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# Washington Public Power Supply System

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1 JE-01

REGION VIAE

July 18, 1983

Docket Number 50-397 G-02-83-618

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

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

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

Reference: GO2-80-153, N.O. Strand to USNRC, "WPPSS Nuclear a) 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 fifteenth Progress Report on the actions we have taken in regard to our commitments in Reference a). This quarterly report covers activities of our Quality Verification Program during the period of April through June 1983.

During the month of June, two important interface meetings occurred between the Supply System and the Region V. As a result of these meetings, the Supply System committed to perform additional verification tasks. These are discussed along with our general progress in the attachments.

8308030021 830718 PDR ADOCK 0500039 PDR J.B. Martin Page 2

Please contact me if you have any questions on this matter.

Cel Contile 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
- cc: WS Chin, BPA Richland, WA
  - JA Forrest, B&R Richland, WA
  - PE Grady, BPA WNP-2
  - JB Knotts, Jr., Debevoise & Liberman, Washington, DC
  - ND Lewis, EFSEC, Olympia, WA
  - TA Mangelsdorf, Bechtel WNP-2
  - A Toth, NRC, Resident Inspector, WNP-2
  - JJ Verderber, B&R, Woodbury, NY

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## FIFTEENTH 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 April, May, and June, 1983. Reinspection of welded structural steel installed by an inactive contractor, initiated in the previous report period, has been completed. Our special review of prepurchase and inactive (PP&IA) contracts, designed to strengthen confidence in the adequacy of work produced by those contractors, was initiated during this report period. However, the depth of this review was questioned by the NRC prior to completion, and additional work was initiated. The analysis of results of previously-completed reinspections of active contractors' work continues along with preparation of reports. Our review and reporting of Engineering and QC documents for Special Tasks continues.

# B. GENERAL INFORMATION

- In our last progress report, an additional action of revising our commitment summary to record general information and identify changes was discussed. During this report period Letter No. G02-83-339, dated April 18, 1983, was sent with a revised summary of commitments for your information and use.
- 2. A presentation of QVP results and status was made to NRC-Region V representatives at Walnut Creek on June 7, 1983, as part of a general WNP-2 Project status presentation. During the meeting several questions/issues were discussed and eight specific issues arose which were further addressed by the Supply System at a meeting with Region V representatives at the Project Site on June 21, 1983. These are enumerated below:
  - Hardware supplied under prepurchase contracts and work performed by inactive contractors may not have been sampled for reinspection.
  - (2) Define the logic for sample selection and distribution of the sample size for active contracts. Include consideration of the time period when work was accomplished.
  - (3) Provide the basis for judging the acceptability of contractors' past work based on QVP results.

- (4) Define the methodology for evaluating the results of review and reinspection in determining the need, if any, for expansion of sample size.
- (5) Describe the program for evaluation of NDE contractors' work, including the consideration of sampling vendor radiographs.
- (6) Prepurchase and inactive contractors' procedures may not have been examined for technical adequacy.
- (7) It would be desirable for the NRC to review the planned content of the final QVP Summary Report.
- (8) The impact of the NRC Construction Assessment Team's findings should be considered in the conclusions reached by the QVP.

At the June 21 meeting, information was provided in order to satisfy issues, 2, 3, 4, and 7. Information was also provided to describe three commitments made at the meeting to address issues 1, 5, 6, and 8. These commitments are:

- The special PP&IA review program, originally designed to assure our document-review-oriented program was satisfactory, is being extended to address issues 1 and 6.
- An NDE reverification program is being initiated to address issue 5.
- A comparison of the Construction Assessment Team's findings with QVP results will be made and analyzed to address issue 8.

Information pertaining to all eight issues will be included in the QVP Overview Report.

3. The schedule for completion of the QVP was also discussed in the June 21 meeting. As a result of the new commitments, our reports will be delayed beyond original plans.

Our original intent was to complete the lower-level detailed reports first, then the intermediate-level task reports, and finally the Overview Report. Because the task reports will include summary and general information, somewhat similar to the Overview Report, we now intend to prepare the Overview Report as soon as the detailed reports are complete. This will afford the opportunity for NRC Region V review of QVP results while the specific task reports are being completed by the Supply System.

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We are developing a new schedule for completing QVP activities in a manner which provides the Overview Report, an outline of which was furnished at the June 21 meeting, to you approximately September 1. Completion of the intermediate-level task reports will follow.

4. Technical Audit Associates (TAA) performed an audit of the QVP on April 29, 1983, and listed two "findings" in an audit report dated May 16, 1983. These findings were both related to contract 215 equipment installation reinspection, which was not part of the scope of QVP. A response explaining how equipment reinspection is covered by the Project was sent to TAA on May 26, 1983.

