ORGANIZATION:

BECHTEL POWER CORPORATION, LOS ANGELES POWER DIVISION

NORWALK, CALIFORNIA

REPORT NO.: 99900521/81-02 INSPECTION DATE(S): 9/28-10/1/81

INSPECTION ON-SITE HOURS:

58

CORRESPONDENCE ADDRESS: Bechtel Power Corporation

Los Angeles Power Division ATTN: Mr. J. V. Morowski

Vice President and General Manager

P.O. Box 60680, Terminal Annex

Los Angeles, CA 90060

ORGANIZATION CONTACT:

Mr. R. L. Patterson, QA Manager

TELEPHONE:

(213) 864-6011, Ext. 2061

PRINCIPAL PRODUCT: Architect Engineering Services

NUCLEAR INDUSTRY ACTIVITY: The Los Angeles Power Division of the Bechtel Power Corporation is the architect engineer for seven domestic reactor units. Fifty percent of the total personnel (approximately 7,700) are assigned to activities in connection with these units.

ASSIGNED INSPECTOR: TZ. H. Brickley R. H. Brickley, Reactor Systems Section (RSS) 10/28/81

OTHER INSPECTORISI: J. R. Costello, RSS

APPROVED BY:

INSPECTION BASES AND SCOPE:

- BASES: 10 CFR Part 50, Appendix B, and Topical Report No. BQ-TOP-1.
- SCOPE: Design process management, procurement source selection, procurement document control, evaluation of supplier performance, and status of previous inspection findings.

FIGURATED ORIGINAL Cartified By

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ORGANIZATION: BECHTEL POWER CORPORATION, LOS ANGELES POWER DIVISION

NORWALK, CALIFORNIA

REPORT NO.: 99900521/81-02

INSPECTION RESULTS:

PAGE 2 of 3

A. VIOLATIONS:

None

B. NONCONFORMANCES:

Contrary to Criterion III of 10 CFR Part 50, Appendix B, and Appendix 17A of the Alvin W. Vogtle Nuclear Power Plant (VNP) PSAR, Bechtel has revised Section 17 of the VNP Project Reference Manual to allow Georgia Power Company field operations to make changes to approved engineering drawings, specifications, or other design documents without prior Bechtel Project Engineering approval.

C. UNRESOLVED ITEMS:

It is not apparent that the requirements for independent verification of engineering specifications is being properly implemented. IP-4.6 (Project Material Requisitions and Specifications) requires an independent verification by an engineer who has a level of design capability sufficient to have originated the specification. Present documentation of design specification reviews does not clearly identify the independent reviewer.

D. STATUS OF PREVIOUS INSPECTION FINDINGS:

 (Closed) Nonconformances (81-01): Computer program NE 155 (JET 2) did not show evidence of review and approval of the User's Manual, Theoretical Manual, and Verification Report.

The User's Manual, Theoretical Manual, and Verification Report have been reviewed and approved and each computer program sponsor has been required to recheck and confirm that the required documentation is completed and forwarded to the Data Processing Library.

 (Closed) Nonconformance (81-01): All project personnel were not receiving the LAPD QA Indoctrination Program training as required by procedures.

The monthly "Exception Reports" identifying personnel that require training are being issued, affected personnel and their supervisors notified of the manditory requirement, and training sessions are being conducted.

E. OTHER FINDINGS OR COMMENTS:

1. Design Process Management - Section 17 of the VNP-PSAR and applicable procedures were examined to determine that a system for design process management had been prescribed which is consistent with the commitments of the Bechtel quality assurance program. The following documents were examined to determine that the design process procedures were being properly and effectively implemented: one design criteria manual, detailed design criteria, one system description, one specification, two SAR changes, 12 document review notices, five calculations, five drawings and the minutes of three review meetings. Relative to the documents examined, one nonconformance and one unresolved item were identified (See B. and C. above).

