

Washington Public Power Supply System

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April 26, 1983

Docket Number 50-397
G02-83-366

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

Mr. J. D. Martin, Regional Administrator
Nuclear Regulatory Commission, Region V
1450 Maria Lane, Suite 210
Walnut Creek, California 94596

Subject: SUPPLY SYSTEM NUCLEAR PROJECT NO. 2
FOURTEENTH 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 fourteenth Progress Report on the actions we have taken in regard to our commitments in Reference a). This quarterly report covers the period of January through March 1983.

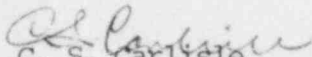
Sample verification reinspections of work completed prior to July, 1980 by active site contractors have been completed. All of the contractors except Bechtel have submitted final reports; only two remain to be approved. Bechtel's work was far more extensive, and the reports are not yet complete. The status of individual tasks is detailed in the attachments.

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J. D. Martin
April 26, 1983
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Please contact me if you have any questions on this matter.


C. S. Carlisle
Program Director, WNP-2

CSC:RLK:EEK

- 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

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FOURTEENTH 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 January, February and March, 1983. Reinspection of hardware installed in the plant by active site contractors and selected for reverification is complete, and the results of these reinspections are being evaluated. As the review of prepurchase and inactive (PP&IA) contract records approached completion, problems were identified indicating a possible need for verification reinspection of work installed by closed site contracts. Investigation and reinspections have been initiated. Several contract reports covering the contractors' activities have been completed, others are in progress.

B. GENERAL INFORMATION

1. An audit of the Quality Verification Program was performed by the Supply System's Corporate Quality Assurance organization in January. This audit covered activities defined as commitments to the NRC as a result of the 10CFR50.54(f)-response letter and subsequent modifications. Four quality finding reports (no significant deficiencies) resulted from the audit. The QVP office responded to them with the appropriate adjustments to procedure, as follows:

- RCSW-11, RCSW Program Manual Administration

This internal office procedure was revised to include the requirement that internal QVP office procedures covering quality-affecting activities be reviewed and approved by the Project QA Manager.

- RCSW-12, Documentation Control

This internal office procedure was revised to clarify certain requirements (update) and to secure approval by the Project QA Manager.

- QVI-07, Active Site Contracts Evaluation & Selection For Reinspection

This QVP instruction was revised to clarify its exclusive purpose of recording decisions not to reinspect certain active site contracts.

2. An NRC inspection team of five senior personnel performed a review of QVP activities during the week of February 13. The team's review covered all elements of the QVP regarding our response actions to the original 10CFR50.54(f) request and subsequent commitments. The results of the team's review, eleven issues on which further information was required to confirm satisfactory action by the Supply System, were discussed at a meeting with Region V personnel on March 17. Of the eleven issues identified, we had provided additional clarification for seven and committed to additional action for four. The additional action consists of:

- Identifying Changes in Commitments

The Supply System will revise its commitment summary document (dated July, 1982, sent to you in the Eleventh Progress Report, G02-82-544, dated 8/09/82) to record in general terms, the methods by which 50.54(f)-response-letter commitments have been addressed, identifying any changes made in the original commitments.

- Strengthening Review of PP&IA Contracts

The Supply System will initiate a special review of PP&IA contracts to determine what plant components have special importance or are unique and deserve special attention. The review will include a "boiling down" of critical components which should be reviewed or reinspected, regardless of other indicators to the contrary, an accounting of previous coverage by other programs, and a review of pertinent procedures, specific to the selected components. If not satisfactorily addressed, these special items will be reinspected for specific attributes determined to be relevant to the special nature of the components.

3. During this reporting period, the staff levels have been increased in the QVP office by one and the Bechtel Reverification Group (BRG) by three. BRG has added two technical writers and another engineer. The QVP office replaced an analyst lost through attrition in the last report period. Also, the Bechtel home office assigned a part-time statistician to assist BRG in analyzing and reporting trends of reinspection results.
4. In addition to the QVP instruction revisions accomplished in response to the Corporate QA audit, two other procedures were revised during this report period:

- QVI-08, Reverification Inspection Team Concept

This instruction was revised to clarify the actions required by team members to justify and record the results of reinspections.

- QVI-09, Special Structural Steel Reinspection Criteria

This instruction now incorporates a revised engineering justification for the inspection criteria, and a minor revision to the criteria.

