Requirem ent. NOT REPORTABLE.	DSP CONS
SDAR-CP-88-43	SN-431 Safety-related instrumen ts.	DSP CONS
SDAR-CP87-100	Containment Piping Penetrations	DSP CONS
SDAR-CP87-101	Class 1E Cable Arrangement.	DSP CONS
SDAR-CP87-103	Cracked Seals in Valve Operator s	DSP CONS
SDAR-CP87-104	Safety System Setpoint Calculat ion Errors.	DSP OPS
SDAR-CP87-106	Component Design Spec.discrepan cy. Mechanical equip.bolting.	DSP CONS
SDAR-CP87-107	Auxiliary Feedwater Design Pres sure.	DSP OPS
SDAR-CP87-108	Auxiliary Feedwater Pump Low Su ction Trip.	DSP OPS
SDAR-CP87-109	Inappropriate Deficiency Docume ntation.	DSP CONS
SDAR-CP87-111	Motor Control Center Loose Term inal.	DSP CONS
SDAR-CP87-112	HOT SHUTDOWN PANEL SEISMIC ANAL YSIS.	DSP CONS
SDAR-CP87-114	FLEXIBLE METAL TUBING MISALIGNM ENT.	DSP CONS
SDAR-CP87-115	SEISMIC ANALYSIS OF SERVICE WAT ER INTAKE STRUCTURE.	DSP CONS
SDAR-CP87-116	PURGE GAS D/PRESSURE- CONDESATE S/TANK & REAC.MAKEUP W/S TANKS.	DSP OPS
SDAR-CP87-117	SERVICE WATER SYSTEM ELECTRICAL DESIGN VERIFICATION.	DSP OPS
SDAR-CP87-118	STEAM GENERATOR BLOWDOWN ISOLAT ION.	DSP OPS
SDAR-CP87-119	ESSENTIAL & EMERGENCY LIGHTING SUPPORTS.	DSP CONS
SDAR-CP87-120	TORNADO MISSILE BARRIERS. (PSR)	DSP CONS
SDAR-CP87-121	6.9KV/480V TRANSFORMER BUS BAR CLEARANCE.	DSP CONS
SDAR-CP87-122	NOZZLE LOAD INTERFACES.	DSP CONS

ATTACHMENT 2 TO ENCLOSURE 1

DEFICIENCIES REQUIRING RESOLUTION PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
SDAR-CP87-124	XOMOX VALVES.	OSP CONS
SDAR-CP87-125	SERVICE WATER PIPING SUPPORT. HILTI BOLT FAILURE.	OSP CONS
SDAR-CP87-126	FIRE ALARM SYSTEM CONTROL PANEL NOT CONNECTED TO PWR DIST.PANEL	OSP TECH
SDAR-CP87-127	OVERSTRESSED PLATFORM & SUPPORT STRUCTURE DESIGN.	OSP CONS
SDAR-CP87-128	LOSS OF CONTROL POWER INDICATION.	OSP OPS
SDAR-CP87-129	CONTAINMENT SPRAY SYSTEM PH.	OSP OPS
SDAR-CP87-130	SERVICE WATER SYSTEM WATER HAMMER.	OSP OPS
SDAR-CP87-131	DEF.IN STEAM GEN.CUBICLE STEEL PLATFORM FRAMING & PRES.SUP.SLAB	OSP CONS
SDAR-CP87-132	UNQUALIFIED LIMITORQUE ACTUATORS.	OSP CONS
SDAR-CP87-133	HIGH ENERGY LINE BREAK ANALYSIS	OSP CONS
SDAR-CP87-134	CLASS 1E AC ELECTRICAL SYSTEM. DEFICIENCY IN SEP.CRITERIA.	OSP CONS
SDAR-CP87-135	CONTROL ROOM HVAC.SUSC.TO SINGLE FAILURE FANS FROM NON-1E BUS.	OSP CONS
SDAR-CP87-136	MOTOR CONTROL CENTER SPACE HEATER. NOT QUALIFIED CLASS 1E.	OSP CONS
SDAR-CP87-137	DIESEL GENERATOR GOVERNOR HEAT EXCHANGER.	OSP OPS
SDAR-CP87-138	WELDING SLAG INCLUSION (FIELD CABLE TRAY FITTINGS). (PSR)	OSP CONS
SDAR-CP87-139	UNQUALIFIED TERMINAL BLOCKS. (WEIDMULLER)	OSP CONS
SDAR-CP88-01	CDM SURGE TANK CAPACITY.	OSP OPS
SDAR-CP88-02	HVAC GRAVITY DAMPERS.	OSP OPS
SDAR-CP88-03	HYDROSTATIC TESTING REQUIREMENT	OSP CONS
SDAR-CP88-05	AFM INSTRUMENTATION ELECTRICAL REPAIRATION.	OSP CONS
SDAR-CP88-06	Containment spray EQ. (Incorporated into SDAR-CP-87-122).	OSP CONS
SDAR-CP88-07	REACTOR COOLANT PUMP WIRING. ELEC SEPARATION VIOLATIONS.	OSP CONS
SDAR-CP88-08	BATTERY ROOM HEATERS. NOT SEISMIC QUALIFIED.	OSP CONS
SDAR-CP88-09	CLASS 1E & NONCLASS 1E ELEC. PENETRATION OVERLOAD. NO BACKUP.	OSP CONS
SDAR-CP88-11	BATTERY CHARGER OVERHEATING DURING PREOP.	OSP OPS
SDAR-CP88-12	CLASS 1E & NON-CLASS 1E CABLE SEPARATION.	OSP CONS

