UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

-

-

BEFORE THE ATOMIC SAFETY AND LICENSING APPEAL BOARD

In the Matter of) PACIFIC GAS AND ELECTRIC COMPANY) Diablo Canyon Nuclear Plant Unit No. 1) Docket No. 50-275

AFFIDAVIT OF ALLEN D. JOHNSON

STATE OF CALIFORNIA) COUNTY OF CONTRA COSTA) SS

=

I, Allen D. Johnson, being duly sworn do depose and say:

- I am employed by the U.S. Nuclear Regulatory Commission in the Region V Office, as Enforcement Officer. A statement of my professional qualifications are attached hereto as Exhibit A and incorporated herein by reference.
- 2. I personally conducted inspections of the Diablo Canyon facility during the period of 1968 to mid 1972. During that period, I was assigned as the principle reactor inspector responsible for conducting the agency's inspection program at the Diablo Canyon construction project.
- 3. I have read the document entitled "Joint Intervenors' Motion to Reopen the Record on the Issue of Construction Quality Assurance," dated May 10, 1983, as well as the affidavit of Richard B. Hubbard entitled "Joint Intervenors' Motion to Reopen the Record," dated June 7, 1982, and "Supplemental Affidavit of Richard B. Hubbard Concerning Breakdowns in the Diablo Canyon Quality Assurance Program," dated March 29, 1983.
- 4. The purpose of this affidavit is to address the matter raised in the above noted Joint Intervenors' Motion and Mr. Hubbard's supplemental affidavit, insofar as they relate to the concerns expressed about QA/QC activities during the early periods of construction.
- 5. The actual construction of major civil structures commenced in the summer of 1969. At that time, Appendix B to 10 CFR Part 50 had been published for comment and was made effective later in July 1970.

During my inspection activities, I used the proposed and later the final criteria of 10 CFR Part 50, Appendix B as my standards to evaluate programs and procedures used by the licensee and its contractors for the construction of safety related structures, systems and components at Diablo Canyon. In general, I verified during the time when I was responsible for inspection activities at Diablo Canyon that safety related construction activities affecting quality were being performed in accordance with specifications, instructions, procedures, and drawings appropriate to the circumstances and that those documents included appropriate acceptance criteria to determine that

8603280067 860123 PDR FOIA DEVINE84-744 PDR -important activities had been satisfactorily accomplished and documented as required by 10 CFR 50, Appendix B. Attached hereto as Exhibit B and incorporated herein by reference is an inspection history and short summary of inspection findings that was compiled from the inspection reports issued during the period of March 23, 1968 through January 18, 1974. This summary covers the first five calendar years of construction activities at the project and provides AEC/NRC finding concerning over 75% of construction of the project. As indicated in Exhibit B attached hereto, a construction QA/QC program has been in existence since the start of construction at the project. The program essentially met the requirements of 10 CFR 50, Appendix B and covered the licensee, its vendors, and its construction contractors. For additional details concerning the evaluation of QA/QC for a site contractor (H. P. Foley Company), refer to Exhibit B of John D. Carlson's Affidavit. I have also examined the history of enforcement action taken against the licensee for noncompliance with AEC/NRC requirements from 1969 to date of this affidavit. Based on my examination of the items of noncompliance relating to construction QA/QC I have concluded:

- During the major construction period of 1969 thru and including 1980 the AEC/NRC issued notices of violations containing a total of thirty-three (33) items of noncompliance related to construction QA/QC. During the period of January 1, 1981 to date an additional nine (9) items of noncompliance relating to construction QA/QC were identified in Notices of Violations issued to the licensee. All of the foregoing items were handled by routine notices of violations.
- None of the items of noncompliance, or groups of items during a particular period of time, represented a condition that constituted a major breakdown of the construction QA/QC programs of the licensee and its contractors.

I attest that the foregoing affidavit is true and correct to the best of my knowledge and belief.

Johnson

Subscribed and sworn to before me this 27 day of May, 1983

Carol manald Notary Public

My Commission expires: 5 -01-94



-

-

50-275 DIABLO CANYON 1, INSPECTION HISTORY

A Short Summary of Inspection Findings

Report	Date		Item Description	=
68-01	-3/23/68		ial meeting with PG&E discussing the role of the sion of Compliance	1.1
69-01	3/3/69	1)	Project Administration	
			 a) List PG&E's organization concerned with construction b) List of vendors 	
		2)	Status of Construction, site preparation	
		3)	Quality Assurance - Quality Control (QA-QC)	
			 a) QA-QC program to be formulated prior to 5/1/69. Tentative meeting to review PG&E's program in first part of May. b) Quality Assurance Organization Chart 	
69-02	3/21/69	1)	Status of Construction	
		2)	Containment Construction Schedule	
		3)	Meteorological Data, six on-site meteorological data collection system	
69-03	4/14/69	1)	Evaluation of ESCO's QA-QC program relative to primary coolant systems	
69-04	5/13/69	1)	QA-QC	
			 a) No formalized QA-QC program per se. Function being fulfilled by Eng. Department but explained in report. b) More formalized program is currently being prepared. 	
			 Planned program currently is undergoing an upgrading process so that it will conform to the Commission's proposed amendment to Part 50, providing guidance for an adequate program. 	
	영감으로	2)	Changes to Containment Design	*



-

Ξ



Report	Date

-

20

4/3/70

76-01

Item Description

Nonconformance item, PSAR required test of liner plate material to be normalized, but plate material to be normalized, but plate material was not normalized, and ASTN allows use of not normalized.

- 1) Overall construction 4.5% complete
- QA program as it relates to construction activities appeared to be comprehensive and effective in detecting construction variations from prescribed requirements.
 - a) System of documenting corrective action was found to lack ready retrieving capability.
 - b) No system to assure audits of activities are performed on a timely basis.
 - c) Both a. & b. were remedied
- 3) Reinforcing Steel Quality
- Validity of Physical Test Results Containment Building Liner
- 5) Weld Rod Control
- 6) Cadweld Operator Re-Qualification
- Documentation of Followup Action on QA Audit Deficiencies
- 8) Scheduling of Periodic QA Audits
- 9) Atkinson QA-QC Program reviewed
- 10) Containment Building Liner Material
- Item of Nonconformance Thickness of the reinforcement on several containment building liner plate welds was observed to be greater than that permitted.
- 2) Status of Previously Reported
 - a) Containment Building Liner Material Certification
 - b) Weld Rod Control
- 3) Construction Status 13.7%
- 4) Verification of Quality Control Information on Certification Documents

70-02

7/16/70



- 3-

EXHIBIT B

9	Report	Date		Item Description	
,	69-05	5/12/69	1)	Cameron Iron Works, review of QC records	
		Ę	2)	Southwest Fabricating and Welding Company	=
		Έr.		a) Reviewed QA program b) Weld records c) Other related records	Pi
	69-06	7/11/69	1)	Contract for construction of major civil structures awarded to Guy F. Atkinson Company.	
			2)	Batch Plant constructed	
			3)	Manufacture and Transportation	
			4)	Quality Assurance program has been formulated and currently implemented.	
				 Training 12 employees to be assigned responsibility for concrete inspection, completed a one week training 	
			5)	Site Evaluation, R. H. Johns, Geologist Consultant examined "as found" geological conditions.	
			6)	Tour of Meteorological Data Collecting Stations	
			7)	Breakwater, plans for installing	
	69-07	10/10/69	1)	Concrete	
				 a) Implementation of QA b) Review of Quality Control System c) Inspector Qualifications, review of requirements 	
				 i.) Job experience ii.) Certify suitability for responsibilities iii.) Requirements for selecting inspectors 	
			2)	Reinforcing Steel	
				a) QC procedures reviewed	
			3)	Containment Building Steel Liner	•
				a) Review of field quality control procedures	



C

Shou.

B

- 2 -

142.1

=

-



Report	Dat
70-03	=7/1
70-04	- 10/

e

6/70

16/70

Item Description

5) Discrepancy Control

- Operations, preparation for operation activities and startup
- 1) Construction status 15% complete
- 2) Resolutions of:
 - a) Inadequacy of Radiographic Ex. of Containment Welds
 - b) Indentation Stamping of Class 1 Piping
 - c) Protection of Stainless Steel from Salt Air
 - d) Effect of Structural Steel Channels on Operation of Containment Spray
 - e) Placement of Special Concrete in Area Between Wide Beam Flanges and Containment Liner
 - f) Verification of Quality Control Information on Certification Documents
- 3) QA Construction Deviation Reports disposition of identified discrepancies in construction activities have been processed in accordance with QA procedures
- Steam Generator Supports QA-QC Program reviewed for Murphy-Pacific.
- 1) Construction status 18.7%
- 2) Resolution of Previous Issues
 - a) Indentation Stamping of Class I Piping
 - b) Placement of Special Concrete in Area Between Wide Beam Flanges
 - c) Verification of Quality Control Information on Certification Documents
 - d) Adequacy of Dye Fenetrant Tests
- 3) Construction Discrepancies
 - a) Deviation reports were being processed in accordance with QA discrepancy procedure.
 - b) Reviewed the minor variation log.
- 4) Steam Generator Supports
- 5) Steam Generators

- 4 -

6) Reactor Vessel

70-05

12/29/70

-

-



Report Date

=

7- -

Item Description

7) QA Audit Program reviewed.

- a) Reading of recent audit reports
- b) QC inspections
- c) Transporting, handling and storage of steam generators and reactor vessel.
- Receival and storage of electrical equipment
- e) Installation of auxiliary salt water piping
- Mechanical equipment inspection, storage and placement.
- g) Fabrication of liquid holdup tanks.
- h) Containment structure

71-1 5/6/71

- 1) Construction Status 21.1%
- 2) Resolution of Previous Issues
 - a) Indentation Stamping of Primary Coolant Piping
 - b) Verification of Quality Control
 - Information on Certification Documents c) Concrete Sampling
- Review of deviation and minor variation reports, proper progress.
- 4) Reactor vessel transportation
- 5) Instrumentation and Electrical
 - a) Implementation of QA Program, developed to meet the criteria of App. B to 10 CFR Part 50.
 - b) Review of QC System
 - i.) Required QC actions are described by procedures contained in H.P. Foley's QA Manual and the PG&E's "Electrical and Instrumentation Instruction Book for QA."
- 1) Status of Construction 23.3% complete
- 2) Review of Procedures and Records
 - a) Control Rod Drive Mechanisms
 - b) Steam Generators
 - c) Pressurizer
 - d) Safety Injection Pumps
 - e) Reactor Coolant Pumps

71-02 7/22/71

- 5 -

EXHIBIT B

F	Report	Date		Item Description	
			3)	Review of QC System for Other Class I Components	6
	71-03	=11/10/71	1)	Construction Status 27% complete	=
		7-	2)	Records and procedures review	-
				 a) QC program review relating to reactor vessel b) M. W. Kellogg Company's QA-QC for Class I piping c) Westinghouse design control procedures d) Records relating to surveillance of reactor vessel internals e) PDM logbook f) G. F. Atkinson logbooks g) List of logbooks maintained h) PG&E's Instructions for completing daily logs i) PG&E's request to all contractors to provide procedures in their QA programs for control of all logs, personal diaries and similar records which may reflect quality of contract work performance j) Schedule for steam generator work 	-
)	72-01	2/7/72	1)	Status of Construction 31.7% complete	
			2)	Ironworker attempted to cover up defects in cadweld splices in the Unit No. 1 containment building.	
	72-02	5/12/72	Reso	lution of following items:	
			1)	Polar Crane repair	
			2)	Auxiliary Salt Water Piping, radiography deficiencies	
			3)	QA Program Manual reviewed and updated to reflect corporate management organization. Other changes noted were found to be consistent with the AEC criteria in 10 CFR 50, App. B (changed manual was awaiting final typing).	
		:	4)	Cadweld Splicing Program changed to provide additional assurance of proper production and inspection	
	72-03	8/24/72	1)	Status of Construction 50%	
			2)	Inspected QA Manual covering installation of wire and cable by H. P. Foley.	