#### C. SYSTEMS COMPLETION

- 1. The following is a brief report for each of the active site contract reverification activities:
  - Contract 210A, Peter Kiewit Sons Complete, reported earlier.
  - <u>Contract 213A, Pittsburgh-Des: Joines Steel</u> Complete, reported earlier. The Reverification Report for this contract was reviewed by an NRC Region V representative during the report period.
  - Contract 215/250, WBG/Bechtel The following is a summary of work during this report period:
    - Startup Systems The remaining two (of thirty-seven) system reports were completed by the Bechtel Reverification Group (BRG) and approved by Bechtel QA. These documents complete the reporting of detailed hardware reinspection results for contract 215.

Previously-completed system reports are being updated and clarified to accommodate new information. Twenty-nine such revisions are being made and will be issued with the contract 215 Reverification Report.

- Structural Steel - A report, similar to the system reports, for the reinspection of contract 215 structural steel construction was completed by the BRG and approved by BQA. The report records that a "low incidence of unacceptable findings and the minor nature of the individual defects when evaluated with respect to the magnitude of welding and weld patterns specified in the design" provide a high level of confidence in the safety and quality of the contract 215 structural steel.

- Results Analysis Analysis of all of the contract 215 reinspection results by BRG and the A/E began during the report period. Based on comments received from the Resident Inspector, this work is being extended in detail to determine the possibility of component failure which could result from deficiencies identified in our reinspections.
- Contract 215 Reverification Report A draft of this report is being prepared by BRG to cover the reinspections, the system reports, related program evaluations, the structural steel report, analysis of results, and overall conclusions drawn from these activities. The majority of sections for this report are currently under review by BQA and the QVP office. The remaining sections will be prepared upon completion of the results analysis.
- <u>Contract 216, The Waldinger Corporation</u> Complete, reported earlier. An addendum to the reverification report has been completed, reviewed, approved, and distributed in late April.
- Contract 217, Sentry Complete, reported earlier.
- <u>Contract 218, Fischbach/Lord (F/L)</u> The draft of the final reverification report has been reviewed by BQA and the QVP office during this report period. In response to Region V's issue (2), discussed in General Item 2., the BRG has compiled information on the time distribution of the reinspection sample. This information is being incorporated into the report.
- Contracts 219/234, O. B. Cannon Complete, reported earlier. In response to the Technical Audit Associates' (TAA) request to clarify coating reinspection which resulted in rework, Revision #1 to these contract reports have been issued.
- Contract 220, Johnson Controls, Inc. The final reverification report has been reviewed, approved, and issued in early May.

# D. PREPURCHASE AND INACTIVE CONTRACTS

 With the completion of the documentation review for contract 7426, Northwest Copper, all originally-planned documentation reviews for the prepurchase and inactive contracts are complete. Contract 7426 is being evaluated by the QVP office. The status report (Attachment IA to this report) has been updated to reflect the current prepurchase and inactive contract review status. The overall task report is currently in progress and nearing completion.

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2. During this report period, the contract-206 welded-structural-steel reinspection was completed and the final report of those activities is underway.

The review and evaluation of the follow-up contracts, contracts 206A (Peter Kiewit), 210 (Peter Kiewit) and 6426 (Wright-Schuchart-Harbor, interim contract), completed the contract 206 (Bovee-Crail) work. Reports of those activities have been prepared and are under review at the QVP office.

3. A special review of the critical components for WNP-2 provided by prepurchase and inactive (PP&IA) contracts was initiated in this report period. A list of these critical components was developed by Project Engineering, from which a sample was selected for review. This resulted in a sample of quality records, vendor qualifications and technical adequacy of procedures for components in 20 of the 62 PP&IA contracts being reviewed. A field verification walkdown of this hardware was performed to confirm that components were accurately represented by the records. Reinspection of components has not yet been accomplished.

Procedures for this program and the review results were examined by an NRC Region V representative, and the program was discussed at the June 7 Region V meeting. As a result of our discussions, it was decided to reconsider the list of 62 PP&IA contracts for possible additional review. This additional review is being conducted in four parts, any or all of which may be applied to a particular contract or component. The review strengthens previous assessments of work adequacy and assures attention to our commitment to address the need for reinspection even though the records indicate the hardware is adequate, as discussed in item B.2. of this report. The four parts of our additional verification review are:

- Review of Vendor Qualifications
- Review of Technical Adequacy of Vendor Procedures
- Review of Quality Documentation
- Sample Reinspection of Installed Components (including components from the 20 contracts discussed above)
- E. SPECIAL TASKS
  - 1. Deficiency Document Review All procedure and document reviews for site documents identified under this task have been completed. Progress continues on the preparation of reports verifying the technical adequacy of those documents which disseminated design change

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information to contractors. Of eight types of documents examined, the reports on two have been reviewed and approved, one report is in final draft following review, and drafts of the remaining five are underway. No trends of technically inadequate document dispositions have been demonstrated.