ATTACHMENT 2 TO ENCLOSURE 1

DEFICIENCIES REQUIRING RESOLUTION PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
SDAR-CP88-13	AUXILIARY FEEDWATER SYSTEM AIR ACCUMULATORS INADEQUATELY SIZED	DSP OPS
SDAR-CP88-14	STRUCTURAL LOAD VERIFICATION OF SEISMIC CAT.1 STRUCTURES. (PSR)	DSP CONS
SDAR-CP88-15	CONTAINMENT MAXIMUM FLOOD LEVEL	DSP CONS
SDAR-CP88-16	Containment spray chemical additive system. (METALLURGICAL)	DSP CONS
SDAR-CP88-17	CONTROL ROOM HABITABILITY.	DSP OPS
SDAR-CP88-18	Th,Tc & RCS PRESS. MONITORING INSTRUMENTATION.	DSP OPS
SDAR-CP88-19	CABLE INSULATION CONTAINMENT ENVIRONMENT.	DSP CONS
SDAR-CP88-20	HELB DETECTION & MITIGATION.	DSP CONS
SDAR-CP88-21	INSTRUMENT TUBING CLAMPS OVER TORQUE.	DSP CONS
SDAR-CP88-22	Service water discharge pipe missile protection.	DSP CONS
SDAR-CP88-23	DESIGN GROUNDWATER ELEVATION.	DSP CONS
SDAR-CP88-24	INSTRUMENT TUBE RESTRAINTS & SUPPORTS.	DSP CONS
SDAR-CP88-25	AUXILIARY FEEDWATER PUMP TURBINE CONTROL PANEL.	DSP OPS
SDAR-CP88-26	TURBINE BUILDING DESIGN REQUIREMENTS. (PSR)	DSP CONS
SDAR-CP88-27	PRINTED CIRCUIT CARDS (PC) REPAIRED ON SITE.	DSP CONS
SDAR-CP88-28	Unit 2 cracks in tube steel supplied by UNR/Levitt.	DSP CONS
SDAR-CP88-29	FEEDWATER DESIGN MOD. NOT INCORPORATED INTO FSAR 15 ACCIDENT A	DSP OPS
SDAR-CP88-30	Cold Overpressure Mitigation System.	DSP OPS
SDAR-CP88-31	Isolation Transformers.	DSP OPS
SDAR-CP88-32	CVCS Charging Pumps.	DSP OPS
SDAR-CP88-33	Emergency Diesel Generators.	DSP OPS
SDAR-CP88-34	RHR Heat Exchangers.	DSP CONS
SDAR-CP88-35	Measuring and Test Equipment.	DSP CONS
SDAR-CP88-36	Charging pump miniflow lines.	DSP OPS
SDAR-CP88-37	ASCO Solenoid Valve Coil Wire Leads.	DSP CONS
SDAR-CP88-38	Steam generator tube rupture.	DSP CONS