C. SYSTEMS COMPLETION

1. The following is a brief report for each of the active site contractors' reverification activities:

- Contract 210A, Peter Kiewit Sons - Complete, reported earlier.
- Contract 213A, Pittsburg-DesMoines Steel - Complete, reported earlier.
- Contract 215/250, WBG/Bechtel - Reinspection of all contract 215 hardware items selected for reverification has been completed. The following is a summary of work during this report period:
 - Containment Drywell Structural Steel - All reinspections of pipe whip supports and structural steel were completed in the previous report period. Reinspection of two beam-seat connections to the sacrificial shield wall structure revealed dimensional configurations that did not comply with the latest drawing. This original sample was increased to include two remaining beam seats of this type. Results of the latest inspection are being evaluated by the Architect-Engineer (A/E).
 - Startup Systems - Sample hardware reinspections were completed in the previous report period. Thirty-five system reports have been written by the BRG and approved by Bechtel QA. Reinspection results for the remaining two systems will be evaluated and the reports completed as four outstanding NCR's on these systems are addressed by the A/E.
 - QCIR Review - The QCIR (Bechtel's QC Inspection Report) review, initiated in the last report period for the purpose of addressing a concern about one engineer's performance in this program, has been completed. Although a few of the QCIR's were converted to NCR's for administrative purposes, no evidence of technical inadequacy has been identified.
 - Contract Reverification Report - Preparation of the overall contract report for 215 is approximately 75% complete. The parts remaining to be completed are those sections dealing with compilation and evaluation of the reinspection results.
- Contract 216, The Waldinger Corporation - Complete, reported earlier. An addendum to the reverification report was prepared to clarify a few areas in the text. This addendum will be issued in the next report period.

1. (Continued)

- Contract 217, Sentry - Complete, reported earlier. Some areas of weakness in the final report, identified by the NRC Resident Inspector, have been addressed and remedied by incorporating an addendum into the report. The addendum was prepared, reviewed, and approved during this report period, and published at the beginning of April.
 - Contract 218, Fischbach/Lord (F/L) - The draft of the final report for this contract has been under review and iteration by the QVP office and BRG. The BRG has prepared the Bechtel Summary for the report, covering Bechtel and Supply System activities in verifying electrical construction work. Review and approval of the contract 218 report are expected to be complete in the next report period.
 - Contracts 219/234, O.B. Cannon - Complete, reported earlier. In the Technical Audit Associates (TAA) review of the final reports of these contracts, a request was made to clarify that reinspection of coating work in the containment wetwell and drywell areas resulted in rejection and rework of a significant portion of prior work. Revisions to these reports are being prepared for this purpose.
 - Contract 220, Johnson Controls, Inc. - The final reverification report for this contract had been completed and reviewed by BRG at the time of the Corporate QA audit, discussed in GENERAL Item 1. As a result of Supply System review, a number of additional Bechtel QC surveillance reports of the contractor's activities have been included in the final report. Review by the QVP office is still in progress.
2. In addition to the individual contract reports covering this element of the program, an overall Systems-Completion Task Report is being prepared to summarize the reverification work accomplished for all active site contracts. Preparation of the first draft of this report has begun.

D. PREPURCHASE AND INACTIVE CONTRACTS

1. Document reviews on all prepurchase and inactive contracts have been completed with one exception. One outstanding purchase order contract was identified in a recently-completed review conducted by the QVP office to assure that no eligible contracts (QC-I/SC-I) were overlooked by QVP. This addition, contract 7426, has been entered in the status report (Attachment 1A to this report). The preparation of the overall task report of this element of the program has begun.

2. During this report period, as a result of the PQA document review, the QVP identified a need for reinspection of contract 206 welded structural steel. The total population of this work was identified, random samples were selected, and reinspections are in progress. A re-review of pertinent documentation is being carried out at the same time to ascertain that the hardware and records match, and to identify the specific nature of discrepancies, if they should be encountered.

Contract 206 (Bovee-Crail) was the original contract responsible for general construction (concrete, structural steel, etc.) of the Reactor Building and other buildings. One specific area of this contract was not satisfactorily addressed by other reviews in the program: structural steel installed by a specific subcontractor, which is the work being reinspected at this time.

Since contract 206 was terminated by default, we consider it necessary to investigate the possibility that follow-on construction of the same type could have similar problems as those discussed above. To assure that such follow-on construction is satisfactorily verified, we have initiated a review of concrete and structural steel construction accomplished under other contracts after default of 206, which were to complete the original work scope of 206. The results of this review will be included with the information in our final reports. If a need for reinspection arises from the review, it will be performed, as was the contract 206 inspection discussed above, in accordance with our Program procedures.

