

att. 9

Arizona Public Service Company

P.O. BOX 21566 • PHOENIX, ARIZONA 85036

QUALITY ASSURANCE DEPARTMENT

QA Document No. 83-C-87/RDF

Audit Report No. _____

DATE: 26 September 1983
TO: W. E. Ide
FROM: R. D. Forrester
SUBJECT: Loose bolts on structural steel

Resolution for the loose bolts on structural steel found by the NRC CAT Inspection is as follows:

BPC Quality Assurance using marked-up drawings inspected the following areas per WPP/QCI 58.0, Erection of Structural and Miscellaneous Steel--

Auxiliary Building	Elevation 100', Areas A1B, A1A
	Elevation 120', Areas A2A, A2B
Containment Building	Elevation 100', Areas C1A, C1B, C1C, C1D
	Elevation 140', Areas C3C, C3D

One bolt in Containment Col. No. 12 did not have full thread engagement. NCR No. CC-4337 was written.

BPC Quality Assurance inspection findings determined the loose bolts found by the NRC to be an isolated case. This item is closed.

R. D. Forrester
R. D. Forrester

RDF:lc

8402140052 831220
PDR FOIA
BERNABE83-598 PDR

H/98

ATT. 10

PALO VERDE NUCLEAR GENERATING STATION		1. PAGE <u>1</u> OF <u>1</u>		2. NO. <u>(18954-E)</u>		13A.	
FIELD CHANGE REQUEST JOB NO. 10407		QUALITY CLASS <u>Q</u>		3. DATE <u>5/11/81</u>		13B. <u>11/81</u>	
4. REF DWG OR SPEC <u>13-E-ZAC-033</u>		REV <u>6</u>		5. TITLE <u>AUXILIARY BLDG TRAY HANGER LAYOUT PLAN AT EL 100 FT LEVEL 1B</u>			
6. DESIGN ORIGIN: ☒ ENGINEERING ☐ SUPPLIER (IDENTIFY BY NAME)		7. ☒ UNIT 1 ☒ UNIT 2 ☐ COMMON					
8. EXISTING CONDITION							
<u>EMBED STRUT/PLATE NOT AVAILABLE</u> <u>FOR LONGITUDINAL BRACE HANGER</u> <u>1EZA1BH44 (NEAR AJ & A5)</u>							
9. CHANGE REQUEST/SKETCH							
<u>APPROVE THE USE OF FOUR (4) 1/2" DIA.</u> <u>CONC. EXP. ANCHORS AS SHOWN.</u>							
<u>LONG. BRACE CONN. DTL</u> <u>HANGER 1EZA1BH44</u>							
10. REVIEWED BY: <u>M L Alford</u> <u>5/13/81</u>				11. PREPARED BY: <u>L. A. LODOLO</u>			
DISCIPLINE FIELD ENGINEER				DATE			
DISCIPLINE FIELD ENGINEER				DATE			
13. BECHTEL ENGINEERING ☒ APPROVED ☐ DISAPPROVED				RECEIVED			
GROUP SUPERVISOR <u>5/20/81</u>				NA			
PROJECT ENGINEER <u>5-20-81</u>				NA			
DATE				DATE			
REMARKS: <u>FIELD OPTION</u>				CONSTRUCTION DATE <u>11/81</u>			
UNIT THREE TO CONSIDER INSTALLING EMBEDDED STRUT TO FACILITATE INSTALLATION							
DISTRIBUTION: ORIGINAL - PRINT COORDINATOR; COPIES TO - CLIENT, SURVEY, DISCIPLINE, AND RESIDENT ENGINEER							
ADDITIONAL DISTRIBUTION: ☐ PROJECT PROCUREMENT MANAGER ☐ COST TREND ENGINEER							



