

Washington Public Power Supply System

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IE HQ FILE COPY

Docket Number 50-397

January 27, 1983
G02-83-073

Responds to: N/A
Response required by: N/A

Mr. R. H. Engelken, Regional Administrator
Nuclear Regulatory Commission
Region V
1450 Maria Lane Suite 210
Walnut Creek, California 94596

Subject: SUPPLY SYSTEM NUCLEAR PROJECT NO. 2
THIRTEENTH PROGRESS REPORT - 10CFR50.54(f)

Reference: a) G02-80-153, N.O. Strand to USNRC, "WPPSS Nuclear
Project No. 2 Docket No. 50-397, EA-80-20, Notice
of Violation and Additional Information -
10CFR50.54(f)," dated July 17, 1980

This is the thirteenth Progress Report on the actions we have taken
in regard to our commitments in Reference a). This quarterly report
covers the period of October through December 1982.

Verification reinspections of mechanical and electrical work have
been completed. All of the contractors except Bechtel have completed
their programs and have submitted final reports. The status of
individual tasks is detailed in the attachments.

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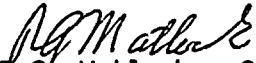
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R.H. Engelken
Page 2

Should you have any questions regarding the nature or content of the review program or this report, please feel free to contact me at your convenience.


R.G. Matlock - 901A
Program Director, WNP-2

RLK/lkh

- Attachments: 1. WNP-2 Project Review of
Completed Safety-Related Work -
Progress Report
- 1A. Prepurchase and Inactive Contracts -
Status Report
- 1B. Deficiency Document Review -
Status Report

cc: WS Chin, BPA - Richland
RA Feil, NRC, Resident WNP-2
JA Forrest, B&R - Richland
PE Grady, BPA - WNP-2
JB Knotts, Jr., Debevoise & Liberman, Shoreham Bldg.
1200 17th St. NW, Washington, DC 20036
ND Lewis, EFSEC, M/S PY11, Olympia, WA 98504
TA Mangelsdorf, Bechtel - WNP-2
JJ Verderber, B&R, 185 Crossway Park Dr., Woodbury,
NY 11797

THIRTEENTH PROGRESS REPORT
WNP-2 PROJECT REVIEW
OF
COMPLETED SAFETY-RELATED WORK

A. INTRODUCTION

This report covers activities of the Supply System's Quality Verification Program (QVP) during the months of October, November, and December, 1982. Reinspection of hardware in the plant is complete. Results of the reinspections are being evaluated. Several contract reports covering the contractors' activities have been completed, others are in progress.

B. GENERAL INFORMATION

1. Instruction QVI-06 for Prepurchase and Inactive Contract reviews was revised during this period to take into account past experience of the reviewers in their respective areas of expertise. This revision is being used by Project Quality Assurance (PQA) for the remaining QVP document reviews.
2. A surveillance was conducted in October by PQA to confirm follow-up actions by QVP in response to management-assessment recommendations made by Technical Audit Associates. A report was prepared by PQA on the findings of this surveillance.
3. Technical Audit Associates (TAA) performed an audit of this Program in November as a part of their review of the Plant Verification Program. Lead QVP personnel (Supply System and Bechtel) responded to inquiries concerning significant issues in the Program. The NRC Resident Inspectors were present during the audit sessions.
4. At the Program Director's request, a presentation was made to members of the Project Management staff in December for a round table discussion of the methods by which the QVP has met its 50.54(f) - Response commitments. This consisted of a "process"-oriented review of the reports being published by QVP, interpretation of results, and data-gathering methods used. A follow-up critique of this presentation was requested by the Program Director to provide recommendations for successfully concluding QVP activities and reports, currently scheduled for the second quarter of 1983.
5. During this reporting period, attrition reduced the staff levels of the QVP office by two and the Bechtel Reverification Group (BRG) by three (one engineer being reassigned). Project Management reassessed the manpower requirements necessary for the timely completion of the program and has begun to restaff. BRG has added one engineer, reassigned another, while the QVP office has added one engineer.

