

BECHTEL POWER CORPORATION
ORGANIZATION: GAITHERSBURG POWER DIVISION
GAITHERSBURG, MARYLAND

REPORT NO.: 99900519/81-03	INSPECTION DATE(S): 7/20-23/81	INSPECTION ON-SITE HOURS: 80
CORRESPONDENCE ADDRESS: Bechtel Power Corporation Gaithersburg Power Division ATTN: Mr. J. M. Komes, Vice President and General Manager 15740 Shady Grove Road Gaithersburg, Maryland 20760 ORGANIZATION CONTACT: D. C. Kansal, QA Manager TELEPHONE: (301) 258-3776		
PRINCIPAL PRODUCT: Architect Engineering Services NUCLEAR INDUSTRY ACTIVITY: The total effort committed to domestic nuclear activities is approximately 80% of the 2,700 person staff of the Gaithersburg Power Division. Major projects include Callaway Units 1 and 2, Wolf Creek Unit 1, and Grand Gulf Units 1 and 2. There are also modification/repair/service contracts on 14 additional reactor units.		
ASSIGNED INSPECTOR: <u>R. H. Brickley</u> <u>8/11/81</u> R. H. Brickley, Reactor Systems Section (RSS) Date OTHER INSPECTOR(S): D. G. Breau, RSS J. R. Costello, RSS APPROVED BY: <u>C. J. Hale</u> <u>8-11-81</u> C. J. Hale, Chief, RSS Date		
INSPECTION BASES AND SCOPE: A. <u>BASES</u>: 10 CFR Part 50, Appendix B and Topical Report BQ-TOP-1. B. <u>SCOPE</u>: Design verification, design process management, design interfaces, design change control, design corrective action, and status of previous inspection findings.		

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INSPECTION RESULTS:

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A. VIOLATIONS:

None

B. NONCONFORMANCES:

None

C. UNRESOLVED ITEMS:

None

D. STATUS OF PREVIOUS INSPECTION FINDINGS:

(Closed) Follow Up Item (80-03) HVAC Air Extractors installed in non-safety-related systems were structurally inadequate. Bechtel and the supplier were to investigate and determine if these extractors were to be used in safety-related systems.

The investigation identified safety-related systems in which these extractors were to be used. The licensee, Mississippi Power and Light Company, submitted their final report to NRC/RII on July 2, 1981 (Ref. PRD 80/63). In addition the supplier, Tuttle and Bailey, notified NRC/HQ per 10 CFR Part 21 of this problem on November 14, 1980.

E. OTHER FINDINGS OR COMMENTS:

1. Design Verification - Applicable Engineering Department Procedures and Engineering Department Project Instructions were examined for implementation of commitments made for the design verification process on the SNUPPS project. Documents providing evidence of design verification of the Residual Heat Removal System for this project were examined i.e. nine drawings, three specifications, and seven calculations. It was determined that design verification of this system had been performed in accordance with applicable procedural requirements.
2. Design Process Management - Section 17A.1.3 of the SNUPPS PSAR and applicable Engineering Department Procedures and Engineering Project Instructions were examined to determine quality assurance program commitments. To verify implementation of these commitments, the following documents pertaining to the SNUPPS Safety Injection System were examined: three design specifications, three design calculations, 13 design drawings and six miscellaneous documents. It was determined that design process management of this system had been implemented in accordance with applicable procedural requirements. In reviewing design change control it was noted that design changes were not being incorporated into the drawings in the time frame required by procedures in every case; however, this had been recognized by Bechtel quality assurance and proper action has been taken.

3. Design Change Control - Grand Gulf Project Engineering Procedures Manual for proper addressing of design change control were examined. Eleven specifications, eight drawings, ten drawing change notices, and five calculations, along with their subsequent revisions were reviewed to assure that design change control commitments were implemented. In addition, the Quality Assurance Program Project Summary Q-list, along with Design Control Checklists for three design disciplines, were reviewed for proper controlling elements. All procedural commitments were being followed properly.
4. Design Corrective Action - Grand Gulf Project Engineering Procedures Manual for proper addressing of Design Corrective Action were examined. The Project Quality Engineering Quarterly design deficiency review was examined to assure that there are subsequent reviews for possible trending of recurring design deficiencies. Ten nonconformance reports and eight Management Corrective Action Reports that resulted in some form of design change were examined to assure that proper procedural commitments were followed. Eight field change requests/notices that interfaced with project engineering were reviewed for proper dispositioning content. All procedural commitments were being followed properly.
5. Design Interfaces - Grand Gulf Project Engineering Procedures Manual for proper addressing of internal and external design interfaces were examined. Examples of external design interfaces between Bechtel and the NSSS for the Grand Gulf project were examined as evidence of proper design information communication. Along with this examination of these transmittals, the effected design documents were reviewed to assure that incorporation of this design information was properly completed. Five design document transmittals along with their impacting design discipline review and comment, were reviewed as examples of Bechtel's internal design interface processes. All procedural commitments were being followed properly.