の行為

C

±.

Report Date

7.

2/23/73

Item Description

- Inspected weld procedure and welding operator qualification records.
- 4) Written procedures or other instructions had not been established to control the segregation of hand tools. Enforcement Action
- 5) Different identification numbers on four wide flange beams, steam generator. Enforcement Action

73-01

 Enforcement, rejected electrical cables were not being segregated and controlled in accordance with procedures.

- Minor electrical fire in warehouse, damage to 4 circuit breakers.
- 3) Construction Status 62.5%
- 4) Minor variation reports and logs for civil, mechanical and electrical departments were reviewed, including PG&E audit reports of same. Review indicated that PG&E has implemented adequate controls and disposition of nonconforming items.
- Review of audit reports indicated effective coverage of contractors and PG&E activities.
- Environmental Radiological Monitoring Program reviewed.
- Procedure review of raising the reactor vessel procedure

1) Enforcement.

- a) Stainless steel welds which did not conform to licensee's specification were
 not dispositioned in accordance with QA program requirements.
- b) Discrepant stainless steel pipe spools
 were not identified as such.
- 2) Construction status 70% complete
- Initiation of wall thickness measurements for Class I valves.

73-02 3/4/73

73-03 6/8/73

=

-

1	Report	Date	*	Item Description
		Ę	4)	Reviewed features of primary coolant piping installation
	73-04	9/17/73	1)	Construction Status 71.5% complete
			2)	QA Program, Foley
				 a) Detailed inspection records or checklists were not being maintained to verify conformance to requirements related to:
				 cleaning of conduits use of approved pulling compounds adherence to maximum pulling tensions for wire & cable
				 b) Cable Tray Support Structures, discrepancies in main cable spreading room.
				c) Electrical wiring withing control panels.
			3)	Reactor Coolant System Fabrication, Erection and Welding.
			4)	Other Class 1 Piping Systems
	73-05	10/25/73	1)	Report concerned with deficiencies pertaining to the Wismer & Becker Contracting Engineers welding of the reactor coolant piping.
	73-06	11/8/73	1)	Construction Status 72.9% complete
			2)	Preoperational Test Program Review
			3)	Reactor Coolant System Piping
	73-07	1/18/74	1)	Construction Status 76.9% complete
			2)	Preoperational Test Program
			3)	ECCS tests
			4)	Reactor Coolant System Hydrostatic Test
		÷	5)	Pressurizer Relief Tank Test
			6)	Testallaria C. D

SPECIFICATION OF THE PARTY OF T

6) Installation of Electrical & Instrumentation S^{***} tems

- 8 -

20

Prousapplicable tall 100.002 pgr 501.001 OCTO LA " Fur 19Kgd forn 1911 2957 AUST N 45.2.6 Roguiromed Net grap shy 3/83 A 7. ESAN ISNY CCP-LA RUARI Nule: BCP-6 w 12 nansyac Audit 27043 2/83 -18/21 Documentation Beality Porumal 1 A. A 44.1 10801 8/12 000-6 Kar4 . Induc, Trny a cart J Gun Presonnel Base on Educ OM Responsible t Pursonnul cut Thig + Exp HPF Troining / Pac for desity Parsonnel 18/ 1 Documentition Qual Bring 1 by Group (wet in individuals soldar) cortify Que 1 K to MUST 45.1 6 REE Commits CPM Rasonsible 5 18/2 + 18/1 Full rower C'parating 110 2110 211 Un. + # 1 ... Training Section Inder, Ting it time Pras SI Ucr-LK3 Parsunal > 0P-542-67 1 600-1 0 08/1 Pagainet by Mis providence CAR Bengessur Qn Responsible Poul Engry a QC Dept Por. of Qual Par Indoe, Thn Exam (when 4 Resume + Privda +RU.SW driving (> d) Type of Conduct Training by Group (and in b) Initial Training for Pred 1- 3513 Summery (ndwins, solar) :02 On Provide OCP-6R2 Qc Dipt Dec 62/18 \$179 Qcp-6 21 > Conducts Tring Goc Dept Personal Oth Rospons bild G To fort your for Quel Activitus ty Enuplant Trag Eastins for porservel an bryapan Trop & Duc dayarop www in individuels QC Dept 3/75 Doc Folda)

Pg/ 7 Buddon Alley 57 · Porsonnal Training Brogtom OCP-6 (R1) PA-13 1 6/12/75 HPF Audit indicates -har US Try program was developed & implemented for indoe " Training of Guality & Preduction No findings personnel to make personnal eugnizant I Quality Requirement in work Assignments 6) Tring sessions have been documented + we being maintained. PA-48 7/76 HPF Procedure for Training of Personnel" QCP-6 (R1) Audit indicates that (1) Training sessions have been documented + are being moin toined No findings (2) Outside Training Jource and being at hand (3) Tray program for index a trag of quality + Prod Personnal To make personnal cognizant of Qual Requirement or Work Assignment (4) Requirements for Quelity Dept personnel trong our being odhered to

Pg 2083

<u>PA-72</u> 12/77 HPF Training of Personnal OCP. 6 RI Audit indicate that

Finding)) BC trag logs ware not being his intained firm

Answered - QC Sposes have conducted individual & group training sessions with their personnel since 1-77 and that Quality Engineering will assure that trag sessions and ducumented in the factory

PA-124 1/83 HPF Organization of Rucht, Personnel OAM Sec 1

Audit shows that

Q A Menue

D A survey of octive Quality Porsonnel file to determine order of responsibility of Trainers / indoctrinators. 29 Packets A. Sited 12 hod indoc forms added during torrat period Trong coordinators and full time members of QK Dept + au responsible to QA menoger

Pg 3 ay 3

10/83 HPF Indoc + Tring Cart PA-137 OLP-6 Rens, QCP-6A R audit indicated (D7 Welder lacked Quality in Joe formes in their documental (2) OC contitation i.D. W OCP-6A (3) OM Tridoc + Trag Program for po personnel under Their jurisdiction C. T. W OCP-6 R5 + 15 55+ (4) Indoc of newly hired Qual Personnel to being conducted + doc. (5) Inspite personnal Lecurds and tad Wars L'. R.W OLP-64

'76-292 (Rev 12/78)

and the second of the second second

.. *

ACTIVITY AUDIT

O.L. A.B.

Allen 57

Pacific G.s and Electric Company Quality Assurance Department

Audit No. 1 91714

N	Title/S	Subject:	QCP.6	QC	Training	(HPFoley)	·
	Audited Fecilit	Organization/ ty:	Station Construction - Electrical Diable Chayon				
0 0 0 0 5 - 2	1.0 <u>s</u> I Q X Z	this pupit Quality Con ive vectivit equived by the followin	WPS CO Loc AND ng Indo OCP-6 (g element	Prod Prod clring b (e.i) · T	id to ver uctions p ion and raining cr reviewed	Personnel For	\$
	<u>\</u>	1. Classes personn 2. Training	ec (P4)	2.2) Im FOR	OL Person	HPF/QI.	(1)
		n general	the HPFOI with our devine opeans to	-6 Roui	OUTSE OF	und is in under is in under Revision the and the and it	ed CZa
		no open i	tems issue	vod.			
	-	See " Conch					
				(over)			

76-292 (Rev 12/78) S 4.0 Details of Audit N Powered training records for 1927, 1928 \$ 1925 N and verified that Reduction and OC Personnel 1 are receiving training - And is being downerled 2 0 Pension 2 (issued 5.17,79) Added the rollowing 0 requirements: 0 1. Scheduled weekly training meetings 0 2. Indoulaination of new hirs personnel. A schedule of weekly training meetings was being formulated at the time or the Aunit. New hires are being indoctrinated as Required. Records inducate that new hires have been Indoclainaled even prisor to the issue of Ruz. 5.0 References Procedure QKP.6 (BUI, Ruz) "Training of Assanol, 6.0 Signature(s) Date(s) muhares alunis/ ME Legele 5/21/29 - le taymand 2-31-

PACIFIC GAS AND ELECTRIC COMPANY QUALITY ASSURANCE DEPARTMENT

AUDIT PLAN

Audie No .: 91714 Activity to be Audited: OCP-6 OC Training (Foley) 4 20 Organizations to be Notified: Station Construction - Flect. 2 2 1 scope of Audit: Verify that production AND Quality 2 Control personnel and receiving training ____ 0 in Accordance with OCP-6" Training of Personnel" 0 0 0 Document . Researched: 1. OCP-6 (R-1) " Training OF Personnel" 2. 3._____ 4. 5._____ 6. Tentative Audit Points: 1. Classes on procedures isums to production (P4.22) 2. Training Pressons FOR QC Personnel (4.3.1) 3. Training Documented on form HPF/QI.T 4. 5. 6. 7. 8.

AUDIT PLAN

4._____

5. .

6.

Documents to be Reviewed During	AUGICI
1. Same no those	resarched.
2. Form HPF/QI.T "	Quality Indoctrination and

的问题。如果这些问题,我们就是我们的,你们就是你们的。" 第二章

and the second s

3. Training Meeting"

Supplementary Information (optional):

20 S ~ 71 1 2 0 3

0 0

TENTATIVE SCHEDULE:

Notification: by min	Audit Performance: 5:14:25
Post Audit Conference	Report to Management:
Procedure or Check List Required for T	This Audit: YES NO
PREPARED BY : Thubart & Deligans Audit Team Beader	(
Audit Team Members:	

cc: Audit Team

ACTIVITY AUDIT

1231.1

veneofor Allens7

11

the state

3 4 3

153-

0 0

1 1

Pacific Gas and Electric Company Quality Assurance Department

1	H.F. FOLLY TAL	INING . INSPECTOR	QUALIFICY
and the organization	STATION CONSTR	UCTION - H.P. FOLE	Υ
• • • • •	DIABLO CANYON	POWER PLANT	
uditor(s): <u>MS_DOB</u> F	ZENSKY	Date(s) Performed:	2/17/81 - 1
		verify that proce	
		s of inspection.	
.0 Persons Contacte	<u>a</u> .		
D. Rockwell	PGandE	V. Tennyso	E.L.
- P. ROCKYCII			
S. Foat	PGandE	J. Thompso	n H.F.
S. Foat	PGandE persons attending t		n H.F.
S. Foat			n H.F.
S. Foat * Denotes those .0 <u>Conclusions</u> 1. The H.P. Fo	persons attending t	ementing their tr	aining plots
S. Foat • Denotes those • Denotes those	persons attending t pley Co. is impl being revised at	ementing their tr	aining prove
S. Foat * Denotes those 1.0 <u>Conclusions</u> 1. The H.P. Fo <u>OCP-6 was</u> ate finding	persons attending t pley Co. is impl being revised at gs of an earlier	ementing their tr the time of this audit (QA 00507)	aining picos audit to i:
S. Foat * Denotes those * Denotes those 1. The H.P. Proposed OCP-6 was 1 ate finding 2. "Certification	persons attending t oley Co. is impl being revised at as of an earlier tion of Qualific	ementing their tr the time of this audit (QA 00507) ation" forms were	aining Eigus audit to 1; on file_for
S. Foat • Denotes those • Denotes those 1. The H.P. Proposed OCP-6 was 1 ate finding 2. "Certifications inspectors	persons attending t oley Co. is impl being revised at as of an earlier tion of Qualific	ementing their tr the time of this audit (OA 00507) ation" forms were the areas qualif	aining Eigus audit to 1; on file_for