ATTACHMENT 2 TO ENCLOSURE 1

DEFICIENCIES REQUIRING RESOLUTION PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
SDAR-CP88-39	SN-427 RHR valve position indication.	DSP OPS
SDAR-CP88-40	NPSI sway strut angularity.	DSP CONS
SDAR-CP88-41	Westinghouse cell switches.	DSP CONS
SDAR-CP88-42	Flange misalignment in component cooling water system.	DSP CONS
SDAR-CP89-02	Delivery valve holder of TDI diesel gen. fuel injection pump.	DSP OPS

ATTACHMENT 3 TO ENCLOSURE 1

BULLETINS REQUIRING RESOLUTION
PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
IEB 75-04	Cable fire at Browns Ferry Nuclear Power Station.	DSP OPS
IEB 75-04A	Cable fire at Browns Ferry Nuclear Power Station.	DSP OPS
IEB 75-04B	Cable fire at Browns Ferry Nuclear Power Station.	DSP OPS
IEB 76-02	Relay coil failures - GE type HFA,HGA,HKA,HMA relays. Closed	DSP CONS
IEB 76-03	Relay malfunctions - GE type standard relay. Closed in 84-07	DSP CONS
IEB 76-06	Diaphragm failures in air operator auxiliary actuators	DSP OPS
IEB 77-01	Pneumatic time delay relay set point drift. Closed in 84-07.	DSP CONS
IEB 77-05	Electrical connector assemblies SEE B7-36.	DSP CONS
IEB 77-05A	Electrical connector assemblies SEE B7-36.	DSP CONS
IEB 77-08	Assurance of safety and safeguards during an emergency	DSP OPS
IEB 78-08	Radiation levels from fuel element transfer tubes.	DSP CONS
IEB 79-01	Environmental qualification of Class IE equipment.	DSP CONS
IEB 79-01A	Environmental qualification of Class IE equipment.	DSP CONS
IEB 79-01B	Environmental qualification of Class IE equipment.	DSP CONS
IEB 79-01B-S1	Environmental qualification of Class IE equipment-Supp. No. 1.	DSP CONS
IEB 79-01B-S2	Environmental qualification of Class IE equipment-Supp. No. 2.	DSP CONS
IEB 79-01B-S3	Environmental qualification of Class IE equipment-Supp. No. 3.	DSP CONS
IEB 79-05	Nuclear incident at Three Mile Island.CLOSED IN 84-07.REOPENED	DSP OPS
IEB 79-05A	Nuclear accident at Three Mile Island.CLOSED IN 84-07.REOPENED	DSP OPS
IEB 79-05B	Nuclear incident at Three Mile Island.CLOSED IN 84-07.REOPENED	DSP OPS
IEB 79-05C	Nuclear incident at Three Mile Island.CLOSED IN 84-07.REOPENED	DSP OPS
IEB 79-06	Review of Oper. errors & system misalignments identified during	DSP OPS
IEB 79-06A	Review of Oper. errors & system misalignments identified during	DSP OPS
IEB 79-06A-R1	Review of Oper.errors & system misalignments identified during	DSP OPS
IEB 79-06B	Review of Oper. errors & system misalignments identified during	DSP OPS
IEB 79-13	Cracking in feedwater system piping. Closed in 84-07.	DSP OPS