The review of contractors' internal documentation and procedures has been completed on eighteen of twenty-three contracts identified. The review of the remaining five contracts is approximately 75% complete and is expected to be completed early in the next report period.

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

- 2. <u>Personnel Qualifications</u> 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 was completed during this period, and preparation of the report began.
- 3. Receiving Inspections No progress during this report period.
- 4. Grout Evaluation Program Complete, reported earlier.
- 5. Evaluation of Concrete Quality Records Early in the report period, it was decided that, since visual nondestructive inspection of concrete would generally not provide enough information to determine the quality or adequacy of concrete, a special technical review of concrete quality records was initiated. Such a review was considered to be useful in assessing the adequacy of concrete installed prior to the stop work order of July, 1980. This review will be reported as a fifth special task.

The task includes: 1) A review of procedures for formwork, reinforcing steel, and concrete placement; deficiencies identified on nonconformance reports and corrective action documents during the construction; and QC inspection records; 2) analysis of the review results to determine if significant problems exist; and 3) preparation of a report.

The technical reviews have been completed and the analysis and report preparation are well underway, with completion estimated at 90%.

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#### FIFTEENTH PROGRESS REPORT

| CON TRACTOR                | DESCRIPTION OF<br>CONTRACTOR'S WORK                | STATUS OF OWNER FINAL<br>DOCUMENTATION REVIEW<br>(% COMPLETE) | RESULTS OF DOCUMENTATION REVIEW                     | STATUS OF OWNER EVALUATION<br>ON NEED FOR REINSPECTION<br>(% COMPLETE) |
|----------------------------|--|---|---|--|
| 808-2 General Electric     | NSSS   | 100   | No Deficiencies                                     | 100  |
| 7 Battelle                 | Meteorological Study                               | 100   | No Deficiencies                                     | 100  |
| 17 Pathway Bellows         | Refueling Bellows                                  | 100   | No Significant Deficiencies                         | 100  |
| 18 Fari Company            | Standby Gas Treatment<br>& HEPA Filters            | 100   | No Deficiencies                                     | 100  |
| 22A Joy Manufactur-<br>ing | HVAC Fans  | 100   | No Significant Deficiencies                         | 100  |
| 23 Byron Jackson           | Standby Service Water<br>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 I<br>Reactor Building Cranes | 100   | Deficiencies resolved, Rein-<br>Ispection 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<br>of Concrete               | 100   | No Significant Deficiencies                         | 100  |

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#### FIFTEENTH PROGRESS REPORT

| CONTRACTOR                 | DESCRIPTION OF<br>CONTRACTOR'S WORK    | STATUS OF OWNER FINAL<br>DOLUMENTATION REVIEW<br>(% COMPLETE) | RESULTS OF DOCUMENTATION REVIEW                                       | STATUS OF OWNER EVALUATION<br>ON NEED FOR REINSPECTION<br>(% COMPLETE) |
|----------------------------|--|---|---|--|
| 41A Velan Valve            | Nuclear Valves                         | 100   | Mo Significant Deficiencies   | 100  |
| 418 Anchor/Darling         | Muclear Valves                         | 100   | No Deficiencies   | 100  |
| 42A Fisher Controls        | Control Valves                         | 100   | No Deficiencies   | 100  |
| 428 Fisher Controls        | Control Valves                         | 100   | <br> 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  |
| 518 Power Conversion       | Battery Chargers                       | 100   | No Significant Deficiencies   | 100  |
| 52 Solid State<br>Controls | Uninterruptible Power<br>Supply        | 200   | No Deficiencies   | 100  |
| 53 Stewart<br>Stevenson    | Diesel Generators                      | 100   | Documentation Deficiencies Being<br>Addressed, Reinspection Completed | 100  |
| 55 Westinghouse            | Containment Electrical<br>Penetrations | 100   | No Significant Deficiencies   | 100  |
| 57 Kinemetrics             | Accelerometers                         | 100   | No Deficiencies   | 100  |