PERSONS CONTACTED

Company BECHTEL / GATHERSBURG

Dates 7/20 - 7/24

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Inspector D. G. BREAU

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NAME(Please Print)

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1	2	TITLE/SUBJECT	3	4
	3	Project Engineering, Procedures Manual Grand Gulf Proj	9-8-80	3
	2	Specifications E-014.0 "Synchronous Motor"	5-7-76	1
	"	" E-031.5 "Instrumentation and Computer Cable"		2
	"	" E-037.0 "Conduit and Tray Support"	4-13-79	6
	"	" J-515.0 "Pressure Gauges"		12
	"	" J-108.0 J-888.0 "Local Annunciator System"	6/2/76	4
	"	" M-011.0 "Reactor Feed Pumps"	1-5-79	7
	"	" M-141.1 "Pressure Relief Valves Nuclear Service"		24
	"	" M-155.0 "Containment Spray Nozzles"		10
	8	"Quality Assurance Program Project Summary Q-List"	3-25-81	11
	8	Design Control Checklist (DCCL) Mech. discipline	7-6-81	14
	8	" " " " Elect. discipline	6-18-79	9
	1	Electrical Draw. "E-2111" Sht 18	5-28-81	0
	1	" " E-1166 Sht 17 DCN 1, DCN 2	5-29-81	1
	1	" " E-1180 Sht. 03 DCN 2	7-24-80	3
	1	Mechanical Draw M-1085B DCN's 21, 22, 23, 24, 25	6-22-81	16

Document Types:

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| 1. Drawing | 5. Purchas Order |
| 2. Specification | 6. Internal Memo |
| 3. Procedure | 7. Letter |
| 4. QA Manual | 8. Other (Specify-if necessary) |

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Document Types:

1. Drawing
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	3	Project Engineering Procedures Manual Grand Gulf Proj.	9-8-80	3
	6	Quarterly Design Deficiency Review by Project Quality Engineering	5-81	
	8	Management Corrective Action Report #29 (MCAR)	8-2-77	
	8	" " " " #35	11-30-77	
	8	" " " " #73	4-16-80	
	8	" " " " #77	4-30-80	
	8	" " " " #84	6-12-80	
	8	" " " " #87	6-20-80	
	8	" " " " #97	8-7-80	
	8	" " " " #104	12-19-80	
	8	Nonconformance Reports (NCR) #1598	3-11-77	
	8	" " " " #5549	6-11-81	
	8	" " " " 5524	6-19-81	
	8	" " " " 5515	6-15-81	
	8	" " " " 5482	6-26-81	
	8	" " " " 5456	3-10-81	

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1. Drawing
2. Specification
3. Procedure
4. QA Manual

1. Sequential Item Number	2. Type of Document	3. Date of Document	4. Revision (If applicable)
1	Technical Report	1998-01-01	1
2	Technical Report	1998-01-01	1
3	Technical Report	1998-01-01	1
4	Technical Report	1998-01-01	1
5	Technical Report	1998-01-01	1
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28	Technical Report	1998-01-01	1
29	Technical Report	1998-01-01	1
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81	Technical Report	1998-01-01	1
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88	Technical Report	1998-01-01	

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1	2	TITLE/SUBJECT	3	4
	8	Drawing Transmittal to Client MPT-81/0428 drw J-0160T	3/31/81	
	7	Letter from MP&L To Bechtel "approval of Drw J-0160T"	4/22/81	
	8	Change Request / Notice FCN - 21-539		
	8	Drw M-1077 B ; DCN #7		11
	8	GE Field Deviation Request (FDDR) # JBI-260	10-24-80	
	8	FDDR JBI-263	10-28-80	
	7	Letter GE/Bechtel "re to relocate instruments"	10-28-80	
	8	Q instrument installation list J-0131G	7	
	9	Letter GE/Bechtel	9-17-80	
	7	Bechtel/GE "Relocation of Fuel rods ^{because} of pool during a pool swell"	3-24-80	
	8	Inter Project Drawing / Document Transmittal	5/5/81	
	1	PCI Drw 35-009-20 "Screen Drain Line Support"		
	9	Bechtel/GE "Modification of CRDH System Mod"	6-4-81	
	7	Bechtel/PCI "CRDH System Modifications"	6-3-81	
	8	DCN #5 Drw M-1097 "MSIV-Isolating Cooled Systems"	2-25-81	