ATTACHMENT 3 TO ENCLOSURE 1

BULLETINS REQUIRING RESOLUTION
PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
IEB 79-13-R-1	Cracking in feedwater system piping-Rev.1. Closed in 84-07.	DSP OPS
IEB 79-13-R-2	Cracking in feedwater system piping-Rev.2. Closed in 84-07.	DSP OPS
IEB 79-15	Deep draft pump deficiencies. Cl.in 84-29. Reopened in 87-36.	DSP OPS
IEB 79-15-S-1	Deep draft pump deficiencies.	DSP OPS
IEB 79-17	Pipe cracks in stagnant borated water systems at PWR plants.	DSP CONS
IEB 79-17-R-1	Pipe cracks in stagnant borated water systems at PWR plants -	DSP CONS
IEB 79-18	Audibility problems encountered on evacuation of personnel	DSP OPS
IEB 79-21	Temperature Effects on Level Measurements. Cl.in 84-07.	DSP OPS
IEB 79-24	Frozen Lines. Closed in 84-07. Reopened in 88-12.	DSP CONS
IEB 79-27	Loss of non-Class IE instrumentation and control power	DSP OPS
IEB 80-06	Engineered Safety Feature (ESF) Reset Controls. Cl.in 84-07.	DSP OPS
IEB 80-10	Contam.of Nonradioactive Sys.& Potential cont.of Environment.	DSP OPS
IEB 80-15	Possible Loss of Emergency Notification System (ENS) With Loss	DSP CONS
IEB 80-24	Prevention of Damage Due to H2O Leakage Inside Containment	DSP OPS
IEB 83-04	Failure of Under-Voltage Trip Function of Reactor Trip Break-	DSP OPS
IEB 83-05	ASME nuclear code pumps & spare parts manufactured by	DSP CONS
IEB 85-03	Motor-oper.valve common mode failures during plant transient	DSP OPS
IEB 86-03	Potential failure of multiple ECCS pump due to single failure	DSP OPS
IEB 87-01	Thinning of Pipe Walls in Nuclear Power Plants.	DSP OPS
IEB 88-01	Defects in Westinghouse Circuit Breakers.	DSP CONS
IEB 88-03	Inadequate Latch Engagement in HFA Type Latching Relays Manufa	DSP CONS
IEB 88-04	Potential Safety-related Pump Loss.	DSP OPS
IEB 88-05	Nonconforming Materials Supplied by Piping Supplies, Inc., at	DSP CONS
IEB 88-05-S-1	Nonconforming Materials Supplied by Piping Supplies, Inc. at Fo	DSP CONS
IEB 88-05-S-2	Nonconforming materials supplied by Piping Supplies, Inc., at	DSP CONS
IEB 88-07-S-1	Power Oscillations in Boiling Water Reactors (BWRs).	DSP OPS

ATTACHMENT 3 TO ENCLOSURE 1

BULLETINS REQUIRING RESOLUTION
PRIOR TO FUEL LOAD

SOURCE	DESCRIPTION OF ITEM	RESP
IEB 88-08	Thermal Stresses in Piping Connected to Reactor Coolant System	DSP DPS
IEB 88-08-5-1	Thermal Stresses in Piping Connected to Reactor Coolant System	DSP DPS
IEB 88-08-5-2	Thermal Stresses in Piping Connected to Reactor Coolant System	DSP DPS
IEB 88-09	Thiable Tube Thinning in Westinghouse Reactors.	DSP DPS
IEB 88-10	Nonconforming Molded-Case Circuit Breakers	DSP CONS
IEB 88-11	Pressurizer Surge Line Thermal Stratification.	DSP DPS

Enclosure 2

Preoperational and Acceptance Testing Status

Comanche Peak preoperational test phase inspection program (preoperational and acceptance test) is approximately 5% complete. The overall status of the test program is listed below.

PREOPERATIONAL TESTS

<u>No. Tests</u>	<u>Procedures Issued By TU</u>	<u>Procedures Reviewed By NRC(1)(4)</u>	<u>No. Tests Started</u>	<u>No. Tests Completed</u>	<u>Results Reviewed By TU</u>	<u>Results Reviewed By NRC(2)(4)</u>
101	35	5	11	6	0	0

ACCEPTANCE TESTS

NON Q

<u>No. Tests</u>	<u>Procedures Issued By TU</u>	<u>Procedures Reviewed By NRC(3)</u>	<u>No. Tests Started</u>	<u>No. Tests Completed</u>	<u>Results Reviewed By TU</u>	<u>Results Reviewed By NRC(3)</u>
39	23	1	14	12	0	0

SPECIAL TESTS

<u>No. Tests</u>	<u>Procedures Issued By TU</u>	<u>Procedures Reviewed By NRC(3)</u>	<u>No. Tests Started</u>	<u>No. Tests Completed</u>	<u>Results Reviewed By TU</u>	<u>Results Reviewed By NRC(3)</u>
4	0	0	0	0	0	0