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#### FIFTEENTH PROGRESS REPORT

| CONTRACTOR                      | DESCRIPTION OF<br>CONTRACTOR'S WORK | STATUS OF OWNER FINAL<br>DOCUMENTATION REVIEW<br>(% COMPLETE) | RESULTS OF DOCUMENTATION REVIEW                           | STATUS OF OWNER EVALUATION<br>ON NEED FOR REINSPECTION<br>(% COMPLETE) |
|---------------------------------|-------------------------------------|---|---|--|
| 58 Jelco                        | Instrument Racks                    | 100   | <br> No Significant Deficiencies<br>                      | 100  |
| 59 GE                           | Instrument & Control<br>  Boards    | 100   | <br> No Deficiencies<br>                                  | 100  |
| 60A Sentry Equip-<br>ment Corp. | Sampling and Analysis<br>Systems    | 100   | No Significant Deficiencies                               | 100  |
| 62A Okonite                     | Electrical Cable                    | 100   | No Deficiencies   | 100  |
| 628 Raychem                     | Electrical Cable                    | 100   | No Significant Deficiencies                               | 100  |
| 62C Rockbestos                  | Electrical Cable                    | 100   | Deficiencies Resolved                                     | 1 100  |
| 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   | <br> No Significant Deficiencies<br>                      | 100  |
| 71 Air Products &<br>Chemicals  | Hydrogen Recombiner                 | 100   | No Deficiencies   | 100  |
| 73 Elgar                        | 15KVA Inverters                     | 100   | No Deficiencies   | 100  |
| 90 Leckenby                     | Pipe Whip Restraints                | 100   | Deficiencies Identified and<br>Corrected thru Action Plan | 100  |
| 92A Ingersol1 Rand              | Sampling Probes                     | This is an Active Pre-<br>  purchase Contract                 | No Deficiencies   | 100  |

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#### FIFTEENTH PROGRESS REPORT

| CONTRAC | CTOR                        | DESCRIPTION OF<br>CONTRACTOR'S WORK  | STATUS OF OWNER FINAL<br>DOCUMENTATION REVIEW<br>(% COMPLETE) | RESULTS OF DOCUMENTATION REVIEW   | STATUS OF OWNER EVALUATION<br>ON NEED FOR REINSPECTION<br>(% COMPLETE) |
|---------|-----------------------------|--------------------------------------|---|---|--|
| 928 K   | Kaman Sciences              | Radiation Monitoring                 | This is an Active Pre-<br>purchase Contract                   | No Deficiencies   | 100  |
| 93 (    | SPE Controls                | Vacuum Breaker Valves                | 100   | No Deficiencies   | 100  |
| 94 E    | 3 F Silow                   | MSRV Discharge                       | 100   | No Deficiencies   | 100  |
|         | Buehler Nuclear<br>Products | BWR High Density Spent<br>Fuel Racks | 100   | No Significant Deficiencies   | 100  |
|         | Vright-<br>Schuchart-Harbor | Interim Construction                 | 100   | <br> No Significant Deficiencies<br> Special Scoping Review Completed<br> | 100  |
| 6809 E  | Bethlehem                   | Reinforcing Steel                    | 100   | No Significant Deficiencies   | 100  |
| 6904 ¥  | Welk Brothers               | Annular Sleeves                      | 100   | No Significant Deficiencies   | 100  |
| 6905 W  | Welk Brothers               | Skimme: Surge Tank                   | 100   | No Significant Deficiencies   | 100  |
| 6912 F  | Pybus                       | Structural Steel                     | 100   | No Significant Deficiencies   | 100  |
| 6917 1  | īexas Pipe I                | Pipe Spools                          | 100   | No Significant Deficiencies   | 100  |
| 7012 8  | Brand Industrial            | Form Separation System               | 100   | No Significant Deficiencles   | 100  |
| 7426 N  | orthwest Copper             | Exhaust Duct                         | 100   | No Significant Deficiencies   | 10   |
| 205 5   | Stewart Erikson             | Reactor Building<br>Substructure     | 100   | No Significant Deficiencies   | 100  |

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## FIFTEENTH PROGRESS REPORT