6. During the course of our work in 1982, the program has been scrutinized by the following audits and surveillances:

Overall Program

<u>Type of Surveillance</u>	<u>Date</u>	<u>Performed By</u>
Audit	January 1982	Project QA
Management Assessment	April 1982	Corporate QA
Audit	June 1982 (On-going)	TAA
Audit	July 1982	Project QA
Surveillance	October 1982	Project QA
Audit (will commence presently)	January 1983	Corporate QA

Bechtel Reverification Group

<u>Type of Surveillance</u>	<u>Date</u>	<u>Performed By</u>
Audit	June thru July 1982	Bechtel QA
Audit	September 1982	Project QA

Site Contractors

<u>Type of Surveillance</u>	<u>Date</u>	<u>Performed By</u>
5 Audits	January thru October 1982	Bechtel QA
69 Surveillances	December 1981 to October 1982	Bechtel QC

The overall results of these surveillances has given us high confidence in the Program's performance and administration.

C. SYSTEMS COMPLETION

1. The following is a brief report for each of the active site contractors' reverification activities.
 - o Contract 210A, Peter Kiewit Sons
Complete, reported earlier.
 - o Contract 213A, Pittsburg-DesMoines Steel
Complete, reported earlier.
 - o Contract 215/250, WBG/Bechtel
Reinspection of contract 215 hardware items required for reverification has been completed. The following is a summary of the work during this report period:

- Containment Drywell Structural Steel. All reinspections of the pipe whip supports and structural steel in the drywell have been completed. Deficiencies identified are currently being evaluated by the Architect-Engineer (A/E). Results will determine whether additional hardware inspection will be necessary.
 - RPV Hydro, RPV Hydro Support, and Wetwell Hydro Boundaries. All hardware items requiring inspection for the RPV and Wetwell Hydro boundaries and support systems have been inspected by the Bechtel Quality Control organization. Deficiencies were identified on Quality Control Inspection Reports (QCIRs) and are being reviewed by the A/E.
 - Balance of Systems. Hardware reinspections have been completed. Sixteen system reports have been written by BRG and approved by Bechtel QA. Reinspection results for the remaining twenty one systems will be evaluated and the reports completed as outstanding QCIRs and NCRs are dispositioned. Some QCIRs are being reevaluated by the A/E to ensure that the dispositions made are complete and technically adequate.
- o Contract 216, The Waldinger Corporation
- Complete, reported earlier. The NRC Resident Inspector reviewed this report in depth and performed his own field investigation of a sample of the hardware reinspected in this contract. In our participation in this review, we discovered that some copies of drawings were not legible. This information was given to the Project and is being acted upon by Project Management.
- o Contract 217, Sentry
- Complete, reported earlier. The NRC Resident Inspector reviewed this report also, and has found some deficiencies. An addendum to the final report for this contract is being prepared for clarification and to respond to questions raised by the Inspector.
- o Contract 218, Fischbach/Lord (F/L)
- The contractor has completed review of F&M Technical Services' (his subcontractor engaged to perform reverification) hardware reinspection. All but one of Fischbach/Lord's reverification system letter-reports have been submitted to BRG for review. To date, no deficiencies of such a nature or number as would increase the original 10% reverification sample have been identified. F/L has completed the draft of their final contract report, which is now under review by BRG and the QVP office.

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o Contract 219/234, O.B. Cannon

Complete, reported earlier.

o Contract 220, Johnson Controls

The final reverification report for this contract has been reviewed and approved by BRG. The report is currently under review by the Supply System for concurrence.

D. PREPURCHASE AND INACTIVE CONTRACTS

1. In the Twelfth Progress Report, we reported that we had searched the records of all WNP-2 contracts to be certain that all QC-I and SC-I work had been addressed. The list of contracts obtained from that effort was added to Attachment 1A. However, two identified contracts were inadvertently omitted from the list. They are both Purchase Order contracts and have been entered in Attachment 1A of this report.