ORGANIZATION:

BECHTEL POWER CORPORATION, LOS ANGELES POWER DIVISION

NORWALK, CALIFORNIA

REPORT NO.: 99900521/81-02

INSPECTION RESULTS:

PAGE 3 of 3

2. Procurement Source Selection - Applicable procedures/sections from the Procurement Supplier Quality Manual, Engineering Department Procedures Manual, and project procedures for two projects were examined to ascertain that procedures had been prepared and approved that prescribe a system for procurement source selection, bid evaluation and contract award consistent with QA Program commitments. Records maintained on the source selection, bid evaluation, and contract award involving five safety related contracts for two projects were examined. It was determined that these activities had been conducted in conformance with procedural requirements.

- 3. Procurement Document Control Applicable procedures/sections from the Procurement Supplier Quality Manual Engineering Department Procedures Manual, and project procedures for two projects were examined to ascertain that procedures have been prepared and approved that prescribe a system for procurement document control which are consistent with QA Program commitments. Records pertaining to the control of procurement documents involving five safety-related contracts for two projects were examined. It was determined that these activities had been conducted in conformance with procedural requirements.
- 4. Evaluation of Supplier Performance Applicable procedures/sections from the Procurement Supplier Quality Manual, Engineering Department Procedures Manual, and project procedures for two projects were examined to ascertain that procedures had been prepared and approved that prescribe a system for the evaluation of a suppliers performance that is consistent with QA Program commitments. Supplier Quality Inspection records maintained on five suppliers of safety-related equipment for two projects were examined. It was determined that these activities had been conducted in conformance with procedural requirements.

PERSONS CONTACTED

Company BPC	L/LAPD	
Docket/Report	No. 99900521	181-02

Dates 9/28-10/1/81
Inspector K.H. Brickley

Page 1 of 6

IAME(Please Frint)	TITLE(Pleasy Print)	ORGANIZATION(Please Print)
STEVEN A. LEVENER	NUCLOSE SYSTEMS STAFF GRAF LOHOCK	NUCLEAR ENGINEERING - BEHART
ARTURO P. CORRAL	AlucLEAR SYSTEMS - STAFF	" " "
	SUPERVISOR OF QUALTIEMA	BECHTEL - LAPD
CHARLES EZIMMERMA	DA MGR-AUDITS	Brettel LAPA
VINCE MANTA	PARE (ACTING)	BECHTEL LAPD
	是17.5 M. 18.5 M. 15.5 M.	

Inspector 77. N. 13ackley

Scope/Hodule Statut of Previous

DOCUMENTS EXAMINED

Page 2 of 6

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3	18/2/0	12/2/19	4/8/	18/62/1	various	12/01/6	
TITLE/SUBJECT	Associated Commenter Program Devices	Townsom Combant Jume - Tex grassion successfor Service A!	To. 180x of hemetical Modulas & Brilinan Report for Jat 2	Program Control tom. Jet gourgingement Code - Version A1-1	How Employee quentation memor for 27 employees	1980 Tegant 1071APO Compleyere Who have not attended an Godnethownton	
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Document Types:

Drawing Specification Procedure QA Manual

4.3.2.

Purchas Order Internal Memo

8.7.65

Other (Specify-if necessary) Letter

Columns:

Sequential Item Number
Type of Document
Date of Document
Revision (If applicable)

Inspector R.H. Brickley

Report IIo. 81-02 Page 3 of 6

Scope/Module Procurement - Document Control, Source Selection, & Evaluation of Suppliers Performance: PVNGS DOCUMENTS EXAMINED

1	2	TITLE/SUBJECT	3 8/14/81	4
1	8	Specification Control Los - ANPP-002	B7/17/81	800
2	.4	PROject Quality PROGRAM MANUAL, SECTIONS IV, VII	TABLE CONTENTS	TALLE CONT
3	4	Bechtel PROCUREMENT Supplier Quality MANUAL, Sections 2.0 \$ 3.0	11/15/79	0
4	3	EDP-6.10 (Supplier QA Program Selection and Evaluation)	5/20/75	1
5	3	IP-4.16 (Project Waterial Requisitions and Specifications)	10/31/80	18
6	3	IP-4.19 (Bid Evaluation / Award)	10/14/77	6
7	8	Procurement Files for MR-13-JM-105 (Main Steamand feedwater		
		Spec. 13-JM-105, Bid Evaluation, Supplier Quality Troyson Evaluation Teport, Letters & Liconsee, Correspondence in Supplier		
		Supplier Deviation Disposition Request, P.O. Revision etc.	Various	MA
8	8	Evaluated Supplier Fist	9/4/81	NA
9	8	Surveillance Inspection tiles MQ-13-JM-105 consisting of Special Instructions for Surveillance, checklist-Summary of Initial		
		Pour Revisions Quality Surveillance Reports Whereall Component Release for Shipment, Supplier Quality Surveillance Reports Waterial	Various	NA