| CONTRACTOR         | DESCRIPTION OF<br>  CONTRACTOR'S WORK<br> | STATUS OF OWNER FINAL<br>DOCUMENTATION REVIEW<br>(% COMPLETE) | RESULTS OF DOCUMENTATION REVIEW  | STATUS OF OWNER EVALUATION<br>ON NEED FOR REINSPECTION<br>(% COMPLETE) |
|--------------------|---|---|--|--|
| 206 Bovee Crail    | General Construction                      | 100   | Reinspections of Struc. Stl.<br>[Completed                                       | 100  |
| 206A Peter Kiewit  | Architectural Const.                      | 100   | No Significant Deficiencies<br>Special Scoping Review Completed                  | 100  |
| 207 PDM            | Structural Steel                          | 100   | No Significant Deficiencies  | 100  |
| 209 Rigging Int.   | Rigging of Reactor<br>Pressure Vessel     | 100   | No Deficiencies  | 100  |
| 210 Peter Kiewit   | Architectural Const.                      | 100   | Open Documentation Deficiencies<br>Resolved, Special Scoping Review<br>Completed | 100  |
| 213 PDM            | Primary Containment<br>Vessel             | 100   | No Significant Deficiencies  | 100  |
| 221 PTL            | Testing Laboratory                        | 100   | Open Deficiencies Being Resolved<br>Thru Corrective Action Process               | 100  |
| 225 McMillin Bros. | i Make Up Water Fumphouse                 | 100   | No Significant Deficiencies  | 100  |
| 226 Sime           | Reactor Building<br>Excavation            | 100   | No Deficiencies  | 100  |
| 233 B F Shaw       | Spray Pond Alteration                     | 100   | No Deficiencies  | 100  |
| 235 GEI & SE       | Reactor Internals                         | 100   | No Significant Deficiencies  | 100  |