Document reviews and contract evaluations continue and the fourteen contracts remaining are expected to be completed soon.

2. The audit by Bechtel of test documentation for cranes and hoists installed by WBG which began during the previous reporting period has been completed. The results revealed that not all testing conformed to the appropriate code requirements. Pursuant to this finding, a program has been initiated whereby all cranes and hoists not already turned over and tested by Supply System's Test and Start-up organization (TSU) are now being retested by Bechtel and TSU.

Reinspection of the Diesel-Generators by TSU is continuing. It is expected that this task and a completion report will be available soon.

E. SPECIAL TASKS

1. Deficiency Document Review

Progress continues on task reports documenting the verification activities accomplished. The examination of procedures governing the processing and use of the various site and contractor documents is continuing to determine:

- o Which documents disseminated technical information to the field?
- o What was the extent of engineering latitude?
- o What reviews for technical adequacy occurred as part of the normal processing?

- o What special reviews for technical adequacy were performed?
- o If audits for procedural compliance were conducted and what the results were?

Documents disseminating technical information which were not subject to examination for technical adequacy may be selected for independent review.

The status of document reviews and contractor document evaluation is summarized in Attachment 1B to this report.

2. Personnel Qualifications

An examination began during this period of personnel qualification reviews conducted under the Restart Program. The results of this examination, combined with similar information from the Project Quality Assurance review, the Deficiency Document review, and the Systems Completion task will be assessed to determine if further investigation is warranted.

3. Receiving Inspection

Bechtel's report on the repeat inspections for material to be installed in System 58 has been reviewed by the QVP offices and returned with comments. The final report is expected to be issued soon.

The examination of receiving inspection reviews performed during Restart Program is continuing. As in the Personnel Qualifications Task, the results of this examination will be combined with similar information from the Systems Completion task and the Project Quality Assurance review for assessment to determine if further investigation is required.

4. Grout Evaluation Program

A report documenting the history, sampling, and results of field testing of in-place grout at WNP-2 has been completed and is being reviewed prior to its transmittal to the NRC. This report establishes that, based on the results of the investigation and evaluation by the Architect-Engineer, the quality of grout is satisfactory for its intended use or has been identified for replacement. This activity is also reported as 10CFR50.55(e) Item 73.

THIRTEENTH PROGRESS REPORT

SUPPLY SYSTEM REVIEW OF PREPURCHASE AND INACTIVE CONTRACTS STATUS REPORT

CONTRACTOR	DESCRIPTION OF CONTRACTOR'S WORK	STATUS OF OWNER FINAL DOCUMENTATION REVIEW (% COMPLETE)	RESULTS OF DOCUMENTATION REVIEW	STATUS OF OWNER EVALUATION ON NEED FOR REINSPECTION (% COMPLETE)
2808-2 General Electric	NSSS	100	No Deficiencies	100
7 Science Systems & Technology	Seepage Control From Ponds	100	No Deficiencies	100
17 Pathway Bellows	Refueling Bellows	100	No Significant Deficiencies	100
18 Farr Company	Standby Gas Treatment & HEPA Filters	100	No Deficiencies	100
22A Joy Manufacturing	HVAC Fans	100	No Significant Deficiencies	100
23 Bryon Jackson	Standby Service Water Pumps	100	No Deficiencies	100
24 HJ100 Inc	Shop Fabricated Tanks	100	No Deficiencies	100
28 Buffalo Forge	HVAC Fans	100	No Significant Deficiencies	100
31A Whiting	Turbine Generator and Reactor Building Cranes	100	Potential Deficiencies, Reinspection Recommended	100
32CD Clayton	JIB Overhead Cranes	100	No Significant Deficiencies	100
35A Crane Co.	Pumps & Motors	100	No Deficiencies	100
36 Acme Concrete	Production & Delivery of Concrete	100	No Significant Deficiencies	100