Status of Applicant Identified Test Deficiencies or Uncompleted Work Items As of 2/15/89 (Categorization by TU):

Test Deficiencies that impact fuel load:	434
Test Deficiencies that impact 5% power:	0
Test Deficiencies that impact Commercial Operation:	0
Test Deficiencies required to be resolved by first refueling or after:	<u>0</u>

Total Test Deficiencies 434

Notes:

- (1) One of these five procedures is part of the eleven procedures required to be reviewed by the 2513 inspection program.
- (2) Eleven test results are required to be reviewed by the 2513 inspection program.
- (3) None of these are specifically required to be reviewed by the 2513 program, but may be reviewed as part of the NRC's overview of the applicant performance.
- (4) Procedures and test results not specifically required to be reviewed by the 2513 inspection program may be reviewed as part of the NRC's overview of the applicant's performance.

Enclosure 3

Construction Status

Construction at CPSES Unit 1 is essentially complete.

Critical Path Items: (Not listed in order of priority)

1. Complete rework of HVAC.
2. Complete rework of supports.
3. Resolution of open items, Deficiency Reports, and allegations.
4. Procedure reissue.
5. Preoperational testing.
6. Stress reconciliation program.

Enclosure 4

Corrective Action Program Status

<u>Title</u>	<u>TUEC Percent* Project Complete</u>	<u>NRC Percent Inspection Complete</u>
1. Mechanical	93	70
a. Systems Interaction	52	50
b. Fire Protection	5	5
2. Civil/Structural	78	70
3. Electrical	82	80
4. Instrumentation and Control	58	50
5. Large Bore Piping and Pipe Supports	94	80
6. Cable Tray and Cable Tray Hangers	99	80
7. Conduit Supports Train A, B, & C 2"	100	90
8. Conduit Supports Train C \leq 2"	100	90
9. Small Bore Piping and Pipe Supports	94	80
10. Heating, Ventilation and Air Conditioning (HVAC)	76	50
11. Equipment Qualification	100	50

*Values based on PCHVP walkdown/inspections percent complete - as of February 15, 1989.

Enclosure 5

Status of Inspection Required by MC 2512, 2513, and 2514

All modules in the NRC inspection program required to be complete prior to fuel load have been completed except the ones identified on the following pages.

MC 2512 - Construction Phase

<u>Module No.</u>	<u>Title</u>	<u>Percent Complete*</u>
37055	Onsite Design Act.	80
42051C	Fire Protection	70
45051	Geological/Found. Activities- Proc. Rev.	0
45053	Geological/Found. Activities- Record Rev.	0
46053	Structural Concrete - Work Observed	90
46055	Structural Concrete - Record Review	90
46061	Masonry Construction	0
46071	Conc. Exp. Anchors	0
48051	Structural Steel Procedure Rev.	0
48053	Structural Steel and Supts. - Work Observed	90
48055	Structural Steel and Supts. - Record Review	90
49061	Saf. Rel. Piping QA Rev.	0
49063	Safety-Related Piping - Work Observed	90
50055	RV & Internals - Records Review	90
50073	Safety-Related Comp. - Work Observed	90
50075	S. R. Components Record Rev.	90
50090	Pipe Support & Restraint Systems	90
50095	Spent Fuel Storage Racks	90
50100	HVAC Systems	90
51051	Elec. Comp. Proc. Review - Init. Insp.	90
51053	Elec. Comp. - Work Observed	90
51061	Elec. Cable Proc. Review - Init. Insp.	90
51063	Elec. Cable - Work Observed	90
51065	Electrical Cable Record Rev. Init. Insp.	90
52053	Inst. Comp. - Work Observed	90
52055	Instru. Comp. Rec. Rev.	0
53053	Cont. Penetrations (Mech.) work Obs.	90
53055	Pen. Record Rev.	0
55050	Nuclear Welding Gen.	90
55100	Struct. Welding - Gen.	90
55150	Weld. Verification	90
57050	NDE - Visual	90
57060	NDE - PT	90
57070	NDE - MT	90
57080	NDE - UT	90
57090	NDE - RT	90

63050	Cntmt. Str. Integ. Rec. Rev.	0
64053B	Fire Loop Installation	90
65051	Rad. Waste	50
73051	Inserv. Insp.-Program	0
73052	Inserv. Insp.-Procedures	0
73053B	Preservice Observation	90
73055B	Preservice Data	90
80210	Environ. Protection	0

*Modules listed as 90% complete have been reopened to 90% to allow designation of time spent inspecting the Corrective Action Program.