Document Types:

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

- 1. Sequential Item Number
- 2. Type of Document
- 3. Date of Document
- 4. Revision (If applicable)

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DOCUMENTS EXAMINED

-	2	TITLE/SUBJECT	3	4
0/	80	Procurement Files for MR 13-PM-20913 (Nuclear Mechanical	Various	NA
11	80	Survey lance Inspection tile for MR 13-PM-209B courieties	Vanious	NA
7	80	consisting of same contents as the #7	Various	NA
6	0	Summillaries furpletion tile for MR 13 CM-155 converting	Various	W

Document Types:

- Drawing Specification

 - Procedure QA Manual

- Purchas Order Internal Memo 8.7.6.5
 - Letter
- Other (Specify-if necessary)

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- Sequential Item Number Type of Document
- Date of Document Revision (If applicable)

Inspector 12. H. 17 IZICKIE 4

Page 5 of 6

DOCUMENTS EXAMINED

Scope/Module Procurement - Document Control, Source Selection, & Evaluation of Supplier Performance - Vogtle

1	2	TITLE/SUBJECT	3	4
1	3	Part D, Section z (Purchasing) of VNP Project Reference Monual	1/23/81	3
2	4	Becktel Procurement Supplier Quality Manual, Section 2 \$ 3	11/15/79	0
3	3	EDP 6.10 (Supplier OA Program Selection and Explustion)	5/20/75	1
4	X	Evaluated Supplier List	9/4/81	NA
5	8	Specification/MR Control Log	9/11/81	NA
6	8	Procurement tiles for Engineering Tequisition 1X4AJZO(I&C,		
		Auto Dangeers, Bockdraft Dangeers and Actuators) consisting		
		of Engineering Requisition, Internal Memor, Letters to &		
		to & From Lupplier.	Various	NA
7	- 8	Surveillance Inspection tile for IX 4AT 20 consisting of:		
		Georga Power Co. P.O. Quality Surveillance Flow, Supplies		
		Jetler to + From Dungdier, Approved Bidders List,		
		Quality Program Evaluation Checklist & Report, Supplier		
		Quality Program Evaluation Report Specification		
		X4 AJ20 (Tero, c/10/20) & Addenduse = 1(6/10/80)	VARIOUS	NA

Document Types:

- 1. Drawing
- 3. Procedure 7. Letter
- 4. QA Manual
- 5. Purchas Order
- 2. Specification 6. Internal Memo

 - 8. Other (Specify-if necessary)

- 1. Sequential Item Number
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- 3. Date of Document
- 4. Revision (If applicable)

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DOCUMENTS EXAMINED

Page 6 of 6

P	TITLE/SUBJECT	3	4
-	Procurement tiles for Engineering Requisition 3xABOS	Various	NA
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Document Types:

- Drawing Specification Procedure QA Manual
- Purchas Order Internal Memo 8.7.65
- Letter Other (Specify-1f necessary)

- Sequential Item Number
 Type of Document
 Date of Document
 Revision (If applicable)