(over)

. s of Elevents Audited Line is it. "Distity Assurance Program" ______ Itaining his not been effactively implemented in the part the is being improved through new revisions to their training procedure. -3 Deteile of Andit Reviewed forms HPF/QI & T. "Quality Indoctrination and -Training Meeting" for 1980, All of the inspectors had 1 attended at least one of the training sessions and signe the attendance sheet, 2 -C 5.0 Leferences QCP-6 Rev. 3, "Training of Personnel" Date(s) 7.0 Signature(s) Turkard & Dobgensy 22681 " T Twiddy 2-26-21 2-27-21 14. 2 . . .

and the spirit states

	Service Se
-	ANTICAL A HILA'S NOT AND ALECTRIC COMPANY
	TENT SATA DEVALITY ASSURANCE DEPAR INENT
1.00	ESL *** C. MARK
84 j.	1.
	Audit No.: 11412
ct i vi	ty to be Audited: E.P. POLEY TRAINING & INSPECTOR CENTIFIC
rgani	Estions to be Notified: STATION CONSTRUCTION
-	DIABLO CANYON POWER PLANT
cope	of Audit: Verify that OCP-6. "Training of Personnel" is
	implemented and inspectors are qualified in their areas
_	of inspection.
ocume:	nts Researched.
1.	H.P. Foley QA Manual Procedures:
	H.P. Foley QA Manual Procedures: QAP-2, "Quality Assurance Program"
2.	QAP-2, "Quality Assurance Program"
2. 3.	QAP-2, "Quality Assurance Program" QAP-10, Inspection"
2. 3. 4.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 6 OIR 031-80
2. 3. 4. 5.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 & OIR 031-80
2. 3. 4. 5.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 6 OIR 031-80
2. 3. 4. 5. 6.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 & OIR 031-80 ive Audit Points:
2. 3. 4. 5. 6.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 & OIR 031-80
2. 3. 4. 5. 6.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 & OIR 031-80 ive Audit Points:
2. 3. 4. 5. 6. 1. 2.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 & OIR 031-80 ive Audit Points: Is there a tentative schedmae.
2. 3. 4. 5. 6. 1. 2. 3.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 & OIR 031-80 ive Audit Points: Is there a tentative schedule. Are training sessions documented on form HPF/QI & T. How are newly hired personnel 'advised' of Quality required Are inspector qualifications documented
2. 3. 4. 5. 6. 1. 2. 3. 4.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 & OIR 031-80 ive Audit Points: Is there a tentative schedmae. Are training sessions documented on form HPF/QI & T. How are newly hired personnel 'advised' of Quality requ Are inspector qualifications documented.
2. 3. 4. 5. 6. 1. 2. 3. 4. 5.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 & OIR 031-80 ive Audit Points: Is there a tentative schedmae. Are training sessions documented on form HDF/QI & T. How are newly hired personnel 'advised' of Quality requ Are inspector qualifications documented.
2. 3. 4. 5. 6. 1. 2. 3. 4. 5. 6.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 & OIR 031-80 ive Audit Points: Is there a tentative schedmae. Are training sessions documented on form HPF/QI & T. How are newly hired personnel 'advised' of Quality requ Are inspector qualifications documented.
2. 3. 4. 5. 6. 1. 2. 3. 4. 5. 6. 7.	QAP-2, "Quality Assurance Program" QAP-10, Inspection" Audit 00507 & OIR 031-80 ive Audit Points: Is there a tentative schedmae. Are training sessions documented on form HDF/QI & T. How are newly hired personnel 'advised' of Quality requ Are inspector qualifications documented.

\$

0 0

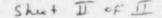
0

	a company with the state of the
•	article of the state the attained to be the to be and
:	ex state in a
	CALL AND AND A STATE
	Con' FEE 2 7 105
	and and an
	becaments to be veviewed During Audit: FLE
	i. Ease as those researched.
	2. Form HPF/Q1 1 T, "Quality Indoctrination & Training Mustu.
	3
15	
*	
	ь.
T	
e •	Supplementary Information (optional):
*	
-	
-	
0	
	*
	TENTATIVE SCHEDULE:
	Notification: MSD Audit Performance: 2/17/81
	이 이 이 것 같아요. 이 가지 않는 것 같은 것 같아요. 이 가지 않는 것 같아요. 이 가
	Post Audit Conference: Report to Management:
	Procedure or Checklist Required for This Audit: YES NO
	PREFARED BY: MS DOBRZENSKY WSO. 2/17/81
	Audit Team Leader Date
	Audit Team Members:
	AUGUL Team
S. Sida	

Rectandian Bertan Louis Land Land

14

er. 1/83	OPEN ITEM RE	FORT	Fill sne	Brad Into fo Anen 5
IDENTIFICATION: NUMBER	R 8 3 - 0 2 Year Sequence		AUDIT NO. 83	3 0 4 3 A
INS	TRUCTIONS FOR COMPLETI	NG ON BACK OF	THIS FORM	
Reverance Requirement(s) ANSI N45.2.6) - 1978	Project or Plant(s) Diablo Car	nyon Power Plar	nt
Activity Inspector Qualific	CAREFORD THE REAL PROPERTY OF THE PARTY OF	Responsiole Cent	rtment	Audit Point)
This OIR provides follow-	and a local division of the second division of the second division of the second division of the second division of the	hat could not	be answered be	efore the
P conculsion of the audit.		which we down the intervent of the state of the state	Contraction of the local division of the loc	and the second se
C their home office to show	the objective evidenc	e used as the	basis for qual	lifying five o
B L their ANSI Qualified Insp E Suggetted Resolution (cotional)	ectors. The five insp	ectors are a s	ample chosen d	during the aud
Postiated and and the ACOV	Supervisory	ANT	2.57	Date /1.F/
TO BE COMPLETED BY BE	SPONSIBLE DEPARTMENT	UTHIN 15 WOR	KING DAYS OF I	1 - 1131
For Quality Assurance Department	t use only:			
		COPY		
R Action Taken	t use only:	V COPY	Schieduled Corrective A	Action Date
Action Taken	t use only: By FORMATION Date	√ C OPY	Scheduled Corrective A	Action Date
Astronomed to	ETURN TO QUALITY ASSUR		Scheduled Corrective A	Action Data
Assigned to Results of Investigation/Comments	ETURN TO QUALITY ASSUR		Scheduled Corrective A 3-1-13 NENT	- 2/15/
Assigned to Assigned to Assigned to Assigned to Approved by RE Assigned to Results of investigation/Comments Cataract supplied 'Invest	TURN TO QUALITY ASSUR	ANCE DEPARTM	Scheduled Corrective A 3-1-13 VENT	- 1.5/
Assigned to Assigned to Assigned to Action Taken Action Taken Actio	TURN TO QUALITY ASSUR	ANCE DEPARTM	Scheduled Corrective A 3-1-13 VENT Cate Investiga e basis of quai	- 1.5/ ation) for the
Assigned to Assigned to Assigned to Assigned to Asproved by Results of investigation/Comments Cataract supplied 'Invest five individuals; these i validity of the informati	TURN TO QUALITY ASSUR	ANCE DEPARTM	Scheduled Corrective A 3-1-13 VENT Cate Investiga e basis of quai	- 1.5/
Assigned to Assigned to Action Taken Action Taken Acti	TURN TO QUALITY ASSUR	ANCE DEPARTM	Scheduled Corrective A 3-1-13 VENT Cate Investiga e basis of quai	tion) for the lification and
Action Taken Assigned to Action Taken Action Action Action Action Action Action Action Action Action Action Action Action Ac	TURN TO QUALITY ASSUR igation Reports' (condu- investigations adequate on. See Audit No. 831:	ANCE DEPARTM	Schieduled Corrective A 3-1-13 NENT Cate Investiga e basis of quai letails.	Date 1 Jack Date 3 Jack 3 Jack Date 3 Jack 2 Jack Date 3 Jack Date Date 3 Jack Date 3



March 17, 1983

14

H. P. Foley Company Diablo Canyon Nuclear Power Plant P. O. Box 327 Avila Beach, CA 93424

Attention: Jim Thompson QA Manager

Subject: Tri-State Reports Enclosed With Our Letter of 03/11/83

Dear Jim:

P

Please consider this as confirming our telephone conversation of 03/15/83.

All information, except "Dates Given", on the Tri-State Investigation report is actual/confirmed information supplied by the employer or educational institution.

Furthermore, unless the information is denoted with "verbal", we maintain written back-up documentation for all information on the report.

Should you have any questions, please feel free to call me.

Sincerely,

CATARACT ENGINEERING & CONSTRUCTION .

Roger G. Cates Project Manager

RGC:aw

134

cc: A. E. Moses, H. P. Foley Company/Avila Beach, CA R. J. Messere, Cataract/Newtown, PA

CORRECTIVE ACTION REQUEST CAL 1 No. 004 ISSUED TO: Howard P. Foley Company ISSUED BY: J. Rothstein, OA Supervisor H.P. Foley Q.A. Personnel Title 01-11-84 Rick Wilson Date Initialed Responsible Production Management & Discipline 02-11-84 Date Response Due REQUIREMENT: (State Document, Section and Paragraph and Requirement Violated) . OP-5422-6 REV. 0, Paragraph 5.6 ... "Certification form, HPF/QC (Exhibit B) shall be used to document the type of certification for each individual." OCP-6 REV. 4. Paragraph 4,2.5.2 "Personnel certifications shall be documented ... " DEL TO ENCY: (State Deficiency, Items Involved, etc.) Contrary to the above requirement, inspection personnel were not issued written certifications prior to performing inspection activities. RECOMMENDED CORRECTIVE ACTION: Review and evaluate personnel to determine if they were certifiable under the procedure in effect at the time. 2 RWJ______ Representatives Acknowledgement for Issuance 1/11/33 MANAGEMENT RESPONSE: (State cause of deficiency and Corrective Action) Review of personnel records indicated that during this time frame of the newly imposed procedure requirements for written certifications, the written certifications apparently lagged behind the actual time of qualification, (CONTINUED ON PAGE 2) 2 ruit Date Corrective Action to be Completed NA Approved) Not Approved Representative Responding Review IMPLEMENTATION OF CORRECTIVE ACTION Satisfactory Unsatisfactory INFORM COMMENTS: HPF/CAR

	THE HOWARD P. FOLEY COMPANY	A MANAGE A CALMAN A MANA
ORIGIN	CORRECTIVE ACTION REQUEST CONTINUATION SHEET	NO.
Mdm. 10. margin constants	DEFICIENCY RECOMMENDED CORRECTIVE ACTION MANAGEMENT RESPONSE IMPLEMENTATION OF CORRECTIVE ACTION	PAGE 2 OF 2 DATE

MANAGEMENT RESPONSE: (CONTINUED FROM PAGE 1)

and in some cases were never issued, however the ultimate responsibility for keeping personnel informed of Quality Requirements rested with the supervision directly responsible for the individual. Personnel newly hired were advised of all the Quality Requirements pertinent to their intended area of activity prior to their beginning work. Also, re-evaluation of personnel records revealed that the personnel were certifiable in accordance with the procedures in effect at that time prior to performing inspection activities.