#### FIFTEENTH PROGRESS REPORT

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|    |          |                          |    |       |    |        |     |     |     | ļ     | DEF | ICIE  |    |   |      | T REVI |     | SUMM | ARY | -     |     |      |     |     |      |       |     |       |    |    | Pag  | ge 1 o | 17 4 |      |   |
|----|----------|--------------------------|----|-------|----|--------|-----|-----|-----|-------|-----|-------|----|---|------|--------|-----|------|-----|-------|-----|------|-----|-----|------|-------|-----|-------|----|----|------|--------|------|------|---|
| Ť  |          | TY CLASS-I SEISMIC-I     | -  |       |    |        |     |     |     |       |     |       |    |   |      | SITE   | DO  | CUME | NTA | TION  | SUB | ECT  | -   |     |      |       |     |       |    |    | -    | -      |      |      | - |
| 1  | 51       | TE WORK PERFORMED        | -  |       | PC |        | -   |     | PED | _     |     |       | CW | 0 | -    | _      | ECN |      | PR  | EVIEW | RCC |      |     |     | co - |       |     |       | NO |    | -    |        | RFI  |      | _ |
| 1  | Contract | Contractor               | IR |       |    | tatus+ | R   |     |     | tatus | +   | Revie |    |   | 5+ 1 | Review |     |      | + R |       |     | atus | + R |     |      | tatus | + 3 | Revie |    |    | + 18 |        |      | atus | + |
| 1  | 205*     | Stewart-Erickson         |    | Yes   | T  | 7      | T   | E.  | T   | 7     | 1   | E     | T  | 7 | T    | Yes    | T   | 7    | T   | E     | T   | 7    | -   | Yes | T    | 7     | T   | Yes   | T  | 11 | T    | Yes    | T    | 7    | T |
| i  | 206*     | Bovee-Crail              | ŧ  | Yes   | 1  | 7      | 1   | Ε   | 1   | 7     | 1   | Yes   | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | Yes   | 1   | 7    | 1   | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | 1    | E      | 1    | 7    | 1 |
| ł  | 206A*    | Peter Kiewit Sons'       | ŧ. | Yes   | 1  | 7      | 1   | Yes | 1   | 7     | 1   | Ε     | 1  | 7 | 1    | Yes    | 1   | 7    |     | Yes   | 1   | 7    | 1   | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | T.   | 7    | 1 |
| ŝ  | 207*     | Pittsburgh-Des Moines    | 1  | Yes   | 1  | 7      | 1   | Yes | 1   | 7     | 1   | Yes   | 1  | 7 | 1    | Yes    | 1   | 7    | . 1 | Yes   | 1   | 7    | 1   | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | ł    | Yes    | 1    | 7    | 1 |
| -1 | 209*     | (Lampson Inc             | I. | Yes   | 1  | 7      | 1   | D   | 1   | 7     | 1   | Ε     | 1  | 7 | -1   | Yes    | 1   | 7    | i   | Yes   | 1   | 7    | 1   | Yes | 1    | 7     | 1   | D     | 1  | 7  | 1    | D      | 1    | 7    | 0 |
| 1  | 210*     | Poter Kiewit Sons'       | L  | Yes   | ł. | 7      | 1   | Yes | 1   | 7     | 1   | ε     | 1  | 7 | 1    | Yes    | ŧ   | 7    | 1   | Yes   | 1   | 7    | 1   | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | 1    | 7    | 1 |
| 1  | 210A     | Peter Kiewit Sons'       | I. | Yes   | 1  | 7      | I.  | в   | 1   | 7     | 1   | в     | 1  | 7 | ţ    | Yes    | T   | 7    | 1   | Ε     | 1   | 7    | E.  | Yes | 1    | 7     | 1   | в     | 1  | 7  | 1    | в      | 1    | 7    | 1 |
| i  | 6426*    | Wright Schuchart Harbor  | 1  | Yes   | 1  | 7      | 1   | Ε   | 1   | 7     | 1   | Yes   | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | Yes   | 1   | 7    | 1   | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | 1    | 7    | 1 |
| 1  | 213*     | Pi*lsburgh-Des Moines    | Į. | Yes   | 1  | 7      | 1   | Yes | ł.  | 7     | Ť   | ε     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | Yes   | 1   | 7    | Ŧ   | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | 1    | 7    | 1 |
| 1  | 213A*    | (?) Ittsburgh-Das Moines | Į. | Yes   | I. | 7      | Ľ   | Yes | 1   | 7     | 1   | Ε     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | F     | 1   | 7    | 1   | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | I.   | Yes    | 1    | 7    | 1 |
| 1  | 215      | WSH/Boecon/GERI          | 1  | Yes   | 1  | 7      | 1   | Yes | 1   | 7.    | 1   | F     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | F     | 1   | 7    | 1   | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | 1    | 11   | 1 |
| 1  | 216      | Waldinger                | Ł  | Yes   | 1  | 7      | Ε.  | Yes | 1   | 7     | 1   | F     | 1  | 7 | -1   | Yes    | 1   | 7    | 1   | F     | ł.  | 7    | 1   | Yes | 3    | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | ¥.   | 7    | 1 |
| 4  | 217      | ISenitry                 | 1  | Yes   | 1  | 7      | 1   | Yes | L.  | 7     | 1   | F     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | F     | 1   | 7    | T.  | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | 4    | 7    | 1 |
| Ť  | 218      | Fischbach/Lord           | 1  | Yes . | 1  | 7      | t I | Yes | 1   | 7     | 1   | F     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | F     | 1   | 7    | 1   | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | ×.   | 7    | 1 |
| 1  | 219      | IC.B. Cannon             | 1  | Yes   | I. | 7      | Ľ   | Yes | 1   | 7     | i t | F     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | F     | 1   | 7    | 1   | Yes | 11   | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | 1    | 7    | 1 |
| 3  | 720      | Johnson Controls         | 1  | Yes   | 1  | 7      | ŧ.  | Yes | 1   | 7     | 1   | F     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | F     | 1   | 7    | 1   | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | 1    | 2    | 1 |
| 1  | 221*     | Pacific Testing Labs     | 1  | Yes   | 1  | 7      | 1   | Ε   | 1   | 7     | 1   | Yes   | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | Yes   | 1   | 7    | 1.  | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | 1    | 7    | 1 |
| 1  | 22 A     | Pacific Testing Labs     | 1  | Yes   | E  | 7      | 1   | D   | Ł.  | 7     | 1   | ε     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | Ε     | £   | 7    | 1   | Yes | 1    | 7     | 1   | D     | 1  | 7  | Ŧ.   | D      | 1    | 7    | 1 |
| ÷ŧ | 225*     | McMillan Brothers        | 1  | Yes   | i. | 7      | 1   | D   | 1   | 7     | 1   | Ε     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | Yes   | 1   | 7    | 1.  | Yes | 1    | 7     | 1   | Yes   | F. | 11 | I.   | Yes    | +    | 7    | 1 |
| 1  | 226      | Sime Contruction Co.     | 1  | Yes   | !  | 7      | 1   | Ε   | 1   | 7     | 1   | E     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | E     | 1   | 7    | 1   | Yes | 1    | 7     | 1   | Yes   | 1  | 7  | 1    | Ε      | 1    | 7    | 1 |
| ł  | 233*     | (SF Shaw                 | ŧ  | Yes   | 1  | 7      | 1   | Yes | 1   | 7     | 1   | Yes   | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | Yes   | 1   | 7    | 1   | Yes | 1    | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | 1    | 7    | 1 |
| 1  | 234      | 10.8. Cannon             | 1  | Yes   | £. | 7      | 1   | Yes | ł.  | 7     | 1   | ε     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | E     | 1   | 7    | 1   | Yes | E.   | 7     | 1   | Yes   | 1  | 11 | 1    | Yes    | 1    | 7    | 1 |
| 1  | 235      | ICE ISSE                 | 1  | Yes   | 1  | 7      | 1   | D   | 1   | 7     | 1   | Ε     | 1  | 7 | 1    | Yes    | 1   | 7    | 1   | E     | 1   | 7    | 1   | Yes | 1    | 7     | 1   | D     | 1  | 7  | 1    | D      | 1    | 7    | 1 |