PERSONS CONTACTED

Company Bechtel - LAPE	<u>, </u>	Dates 9/28-10/4/81
Docket/Report No. 99900	521/81-02	nspector J. R. Costello
		Page of
NAME(Please Print)	TITLE(Please Print)	ORGANIZATION(Please Print)
A.G. COUTOUMANOS	QA MANAGER	PUBLITY ASSURANCE
R.L. Patterson	Mgr. Division Q.A.	//
C.E. ZIMMERMAN	GA MGR- AUDITS	Quality Assurance (STAH)
MJ. GROTHE	SUPV OF QUAL ENGR	BECHTEL-LAPD-ENGR
KJ STWERTNIK	PVN65 Project Quality En	g. Bechtel
V. NAJARIAN	Assist Project Eng.	Beehtel
R.W. WELCHER	PUNGS PROJECT QAE	BECHTEL -LARD QA
R. R. Stiens	Privas PROJ. Big.	Beelfel
D.G. Keith	Asste Proje Eng	Bechte /
	///////////////////////////////////////	

Inspector J. R. Costello

Scope/Module Design Process Management/379918

DOCUMENTS EXAMINED

DUCKEL NO. 77706341 Report No. 81-02 Page 1 of 4

1	2	TITLE/SUBJECT	3	4
1	8	Design Criteria Manual, Palo Verde Nuclear Generating Station Units	7/6/81	17
2	3	EDP-4.1, Design Criteria	8/20/75	2
3	3	IP-4.1. Design Grileria	3/1/18	10
4	3	Pale Verde Nuclear Generating Station Quality Program Procedure No. 3.5	10/24/29	
5	8	Document Review Nelice, Leg No 548, Detailed Design Criteria-	9/14/25	0
6	2	Auxiliary Feed water System Specification No. 13-MM-02: Auxiliary Feedwater Pumps For The Arizona Public Service Company Pale Verda Nuclear Generaling	4/1/81	8
7	8	Station Units 1, 2 And 3 Document Review Notice, Log No. 418, Auxiliary Foodwater Pamps	5/23/75	0
8	8	System Description, Assistary Feedwater System, Pala Verde	11/2/79	1
9	8	Detailed Design Criteria, Auxiliary Feedwater System, Pale Yerde	4/4/80	1
10	8	Section 17 of Pale Verde Nuclear Generating Station Units 1, 283 PSAR	3/1/78	_/7

Document Types:

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

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- 3. Date of Document
- 4. Revision (If applicable)

Inspector J. R. Costello

Scope/Module Design Process Management / 37991 B

DOCUMENTS EXAMINED

Report Ho. 81-02
Fage 2 of 4

1	2	TITLE/SUBJECT	3	4
11	3	EDP-4.33, On-Project Design Review	8/25/75	0
12	3	EDP-4.34, Off- Project Design Review	3/30/77	4
13	3	EDP-4.37, Design Calculations	10/6/80	7
14	3	EDP- 4.46, Project Drawings	10/6/80	9
15	3	EDP - 4.47 Drowing Change Natice	2/20/79	2
16	3	EDP- 4.49, Project Specifications	5/27/26	5
17	3	EDP- 4.3, Application Of ANSI N45.2.11	6/6/77	0
18	3	EDP- 4.28, Project 9- List	6/27/75	3
19	8	SAR Change Natice No 860 PUNGS-1,2 & 3 PSAR	2/7/80	-
20	8	DRNANO. 2838, Specification 13-EM- OFU, Batteries	7/23/80	3
21	8	DRN Leg No. 2090, Specification 13-JM-200, Main Control Panels	7/5/28	3
22	8	DRN Leg No 2514, Specification 13-MM-071, Q Class Heat Eachangers	8/14/79	6
23	8	DRN 1-19 No. 449, Specification 13-MM- A71, Q Class Heat Eachangers	6/3/75	0
24	8	DRN Leg No. 379, Specification 13-NM-993, Hydagren Recombiners	3/17/75	0
25	- 8	DRN Log No. 2998, Specification 13-MM-018, Dieser Generators and Auxiliaries	2/27/81	8

Document Types:

- 1. Drawing
- 2. Specification 6. Internal Memo
- 3. Procedure 7.. Letter
- 4. QA Manual
- 5. Purchas Order