Manual Chapter 2513 - Preoperational Phase

<u>Module No.</u>	<u>Title</u>	<u>Percent Complete</u>
<u>General</u>		
35301	Quality Assurance for Preoperational Testing	0
37301	Comparison of As-Built Plant to FSAR Description	0
70300	Preoperational Test Procedure Test Review	10
70301	Overall Preoperational Test Program Review Requirements	0
70302	Preoperational Test Program Implementation	0
70311	Preoperational Testing Procedure Verification	10
70312	Preoperational Test Witnessing	0
70329	Preoperational Test Result Evaluation Verification	0
70370	Testing of Pipe Supports and Restraint Systems	0
70400	Preoperational Test Results Evaluation	10
71302	Preoperational Test Program Implementation Verification	
<u>Mandatory Test Procedure Review</u>		
70304	Engineered Safety Features Test	0
70305	Reactor Protection System Test	100
70306	Loss of Offsite Power Test	0
70307	Containment System: Integrated Leak Rate Test	0
70308	Integrated Hot Functional Test	0
70362	Reactor Coolant System Hydrostatic Test	0
<u>Primal Test Procedure Review</u> (Select 5 of the following)		
70331	Vibration Test	0
70332	Control Rod System Test	0
70333	Chemical Control System Test	0
70334	Engineered Safety Features Activation System Test	0
70335	Safety and Relief Valve Test	0
70336	Residual-Decay Heat Removal System Test	0
70337	Main Steam Isolation Valve Test	0
70338	Auxiliary Feedwater System Test	0
70339	Component Cooling Water System Test	0

70340	DC Power System Test	0
70341	Emergency-Standby Power Supply System Test	0
70342	Containment System: Combustible Gas Control System Test	0
70343	Containment Spray System Test	0
70344	Containment Isolation Valve Test	0
70345	Containment Heating, Cooling, Ventilation System Test	0
70346	Auxiliary Building Heating, Cooling, Ventilation System Test	0
70347	Pressurizer and Level Control System Test	0
70348	Main Feedwater Control System Test	0
70349	Reactor Coolant Leak Detection System Test	0
70350	Loose Parts Monitoring System Test	0
70351	Integrated Reactor Control System Test	0
70352	Remote Reactor Shutdown Test	0
70353	Cranes, Hoists, and Lifting Equipment Test	0
70354	Nuclear Instrumentation System Test	0
70355	Compressed Gas System Test	0

Mandatory Test Witnessing

70313	Containment System: Integrated Leak Rate Test	0
70314	Integrated Hot Functional Test	0
70315	Engineered Safety Features Test	0
70316	Loss of Offsite Power Test	0
70317	Reactor Protection System Test	0
70462	Reactor Coolant System Hydrostatic Test	0

Primal Test Witnessing
(select 5 of the following)

70431	Vibration Test	0
70432	Control Rod System Test	0
70433	Chemical Control System Test	0
70434	Engineered Safety Features Activation System Test	0
70435	Safety and Relief Valve Test	0
70436	Residual-Decay Heat Removal System Test	0
70437	Main Steam Isolation Valve Test	0
70438	Auxiliary Feedwater System Test	0
70439	Component Cooling Water System Test	0
70440	DC Power System Test	0
70441	Emergency-Standby Power Supply System Test	0
70442	Containment System: Combustible Gas Control System Test	0
70443	Containment Spray System Test	0
70444	Containment Isolation Valve Test	0
70445	Containment Heating, Cooling, Ventilation System Test	0

70446	Auxiliary Building Heating, Cooling, Ventilation System Test	0
70447	Pressurizer and Level Control System Test	0
70448	Main Feedwater Control System Test	0
70449	Reactor Coolant Leak Detection System Test	0
70450	Loose Parts Monitoring System Test	0
70451	Integrated Reactor Control System Test	0
70452	Remote Reactor Shutdown Test	0
70453	Cranes, Hoists, and Lifting Equipment Test	0
70454	Nuclear Instrumentation System Test	0
70455	Compressed Gas System Test	0