THIRTEENTH PROGRESS REPORT

SUPPLY SYSTEM REVIEW OF PREPURCHASE AND INACTIVE CONTRACTS STATUS REPORT

CONTRACTOR	DESCRIPTION OF CONTRACTOR'S WORK	STATUS OF OWNER FINAL DOCUMENTATION REVIEW (% COMPLETE)	RESULTS OF DOCUMENTATION REVIEW	STATUS OF OWNER EVALUATION, ON NEED FOR REINSPECTION (% COMPLETE)
41A Velan Valve	Nuclear Valves	100	No Significant Deficiencies	100
41B Anchor/Darlings	Nuclear Valves	100	No Deficiencies	100
42A Fisher Controls	Control Valves	100	No Deficiencies	100
42B Fisher Controls	Control Valves	100	No Significant Deficiencies	100
47A Westinghouse	Switchgear	100	No Deficiencies	100
48 Westinghouse	480 Volt Substation	100	No Deficiencies	100
49 I-T-E Imperial	Motor Control Centers	100	No Significant Deficiencies	100
51A ESB Inc.	Batteries	100	No Deficiencies	100
51B Power Conversion	Battery Chargers	100	No Significant Deficiencies	100
52 Solid State Controls	Uninterruptible Power Supply	100	No Deficiencies	100
53 Stewart Stevenson	Diesel Generators	100	Open Documentation Deficiencies	95
55 Westinghouse	Containment Electrical Penetrations	100	No Significant Deficiencies	99
57 Kinemetrics	Accelerometers	100	No Deficiencies	100

THIRTEENTH PROGRESS REPORT

SUPPLY SYSTEM REVIEW OF PREPURCHASE AND INACTIVE CONTRACTS STATUS REPORT

CONTRACTOR	DESCRIPTION OF CONTRACTOR'S WORK	STATUS OF OWNER FINAL DOCUMENTATION REVIEW (% COMPLETE)	RESULTS OF DOCUMENTATION REVIEW	STATUS OF OWNER EVALUATION ON NEED FOR REINSPECTION (% COMPLETE)
58 Jelco	Instrument Racks	100	No Significant Deficiencies	100
59 GE	Instrument & Control Boards	100	No Deficiencies	100
60A Sentry Equipment Corp.	Sampling and Analysis Systems	100	No Significant Deficiencies	100
62A Okonite	Cable	100	No Deficiencies	100
62B Raychem	Cable	100	No Significant Deficiencies	100
62C Rockbestos	Cable	100	Open Document Deficiencies	99
67 H K Porter	Air Handling Units	100	No Deficiencies	100
68 BIF	Isolation Valves	100	No Significant Deficiencies	100
69 Velan	Check Valves	100	No Significant Deficiencies	100
71 Air Products & Chemicals	Hydrogen Recombiner	100	No Deficiencies	100
73 Elgar	15KVA Inverters	100	No Deficiencies	100
90 Leckenby	Pipe Whip Restraints	100	Deficiencies Identified And Being Corrected thru Management System	99
92A Ingersoll Rand	Sampling Probes	This is an Active Pre-purchase Contract	No Deficiencies	100