3. Reinspection of the diesel-generators by the Supply System Test and Startup organization (T&SU) has been completed and a report of their activities has been issued. The results show that the majority of deficiencies identified were of a minor nature with no significant trends apparent. The open deficiencies are being addressed by T&SU and/or Burns & Roe Engineering for resolution.

E. SPECIAL TASKS

1. Deficiency Document Review

Progress continues on task reports documenting the reviews to verify the technical adequacy of site documents which disseminated technical information to construction contractors. Individual reports are being prepared for eight such documents. Three reports have been prepared and are under review, three are being prepared, and the document and procedure review is nearly complete on the remaining two.

On our review of contractors' internal documentation, the document and procedure review has been completed for nearly all active contracts and continues for inactive contracts. Preparation of reports of these activities and their results will follow.

At this writing, the preliminary results of our Program reviews of technical documents indicate that 1) some documents received an independent review for technical adequacy as a matter of procedure; these have been evaluated to meet the objectives of this Program, or 2) where this did not occur, an independent review was performed by this Program; no dispositions were identified to be technically inadequate.

The status of our reviews is summarized in the charts comprising Attachment 1B to this report.

2. Personnel Qualifications

The examination of personnel qualifications reviews conducted under the Restart Program continued during this period. The results of this examination, combined with similar information from reviews performed in the QVP, will be assessed to determine if further investigation is warranted. An analysis of the Deficiency Document Review results for engineering personnel employed by both the A/E and the construction contractors began during this period.

3. Receiving Inspections

A preliminary outline for the final report of this task was prepared during this report period. In addition to information on repeat receiving inspections of contract 215 ASME materials performed by Bechtel, this report will include data generated when Bechtel assumed responsibility for the Supply System warehouses and performed another complete receiving inspection on all items. The examination of receiving inspection reviews performed during the Restart Program is continuing. As in the Personnel Qualifications Task, the results of this examination will be combined with similar information from other reviews in this program for assessment to determine if further investigation is required.

4. Grout Evaluation Program

Complete, reported earlier.

FOURTEENTH 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 Study	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 Byron Jackson	Standby Service Water Pumps	100	No Deficiencies	100
24 HUICO 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	Deficiencies resolved, Reinspection Completed	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

FOURTEENTH 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/Darling	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	Documentation Deficiencies Being Addressed, Reinspection Completed	99
55 Westinghouse	Containment Electrical Penetrations	100	No Significant Deficiencies	99
57 Kinometrics	Accelerometers	100	No Deficiencies	100

FOURTEENTH 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)
5C 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	Electrical Cable	100	No Deficiencies	100
62B Raychem	Electrical Cable	100	No Significant Deficiencies	100
62C Rockbestos	Electrical Cable	100	Deficiencies Resolved	100
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 Corrected thru Action Plan	99
92A Ingersoll Rand	Sampling Probes	This is an Active Pre-purchase Contract	No Deficiencies	100

FOURTEENTH 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	Radiation Monitoring	This is an Active Pre-purchase Contract	No Deficiencies	99
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	100	No Significant Deficiencies Special Scoping Review in Progress	95
6809 Bethlehem	Reinforcing Steel	100	No Significant Deficiencies	99
6904 Welk Brothers	Annular Sleeves	100	No Significant Deficiencies	100
6905 Welk Brothers	Skimmer Surge Tank	100	No Significant Deficiencies	99
6912 Pybus	Structural Steel	100	No Significant Deficiencies	99
6917 Texas Pipe	Pipe Spools	100	No Significant Deficiencies	99
7012 Brand Industrial	Form Separation System	100	No Significant Deficiencies	99
7426 Northwest Copper	Exhaust Duct	95	No Significant Deficiencies	10
205 Stewart Erikson	Reactor Building Substructure	100	No Significant Deficiencies	100

FOURTEENTH 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)
206 Bovee Crail	General Construction	100	Potential Deficiencies Reinspections of Struc. Stl. Recommended	95
206A Peter Kiewit	Architectural Const.	100	No Significant Deficiencies Special Scoping Review in Progress	95
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.	100	Open Documentation Deficiencies Resolved, Special Scoping Review in Progress	95
213 PDM	Primary Containment Vessel	100	No Significant Deficiencies	100
221 PTL	Testing Laboratory	100	Open Deficiencies Being Resolved thru Corrective Action Process	99
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	99