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PERSONS CONTACTED

Company Bechtel

Dates 7/20-23/81

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Inspector J. R. Castello

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Inspector J. R. Castello

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1	2	TITLE/SUBJECT	3	4
1	3	Section II (Design Control) Nuclear Quality Assurance Manual SNUPPS Project	6/6/77	1
2	8	Project Summary & Post for the Standardized Nuclear Unit Power Plant Systems (SNUPPS)	12/9/80	7
3	3	Design Interface Control EDPI-4.25-01	3/9/78	1
4	3	EDPI-4.49-01 Project Specifications	5/12/80	10
5	3	EDPI-4.46-01 Project Engineering Drawings	12/11/80	16
6	3	EDPI-3.4-01 Scope of Services And Division of Responsibility	1/4/78	2
7	2	Specification No. 10466-M-109A(4) Design Specification for Contract for Furnishing, Erecting, and Testing of Steel Field Erected Joints for the Standardized Nuclear Unit Power Plant System (SNUPPS)	1/30/80	3
8	2	Specification No. 10466-M-109(2) - Same title as above	4/10/80	9
9	8	SNUPPS Document Release Log	6/30/81	-
10	3	EDPI-4.47-01 Drawing Change Notice	5/8/81	11
11	3	EDPI-4.41-01 Base Design Document Review, Approval, and Release Requirements	5/8/78	1

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1	2	TITLE/SUBJECT	3	4
✓ 12	3	EDP-4.26 Interdisciplinary Design Review	5/31/78	0
✓ 13	3	EDP-4.27 Design Verification	5/31/78	0
✓ 14	1	M-03EM01(Q) Piping Schematic High Pressure Coolant Injection System Aux Bldg	2/22/80	7
✓ 15	1	M-03EM03(Q) Piping Schematic High Pressure Coolant Injection System - Reactor Bldg	2/4/81	6
✓ 16	1	M-03EM05(Q) Piping Schematic High Pressure Coolant Injection System - Reactor Bldg	3/10/81	6
✓ 17	1	M-03EM07(Q) Small Piping Schematic High Pressure Coolant Injection System Aux Bldg	7/11/80	6
✓ 18	1	M-03EM09(Q) Small Piping Schematic High Pressure Coolant Injection System - Aux Bldg	9/30/81	4
✓ 19	1	M-02EM01(Q) Piping and Instrumentation Diagrams High Pressure Coolant Injection System	12/4/79	5
✓ 20	1	J-04EM03(Q) Instrument Schematic Safety Injection Pump 1A Discharge	3/16/81	4
✓ 21	1	J-04EM13(Q) Instrument Schematic Dry Criticality Sg. Pumps to BWR Dry Tank	9/2/80	0
✓ 22	1	C-03EM01(Q) Pipe Whip Restraints High Pressure Cool Injection System Sub 1	7/31/80	1
✓ 23	1	E-03EM03(Q) Schematic Diagram SIS Mainflow Isolation Valves	4/30/80	2
✓ 24	1	E-03EM09(Q) Schematic Diagram Safety Injection Pump Section Valves	4/31/80	2
✓ 25	1	M-03EM10(Q) Small Piping Schematic High Pressure Coolant Injection System Aux Bldg	5/15/81	5
✓ 26	1	M-03EM02(Q) Piping Schematic High Pressure Coolant Dry Injection Aux Bldg	4/30/81	7
✓ 27	2	M-00EM(Q) System Description High Pressure Coolant Injection System	7/12/78	3

Document Types:

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1	2	TITLE/SUBJECT	3	4
28	8	Calculation No. EM-37, "TEMOL Nozzles Thermal Growth"	10/11/80	0
29	8	Calculation No. EM-5, Pressure Drop Calculation for Line S-HCB-Pump B Suction Header	9/26/78	B
30	8	SNUPPS Project Calculation Index for Mechanical/Nuclear	—	—
31	8	Mechanical/Nuclear Design Control Check List, SNUPPS Project	5/1/79	9
32	8	M-00EM System Description High Pressure Coolant Injection System	7/12/78	3
33	8	M-000 SNUPPS Mechanical/Nuclear Design Criteria	8/30/77	6
34	3	EDPI-4.1-01 Design Criteria	5/12/80	5
35	8	Calculation No. EM-34 RV 8852 Backpressure Calculation	8/10/78	0
36	8	Chapter 17A-2 Section 17A.1.3 (Design Control) of the SNUPPS PSAR	—	0
37	3	EDPI-4.37-01 Design Calculations	1/9/81	8

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Company BPC/GPD

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Inspector T. H. BRICKLEY

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Inspector R. H. BRICKLEYScope/Module DESIGN VERIFICATION