THIRTEENTH PROGRESS REPORT
SUPPLY SYSTEM REVIEW OF PREPURCHASE AND INACTIVE CONTRACTS STATUS REPORT

CONTRACTOR	DESCRIPTION OF CONTRACTOR'S WORK	STATUS OF OWNER FINAL DOCUMENTATION REVIEW (% COMPLETE)	RESULTS OF DOCUMENTATION REVIEW	STATUS OF OWNER EVALUATION ON NEED FOR REINSPECTION (% COMPLETE)
92B Kaman Sciences	Vacuum Breaker Valves	This is an Active Pre-purchase Contract	No Deficiencies	100
93 GPE Controls	Vacuum Breaker Valves	100	No Deficiencies	100
94 B F Shaw	MSRV Discharge	100	No Deficiencies	100
12409 Buehler Nuclear Products	BWR High Density Spent Fuel Racks	100	No Significant Deficiencies	100
6426 Wright-Schuchart-Harbor	Interim Construction	90	Results not yet available	25
6809 Bethlehem	Reinforcing Steel	100	No Significant Deficiencies	75
6904 Welk Brothers	Annular Sleeves	100	No Significant Deficiencies	100
6905 Welk Brothers	Skimmer Surge Tank	99	No Significant Deficiencies	90
6912 Pybus	Skimmer Surge Tank	100	No Significant Deficiencies	75
6917 Texas Pipe	Fuel Pool Liner & Accessories	100	No Significant Deficiencies	75
7012 Brand Industrial	Separation System	100	No Significant Deficiencies	75
205 Stewart Erikson	Reactor Building Substructure	100	No Significant Deficiencies	100
206 Bovee Crail	General Construction	100	Open Documentation Deficiencies	95

THIRTEENTH PROGRESS REPORT

SUPPLY SYSTEM REVIEW OF PREPURCHASE AND INACTIVE CONTRACTS STATUS REPORT

CONTRACTOR	DESCRIPTION OF CONTRACTOR'S WORK	STATUS OF OWNER FINAL DOCUMENTATION REVIEW (% COMPLETE)	RESULTS OF DOCUMENTATION REVIEW	STATUS OF OWNER EVALUATION ON NEED FOR REINSPECTION (% COMPLETE)
206A Peter Kiewit	Architectural Const.	99	No Significant Deficiencies	90
207 PDM	Structural Steel	100	No Significant Deficiencies	100
209 Rigging Int.	Rigging of Reactor Pressure Vessel	100	No Deficiencies	100
210 Peter Kiewit	Architectural Const.	99	Open Documentation Deficiencies	90
213 PDM	Primary Containment Vessel	100	No Significant Deficiencies	100
221 PTL	Testing Laboratory	25	Open deficiencies	0
225 McMillin Bros.	Make Up Water Pumphouse	100	No Significant Deficiencies	100
226 Sime	Reactor Building Excavation	100	No Deficiencies	100
233 B F Shaw	Spray Pond Alteration	100	No Deficiencies	100
235 GEI & SE	Reactor Internals Instrument Modifications	100	No Significant Deficiencies	25