No Corrective Action is required. Current procedures are being strictly adhered to and documentation is in order.

INFORMATION ONLY

ATTACHMENT TO HPF/CAR-004

INSPECTOR QUALIFICATIONS

Page 2

.

Inspector	Dates of Employment	Education	Experience	Certifications Issued/Date
J. Nighswanger	4-1-81 to 1-22-82	Nigh School	5-73 - 12-79 Inspector, Continental Can	Civil No Level 6-2-81 Elect. No Level 11-6-81
S. Ryan	9-3-78 to present	High School AAS, Welding Tech.	9-78 - 5-80 Q.C.Inspector, H.P.F. 5-80 - Present Mechanical Inspector, H.P.F.	PT Level I 5-21-81 PT Level II 11-3-81 Civil No Level 4-20-81 Mech. No Level 4-21-81
R. Simas	4-6-81 to 9-20-82	High School AAS, Welding Tech.	6-75 - 8-75 Welder, Caetana Co. 4-77 - 9-79 Machinery maintenance, United Lumber Co.	Mech. No Level
G. Stephen	8-3-78 to 7-11-80	High School	2-77 - 7-77 Q.C. Inspector, Chemtrol Corp. 10-77 - 7-78 Q.C. Inspector, Tech-Sil Corp.	MO MOne VMU Mane VMU ADdech. 7-6-81
A. Twiddy	4-28-81 to 9-7-83	High School	6-80 - 11-80 Maintenance Asst. Crstwood Manor 1-79 - 5-79 Laborer, Ross Co. 6-78 - 9-78 Painter, PG&E	ech. 7-6-81 ivil 7-20-81 Mech.Weld 7-7-82
O. Vogt	7-17-77 to 8-11-80	High School	1-75 - 10-76 Q.C. Inspector, S&Q 3-74 - 10-74 Q.C. Inspector, PDM 10-68-12-73 Q.C. Director, San Bernadino Materials Co. 7-65 - 10-68 Quality Eng., Aero Jet Co. 1958-1965 Q.C. Inspector, Aero Jet Co.	PT Level II 4-17-78

ATTACHMNET TO HPF/CAR-004

INSPECTOR QUAL

		1	_	-						
τ.	т	F	т	CA	T	т	ON	C		
14	а.	κ.	x	un	*	£	ON	3		

Inspector	Dates of Employment	Education	Experience	Certifications Issued/Date
R. Boase	11-27-78 to 10-8-80	High School	1939-1972 Aircraft Technician & Testing - Assume 10% of time spent for testing & examination. 33=3.3 years related experience	None
R. Churchman	5-12-80 to 8-23-82	High School	1975-1979 Residential remodeler plumbing and electrical.	Mechanical - No Level 4-20-81 Civil - No evel 4-21-81
L. Clover	9-30-76 to 8-15-77 2-20-78 to 9-6-79	High School B.S. Degree	8-76 - 2-78 Field Clerk, HPF 2-78 - 7-79 Q.C. Inspector, HPF	RMATION W
H. Easton	9-24-80 to 5-28-81	High School B.S. Degree	 8-78 - 10-79 Asst. Field Eng., L.K. Comstock 8-76 - 8-78 Laborer, Howard Elect.Co. 6-75 - 12-75 Eng. Clerk, NPS Const. Co. 	Mecho Level 4-20-81 Elee No Level 4-21-81
K. Moses	2-4-80 to 5-6-80	High School	N/A	Performed no independent inspection (Traince)

. .

Page 1

anality Assurance 76.675 a	OPEN ITEM REPORT	Sheet 1 of
Rev. 1/83		Sheet of
I IDENTIFICATION: NUMBE	ER 8 3 - 1 2 8 Year Sequence	AUDIT NO. 832911
INS	TRUCTIONS FOR COMPLETING ON BACK O	F THIS FORM
Reference Requirement(s) H.P.Foley Proc.	17 C ANGT N/C D D Project or Plant	(1)
Activity Maintenance of QA Re Description of Problem	cords - Crit. VI & XVII H. P. F	oley
	ork request packages are stored	
R duplicate storage for	these records is available. Fi	re resistant cabinets are
B provided for storage of	of a large number of these packa	ges; however, many records
L are stored in pasteboa	and boxes temporarily until addi	
E IDUARENED MERCINTION	stant cabinets for storage of t	the second se
		ne arrected records promptr
H. R. Booth	Approval R.T.T	- 11 0010/0/
the second s	SPONSIBLE DEPARTMENT WITHIN 15 W	DEVING DAYSOF ITEME DATE
Problem Report Number	MVA E - 2677	CARING DATS OF THEM S DATE
Problem has been resolved as descr	and the second	
Issued to Track Supplier Audit Fin	ding Reports.	
For Quality Assurance Department	use colu-	
the second	Use Unity.	
Assigned to		
Assigned to		ite
Assigned to		
Assigned to E Action Taken S		ite
Assigned to R Action Taken S O		
Assigned to R Action Taken S O		ite
Assigned to R Action Taken S O	By [0.	
Assigned to Action Taken Action Taken Approved by	By 0.	Scheduled Corrective Action Dete
Assigned to REAction Taken O L U Approved by O Approved by O	By [0.	
Assigned to Action Taken C Approved by Ovystam	By 0.	Scheduled Corrective Action Date
Assigned to Action Taken Action Taken Approved by RE RE	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART	Scheduled Corrective Action Date
Action Taken Action Taken Approved by OVStrom RE Assigned to MJC	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART	Scheduled Corrective Action Dete
Assigned to Action Taken Action Taken Approved by OVStrom RE Assigned to RE	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART	Scheduled Corrective Action Date
Action Taken Action Taken Approved by OVStrom RE Assigned to MJC	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART	Scheduled Corrective Action Dete
Action Taken Action Taken Approved by OVStrom RE Assigned to MJC	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART	Scheduled Corrective Action Dete
Action Taken Action Taken Action Taken Approved by Approved by Results of investigation/Comments The Resolution and Corrective Action on the second se	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART	Schodulod Corrective Action Date 1/22/83 MENT Turdd Date 8/9/8
Action Taken Action Taken Action Taken Approved by Approved by Approved by RE Assigned to Results of investigation/Comments The Resolution and Corrective Action are Verified as being complete	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART	Scheduled Corrective Action Dete
Action Taken Action Taken Action Taken Approved by Approved by Approved by RE Assigned to Results of Investigation/Comments The Resolution and Corrective Action are Verified as being complete	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART	Schodulod Corrective Action Date 1/22/83 MENT Turdd Date 8/9/8
Action Taken Action Taken Action Taken Approved by Approved by Approved by Approved by RE Assigned to Results of investigation/Comments The Resolution and Corrective Action are Verified as being complete Supervisory	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART	Scheduled Corrective Action Date 1/27/83 MENT F. Turde Date 8/9/8 Date
Action Taken Action Taken Action Taken Approved by Orgotoom Results of Investigation/Comments The Resolution and Corrective Action are Verified as being complete Supervisory Approval	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART N/A Supervisory Approval R.7	Scheduled Corrective Action Dete 1/22/83 MENT Tuidd Dete 8/9/8 Date //
Action Taken Action Taken Action Taken Approved by Orgotion RE Assigned to More Results of Investigation/Comments The Resolution and Corrective Action are Verified as being complete Supervisory Approval DISTRIBUTION (Other	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART	Scheduled Corrective Action Dete 1/22/83 MENT Tuidd Dete 8/9/8 Date //
Action Taken Action Taken Action Taken Approved by Orgotogen Results of Investigation/Comments The Resolution and Corrective Action are Verified as being complete Supervisory Approval DISTRIBUTION (Other V. P., Nuclear Power Generation	Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART N/A Supervisory Approval R.7	Scheduled Corrective Action Dete 1/22/83 MENT Tuidd Dete 8/9/8 Date //
Action Taken Action Taken Action Taken Approved by Orgettom RE Assigned to more Results of Investigation/Comments The Resolution and Corrective Action are Verified as being complete Supervisory Approval DISTRIBUTION (Other V. P., Nuclear Power Generation	Date Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART N/A Supervisory Approval R.7 Departments to receive information copy when Chief, Engineering Research	Scheduled Corrective Action Date 1/22/83 MENT Tuidd Date 8/9/8 Date // Date // Date //
Action Taken Action Taken Action Taken Approved by Ovytoom RE Assigned to Results of Investigation/Comments The Hesolution and Corrective Action are Verified as being complete Supervisory Approval	Date Date 10-3-87 TURN TO QUALITY ASSURANCE DEPART N/A Supervisory Approval R.7 Departments to :eceive information copy when	Scheduled Corrective Action Dete 1/22/83 MENT Turdd Oate 8/9/8 Date // Date //

OIR #33-128 ACTIVITY AUDIT NO: 83291A Page 2 of 2

4 - Problem, continued

resistant cabinets are available. It is understood that 10 additional cabinets are on order.

Personnel QA record files are stored in J. Thompson's office (no duplicate storage) in non-fire resistant cabinets.

11

Current storage of the above described records does not meet requirements of H. P. Foley QA Procedure 17, paragraph 3.6. To: All Q.C. Inspectors From: L.R. Wilson Subject: Existing Work July 11, 1983

The purpose of this memorandum is to clarify The Howard P. Foley Company's responsibilities relative to the existing facility.

Diablo Canyon has been under construction or modification since 1968. At that time 10CFR50 had not been enacted, the ANSI standards were not conceived and the commercial nuclear industry was in it's infancy. The facility has been constructed to various editions of the codes, all of which have different acceptance criteria than the codes in use today.

The early construction was conducted and inspected in accordance with an approved PSAR and Quality Assurance program which was designed to provide assurance that the work in place was accomplished in accordance with the design criteria. There is no evidence to indicate that the existing facility does not meet the design criteria that it was constructed to.

The Howard P. Foley Company is currently performing modifications to the facility. Our contractual responsibility is obviously limited to the work which we are performing and does not extend to previous work which has been performed by others.

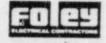
We do not want to dilute our efforts at fulfilling our Contractual responsibilities to the Owner by reviewing history; however, there may be cases where, in the inspection of The Howard P. Foley Company modifications, an item of concern is noted in the existing work.

The Owner has stated that they want us to report conditions which are clearly deficient and would impair the ability of the Plant to function as designed.

In these cases we should report the concern to the Owner. You are expected to utilize your professional judgement and experience when evaluating existing conditions and avoid reporting trivia that does not affect the safe and reliable operation of the plant.