NOTES: A - Review not commenced B - No QC-I Work performed prior to 7/80 C - Special Review D - No OC-I or QC-II/SC-I Documentation closed prior to 7/80 E - Document not used for this contract D - Document reviewed under CAB 1475

- Document reviewed under CAR 1475

Denotes Inactive Contract
Numbers indicate action in Flow Chart, Page 4

#### LEGEND:

LECEND: PCD - 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. 0 - Change Order

C.O. - Change Order

#### + IFTEENTH PROGRESS REPORT

#### Attachment 18 Page 2 of 4

#### DEFICIENCY DOCUMENT REVIEW TASK NONCONFORMANCE REPORT (NCR) RÉVIEW SUMMARY

| CONTRACT |                           | CONTRACT<br>ACTIVITY         | NO. OF NCR'S<br>CLOSED PRIOR<br>TO 7/80 | EW SUMMARY | DOCUMENTS<br>I IDENTIFIED<br>REQUIRING | CLARIFICATION  <br>PROVIDED -  <br>NCR CLEARED | REMARKS |
|----------|---------------------------|------------------------------|---|------------|--|--|---------|
| 205*     | Stew-Erikson              | Rx Bldg. Substructure        | 31                                      | 4          | 1 0                                    |  |         |
| 206*     | Bovee-Crail               | General Construction         | 417                                     | 1 42       | 1 0                                    | - 1  |         |
| 206A*    | Peter Kiewit Sons'  <br>! | Arch. Construction           | 387<br>                                 | 39<br>     | 1 4                                    |  |         |
| 207*     | Pittsburgh-Des            |                              | 1                                       | 1          | 1                                      | i i  |         |
|          | Moines Steel Co.          | Structural Steel             | 1 32                                    | 1 3        | 1 1                                    | 1 1 1  |         |
| 209*     | Lampson Inc.              | Rigging of Reactor Pressure  | 1                                       | 1          | 1                                      | 1  |         |
|          | 1                         | Vessel                       | 1 2                                     | 1 0        | 1 -                                    |  |         |
| 210*     | Peter Kiewit Sons'        | Arch. Construction           | 41                                      | 1 5        | 1 0                                    |  |         |
| 210A     | i Peter Kiewit Sons'      | Arch. Construction           | I A                                     | I A        | 1 -                                    |  |         |
| 6426*    | Wright Schuchart          |                              | 1                                       | T          | 1                                      | 1  |         |
|          | Harbor                    | Interim General Construction | 113                                     | 1 11       | 1 0                                    |  |         |
| 213*     | Pittsburgh-Des            |                              | 1                                       | 1          | 1                                      | i  |         |
|          | i Moines Steel Co.        | Primary Cont Vessel          | 1 104                                   | 10         | 1 1                                    | 1 1  |         |
| 213A*    | Pittsburgh-Des            |                              | 1                                       | 1          | 1                                      |  |         |
|          | i Moines Steel Co.        | Primary Cont Vessel Retrofit | 1 75                                    | 1 10       | 1 1                                    | 1 1 1  |         |
| 215      | WSH/Boecon/GERI           | Mechanical Construction      | 1 1016                                  | 126        | 1 11                                   | 1 11 1   |         |
| 216      | Waldinger                 | HVAC, Plumbing               | 422                                     | 49         | 1 15                                   | 15 1   |         |
| 217      | Sentry                    | Fire Protection              | 1 3                                     | 1 1        | 0                                      |  |         |
| 218      | Fischbach/Lord            | Electrical Construction      | 375                                     | 37         | 1 6                                    | 6 1  |         |
| 219      | 0.B. Cannon               | Special Coatings             | 1 13                                    | 1 2        | 1 0                                    |  |         |
| 220      | Johnson Controls          | Instrumentation              | 1 27                                    | 1 3        | 1 0                                    | - 1  |         |
| 221*     | Pacific Testing Lab!      | Testing                      | 1 6                                     | 1 1        | 0                                      |  |         |
| 221A     | i Pacific Testing Lab!    | Testing                      | A A                                     | A          |  | - 1  |         |
| 225*     | McMillan Brothers         | Makeup Water Pump House      | 24                                      | 1 2        | 1 1                                    | 1 1  |         |
| 233*     | BF Shaw                   | Spray Pond Alterations       | 1 4                                     | 1          | 1 0                                    |  |         |
| 234      | 0.B. Cannon               | Wetwell Coating              | 1 4                                     | 1          | 0                                      | - 1  |         |
| 235      | GE IS&E                   | I&C Board Modification       | В                                       | I B        | - 1                                    | - 1  |         |
|          | 1                         |                              | 1                                       | 1          |  | 1  |         |
|          | 1                         |                              | 3096                                    | 347        | 40                                     | 40 1   |         |