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Inspector J. R. Costello

Scope/Module Design Process Management /379918

DOCUMENTS EXAMINED

COUNTY IN LILOVAGE Report Ho. 81-02 Page 3 of 4

1	2	TITLE/SUBJECT	3	4
26	8	DRN Log No. 316, Specification 13 - PM-209, Nuclear Pipe Supports	3/13/75	9
27	8	DRN Los No 2640, Specification 13-PM-112, Design Spec For Nuclear Sampling System	1/7/80	
28	8	DRN Lag No 392, Specification 13-JM-691, Huclear Salaty Reliet	6/10/75	0
29	8	DRN Las No 3018 Specification 13-MM-021, Auxiliary Feed Pumps	4/2/81	9
30	8	Colculation No. 13-MC-AF- 200 , Auxiliary Feedwater Pump Head	10/19:79	1
31	8	Calculation No. 13-MC-AF- 600, Auxiliary Feedwater Regulating Values	10/19/77	2
32	8	Calculation No. 13-MC-CT-205, Condensate Storage Tank	4/17/79	0
33	8	Calculation No. 13-MC-AF-800, Diesel Generator Load Sequence -	4/20/79	0
33 YRC	ayıc	Arxiliary Feedwater Pumps		
34	3	Multidiscipline Systems Analysis Review, IP-4.3	6/15/75	5
35	3	IP- 9.26, Designing Pewer Plants By Use Of Madels	9/14/27	2
36	8	"ALARA / ISI Review Meeting on 5/21/28 Ava. Feed water	7/19/78	-
37	8	ALARA/ISI Review Meeting on 12/16/27 Avx. Feedwater	1/12/78	-
38	8	ALARA/ISI Review Meeting on 11/177 Aux. Feed water	12/3/22	-

Document Types:

- 1. Drawing
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* ALARA - As Low As Reasonably Achievable ISI - Inservice Inspection

Inspector J. R. Costelle

Scope/Module Design Pracess Management / 379918

DOCUMENTS EXAMINED

Report No. 81-02
Page 4 of 4

1	2	TITLE/SUBJECT	3	4
39	1	13-M-AFP-001, PST Diagram Avriliary Feedwater System	6/2/81	8
40	1	13-M-AFF-001, Basic Flow Dingrom Auxiliary Feedwater System	1/20/22	0_
41		13-J-AFL-001, Central bagic Diagram Auxiliary Feedwater Pump B And AFAS Maintained Legis	8/20/29	2
42	1	13-J-AFL-002, Centra, Legis Diagram Axxiliary Feed mater Regulating Valves	7/19/79	2
43	1	13-E-AFO-004, Elementary Diagram Auxiliary Feed water System Aux Feed water Regulating Valve	3/3/81	4
44	8	SAR Change Notice 860, PYNGS PSAR	4/1/90	-
45	8	Section 17 of Yostle Nuclear Power Plant PSAR	3/2/77	-
46	8	VNP Project Reference Manual, Part & Engineering, Section 17 Field Change Requests and Field Change Natices	9/24/81	3

Document Types:

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

- 1. Sequential Item Number
- 2. Type of Document
- 3. Date of Document
- 4. Revision (If applicable)

ATTENDANCE LIST

COMPANY: BPC/LAPD DOCKET NO. 99900521		
Date: 10/1/81		81-02
70/1/01	Pre-Inspection Conference	Please
NAME (Please Print)	TITLE (Please Print)	ORGANIZATION Print)
R. H. BRICKLEY	REACTOR ENGINEER	NRC/IE/RIV/VIB
J. R. Costello	REACTOR ENGINEER	NRC/IE/KIE/VIB
C.E. ZIMMERHAN	QA MGR, - AUDITS	Bechiel
M.J. GROTHE	SUPA QUALVORER	u
L.R. DQUIST	Mar of ENGR - Norwak	BECHTEL
B. L. Lex	PROJECT MANAGER- USGTLE	BECHTEL
R.L. PATTERSON	MGR DIV. QUALTY ASSUPANCE	BECHTEL
L. G. HINKELMAN	DEPUTY GENERAL MANAGER	BECHTEL
REWEBER	MGR. DN. PROCURENENT	BECHTEL
		44444