THIRTEENTH PROGRESS REPORT

Attachment 18
Page 1 of 4DEFICIENCY DOCUMENT REVIEW SUMMARY
QC - I CONTRACTS

QUALITY CLASS-I SEISMIC-I SITE WORK PERFORMED		SITE DOCUMENTATION SUBJECT TO QVP REVIEW															
Contract	Contractor	PCN		PED		CWR		ECN		RCC		CO		NCR		RFI	
		Review	Status	Review	Status	Review	Status	Review	Status	Review	Status	Review	Status	Review	Status	Review	Status
205*	Stewart-Erickson	Yes	6	E	7	Yes	3	Yes	7	Yes	3	Yes	7	Yes	11	Yes	5
206*	Bovee-Crall	Yes	6	E	7	Yes	3	Yes	7	Yes	3	Yes	7	Yes	11	Yes	4
206A*	Peter Kiewit Sons'	Yes	6	Yes	3	Yes	3	Yes	7	Yes	3	Yes	7	Yes	10	Yes	6
207*	Pittsburgh-Des Moines	Yes	6	Yes	3	Yes	3	Yes	7	Yes	3	Yes	7	Yes	11	Yes	3
209*	Lampson Inc	Yes	6	D	7	Yes	3	Yes	7	Yes	3	Yes	7	D	7	D	7
210*	Peter Kiewit Sons'	Yes	6	Yes	3	Yes	3	Yes	7	Yes	3	Yes	7	Yes	11	Yes	7
210A	Peter Kiewit Sons'	Yes	6	B	7	Yes	3	Yes	7	Yes	3	Yes	7	B	7	B	7
6426*	Wright Schuchart Harbor	Yes	6	E	7	Yes	3	Yes	7	Yes	3	Yes	7	Yes	11	Yes	3
213*	Pittsburgh-Des Moines	Yes	6	Yes	3	Yes	3	Yes	7	Yes	3	Yes	7	Yes	11	Yes	6
213A*	Pittsburgh-Des Moines	Yes	6	Yes	3	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	7
215	WSH/Boecon/GERI	Yes	6	Yes	3	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	9
216	Waldinger	Yes	6	Yes	3	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	7
217	Sentry	Yes	6	Yes	3	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	7
218	Fischbach/Lord	Yes	6	Yes	3	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	7
219	O.B. Cannon	Yes	6	Yes	3	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	7
220	Johnson Controls	Yes	6	Yes	3	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	7
221*	Pacific Testing Labs	Yes	6	E	7	Yes	3	Yes	7	Yes	3	Yes	7	Yes	11	A	-
221A	Pacific Testing Labs	Yes	6	D	7	Yes	3	Yes	7	Yes	3	Yes	7	D	7	D	7
225*	McMillan Brothers	Yes	6	D	3	Yes	3	Yes	7	Yes	3	Yes	7	Yes	10	Yes	6
226	Sime Construction Co.	Yes	6	E	7	Yes	3	Yes	7	Yes	3	Yes	7	Yes	3	Yes	3
233*	BF Shaw	Yes	6	Yes	3	Yes	3	Yes	7	Yes	3	Yes	7	Yes	11	Yes	3
234	O.B. Cannon	Yes	6	Yes	3	Yes	3	Yes	7	Yes	3	Yes	7	Yes	11	Yes	7
235	GE IS&E	Yes	6	D	7	Yes	3	Yes	7	Yes	3	Yes	7	D	7	D	7

NOTES:

- A - Review not commenced
- B - No QC-I Work performed prior to 7/80
- C - Special Review
- D - No QC-I or QC-II/SC-I Documentation closed prior to 7/80
- E - Document not used for this contract
- F - Document reviewed under CAR 1475
- * - Denotes Inactive Contract
- + - Numbers indicate action in Flow Chart, Page 4

LEGEND:

- PCN - Project Change Notice
- PED - Project Engineering Directive
- NCR - Nonconformance Report
- RFI - Request For Information
- ECN - Engineering Change Notice
- CWR - Contractor Waiver Request
- RCC - Request for Contract Change
- C.O. - Change Order

THIRTEENTH PROGRESS REPORT

Attachment 18
Page 2 of 4DEFICIENCY DOCUMENT REVIEW TASK
NONCONFORMANCE REPORT (NCR)
REVIEW SUMMARY

CONTRACT	CONTRACTOR	CONTRACT ACTIVITY	NO. OF NCR'S CLOSED PRIOR TO 7/80	SAMPLE	DISCREPANCIES IDENTIFIED REQUIRING CLARIFICATION	CLARIFICATION PROVIDED - NCR CLEARED	REMARKS
205*	Stew-Erikson	Rx Bldg. Substructure	31	4	0	-	
206*	Bovee-Crall	General Construction	417	42	0	-	
206A*	Peter Kiewit Sons'	Arch. Construction	387	39	A	A	
207*	Pittsburgh-Des						
	Moines Steel Co.	Structural Steel	32	3	1	1	
209*	Lampson Inc.	Rigging of Reactor Pressure					
		Vessel	2	0	-	-	
210*	Peter Kiewit Sons'	Arch. Construction	41	5	0	-	
210A	Peter Kiewit Sons'	Arch. Construction	8	8	-	-	
6426*	Wright Schuchart						
	Harbor	Interim General Construction	113	11	0	-	
213*	Pittsburgh-Des						
	Moines Steel Co.	Primary Cont Vessel	104	10	1	1	
213A*	Pittsburgh-Des						
	Moines Steel Co.	Primary Cont Vessel Retrofit	75	10	1	1	
215	WSH/Boecon/GERI	Mechanical Construction	1016	126	11	11	
216	Waldinger	HVAC, Plumbing	420	49	14	14	
217	Sentry	Fire Protection	3	1	0	-	
218	Fischbach/Lord	Electrical Construction	375	37	6	6	
219	O.B. Cannon	Special Coatings	13	2	0	-	
220	Johnson Controls	Instrumentation	27	3	0	-	
221*	Pacific Testing Lab	Testing	6	1	0	-	
221A	Pacific Testing Lab	Testing	8	8	-	-	
225*	McMillan Brothers	Makeup Water Pump House	24	2	A	A	
233*	BF Shaw	Spray Pond Alterations	4	1	0	-	
234	O.B. Cannon	Wetwell Coating	4	1	0	-	
235	OE IS&E	I&C Board Modification	8	8	-	-	
			3094	347	A	A	