Mandatory Test Result Evaluation

70322	Engineered Safety Features Test	0
70323	Containment System: Integrated Leak Rate Test	0
70324	Integrated Hot Functional Test	0
70325	Reactor Protection System Test	0
70326	Loss of Offsite Power Test	0
70562	Reactor Coolant System Hydrostatic Test	0

Primal Test Result Evaluation
(select 5 of the following)

70531	Vibration Test	0
70532	Control Rod System Test	0
70533	Chemical Control System Test	0
70534	Engineered Safety Features Actuation System Test	0
70535	Safety and Relief Valve Test	0
70536	Residual-Decay Heat Removal System Test	0
70537	Main Steam Isolation Valve Test	0
70538	Auxiliary Feedwater System Test	0
70539	Component Cooling Water System Test	0
70540	DC Power System Test	0
70541	Emergency-Standby Power Supply System Test	0
70542	Containment System: Combustible Gas Control System Test	0
70543	Containment Spray System Test	0
70544	Containment Isolation Valve Test	0
70545	Containment Heating, Cooling, Ventilation System Test	0
70546	Auxiliary Building Heating, Cooling, Ventilation System Test	0
70547	Pressurizer and Level and Control System Test	0
70548	Main Feedwater Control System Test	0
70549	Reactor Coolant Leak Detection System	0
70550	Loose Parts Monitoring System Test	0
70551	Integrated Reactor Control System Test	0
70552	Remote Reactor Shutdown Test	0

70553	Cranes, Hoists, and Lifting Equipment Test	0
70554	Nuclear Instrumentation System Test	0
70555	Compressed Gas System Test	0

Operations

36301	Operational Staffing Inspection	0
41301	Inspection of Operating Staff Training	0
42400	Plant Procedures Inspection	0
42450	Operating Procedures Inspection	0
42452	Emergency Procedures Inspection	0
71301	Technical Specifications Review	0

Maintenance

42451	Maintenance Procedures Inspection	0
35742	QA Program - Document Control	0
35743	QA Program - Maintenance	0
35744	QA Program - Design Changes and Modifications	0

Refueling

60501	Fuel Receipt and Storage	100
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Fire Protection

64703	Fire Prevention/Protection	0
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Surveillance

35745	QA Program - Surveillance Testing	0
35749	QA Program - Tests and Experiments	0
35750	QA Program - Test and Measurement Equipment	0

Plant Water Chemistry Controls

79501	LWR Water Chemistry Control and Chemical Analysis (Preoperational and Supplemental)	0
79502	Plant Systems Affecting Plant Water Chemistry (Preoperational and Supplemental)	0

Radiological Controls

80521	Radiological Environmental Protection	100
83522	Radiation Protection, Plant Chemistry, Radwaste, and Environmental Organization and Management Controls	40
83523	Radiation Protection, Plant Chemistry and Radwaste Training and Qualifications	40
83524	External Occupational Exposure Control and Personal Dosimetry	0

83525	Internal Exposure Control	0
83526	Control of Radioactive Materials and Contamination, Surveys, and Monitoring	0
83527	Facilities and Equipment	0
83528	Maintaining Occupational Exposures ALARA	0
84522	Solids - Control, Sampling, Monitoring, and Release	0
84523	Liquids - Control, Sampling, Monitoring and Release	0
84524	Gases and Particulates - Control, Sampling, Monitoring, and Release	0
84525	Quality Assurance and Confirmatory Measurements for In-Plant Radiochemical Analysis (Preoperational and Supplemental)	0

Security and Safeguards

81018	Security Plan and Implementing Procedures	10
81020	Management Effectiveness	0
81022	Security Organization	0
81034	Security Program Audit	0
81038	Records and Reports	0
81042	Testing and Maintenance	0
81046	Locks, Keys, and Combinations	0
81052	Physical Barriers - Protected Areas	0
81054	Physical Barriers - Vital Areas, Material Access Areas, and Controlled Access Areas	10
81058	Security System Power Supply	0
81062	Lighting	0
81064	Compensatory Measures	0
81066	Assessment Aids	0
81070	Access Control - Personnel	0
81172	Access Control - Packages (Reactors)	0
81074	Access Control - Vehicles	0
81078	Detection Aids - Protected Areas	0
81080	Detection Aids = VA, MAA, and CAA	0
81084	Alarm Stations	0
81088	Communications	0
81501	Personnel Training and Qualifications - General Requirements	0
81601	Safeguards Contingency Plan - Implementation Review	0
81810	Physical Protection Safeguards Information	0
85102	Material Control and Accounting (Reactor)	0