CORRECTIVE ACTION REPORT

Page 1 of 1

Classification of Adverse Condition: (See Back of Form)		CAR No. C83-135N
☒ NONCOMPLIANCE	☐ Deviation	
How Discovered: ☐ Audit No. _____	☒ Other NRC CAT Inspection	Reportability Evaluation: ☐ Not Reportable ☐ RLF No. _____
Organization Responsible: Bechtel	Date Discovered: 9/7/83	Date Reply Due: 9/21/83
Initiator(s): D. M. Holman <i>D. M. Holman</i>	Controlling Document: 1. 10 CFR 50 Appendix B Part V.2 2. 13-CM-307 Design, Installation and Testing of Concrete Anchors	Discussed With: J. Black G. Martin
Requirement: "Instructions, procedures, or drawings shall include appropriate quantitative or qualitative acceptance criteria for determining that important activities have been satisfactorily accomplished."		
Description of Adverse Condition: Contrary to the above, no acceptance criteria exists for "Group D" (13-CM-307) Anchor Systems, when expansion anchors are less than "minimum edge" distance from existing embeds (unistrut, plate, etc.) (Minimum edge distance is defined in 13-CM-307.)		
Recommended Corrective Action: 1. Provide acceptance criteria for "Group D" (13-CM-307) Anchor Systems when expansion anchor is less than minimum edge distance from existing embeds. 2. Evaluate existing "Group D" installations and rework/reinspect as necessary. This applies to Units 1, 2, and 3.		
Corrective Action - Including Action to Prevent Recurrence: (See Back of Form)		
Prepared By: _____	Authorized By: _____	Date: _____
Corrective Action Evaluation: Comments _____ Acceptable _____ Not Acceptable _____ Verification Required YES _____ NO _____ Evaluator: _____ Date: _____		
Verification: Comments _____ Acceptable _____ Not Acceptable _____ Evaluator: _____ Date: _____		

DOCUMENT/ PAGE PULLED

ANO. 8402140052

NO. OF PAGES 1

REASON

☐ PAGE ILLEGIBLE

☐ HARD COPY FILED AT: PDR CF

OTHER

☐ BETTER COPY REQUESTED ON

☒ PAGE TOO LARGE TO FILM

☒ HARD COPY FILED AT: PDR

OTHER

☐ FILMED ON APERTURE CARD NO

CF

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00E	BZJ	7900E250
00E	BGB	7900E250
00E	BhCC	79006140
00E	BW I	8302040
00E	BW C	8303090
00E	BWY	7900E250
00E	X181.11	7900070

[illegible]

NCR
EJ 1759

PAINT REMOVED
FOR SUPPORT
OF RAILWAY
IN GREEN CH.
CHASE

179

ETIEZJRBXTXB 05T000
ETIEZJ2BITYCA 05T000
FILL CALC= 6.7 % ALLOW= 40.0 % PERCENT FILL 061593

ENTER COMPONENT IDENTIFIER:

179

STATUS: AACR-DV

VENDOR: HBA

PAVO VERDE NUCLEAR GENERATING STATION

NONCONFORMANCE REPORT

RETENTION TIME 17 YRS.

1. UNIT		2. MO DAY YR	3. DRAWING PART NO	4. ITEM DESCRIPTION		5. ITEM LOCATION CONTROL BLDG		NO. E.J.1759		PAGE 1 OF 1	
1		1/19/82	13-E-ZJC-030	CABLE TRAY HANGERS		TRAY A-78 CABLE RISER SHAFTS		EJ. 76 FT TO 160 FT.			
5. QC CLASS		7. STARTUP SYSTEM NO.		8. SERIAL NO.		9. SUBCONTRACTOR/SUPPLIER/BECHTEL		10. P.O. OR SPEC NO.		11. ASME AUTHORIZED INSPECTION REQ'D.	
Q		1 ZJ-13		N/A		BECHTEL		WPP/QCI 101.0		☐ YES ☒ NO	
12. DESCRIPTION		13. INSPECTION/VALIDATION/REVIEW DATE		14. ASSUMED CAUSE OF DISCREPANCY		15. FIELD RECOMMENDED DISPOSITION		16. FIELD ENGR DECISION		17. FIELD RECOMMENDED DISPOSITION	
1 THE WELDS HAVE BEEN		3-22-82		CONSTRUCTION ERROR		☐ ENGINEER DISPOSITION REQ'D.				☐ ENGINEER CONCURRENCE REQ'D.	
COATED PRIOR TO QC WELDING		1-19-82								Interim Disposition: Welding Quality Control	
INSPECTORS' BUYOFF ON EE-580										IS REQUESTED TO SELECT 10% OF THE TRAY	
RACEWAY CARDS ON THE										HANGERS WHICH EXHIBIT THE CONDITIONS DESCRIBED	
FOLLOWING CABLE TRAYS:										WELDING QC SHALL: (1) DIRECT THE REMOVAL OF	
(58 TOTAL - LISTED ON										THE COATING ON THE WELDS OF THE SELECTED	
PAGE 2)										HANGERS, (2) INSPECT THE WELDS PER SPEC.	
										13-EM-302, SECTION 8, AND (3) REPORT FINDINGS TO	
										ELECTRICAL LDFE FOR FINAL DISPOSITION.	
										PFE C. G. 1/21/82 QA C. G. 2/1/82	
										NPE Break 1/21/82 [SEE PAGE 3 FOR FINAL DISPOSITION] M.A.	
13. REPORTED BY:		14. ACCEPTANCE OF REWORK/REPAIR		15. INSPECTION/VALIDATION/REVIEW DATE		16. REPORTABILITY EVALUATION:		17. REVIEWERS:		18. DISPOSITION CONCURRENCE	
JIM BRIGGS		NA 3-22-82		1-19-82		☒ NOT REPORTABLE		R/E H. F. 1/21/82		NUCLEAR GROUP	
☐ QC ENGR		☐ FIELD ENGR		AUTHOR. INSP		OR		J.A. 1/21/82		NUCLEAR GROUP SUPV	
				DATE		DER NO.		DATE 1/21/82		DATE 3/12/82	
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NONCONFORMANCE REPORT