- Ruinl

Rick Wilson Quality Director



THE HOWARD P. FOLEY COMPANY

/.	r th			
G-E 10. Alturante 2675a (1) 10. 3/82	12 GP OPEN ITEM I	REPORT	1 at	ee: <u>1</u>
V	~			
DENTIFICATION: NUMB	EA 1 3 1 - 8 Sequence	Year	AUDIT 10	
INS	T UCTIONS FOR COMPLE	TING ON BAC	K OF THIS FORM	
Requirement(s) HPFolev 0.4.	lanual Sect. II	Project or P	401(5)	
Quality Program			(H.P. Foley)	•
P There is	no detail proce	dure which	ch describes h	ow, or
R requirements to qua				
о в				
L				
E Suggested Resolution M Provide a det	ailed procedure	to certif	ication of qu	ality
persons. Suggest f	ollow ANSI N45.2			
Initiated by R.T. Tured		.R.T.	Turday	0.11 8/26/
TO BE COMPLETED BY RE	SPONSIBLE DEPARTMENT	WITHIN 15	WORKING DAYS OF	TEM 5 DATE
Additional information indicates op For Quality Assurance Department u Assigned to Action Taken	BALLBARAA		P ↓	γ.
For Quality Assurance Department u Assigned to Action Taken	use on WHIRMAI	TIM CL	Jbλ	γ.
For Quality Assurance Department u Assigned to Action Taken] p ¥ ⊵	
Action Taken			Jbλ	
Action Taken	Use only PINA I		Responsible Departmen Elect.	
Action Taken	By Date 9/7/892 ETURN TO QUALITY ASSL		Responsible Departmen Elect. RTMENT	
Action Taken			Responsible Department Elect. RTMENT T. Twidde	Oate 9/16/1
Action Taken Action Taken Ac	Date 9/7/802 TURN TO QUALITY ASSL Divenced HPF Proc.		Responsible Departmen Elect. RTMENT	Oate 7/16/1
Action Taken	Date 9/7/802 TURN TO QUALITY ASSL Divenced HPF Proc.		Responsible Department Elect. RTMENT T. Twidde	Oate 9/16/1
Action Taken Action Contention Action Contention Action Action Action Action Action Action Action Action Action Action Action Action Action Action Action Acti	Date 9/7/802 TURN TO QUALITY ASSL Divenced HPF Proc.		Responsible Department Elect. RTMENT T. Twidde	Oate 9/16/1
Action Taken Action Taken Ac	Date 9/7/89	DRANCE DEPA	Responsible Department Elect. RTMENT T. Twidde	Oate 7/16/1
Action Taken Action Contention Action Contention Action Action Action Action Action Action Action Action Action Action Action Action Action Action Action Acti	Date 9/7/802 TURN TO QUALITY ASSL Divenced HPF Proc.	DRANCE DEPA	Responsible Department Elect. RTMENT T. Twidde	Oate 7/16/1
Action Taken Action Taken Ac	Date 9/7/80 Date 9/7/80 ETURN TO QUALITY ASSL DIVELLED HOF PROC. Control Porcellivel." Malter DR. T. Turid	URANCE DEPA	Prine Personnibile Deoprimer Elect. RTMENT T. Twidde " Guality Contro	0 are 9/16/2 1 Pracedure Cle 105/5 -1° 6 18 18
Action Taken Action	Departments to receive info	DRANCE DEPA	Prine Personnibile Deoprimer Elect. RTMENT T. Twidde " Guality Contro	0 are 9/16/2 1 Pracedure Cle 105/5 -1° 6 18 18
For Quality Assurance Department of Assigned to Action Taken Action Taken Approved by Sutton Approved by Sutton Approved by Sutton Approved by Sutton Approved by Sutton Approved by Sutton Results of Investigation/Comments Results of Investigati	Departments to receive info Chief, Engineering Pa	DRANCE DEPA	Prine Personnibile Deoprimer Elect. RTMENT T. Twidde " Guality Contro	0 are 9/16/2 1 Pracedure Cle 105/5 -1° 6 18 18
Action Taken Action A	Departments to receive info	URANCE DEPA	Porte Personsibile Decontimer Elect. RTMENT T. Twidde " Guality Control hen originated - check	02110

	 • • • • • • • • • • • • • • • • • • •				
ACATION : Diable Canvon No.		Reterc Spec 1	ca 0. 9502	595e 1	
GC Electrical		Discre H	ancy No 1/2	PGanas NVP No	5-2392
IN CODY to Contractor Ty as Z No Nan	ne H. D. F	pley Com	Revenues of the balance of the second second	1.45.40	
	PTION OF DISCREP	PANCY			
Certification and Qualification	ations of Per	sonnei			direct-
There is no detailed procee	dure which de	scribe, 1	how, or the	e require	ents
for qualifying and certifying quali	ity personnel				
(205 010 121 00)					
(Ref. OIR 131-82).					
0					
tiated by 10 m to M		Date			19.0
SPOSITION THE H D Folow Comment			9/3/82		
the n. r. roley company sha	111 write a de	etailed p	procedure f	for certif	ication
of quality personnel.					
	• / N/A			Date	
	/ N/A	Date	9/3/82	Date	
nor Site Representative VIO-Relate	A N/A		9/3/82		
This Minor Veriation Report, (1) D is Not Reports (2) D is Not a Nonce	BDIe: May be F		9/3/82 Per Title 10CFR		
This Minor Veriation Report, (1) D is Not Reports (2) D is Not a Nonce Quality Control DR District A	BDIe: May be F		per Title 10CFR	Part 21)	
This Minor Veriation Report, (1) D is Not Reports (2) D is Not a Nonce	BDIe: May be F	Reportable (9/10/80	Part 21)	
This Minor Veriation Report, (1) D Is Not Reporta (2) D Is Not a Nonce Quality Control Senior Site Representative DISPOSIT	N/A sole: May be for onformance TION ACCOMPLISE	Date Date Date ED	9/10/82 9/3/82	Part 21)	
This Minor Veriation Report. (1) D is Not Reporta (2) D is Not a Nonce Quality Control Senior Site Representative H. P. Foley QC procedure QCP-6A	N/A BDIe: May be for onformance TION ACCOMPLIST has been wri	Date Date Date ED tten and	9/10/82 9/3/82 approved	Part 21)	
This Minor Veriation Report, (1) D is Not Reports (2) D is Not a Nonce Quality Control Senior Site Representative H. P. Foley QC procedure QCP-6A	N/A BDIe: May be for onformance TION ACCOMPLIST has been wri	Date Date Date ED tten and	9/10/82 9/3/82 approved	Part 21)	
This Minor Veriation Report, (1) D Is Not Reporta (2) D Is Not a Nonce Quality Control Senior Site Representative DISPOSIT	N/A BDIe: May be for onformance TION ACCOMPLIST has been wri	Date Date Date ED tten and	9/10/82 9/3/82 approved	Part 21)	
This Minor Veriation Report. (1) D is Not Reporta (2) D is Not a Nonce Quality Control Senior Site Representative H. P. Foley QC procedure QCP-6A	N/A BDIe: May be for onformance TION ACCOMPLIST has been wri	Date Date Date ED tten and	9/10/82 9/3/82 approved	Part 21)	
This Minor Veriation Report. (1) Dis Not Report. (2) Dis Not a Nonce Quality Control Senior Site Representative H. P. Foley QC procedure QCP-6A This procedure details the progr	N/A Bole: Mey be F onformance TION ACCOMPLISE has been wri ram for. certi	Reportable (Date Date ED tten and fying qui	9/10/82 9/3/82 approved	Part 21)	
This Minor Veriation Report. (1) Dis Not Report. (2) Dis Not a Nonce Quality Control Senior Site Representative H. P. Foley QC procedure QCP-6A This procedure details the progr	N/A BDIe: May be for onformance TION ACCOMPLIST has been wri	Reportable (Date Date ED tten and fying qui	9/10/82 9/3/82 approved	Part 21)	
This Minor Veriation Report. (1) Dis Not Report. (2) Dis Not a Nonce Quality Control Senior Site Representative H. P. Foley QC procedure QCP-6A This procedure details the progr	N/A BDIe: Mey be F onformance TION ACCOMPLISE has been wri ram for. certi	Reportable (Date Date ED tten and fying qui	9/10/82 9/3/82 approved	Pert 21) 2 12/7/82. rsonnel.	
This Minor Veriation Report. (1) Dis Not Report. (2) Dis Not a Nonce Quality Control Senior Site Representative H. P. Foley QC procedure QCP-6A This procedure details the progr	N/A BDIe: Mey be F onformance TION ACCOMPLISE has been wri ram for. certi	Reportable (Date Date ED tten and fying qui	Per Title 10CFR 9/10/82 9/3/82 approved alified per	Pert 21) 2 12/7/82. rsonnel.	
This Minor Veriation Report. (1) Dis Not Report. (2) Dis Not a Nonce Quality Control Senior Site Representative H. P. Foley QC procedure QCP-6A This procedure details the progr	N/A BDIe: Mey be F onformance TION ACCOMPLISE has been wri ram for. certi	Reportable (Date Date ED tten and fying qui	Per Title 10CFR 9/10/82 9/3/82 approved alified per	Pert 21) 2 12/7/82. rsonnel.	
The Minor Veriation Report. (1) Dis Not Report. (2) Dis Not a None Quality Control Senior Site Representative H. P. Foley QC procedure QCP-6A This procedure details the progr	N/A BDIe: Mey be F onformance TION ACCOMPLISE has been wri ram for. certi	Reportable (Date Date ED tten and fying qui	Per Title 10CFR 9/10/82 9/3/82 approved alified per	Pert 21) 2 12/7/82. rsonnel.	
This Minor Veriation Report. (1) Dis Not Report. (2) Dis Not a Nonce Quality Control Senior Site Representative H. P. Foley QC procedure QCP-6A This procedure details the progr	N/A BDIe: Mey be F onformance TION ACCOMPLISE has been wri ram for. certi	Reportable (Date Date ED tten and fying qui	Per Title 10CFR 9/10/82 9/3/82 approved alified per	Pert 21) 2 12/7/82. rsonnel.	

Criginal NUMBER: THE HOWARD P. FOLEY COMPANY 8802-824 Rev. 1 NONCONFORMANCE REPORT Page 1 of 2 ATTACHMENTS DESCRIPTION: QUALIFICATION/CERTIFICATION OF DATE: THE HOWARD P. FOLEY COMPANY / CATARACT ENGINEERING 6-6-83 and CONSTRUCTION INSPECTION PERSONNEL Yes X No HOLD TAG # REMOVED 642 · REF. HPF/IR NUMBER: BY DATE N/A UNIT I INIT II A LOCATION VARIOUS CLASS I IN NON-CLASS I SPECIFICATION INSPECTION CRITERIA: DRAWING PROCEDURE X DOCUMENT TITLE AND NUMBER: QCP-6A, Rev. 0 DESCRIPTION OF NONCONFORMANCE: (Including Cause) H.P. Foley's procedure for certification of Quality Control personnel (QCP-6A) was approved and has been in effect since Dec. 7, 1982. Contrary to this procedure, numerous Quality Control personnel have been performing and documenting Class I inspections prior to the issuance of the required certification in their associated work areas. (Continued on Page 2) **DISPOSITION:** 1) Contact previous employers of applicable inspectors to determine experience and levels of Certification. -2) Evaluate previous experience and education to determine appropriate level of certification for each inspector. (Continued on Page 2) 6-30-83 DATE DISPOSITION ACCOMPLISHED Close to File (date) _11-11-8-HPF/NCR 5-20-83 11-11-83 FOR INFORMATIN

 THE HOWARD P. FOLEY COMPANY
 NO.