Quality Assurance

35740	QA Program - QA/QC Administration	0
35741	QA Program - Audits	
35746	QA Program - Procurement Control	0

35747	QA Program - Receipt Storage, and Handling of Equipment and Materials	0
35748	QA Program - Records	0
40301	Safety Committee Activity Inspection	0

Other

92718	Safety Evaluation Report Review and Followup	20
TI2513/55	Emergency Preparedness Implementation	0
TI2515/65	TMI Action Plan Items	5
TI2515/69	Bulletin 85-01 "Steam Binding in AFW"	0
TI2515/72	Bulletin 85-02 "Shunt Trip for RTB"	0
TI2515/73	Bulletin 85-03 "MOV Improper Switch Settings"	0
TI2515/76	"Electrical Equipment Environmental Qualification"	0
TI2515/86	Generic Letter 81-21, "Natural Circulation Cooldown"	0
TI2515/87	"Regulatory Guide 1.97 Instrumentation"	0
TI2515/88	"Flooding Protection"	0
TI2515/91	"Generic Letter 83-28" ATWS	0
TI2515/92	"EOP Team"	0
TI2515/93	"DG Fuel Oil QA"	0
TI2515/94	"PWR Moderator Dilution"	0
TI2515/97	"Maintenance Team"	0
TI2515/98	"High Temp in Containment"	0
TI2515/100	"DG Fuel Oil Quality"	0
TI2500/14	"Solid State Protection System"	0
TI2500/16	"Seismic Interaction Between Flux Mapping System and Seal Table"	0
TI2500/17	"Heat Shrinkable Tubing"	0
TI2500/19	"RV Pressure Transient"	0
TI2500/20	Generic Letter 85-06, ATWS	0

Manual Chapter 2514 - Startup Testing Phase

General

35501	QA for Startup Test Program	0
72300	Startup Test Procedure Review	0
72301	Startup Test Results Evaluation	0
70302	Startup Test Witnessing and Observation	0
72400	Overall Startup Test Program	0
72500	Initial Fuel Loading Procedure Review	0
72524	Initial Fuel Loading Witnessing	0
83521	Radiation Protection - Startup	0
84521	Radwaste - Startup	0

Specific

72564	Precritical Test Procedure Review (Protective Trip Circuit, Group B, and Rod Drop Measurement, Group A)	0
72566	Precritical Test Procedure Review (RCS Leak Test, Group A, and Pressurizer Effectiveness, Group B)	0
72570	Initial Criticality Procedure Review (Group A and B)	0
72572	Low Power Test Procedure Review (Moderator Temperature Coefficient Measurement and Boron Reactivity Worth, Group B, and Rod Worth and Pseudo Rod Ejection, Group A)	0
72576	Power Ascension Test Procedure Review (Natural Circulation, Group A, and Power Reactivity Coefficient Measurement, Group B)	0
72578	Power Ascension Test Procedure Review (Evaluation of Core Performance) (Group A and B)	0
72580	Power Ascension Test Procedure Review (Turbine Trip, Group B, and Generator Trip, Group A)	0
72582	Power Ascension Test Procedure Review: Loss of Offsite Power (Group A and B)	0
72583	Power Ascension Test Procedure Review: Shutdown from Outside the Control Room (Group B)	0
72584	Power Ascension Procedure Review (Evaluation of Flux Asymmetry or Pseudo Rod Ejection Test) (Group A)	0
72592	Initial Criticality Witnessing	0
72596	Precritical Data Review	0
72600	Power Level Plateau Data Review (25%)	0

72608	Power Level Plateau Data Review (50%)	0
72616	Power Level Plateau Data Review (75%)	0
72624	Power Level Plateau Data Review (100%)	0