NONCONFORMANCE REPORT

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[illegible]



IEZJRAATRBA		IEZJRB ^{JB} NTRAD	
	ATRHB		NTSAD
	ATRVA		NTSBB
	ATRVB		NTSBC
	ATSHB		NTSBD
	ATSVB		NTSCA
	ATSVB		NTSCC
	ATTBA		NTSVA
	ATXVA		NTSVB
	ATXVC		NTSVC
	ATYBA		NTSVD
	ATYVB		NTXAA
	ATYGA		NTXAD
↓	ATYHB		NTXBB
IEZJRB	BTRBA		NTXBC
	BTRBF		NTXCC
	BTRCB		NTXVA
	BTRCD		NTXVB
	BTRVE		NTXVC
	BTSBA		NTXVD
	BTSCB		NTYBD
	BTSCD	↓	NTYCA
	BTXCB	JB	NTX
	BTYBA		
	BTYCB		
	NTRAA		
	NTRAD		
	NTRBB		
	NTRBC		
	NTRBD		
	NTRCA		
	NTRCC		
	NTRVA		
	NTRVB		
	NT		
	NTRVV		

NCR# EJ 1759
INTRIM DISPOSITION
REPORT OF INSPECTION
3/5/82

TO ELECTRICAL L.D.F.E.

INSPECTION WAS MADE, AS REQUIRED,
OF THE SUBJECT HANGERS.

ALL WELDS CONFORMED TO THE REQUIREMENTS
OF BELHTEL SPECIFICATION AND APPLICABLE
CODE.

Ind Brown Q.C.E.



PALO VERDE NUCLEAR GENERATING STATION
UNITS 1, 2 & 3
PROCEDURE CHANGE NOTICE (PCN)
JOB NO. 10407

1. PAGE 1 OF 1 2. PCN NO. 83
3. ☒ WP/P ☒ QC INO. 5.0 REV 23
Nonconforming Materials, Parts
TITLE and Components

4. CHANGE REQUESTED BY: ☒ QA ☐ QC ☐ FE 5. INITIATED BY: M. Rosen

6. REASON FOR CHANGE: Requested by Client-QA to satisfy an NRC concern. ^{NRC WD-8-83}

7. DESCRIPTION OF CHANGE:

1. Section 6.0, renumber existing paragraph 6.6 to read 6.7.

2. Section 6.0, add new paragraph 6.6 to read as follows:

6.6 Rework and repair dispositions requiring removal and or disassembly shall provide adequate instructions for re-application (i.e. coating) and or re-installation of the items, as applicable.