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1	2	TITLE/SUBJECT	3	4
1	3	EDP 4.27 (DESIGN VERIFICATION)	5/31/78	0
2	3	EDP 4.33 (CHIEF ENGINEERS' ON-PROJECT TECHNICAL REVIEW PROGRAM)	3/9/79	1
3	3	EDPI 4.34-01 (OFF-PROJECT DESIGN REVIEW (DESIGN CONTROL CHECKLIST AND DESIGN REVIEW NOTICE))	—	—
4	3	EDPI 4.37-01 (DESIGN CALCULATIONS)	1/15/79	4
5	3	EDPI 4.41-01 (BASE DESIGN DOCUMENT, REVIEW, APPROVAL AND RELEASE ^{REQUIREMENTS})	1/9/81	8
6	3	EDPI 4.46-01 (PROJECT ENGINEERING DRAWINGS)	5/8/78	1
7	3	EDPI 4.47-01 (DRAWING CHANGE NOTICE)	12/11/80	16
8	3	EDPI 4.49-01 (PROJECT SPECIFICATIONS)	5/8/81	11
9	8	TECHNICAL REVIEW REPORT NO 1980-19 (JET IMPINGEMENT ANALYSIS)	5/12/80	10
10	8	M-00EJ(Q) (SYSTEM DESCRIPTION RESIDUAL HEAT REMOVAL SYSTEM)	9/16/80	NA
11	8	CIVIL STAFF TECH REVIEW SUMMARY	2/14/78	3
12	6	TECHNICAL REVIEW REPORT 1980-19	9/3/80	NA
13	1	M-03EJ01(Q) (PIPING ISOMETRIC RHR SYSTEM AUX BLDG - "A" TRAIN)	12/5/80	NA
14	8	SNUPPS PROJECT CALCULATION INDEX - MECH/NUCLEAR	3/20/81	10
15	1	M-03EJ02(Q) (PIPING ISOMETRIC RHR'S AUX BLDG - "B" TRAIN)	—	—
16	1	M-03EJ03(Q) (PIPING ISOMETRIC RHR'S AUX BLDG - "A" & "B" TRAIN)	3/10/81	14
			5/18/81	8

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17	1	M03EJ04(Q) (PIPING ISOMETRIC RHR5 REACTOR Bldg)	12/9/80	7
18	1	M-02EJ01(Q) (P&ID RHR5)	7/6/79	8
19	1	M-03EJ05(Q) (PIPING ISOMETRIC, ENCAPSULATED CMT RECIRC SUMP PIPING - PLANT SECT)	5/8/81	7
20	1	M-03EJ06(Q) (SMALL PIPING ISO, RHR5, AUX Bldg - Details)	7/16/80	4
21	1	M-03EJ07(Q) (SMALL PIPING ISO, RHR5, REACTOR Bldg)	12/12/79	2
22	1	M-03EJ08(Q) (SMALL PIPING ISO, RHR5, AUX Bldg)	8/20/80	2
23	2	10466-M-109(Q) (DESIGN SPEC. FOR FURNISHING, ERECTING, & TESTING OF STEEL FIELD ERECT. TANKS)	4/10/80	9
24	2	10466-M-109A(Q) (DESIGN SPEC. FOR FURNISHING, ERECTING, & TESTING OF STEEL FIELD ERECT. TANKS)	1/30/80	3
25	8	QA PROGRAMS FOR DESIGN AND CONSTRUCTION	9/80	1
26	8	CALC. # EJ-30 (RHR PUMPS A & B NPSH)	1/12/80	0
27	8	CALC. # EJ-28 (RHR HEAT EXCHANGER THERMAL GROWTH)	4/29/79	1
28	8	CALC. # EJ-17 (ΔP CALC FOR 36-ECB & 37-HCB-RHR A TO CVCS & SI)	6/13/77	0
29	8	CALC. # EJ-29 (RHR FLOW ORIFICE SIZING)	4/20/81	0
30	2	10466-J-603A(Q) (DESIGN SPEC FOR NUCLEAR SOLENOID VALVES)	6/26/81	11
31	8	SNUPPS DOCUMENT RELEASE LOG	6/30/81	NA
32	8	MECHANICAL/NUCLEAR DESIGN CONTROL CHECKLIST	5/1/79	9
33	8	MECHANICAL/NUCLEAR DESIGN CRITERIA FOR SNUPPS	8/30/77	6

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Scope/Module DESIGN VERIFICATION

DOCUMENTS EXAMINED

Docket No. 99900519
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Document Types:

1. Drawing
2. Specification
3. Procedure
4. QA Manual
5. Purchas Order
6. Internal Memo
7. Letter
8. Other (Specify-if necessary)

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Scope/Module STATUS OF PREVIOUS INSPECTION
FINDINGS

DOCUMENTS EXAMINED

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1	2	TITLE/SUBJECT	3	4
1	7	MP&L Ltr to NRC/RIL (PRD-80/63, FINAL Report, Tuttle & Bailey Type VLK Air Extractors)	7/2/81	NA
2	7	Tuttle & Bailey Ltr to NRC/HQ (Defect in Our VLK Model Air Extractors)	11/14/80	NA

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