 NONCONFORMANCE REPORT - CONTINUATION SHEET
 8802-824 Rev 1

 CONTINUATION OF: DESCRIPTION OF NONCONFORMANCE
 PAGE 2 OF 2

 PROPOSED DISPOSITION
 DISPOSITION ACCOMPLISHED

DESCRIPTION OF NONCONFORMANCE: (Including Cause) (Continued from Page 1)

Between 12-7-82 and 3-10-83, it was also noted that Level I inspection personnel did not require a Level II co-signature (Ref. Memo Dated 3-9-83). This Nonconformance encompasses both the H.P. Foley direct inspection personnel and the sub-contracted Cataract personnel (Ref. P.G.& E. Audit 83043A for previous leview of Cataract personnel). Due to the two distinctions (Foley/Cataract) the disposition to this Nonconformance should be in two sub-catagories; one for H. P. Foley inspection personnel and the second for Cataract inspection personnel.

NOTE: Original NCR 8802-824 was inadvertantly misplaced.

DISPOSITION INCLUDING MEANS TO PREVENT RECURRENCE: (Continued from Page 1)

- Reinspect 10% of work of inspectors which cannot be certified to determine acceptability and document results.
- 4) Through interviews with inspection supervision determine competence and performance level of inspectors whose certifiability is questionable. (See items 2 & 3 above)
- 5. It is not required that a Level I acceptance or rejection be cosigned by a Level II when no evaluation of results is required.
- 6) Future screening of potential inspectors will be performed by H. P. Foley's OA Department prior to employment to determine the appropriate level of certification.

FOR MERICAN Close to File (date) _11-11-83

SUMMARY OF REINSPECTION PER NCR 8802-824

Ed Girand RI Background Into.

~1-20-84

In order to identify those inspectors (non-structural) that required 10% reinspection per NCR 8802-824 Å, payroll records were reviewed to determine who was assigned to the Foley Quality Department. H.P. Foley Quality Assurance conducted a survey including personnel interviews with inspectors and supervisors of former inspectors to determine which people performed inspections and in what area. From this survey it was determined that many persons were non-inspector types, such as rod control, clerks, etc. These individuals were eliminated from the reinspection, as were those inspectors whose inspection activities were limited to structural steel weld inspections. The structural weld inspectors work was re-inspected per the disposition of the 8833XR-74 series NCR's.

After the list of inspectors was reduced to those that <u>could</u> <u>have</u> performed inspections, the records in the vault were reviewed to locate inspections made by the suspect inspectors. This involved 22 inspectors from the Electrical and Mechanical groups. See the attached list for specific inspectors and number of inspections.

NAME	IOTAL INSP	10:	ACCEPT.	WELDING -	REMERT	COMMENTS	
RLittle	15	2	2	0	0		
D. Hannah	63	7	66	0	1*		
M. Alexis	14	2	2	0	0		
C. House	5	1	0	0	1		
C. Springer	8	1	1	0	0		
K. Mattina	4	1	1	0	0		
M. Calloway	2	2	1	0	-1*		
J. Nathaniel	41	6	4	0	2*	A 6 10 10 10 10 10 10 10 10 10 10 10 10 10	
D. Larson	14	2	0	0	2	4	
M. Campbell	157	16	15	0	1*		
M. Dillwith	232	24	19	0	5*		
B. Calmenson	85	10	10	- 0	0		
S. Dougherty	167	17	17	0	4*		
J. Perry	81	8	8	0	0 .		
J. Webb	101	11	8	0	3*-		
S. Grocott	71	9	1	0	8*		
M. Stich	64	8	7	0	1*		
J. Mc Quilliams	11	2	2	0	0		
R. Spencer	86	10	7	3	0		
J. Stava	98	13	12	1	0		
3. Anderson	4	2	2	0	0	co-signed by LevelI	
3. Graft	33	100%	29	3	0		
R. Horvath	588	1008		27	0		
						-	
Note: Reject weld	items	identi	fied and	repaire	d		
per NCK 8627-38-1,	8827-2	9-1, a	nd 8827-	45		on-welding attribut	
The second					* Mindr discrepant item		
					repa	ired or identified - R 8802-1696, 1747.	

Rin

10

TO: File NCR 8802-82-R1

Ouch

FROM: L. R. Wilson, Quality Director

During the reinspection effort associated with NCR 8802-824 it was noted that eleven of the people sampled had a higher than acceptable level of rejectable work. The analyses conducted during the reinspection process and conclusions drawn are as follows:

- In one case there was one reject in seven reinspections. A review of that reject determined it was invalid.
- In one case there were five rejects in twenty-four reinspections. A review of those rejects determined that one was invalid and three wore on work performed after the initial inspection. Thus the actual rate was one reject in twenty-four reinspections. This is an acceptable error rate.
- 3. In one case there was one reject in eight reinspections. Research revealed that the reject was the fact that the hanger was no longer installed. The hanger was deleted after the initial inspection.
- In one case there were eight rejects in nine reinspections. In all eight cases the rejections were due to an improper stencil and were not hardware problems. They are not considered significant.
- In four cases there was a total of seven rejects in thirty reinspections. In all cases the rejections were not significant and were approved by P. G. & E.
- 6. In one case there was one reject in two reinspections. Further research revealed that there was one over span condition in a raceway with more the lifty supports. This was not considered significant.
- 7. In two cases there were six rejects in twenty-three reinspections. The rejections consisted of loose clamps and spring nut alignments. In no case were they significant enough to warrant complete reinspection of the individual's work.

RW: EE 1/19/84

CC: K. Glenn PG&E NRC

THE HOWARD P. FOLEY COMPANY

SUMMARY OF STRUCTURAL STEEL REINSPECTION

FHB-I

A 14 1 . . .

NRC inspections between 2-22-83 and 3-3-83 resulted in PG &E NCR DCO-83-RC-NOOl requiring H.P. Foley to reinspect 10% of the welded connection in Fuel Handling Building I to determine if a problem exists, and, if so, the scope of the problem. The 10% reinspection of all single and multiple pass fillet welds were carried out on random connections on 4-23-83 (these connections were picked by placing all connections in a hat and 10% of the connections were selected.)

On 4-26-83 HPF/NCR 8833XR-74 was written addressing the unacceptable results of the 10% reinspection and the disposition was to do 100% reinspection of all single and multiple pass fillet welds. The NCR was signed and the disposition was accepted on 4-27-83 and packages were let out for rework on swing shift 4-27-83. Reinspection of Fuel Handling Building I was performed on two shifts seven days a week through 5-14-83. The last field work was completed approximately 5-18-83. At this time there were still NCR's and EDR's pending on some connections; most of these problems were cleared up by 5-26-83.

The sequence for the reinspection and repair work was: 1) Engineering assembled the necessary information and made a package. The package consisted of weld reinspection sheets with weld numbers, connection numbers and other documents that pertained to the work.

2) Q.C. Inspectors added the required drawing and completed the reinspection.

3) After the inspections were complete, the package was reviewed by Q.C. and those welds requiring repair were flagged out and a work package was transmitted to the field for rework.
4) Upon completion of the rework or at required hold points, the Q.C. Inspector was called and the necessary inspections were made and documented.

5) Then the completed package was reviewed to ensure the required repairs had been completed and documented.

CONTAINMENT I

As a result of the number of welds that required repair during the Fuel Handling Building reinspection, a 10% reinspection on the platform and annulus steel of Containment I was performed starting on 7-8-83. Within a few days the 10% sample was complete and revealed a reject rate at about the same as found in the FHB-I reinspection. NCR 8833XR-74-1 and NCR 8833XR-74-2 were written to document defects found on the platform and annulus steel of containment. PG & E directed that a 100% reinspection be made on all fillet welds made between 1-01-83 and 3-15-83. Later these dates were extended by H.P. Foley management to 5-1-83 to assure all potential problem welds were included in the reinspection.

Summary of Structural Steel Reinspection Page 2

"n an effort to avoid some of the coordination problems experienced in the reinspection and repair of FHB-1 welds, a joint effort was planned and implemented for the Containment.

The sequence involved three steps:

 Packages were pre-planned by Engineering. The packages included the required drawings, supplementary information (DCN's, EDR's, etc.), and an improved weld inspection sheet.
 Work station were established in the building and a task force of inspectors, craft, and engineers were assigned fulltime to the effort. Inspections were made, and repairs were made and documented on the spot. Minor repairs such as arc strike, splatter, etc. were corrected and noted as accepted on the weld inspection sheet. Repairs requiring filler metal were documented utilizing WIR's.

3) Upon field completion, the work package was returned to engineering for review and status. Engineering turned them back to Q.C. for final review and filing.

The whole Containment was inspected and reworked in just over a week, including Saturday and Sunday work.

HOT SHOP I/II and FUEL HANDLING II

In an effort to assess the quanity and type of defects in the Hot Shop and FHB-II, one bay of each was reinspected. The result of the one bay reinspection resulted in HPF/NCR 8833XR-74-3 for Hot Shop, and HPF/NCR 8 33XR-74-4 for FHB-II. These were written on 7-26-83 and work started immediately. In an effort to close out priority 400 work, Hot Shop took priority. Reinspection of Hot Shop was completed about 8-11-83.

Unit II reinspection was a lot slower due to the fact that it wasn't priority item 400. The reinspection was done as the manpower was available and the time was alotted. The same one package system used in the Containment reinspection was used with the one page Reinspection Checklist. Reinspection of Unit II Fuel Handling Building was completed about 9-30-83.

SUMMARY OF WELDS RE-INSPECTED AND REPAIRED AS A RESULT ON NCR-8802-824 1

it I Fuel Handling Building per HPF/NCR8833XR-74 Local Welds reinspected 3,744 Total Welds Requiring Filler 557

Unit I Containment Platforms per EPF/NCR8833XR-74-1 Total Welds reinspected 1,547 Total Welds requiring Filler 127

Unit I Containment Annulus per HPF/NCR8833XR-74-2 Total Welds reinspected 1,127 Total Welds requiring Filler 83

Units I and II Hot Shop per HPF/NCR8833XR-74-3 Total Welds reinspected 2,676 Total Welds requiring Filler 390

Unit II Fuel Handling Building per HPF/NCR8833XR-74-4 Total Welds reinspected 3,169 Total Welds requiring Filler 486

ATTACHMENT TO HPF/NCR 8802-824, REV. 1

Disposition Accomplished Summary as requested by the NRC

- Employment verification was performed and documented on all currently employed QC Inspectors. The following methods were used:
 - A) Record of telephone verification.
 - B) Verification by letter.
 - C) When verification was not feasible, personnel interviews were conducted to determine if the individual had the knowledge one would expect him to have in the position they held.
 - D) When previous experience was not exclusively in Quality, a statement documenting a percentage of time spent performing Quality related activities was prepared.
 - E) Tri-State Investigative Services was employed by Cataract to perform background verification on their personnel.
- Previous experience and education was evaluated to determine the appropriate level of certification. ANSI N45.2.6-1978 was used as a guideline. Inspectors determined to be certifiable were issued new certifications by discipline. Inspectors determined to be uncertifiable were reinspected in accordance with Item 3.
- 3. A 10% reinspection of work of Inspectors who could not be certified was conducted and documented. Inspectors who worked in the Civil/ Structural discipline were 100% reinspected under the HPF/NCR 8833XR-74 series NCR's.
- 4. Interviews were conducted with inspection supervision to determine competence and performance level. The supervisors were asked to come on line stating they evaluated the inspectors' performance level and that the inspectors were cognizant of the codes, standards and procedural requirements applicable to this project.
- 5. H.P. Foley QCP-6A, REV. 1, Paragraph 4.3 has been revised to indicate capabilities of Level I and Level II personnel.
- 6. Screening of potential inspectors is performed by H.P. Foley QA prior to in-hire. Verification of education and previous experience is performed and documented prior to certification and release to begin inspection activities.