RE-ASSEMBLY
8/9 9-15-83

8. APPROVED:

<u>M.A. Rosen</u> PQCE	<u>9/15/83</u> DATE	<u>Timothy Hart</u> PFE	<u>9/15/83</u> DATE
<u>J.E. Plummer</u> DAE	<u>9/15/83</u> DATE	<u>M. Rosen</u> CCQCE	<u>9/15/83</u> DATE
<u>At: [Signature]</u>	<u>9/15/83</u>	<u>[Signature]</u>	

FACSIMILE TRANSMITTAL
REQUEST

STREET

1450 MARIA LANE, SUITE 210

CITY

WALNUT CREEK

STATE

CA

DATE

9/29/83

RETURN ORIGINAL TO
SENDER

☒ YES

☐ NO

MESSAGE TO

NAME AND ORGANIZATION

JOHN BURDOIN

CITY

PALO VERDE

STATE

FACSIMILE PHONE NUMBER

VERIFICATION/DN PHONE NUMBER

AUTOMATIC

NUMBER OF PAGES (INCLUDING
TRANSMITTAL INSTRUCTIONS)

☒ YES

☐ NO

MESSAGE FROM

NAME

TELEPHONE NO.

FACSIMILE PHONE NUMBER

VERIFICATION TELEPHONE NUMBER

PHIL JOHNSON

HIGH-SPEED (UP TO 3 MIN.)

LOW-SPEED (20 MIN.)

463-3794

BUILDING

MAIL STOP

AUTOMATIC

AUTOMATIC

REGION V

☒ YES

☐ NO

RAPIDFAX

☒ YES

☐ NO

3 M

PRECEDENCE

☐ OVERNIGHT

☐ FOUR HOURS

☐ TWO HOURS

☐ ONE HOUR

☐ IMMEDIATE

SPECIAL INSTRUCTIONS

LER FOR KEWAUNEE ATTACHED.

CONTAINMENT
SENSING LINES

TIME/DATE (Stamp)

RECEIVED

TRANSMITTED

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

REPORT SOURCE 1 6 0 5 0 0 0 3 0 5 7 1 0 0 4 8 2 6 1 0 3 8 2 2 0
60 61 TICKET NUMBER 60 60 EVENT DATE 70 70 REPORT DATE 80

SYSTEM CODE CAUSE CODE CAUSE SUB CODE COMPONENT CODE COMP SUB CODE VALVE SUB CODE

S A (13) A (17) B (13) I N S T R U (14) E (16) Z (18)

8 12 16 20 24 28 32

(17) SER NO REPORT NUMBER [8] [2] [] SEQUENTIAL REPORT NO [0] [3] [0] [] OCCURRENCE CODE [0] [1] [] REPORT TYPE [T] [] REVERSE NO [0] []
 ACTION TAKEN [X] [] FUTURE ACTION [C] [] EFFECT ON PLANT [Z] [] SHUTDOWN METHOD [Z] [] HOURS [0] [0] [0] [0] ATTACHMENT SUBMITTED [N] [] OPENING POLYMER [N] [] PRIME COMP. SUPPLIES [R] [] COORDINATE SURVEILLANCE [2] [0] [8] [0]

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

[During the performance of local leak rate testing, vent isolating caps were inadvertently placed on the ends of the sensing lines. These sensing lines contained 1/8 inch Swage-Lok fittings similar to all other vents and drains normally required to be capped subsequent to leak rate testing. Caps were immediately removed. The local leak rate testing procedure will be upgraded and the penetrations capped to prevent future occurrences.]

FACILITY STATUS		POWER		OTHER STATUS		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION	
E	78	1	0	0	79	NA	A	38	Containment Entry at Operators Request
ACTIVITY CONTENT		CLEARED OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE			
Z	33	Z	34	NA	35	NA	36	37	
PERSONNEL EXPOSURES		PERSONNEL INJURIES		LOSS OF OR DAMAGE TO FACILITY					
NUMBER		NUMBER		TYPE		DESCRIPTION			
0	0	0	0	0	0	Z	39	NA	
TYPE		DESCRIPTION							
0	0	0	0	0	0	NA	41		
TYPE		DESCRIPTION							
0	0	0	0	0	0	NA	43		
TYPE		DESCRIPTION							
0	0	0	0	0	0	NA	45		
TYPE		DESCRIPTION							
0	0	0	0	0	0	NA	47		
TYPE		DESCRIPTION							