*Inactive Site Contract

A: Review in progress, final data not available at this time.

B: No QC-1 NCR's closed prior to 7/80

THIRTEENTH PROGRESS REPORT

Attachment 1B

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DEFICIENCY DOCUMENT REVIEW SUMMARY

QC - I CONTRACTS

QUALITY CLASS-I SEISMIC-I SITE WORK PERFORMED		CONTRACTOR DOCUMENTATION SUBJECT TO QVP REVIEW					
		INTERNAL DOCUMENTS					
Contract	Contractor	DO	Review	Status+	DCD	Review	Status+
205*	Stewart-Erickson	NCR	Yes	Complete	None	-	Complete
206*	Bovee-Crail	IR	Yes	3	NCR	Yes	3
206A*	Peter Kiewit Sons'	IR	Yes	3	None	-	-
207*	Pittsburgh-Des Moines		Yes	3		Yes	3
209*	Lampson Inc		D	Complete		D	Complete
210*	Peter Kiewit Sons'	IR	Yes	Complete	None	-	Complete
210A	Peter Kiewit Sons'	N/A	B	Complete	N/A	B	Complete
6426*	Wright Schuchart Harbor		Yes	5		Yes	15
213*	Pittsburgh-Des Moines	CAR	Yes	3	ECAR	Yes	3
213A*	Pittsburgh-Des Moines	CAR	Yes	Complete	ECAR	Yes	Complete
215	WSH/Boecon/GERI	IR	Yes	Complete	FCR	C	Complete
216	Waldinger	DR	Yes	9	DR	Yes	9
217	Sentry	IR	D	Complete	IR	D	Complete
218	Fischbach/Lord	IR	Yes	Complete	IR	Yes	Complete
219	O.B. Cannon	IR	Yes	Complete	None	-	Complete
220	Johnson Controls	ISR	Yes	Complete	JFRN	Yes	Complete
221*	Pacific Testing Labs		Yes	Complete		Yes	Complete
221A	Pacific Testing Labs		D	Complete		D	Complete
225*	McMillan Brothers	ICL	Yes	5	CAR	Yes	5
226	Sime Construction Company		Yes	3		Yes	3
233*	BF Shaw		A	-		A	-
234	O.B. Cannon	IR	Yes	Complete	None	-	Complete
235	GE IS&E	QR	Yes	6	None	-	-

NOTES:

- A - Review not commenced
- B - No QC-I Work performed prior to 7/80
- C - Special Review
- D - No QC-I or QC-II/SC-1 Documentation closed prior to 7/80
- DO - Deficiency Document
- DCD - Design Change Document
- * - Denotes Inactive Contract
- + - Numbers indicate action in Flow Chart, Page 4

LEGEND:

- IR - Inspection Report
- CAR - Corrective Action Report
- DR - Deficiency Report
- ISR - Inspection Surveillance Report
- QR - Quality Report
- ECAR - Engineering Corrective Action Report
- FCR - Field Change Request
- JFRN - Johnson Controls Field Request Notice

THIRTEENTH PROGRESS REPORT
FLOW CHART FOR REVIEW OF
CONTRACTOR INTERNAL DOCUMENTATION