(Partial Listing)

MTG W/ DR H. MYERS 11/19/83 3:50 = ~7.20PM @ OR MYON OFFICE

Ref: QE Mip list NCK 8802-824 KW1 RGE Audit 83043A

Up to 1/83 no twe belog act program; 9/12/79-4/25/80 civil msp. were regis to be certial by providence - but none were per action; 5/2/21 then 12/7/82 ac art regist per providence - but no cutence 7 insp. not certial to specific track.; General arts "Electrical Insy" Dived ; prom to 1/83 ac insp. no educ backgrowt fino perior nor experies 9 ho consistent training pregram. Non 824 - only address proto post 12/7/82 not post 10 yr

- Review / andyre

Task: Allegation or Concern No. 58

FILE COPY

ATS No: RV-83-A-57 BN No: N/A

Characterization:

Foley allows "Red Head" Anchors Studs Reported Improperly Installed.

Implied Significance to Plant Design, Construction, or Operation

See Task Allegation or Concern No. 25

Assessment of Safety Significance

See task Allegation or Concern No. 25

Staff Position

See Task Allegation or Concern No. 25

Action Required

See Task Allegation or Concern No. 25

(atis Listing)

MR W/ OR H MYORS 119/83 2 2 - ~ 7 20 FM C OR MYON OFFICE

Ref: Qe Imp list

NCE 8802-824 Red

PGE Auruit 83243 A

Up to 1/83 he the doley at prigram; 9/12/29-4/25/86 cruit map were rig a to be citid by preame - bet were were per Collit; 3/2/21 then 12/7/82 GC art regint per precidence - bet menterica Jinsp mit and to specific task.; Concred arts "Exclosical loss" Divid ; proto 1/83 GC map he edge beckgrowt for perior mix express 7 ho consistent transmy pregram.

I formation obtained by Eiskop from. - Rantes Jamel DE Meyers.

allegator # 57 1/13 3.50 EST >~ 7:20 PM Dr Myen Office 7.) if 5 pay typed document disting I alisgetites Intitled: Dieble Canyon Nocica Pour Flant The Problem (apartial listing) 2-Other dicement General lakel a. ICCFIE 21 Nonconfermance report 6/30/35 6 und reputale ref roles Non SSC2-S24 rec J) & Frince 6 Und Roley NOR SSC2-S24 Rec 1 6/6/33 1. . Unit 1/2 Class 1 mig Kurden GCP-GA, in C Initial ? Mean 6/0/03; R.A Carte, 6/0/63 C.C. Supe [Dispondion culsur do; 960 Ressed 6/30/55 intre DB] "Between 12/7/32-3/10/05 Level I inspective cuiant region Level II Ca signile - ref mino Dabel 3-9-85" Not disposition de la Broz-sze reize une and Big Alista Biger & Orignel 8802-524 reize une and Biger A ACK applicable to beth Teley Inspectors and Foley contract & Orignal 8802-524 NCIZ was inacherty midglocad" Intervier Supervisions determe confidence level. Level I not wig to sign if no work the of resulting . what ites) C' Activity Audit 1'60 GA Ligt 8 5043 A Chulitor 1415 Delizersky 2/7-11/33 Keam d. CC Inspector List

Mania · Olice we Induce / exit Danes (Contation And Dise Dane Dise of the Dise Nejveda, Going Zenzen, Richard (31 parks)

PROBLEM STATEMENT

Allegation No(s): 58

ATS No(s):

BN(s):

This document lists (or directly references) each allegation or concern brought to the attention of NRC personnel. The purpose of this statement sheet is to assure that ALL points raised by the alleger are covered.

If the problem statement is not clear as to who, what, where, when, of why regarding the issue, the commentary section will amplify the statement. The commentary section will also be used if there is apparent conflicting information or if there is NO or very little original information available which describes the concern(s). (This can occur if, for example, a one line concern was received in an interview).

PROBLEM STATEMENTS (use extra sheets as necessary)

ALLEGATION # 58

VERBATIM STATEMENT OR REFERENCE Phillips Red Head stud anchors have been forbidden for use in nuclear power plants; inspectors have reported than many were improperly installed--inconsistent drilling depth--and are subject to frequent dislodging. See also allegation Nos. 25, 142 154 and 176.

COMMENTARY

Date This Statement was Completed 3/16/84 D. Haist Technical Reviewer Signature

97 UNITED STATES NUCLEAR REGULATORY COMMISSION **REGION V** CONFIDENTIAL SOLLACE: 1990 N. CALIFORNIA BOULEVARD YES D SUITE 202, WALNUT CREEK PLAZA NO D WALNUT CREEK, CALIFORNIA 94595 SUMMARY OF SPECIAL WSP -RELATED INFORMATION DIAGLO CANVON TIME COMPLETED DATE THE INITIATED ISSUE CONCERNS ~ 3/84 5:100 4:40 \$ OTHER NAME H. Girard TYPE ORGANIZATION YRS. ON SITE) MEETING Jik Dale 1/2 Foley INTERVIEW QC Assistant Managed) TELEPHONE-CALL (2nd shift) COLLECT ()YES ()NO () OTHER LOCATION Q = Question CALLED NO. CALLING NO. R = Reply SUMMARY : ARE YOU, OR ARE YOU AWARE OF, IMPROPER MANAGEMENT PRESSURES 1. STANDARD QUESTION: TO "OUT CORNERS" (i.e. sacrifice safety to meet schedules, etc) ?: has heard runors of problems 04 knowladge but R: no direct radare repoir work Intoke training and qualifications on the st CONSIGNY THE 2. Q: Do gou t. adequate 14 Spectors be Q Training, The Training The croyt beter needs inspection personnel requirements Would For experienced people 14 The procedures + drawings consider 3. Q: Do you They are not as good =5 Gda GUE adequate They are harassment? A: No. Overall our 074 7.0 ANGEL crazt The quality of the work at This estation ? A: Nothing I've seen 14 OUEL OF PAGE DATE WRITTEN BY ------.

REGION V FORM: 113

5. CINTINUED give me cause for concern. However, there are two the there any concerns Things that give me some concern : - The use of red Acads. At Trojen where they used them they are coming out of the walls. Texts on Then at WPPs indicated they were not good. Also projectist is not enough, - Rumons of problems at the inteken station. I believe you should talk to some of our ac inspectors about This

PREVIOUS EXPERIENCE:

Civil Engineering QC/GA area - Gym at Hanford - Ign Glaska pipaline - short time at Trojan, Ferni 2 + Marble Hill

SUMMARY: Individual has concerns relative to the following: O Use of red head anchor bolts and inadequate torqueing requirements for attendment to anchors. O Intoke station repairs.

27/2 12/5

÷ 3 Use of Red Head Stud Anuchas

- eval -

allyation # 58

ney HP Rly Prozentic OCPE-9, 100, 19 10, para 4.7

Callows Phillips fed Head Stick ander - have been forbidden for use in n.pp. for year ; Inspectors have reported that many were impropuly invialled -- inconsistent dealling depte of hole -- and are subject to fright dis lodging-

(no supporting data)

11/19/83 2: 70 - ~ 7: 20PM (Pastian Listing) (On MYERS OFFICE Allegetm# 57 In unantified, unquelified ac unpectos Ref: De mip list NCR 1802-824 Rul PGE Audit 83043 A Up to 1/83 me the dety art program; 9/12/29-4/25/80 civil map were regia to be cartia by providence - but nonewere par action; 3/2/21 the 12/7/82 ac cert regist yes procedure - both no cutena 7 msp mate certil to specific tack. ; General carts "Electrical Tany" Dived ; prom to 1/83 QC insp ne leder beck grows the pertor were experien & no consistent training pregram. NCN 824 - only address pres post 12/7/32 not post 10 yr PEE Auler \$3043A out s with not reported to Anc. - Review / and pe OTHER Allegations

CONFIDENTIAL SCURCE (- MICS WILL IDUR TIFY)

11/21/83

DR. H. Myers, alleger / TUB

GERMAN DISCUSSIONS OF TUB GUESTIONS TO ALLEBOR. TUB SIGNT ~ 31/2 HAS ON 11/19 (@ DR. MYON'S OFFICE REVIEWING GOLDRACTOS SUBMITTED BY ALLEOR (KEF. SOMALTE LISTING)

10/0

- Alleger does not want to identify humself by name. - direct aiscession of allegers topics with contractive(reky) or Project will cause alleger to be identified - alleger suggested ~ comments came to Nice Hurzigh a tormer employee.

allegation NO, 57: - Thempson has must kneakage of this prisen. - believes list of inspectors is basically comprehensive. - believes Poie has accepted / signed off LCR 8802-824.

- no other into

- Foley inspectors in field have nost knowledge on this issue - not aware of any current failures

- not aware of any failures that were not fixed. - now, they perform tangening to verity nucly installed anchors are satisfacting.

The clitection is cut nut to tryut cid

2478

anchors, (because to do so would cause them to fail).

allegation No. 59

NB:

NB

- not sure what "TH" stands for, but Foley receives cable reels under a prochase order number. These numbers begin with "4R....". Foley then adds their own alpha nomere code - Logio called "TH - One purchase order may have may different ""
- One purchase order may have may different reels, Folg adds neel numbers tor control.
 - Mark Papasergia is most knowledgibi of the situtations where production used their own private stock of caple. Production gets this cable as follows - when they have a job they procure X feet of cable and aput it on a reet. They only use "X-Y feet, and therefore have y feet left over. They says this y feet (without traceablity) and may use it later. Papasergia has documented this problem on several of his "Munthly Reports to the Quality Director". Do not approach Pagasergia clinectly on this issue or it will cause alleger to be identified - instead cook Papasergia what publems has he had, where has he decomented them, ask to sie him monthly reports" Circa last spring and sommer. When Thompson stated traceasitidy was lost

3Agl

years ago, he meant that it was lost, and not since regained. alleger doesn't know if Thompson told this to also bidy else but believes so.

- alleger believes traceability situation is kopeless and that Thompson and others believe so also.
- alleger believes that records have been changed illegally; that person(s) have added reel numbers to documents that were not there before (no specifics) - any body can get to records.
 - Records are in a metal shead (vault), there is an accuss list but you can go in almost any time and see people in there who are not on the access hist.

alligation No. 60

- betreves suppliers are approved "locally" by Foley. - computer print out of "suppliers is updated and published once per week.

- this publish (use of unapposed vendors) is pervasive since the early 1970's and still today.

- PGE han iswed a "new" NCR # DCO-83-SC NOOT, dated 6/10/83 which documents this problem (don't know status), but alleger understands
- the conection action to be a 100% neurew of Class I records. He believes this is maxuch

MB {

NB

a massive chore that it will not be done all the way back to day zero, it would mish thousands of records.

448

when asked for best NRC contact: allegn niploid, that the Supervisor of this area is relatively new, hired in March 83 (Kelly Calhoon) and that since this time <u>Calhoon</u> has signed off records which he should not have, i.e. <u>he signed off records for which he clid not</u> <u>have an inspection function</u>, including records which <u>predate</u> fis employment. He was caught at this. No disciplancy action was taken, Calhon was <u>asked</u> to conect the records. (Suspects Calhom was just not exercising good judgement=)

allegation No. 61

a new

adpo

Most knowledgible individual on this lieve is in the document control center Julie Carsel. Alleger mailed some new NCR's on this subject to Dr. Myors - should receive in a few days <u>Alleger</u> feels this problem centers around <u>document control</u> and is due to past tack of training of Foley and problem document control personnel and lack of cooperation between contractor doc. control and P.G. 4E document control.

no specific contact for field work of this ava

- Belicus PGE or Foley has new obtained a complete city of citaumy # 100 - Onaung 100 is not currently being used. - There are many DCsis that have this pricking Husi discussed in Material given to Dr. Myin are publishy the best written up

5.73

- allegin beinnes the inadequete sampling problem muy be true of electrical termination inspections also.