\*Inactive Site Contract

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

# + SFTEENTH PROGRESS REPORT

Attachment 18 Page 3 of 4

# DEFICIENCY DOCUMENT REVISE SUMMARY

|              | QUALITY CLASS-I SEISMIC-I<br>SITE WORK PERFORMED |   |     |   |        | CONTRACT   |             | MENTAT |            |
|--------------|--|---|-----|---|--------|--|-------------|--------|------------|
| 1 Contract   | Contractor                                       |   |     |   |        | INTERN   | AL DOC      | UMENTS |            |
| 205*         | Stewart-Erickson                                 |   | DD  | + | Review | other spectrum of the second sec | DCD         | Revie  |            |
| 1 206*       | Bovee-Crail                                      |   |     |   | Yes    | Complete   | None        |        | Complete   |
| 2064*        | Peter Kiewit Sons'                               |   | IR  | 1 | Yes    | Complete   |             |        | Complete   |
| 207*         | Pittsburgh-Des Moines                            |   | IR  | 2 | Yes    | 1 6 1  | None        |        | 1 -        |
| 209*         | Lampson Inc                                      |   |     | 1 | Yes    | [Complete]   |             | I Yes  | Complete   |
| 210*         | i Peter Kiewit Sons'                             |   |     | 1 | D      | [Complete]   |             | I D    | Complete   |
| 210A         | i Peter Kiewit Sons'                             |   | IR  | 1 | Yes    | [Complete]   |             |        | Complete   |
| 6426*        | Wright Schuchart Harbor                          |   | N/A | 1 | В      | Complete   | N/A         |        | Complete   |
| 213*         | Pittsburgh-Des Moines                            |   | IR  | 1 | Yes    | Complete   | IR          |        | Complete   |
| 213A*        | I Pittsburgh-Des Moines                          |   | CAR | 1 | Yes    | [Complete!   | ECAR        |        | Complete   |
| 215          | WSH/Boecon/GERI                                  |   | CAR | 1 | Yes    | Complete   | ECAR        | Yes    | Complete   |
| 216          | Waldinger  |   | IR  | 1 | Yes    | [Complete]   | FCR         | I C    | (Complete  |
| 217          | Sentry   |   | DR  | 1 | Yes    | Complete   | DR          | Yes    | Complete   |
| 218          | I Fischbach/Lord                                 | 1 | IR  | 1 | D      | [Complete]   | IR          | I D    | Complete   |
| 219          | 0.8. Cannon                                      |   | IR  | 1 | Yes    | Complete   | IR          | Yes    | [Complete  |
| 220          | Johnson Controls                                 | 1 | IR  | 1 | Yes    | Complete   | None        | I -    | Complete   |
| 221*         |  |   | ISR | 1 | Yes    | Complete   | <b>JFRN</b> | I Yes  | Complete   |
| 221-<br>221A | Pacific Testing Labs                             | 1 |     | 1 | Yes    | [Complete]   |             | I Yes  | [Complete] |
|              | 1 Pacific Testing Labs                           | 1 |     | 1 | D      | [Complete]   |             | I D    | [Complete] |
| 225*         | McMillan Brothers                                | 1 | ICL | 1 | Yes    | 6 1  | CAR         | I Yes  | 151        |
| 226          | Sime Construction Company                        | 1 |     | 1 | Yes    | 1 6 1  |             | I Yes  | 1 3 1      |
| 233*         | I BF Shaw  | 1 |     | 1 | Yes    | 1 5 1  | None        | 1 -    | Complete   |
| 234          | I O.B. Cannon                                    | 1 | IR  | 1 | Yes    | [Complete]   | None        | 1 -    | [Complete] |
| 235          | GE ISAE  |   | QR  | 1 | Yes    | 1 6 1  | None        | 1 -    | Complete   |

#### NOTES:

A - Review not commenced

B - No QC-1 Work performed prior to 7/80

- C Special Review
- D No QC-I or QC-II/SC-1 Documentation closed prior to 7/80
- DC 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

# FIFTEENTH PROGRESS REPORT

# FLOW CHART FOR REVIEW OF CONTRACTOR INTERNAL DOCUMENTATION