FOURTEENTH PROGRESS REPORT

Attachment 1B

Page 1 of 4

DEFICIENCY 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	7	E	7	E	7	Yes	7	Yes	7	Yes	7	Yes	11	Yes	5
206*	Bovee-Crall	Yes	7	E	7	Yes	7	Yes	7	Yes	7	Yes	7	Yes	11	Yes	4
206A*	Peter Kiewit Sons'	Yes	7	Yes	7	E	7	Yes	7	Yes	7	Yes	7	Yes	11	Yes	6
207*	Pittsburgh-Des Moines	Yes	7	Yes	7	Yes	7	Yes	7	Yes	7	Yes	7	Yes	11	Yes	3
209*	Lampson Inc	Yes	7	D	7	Yes	7	Yes	7	Yes	7	Yes	7	D	7	D	7
210*	Peter Kiewit Sons'	Yes	7	Yes	7	Yes	7	Yes	7	Yes	7	Yes	7	Yes	11	Yes	7
210A	Peter Kiewit Sons'	Yes	7	B	7	E	7	Yes	7	Yes	7	Yes	7	B	7	B	7
6426*	Wright Schuchart Harbor	Yes	7	E	7	Yes	7	Yes	7	Yes	7	Yes	7	Yes	11	Yes	3
213*	Pittsburgh-Des Moines	Yes	7	Yes	7	E	7	Yes	7	Yes	7	Yes	7	Yes	11	Yes	6
213A*	Pittsburgh-Des Moines	Yes	7	Yes	7	E	7	Yes	7	F	7	Yes	7	Yes	11	Yes	7
215	WSH/Boecon/GERI	Yes	7	Yes	7	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	11
216	Waldinger	Yes	7	Yes	7	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	7
217	Sentry	Yes	7	Yes	7	F	7		7	F	7	Yes	7	Yes	11	Yes	7
218	Fischbach/Lord	Yes	7	Yes	7	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	7
219	O.B. Cannon	Yes	7	Yes	7	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	7
220	Johnson Controls	Yes	7	Yes	7	F	7	Yes	7	F	7	Yes	7	Yes	11	Yes	7
221*	Pacific Testing Labs	Yes	7	E	7	Yes	7	Yes	7	Yes	7	Yes	7	Yes	11	A	-
221A	Pacific Testing Labs	Yes	7	D	7	E	7	Yes	7	Yes	7	Yes	7	D	7	D	7
225*	McMillan Brothers	Yes	7	D	7	Yes	7	Yes	7	Yes	7	Yes	7	Yes	10	Yes	6
226	Sime Construction Co.	Yes	7	E	7	E	7	Yes	7	Yes	7	Yes	7	Yes	7	Yes	3
233*	IBF Shaw	Yes	7	Yes	7	Yes	7	Yes	7	Yes	7	Yes	7	Yes	11	Yes	3
234	O.B. Cannon	Yes	7	Yes	7	E	7	Yes	7	Yes	7	Yes	7	Yes	11	Yes	7
235	GE IS&E	Yes	7	D	7	E	7	Yes	7	Yes	7	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-1 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

FOURTEENTH PROGRESS REPORT

Attachment 1B
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-Crail	General Construction	417	42	0	-	
206A*	Peter Kiewit Sons'	Arch. Construction	387	39	4	A	3 Clarifications Are Under Review By The Supply System Engineering
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	15	15	
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	1	1	
233*	BF Shaw	Spray Pond Alterations	4	1	0	-	
234	O.B. Cannon	Wetwell Coating	4	1	0	-	
235	GE IS&E	I&C Board Modification	8	8	-	-	
			3094	347	40	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

FOURTEENTH PROGRESS REPORT

Attachment 1B
Page 3 of 4DEFICIENCY DOCUMENT REVIEW SUMMARY
QC - I CONTRACTS

QUALITY CLASS-I SEISMIC-I SITE WORK PERFORMED		CONTRACTOR DOCUMENTATION SUBJECT TO QVP REVIEW					
Contract	Contractor	INTERNAL DOCUMENTS					
		DD	Review	Status+	DCD	Review	Status+
205*	Stewart-Erickson	NCR	Yes	Complete	None	-	Complete
206*	Bovee-Crall	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	5
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-I Documentation closed prior to 7/80
- DD - 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

FOURTEENTH PROGRESS REPORT

FLOW CHART FOR REVIEW OF
CONTRACTOR INTERNAL DOCUMENTATION