- according to alleger - Foley does not have a prigram which requires inspection of each tamneting which shows the night whe is connected to the night terminal block. - Direct inspectron, on reference to the way the 10% cable pulling inspection sample problem was handled will cause allegen to be identified alleger suggests NRC approach by booking at logs of "giality work and will see that there were no, n few inspections in the first Jew years - getting whice into the wine . Boient Know PG te's status on this were (whether NCR 5502-398 is man signal by 1'steer met)

678 allegation No 63 - alleger feels the use of EORS (like EOR # 8938) is too unoffical - Foley also used telephone records to document Africal decisions - feel this is improper - this was done up until Mouch 1983. - EOR 8938 was argued of by Zacharia" and miticled by Don Rockwell (DHR) - alleger, when when does not know why the 8" of OR \$938 was hand written while the nest of the numbers were printed. (Now, he says, they are all hand written). N.B. -> { - The Fire control/ Deluge circuits were not, and are how, = alligation No. 64 Close I - These have traces lither - alleger says records show that the same strong the NB) report was used for two different types of grout. - Suggesto we check strength report over time, randomi, so we don't draw spente attention to the alleger. - alleger doesn't know of any NRK's were written on This were, - Eaton works for Fidler, - Eaton "makes up" the grout samples. - Eaton himself feels this is not right. - alleger docen't know where growt wood used. - When asked, alleger did not know if proxy signations were ok (e.g. "Rithand Tox FOR EATON"), but say he's seen it before and it seem tobe accepted.

allegation 65 - Descussion to destray records was traved, rather specifically, on non-quality nequined records called " Data Input Chackelists"; per alleger - "Data Input Chechlists" have now been removed from the to a separate fite in the Decement Turn Con Trailer. - Jun Thempsi has given the direction to destry these records - Data Input Ciuchlash are the nisults of clubs runi of quelity decements, and steen protens. It they the classinged a person could reconstruct the publims by looking at the actual gratity decurut. Thompson has would a meme (copy being mailie to Br. Regers) which tells prismit not to look at runas pronte sept kit be cause This was before the NRC litencie of Diable and there for out of sope' Callege believes reason is there are lots of pristing in Pre-9/81 records and Thompson/ willin clini want to find thim.] 10 to 80% of all Folig goality records have been reviewed by cleaks for completeness, etc., but have not been reviewed by Document analysts. Linfering most records have not been adiguty rentewed). Data Input Checklist are not quality dreameds.

10/8

ſ

8.73

Other statements (in riep. to quistins) Skip Moses is the person putting pusses on Thompson to get job finished. - Thompson is "wan" - it pusicies by Moses he will kubmit - i of precound" by the Nic he will percovery identify open up and discuss the his knowledge of pullen areas. or offer immenty - myes - Wilson will stone wali - Tolay just received a "maintenane contract" they have been concared, for months, abuther. they would / would not receive this contract. NB (- Regarcung protection of identity- "dint Reference any drament "provided to Br Mayer's by the alleger.

- END

- INI Sup

Task: Allegation #58

ATS. No. RV 83A

Characterization: A site contractor (HPFoley) allows the use of Phillips Red Head anchor studs, many of which are reported to be improperly installed and are subject to frequent dislodging.

Initial Assessment of Significance: (refer to Allegation No. 25).

Source: Anonymous (via Dr. H. Myers)/Confidential 11/83

Approach to Resolution: (refer to Allegation No. 25).

Status: Not started.

Review Lead: Region V

Support: NRR-DE-MEB

Support:

Estimated Resources: (refer to Allegation No. 25).

Estimated Completion: 12/9/83 Evaluation (preliminary) 1/27/84 Final Evaluation Task: Allegation No. 58

4. 4

0

ATS. NO. RV 8340057

<u>Characterization</u>: A site contractor (H. P. Foley) allows the use of Phillips Red Head anchor studs, many of which are reported to be improperly installed and are subject to frequent dislodging.

Implied Significance to Plant Design, Construction or Operation

Refer to Allegation No. 25.

Assessment of Safety Significance

Refer to Allegation No. 25.

Staff Position

Refer to Allegation No. 25.

Action Required:

Refer to Allegation No. 25.

Final 3.8.84 FILE COPY

ATS No: RV-83-A-64

Task: Allegation No. 80

Characterization

Letters dated 4 November 1983, 9 December 1983 and 9 January 1984 from Dr. Richard Kranzdorf, Spokesperson for Concerned Cal Poly Faculty and Staff, concluded that the licensing process for the Diablo Canyon Nuclear Power Plant (DCNPP) should cease until four primary issues regarding emergency planning by San Luis Obispo County/Cities are resolved:

- The evacuation time calculations are not adequate because only 20% was added to the normal evacuation times to account for adverse weather conditions. Dr. Kranzdorf does not feel that the 20% factor represents the "worst case" possible which he considers may be dense fog.
- The main evacuation transportation routes for the Baywood Park/Los Osos area are unacceptable because both are subject to flooding.
- 3. Sirens, as the primary means of notification, are not acceptable because they are powered by regular power lines and are, therefore, subject to periodic interruption. The back-up system (police cars with sirens) is not acceptable because it would not be as effective as a fully operational siren system.

61

 The evacuation time estimates are inadequate because the effects of earthquakes (e.g., potentially greater evacuation times) have not been considered.

Implied Significance to Design, Construction or Operation

Implied is that in the event of a major nuclear emergency at the DCNPP, planning is inadequate to insure the public health and safety through appropriate notification of the public and evacuation of some geographic areas within the emergency planning zone (EPZ) during inclement weather conditions such as fog and flooding, or other natural physical phenomena (e.g., earthquakes).

Assessment of Safety Significance

On 8 December 1983 a conference call involving Region IX of the Federal Emergency Management Agency (FEMA), the State of California Office of Emergency Services (COES), the San Luis Obispo County Office of Emergency Services (SOES), and NRC Region V was conducted to discuss and analyze the issues raised by Dr. Kranzdorf. Since FEMA has primary responsibility by Presidential Direction to take the lead in offsite planning for nuclear emergencies, FEMA Region IX agreed to coordinate the assessment of the allegations. Additionally, NRC Region V has performed an independent assessment of the allegations. The results of these assessments are as follows: The evacuation time calculations are not adequate because only 20% was added to the normal evacuation times to account for adverse weather conditions. Dr. Kransdorf does not feel that the 20% factor represents the "worst case" possible which he considers may be dense fog.

Assessment

Several independent studies dealing with road capacities under adverse weather conditions concluded that a 20% reduction in speed and capacity is appropriate for a range of adverse weather conditions including heavy rain and fog. These studies were conducted in several different states including California (fog), New York (fog), Illinois (snow and rain) and Texas (rain). Since speeds during a fair weather evacuation are already reduced from maximum, an additional reduction of 20% appears to be reasonable. The 20% reduction factor is a widely accepted standard. Evacuation times during extremely adverse weather conditions (e.g., zero visibility fog) might be somewhat longer, however, the times noted in the San Luis Obispo County Emergency Plan for general adverse weather conditions are available to the decisionmakers so that during extreme conditions concurrent with a radiological emergency, appropriate protective measures could be taken based on these estimates. It should be noted that there is no requirement that evacuation time estimates be based on the worst possible weather conditions.

This issue was litigated in the licensing proceeding. In an initial decision regarding emergency planning for the DCNPP, dated August 31, 1982, the Atomic Safety Licensing Board (ASLB) in part stated:

"The evacuation time estimate made by Applicant conforms with the requirements of Appendix 4 of NUREG-0654 and is therefore accepted for the purposes of this case. A second estimate of evacuation time, done independently by the TERA Corporation, leads to similar estimates as the above report.... The (Joint Intervenor) witnesses consistently urged the most conservative assumptions, however, which the Board concludes are not -credible.... The time estimates by P.R.C. Voorhees were realistically made over a range of normal and adverse conditions.... We conclude that time estimates for emergency evacuation of the public within the plume exposure EPZ are valid and in conformance with Appendix 4 of NUREG-0654.... The board therefore finds that adequate protective actions can be taken both on site and off site in the event of an emergency and requirements of 10 CFR 50.47 and criteria of Part J of NUREG-0654."

2.

The main evacuation transportation routes for the Baywood Park/Los Osos area are unacceptable because both are subject to flooding.

Assessment

These circumstances are addressed in the San Luis Obispo County Emergency Plan. The Plan acknowledges specific locations which have a tendency to flood and also notes duration of flood stage at those locations (normally 2 hours). County officials are prepared to consider temporary delays associated with these specific locations during flood conditions. Evacuation times would be extended in proportion to the lost capacity. In addition, the Plan has provided for a staged evacuation. This would help alleviate any added

congestion due to the use of alternate evacuation routes. Evacuation time estimates for a staged evacuation are provided in the Plan and are, therefore, available to the decisionmakers. County Officials would use these data to take the most prudent protective measures when faced with the prospect of or actual flooding.

An important point to be considered is that under severe flooding conditions the most probable protective measure which would be employed in the Baywood Park/Los Osos area would be sheltering instead of evacuation since a) a radioactive plume from the plant would be diffused by the hills and distance between the plant and the Baywood Park/Los Osos area and b) the Baywood Park/Los Osos area is greater than five miles from the plant and c) a storm of this magnitude resulting in the flood conditions discussed above would in itself inhibit migration of the plume.

FEMA has evaluated this situation and found that the county plans are satisfactory.

3. Sirens, as the primary means of notification, are not acceptable because they are powered by regular power lines and are, therefore, subject to periodic interruption. The back-up system (police cars with sirens) is not acceptable because it would not be as effective as a fully operational siren system.

Assessment

The siren system for alerting residents within the offsite jurisdictions around the DCNPP is electrically powered by sources distributed through seven different electrical power substations. The potential for power failures has been considered and procedures exist to verify power availability. Should a substation outage be reported as a result of that verification procedure, . those responsible would dispatch appropriate county staff to the affected area for personal notification to residents. This activity would be performed in accordance with the guidance provided in NUREG-0654/FEMA REP-1, Rev. 1 that specifies the county has 45 minutes to alert that portion of the public that did not receive the initial alert.

 The evacuation time estimates are inadequate because the effects of earthquakes (e.g., potentially greater evacuation times) have not been considered.

Assessment

The effects of earthquakes, with respect to evacuation times, has been considered and data has been provided in the county plan. An estimate of the evacuation times has been provided for light, moderate and heavy damage levels. These data are available to the decisionmakers so that in the event of a radiological emergency, during and/or after an earthquake, appropriate protective measures could be taken based on these estimates.

Staff Position

Based on the results of the combined assessment efforts by FEMA, State, County and NRC personnel, the staff position is that all allegations have been responsibility evaluated and addressed by all of the appropriate authorities.

Action Required

Provide Dr. Kranzdorf with the results of the assessment of the allegations. This will be accomplished by letter, telephone or possibly a meeting with Dr. Kranzdorf.