B210260263 B21018
 PDR ADCEK
 6

B210260263 B21018
PDR ADCCK 05-05-05

FACSIMILE TRANSMITTAL
REQUEST

STREET

1450 MARIA LANE, SUITE 210

CITY

WALNUT CREEK

STATE

CA

DATE

9/29/83

RETURN ORIGINAL TO
SENDER

☒ YES

☐ NO

MESSAGE TO

NAME AND ORGANIZATION

JOHN BURDOIN

CITY

STATE

PALO VERDE

FACSIMILE PHONE NUMBER

VERIFICATION PHONE NUMBER

AUTOMATIC

NUMBER OF PAGES (INCLUDING
TRANSMITTAL INSTRUCTIONS)

☒ YES

☐ NO

MESSAGE FROM

NAME

TELEPHONE NO.

FACSIMILE PHONE NUMBER

VERIFICATION TELEPHONE NUMBER

PHIL JOHNSON

HIGH-SPEED (UP TO 1 MIN)

LOW-SPEED (60 MIN)

463-3794

BUILDING

MAIL STOP

AUTOMATIC

AUTOMATIC

REGION V

☒ YES
☐ NO

RAPIDFAX

☒ YES
☐ NO

3 M

PRECEDENCE

OVERNIGHT

FOUR HOURS

TWO HOURS

ONE HOUR

IMMEDIATE

SPECIAL INSTRUCTIONS

LER FOR KEWAUNEE ATTACHED

[Signature]

TIME/DATE (Stamp)

RECEIVED

TRANSMITTED

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

REPORT NUMBER 16050003057100482811018229
00 01 LOCUST NUMBER 00 00 EVENT DATE 20 20 REPORT DATE 00

Sensing lines on all six containment pressure transmitters were found capped off inside containment. This rendered the transmitters inoperable and put the plant outside of L.C.O. T.S. 3.5.c in that the minimum channels required for hi-containment pressure safety injection actuation and hi-hi containment pressure for containment spray and steam line isolation were not available. Redundant instrumentation for safety injection and steam line isolation remained operable. There was no impact to public health or safety during the period the transmitters were inoperable.

SYSTEM CODE		CAUSE CODE		CAUSE SUB CODE		COMPONENT CODE				COMP SUB CODE		VALVE SUB CODE	
S	A	A		B		I	N	S	T	R	U	E	Z
11	12	13	14	15	16	17	18	19	20	21	22	23	24
EVENT YEAR				SEQUENTIAL REPORT NO		OCCURRENCE CODE		REPORT TYPE		INVERSION			
B	2			0	3	0		0	1	T		0	
25	26	27	28	29	30	31	32	33	34	35	36	37	38
ACTION FUTURE TAKEN		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		SPRING POLY SUB		PRIME COMP. SUPPLIER	
X	C	Z	Z			0	0	0	0	N	N	N	
39	40	41	42	43	44	45	46	47	48	49	50	51	52
CONV ON INT		MANUFACTURE											
2	0	8	0										
53	54	55	56	57		58		59		60		61	

During the performance of local leak rate testing, vent interline caps were inadvertently placed on the ends of the sensing lines. These sensing lines contained 1/2 inch Swagelok fittings similar to all other vents and drains normally required to be capped subsequent to leak rate testing. Caps were immediately removed. The local leak rate testing procedure will be upgraded and the penetrations capped to prevent future occurrences.

ACTIVITY STATUS	POWER	OTHER STATUS	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION
E 26	1 0 0 29	NA	A 31	Containment Entry at Operator's Request
ACTIVITY CONTENT	BASED ON RELEASE	AMOUNT OF ACTIVITY	LOCATION OF RELEASE	
2 32	2 34	NA	NA	
PERSONNEL EXPOSURES	NUMBER	TYPE	DESCRIPTION	
0 0 0 37	2 38	NA		
PERSONNEL INJURIES	NUMBER	DESCRIPTION		
0 0 0 40	NA			
LOSS OF OR DAMAGE TO FACILITY	TYPE	DESCRIPTION		
2 41	NA			

B210260263 B21018
 PDR ADECK
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