

APPENDIX A

NOTICE OF VIOLATION

Washington Public Power Supply System  
P. O. Box 968  
Richland, Washington 99352

Docket No. 50-397  
Construction Permit No.  
CPPR-93

As a result of the special inspection conducted by the NRC Construction Appraisal Team on May 16-27 and June 6-22, 1983, and in accordance with the NRC Enforcement Policy, 10 CFR Part 2 Appendix C, the following violations were identified:

Criterion V of 10 CFR 50 Appendix B requires, in part, that "Activities affecting quality shall be prescribed by documented instructions, procedures, or drawings of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures or drawings. Instructions, procedures, or drawings shall include appropriate quantitative or qualitative acceptance criteria for determining that important activities have been satisfactorily accomplished".

The FSAR for the WNP-2 project, Section 17.1.1.5, accordingly describes that activities affecting quality are described in procedures, instructions, and drawings and that activities are conducted in accordance with these documents. Procedures, instructions, and drawings include adequate quantitative and qualitative acceptance criteria to ascertain that the prescribed activities have been satisfactorily accomplished.

- A. The approved procedures and specification for installation of weld-o-let fittings requires 100 percent reinforcement of attachment welds.

Contrary to Criterion V, 10 CFR 50, Appendix B, cited above, and the above requirement, weld-o-let fittings have been installed and accepted by quality control inspectors with less than the 100 percent reinforcement of the attachment weld as observed at the time of the inspection on the four-inch weld-o-let installed at HPCS-630-11.12/COND-356-9.12.

This is a Severity Level IV Violation, (Supplement II).

- B. Contrary to Criterion V, 10 CFR 50, Appendix B, cited above, the following as-built conditions, were observed during the inspection.

1. Three of twelve pipe supports did not include the welds as specified by the approved design drawings as follows:

NR-429: Missing two 1/4" fillet welds

COND-617: Missing two 1/4" fillet welds

COND-614: Missing two 1/4" fillet welds

2. Anchor bolts specified to be tight by the approved installation specifications were loose and improperly installed (5 of 14) for support COND-608.
3. Size M 4x13 H-beams were used for members of the COND-623 support, rather than 3x3x0.375 square tube members as required by the approved design specification.
4. A horizontal strut was welded to a plate (added to the side of a vertical member) on support FDR-375 whereas the approved design specification required the strut to be welded directly to the vertical member.

This is a Severity Level IV Violation, (Supplement II).

- C. Contrary to Criterion V, 10 CFR 50, Appendix B, cited above, and the approved procedures for identifying and repairing defective welds, a repair was made to the incorrect area of weld RHR-851-18.19-FW-12R1 due to an apparent error in locating the defective area.

This is a Severity Level IV Violation, (Supplement II).

The Washington Public Power Supply System reported this matter to NRC via letter dated July 28, 1983, in accordance with the requirements of 10 CFR 50.55(e) which included statements of corrective action and actions to prevent recurrence. An October 25, 1983 date was identified for submittal of a final report on this matter. The aforementioned report satisfies the requirement for response to this item of the Notice of Violation.

- D. Contrary to Criterion V, 10 CFR 50, Appendix B, cited above, installed bolting materials for the following equipment and structures, were not in accordance with the applicable design drawings and specifications when observed during the inspection.
  1. ASTM A-194 Grade 2H nuts were installed in lieu of Grade 7 on various bolts, in the motor-pump couplings of pumps RHR-P2A, RHR-P2B, RHR-P2C, HPCS-P1 and LPCS-P1.
  2. One ASTM A-194 Grade 2 nut was installed in lieu of Grade 2H on pump SLC-P1A.
  3. Not all nuts were the required ASTM-A-194 Grade 2H in the relief valve SLC-RV-29B and pump RRC-P-1B penetration 41-e. The grade of these nuts was unknown.

This is a Severity Level IV Violation, (Supplement II).

- E. The WNP-2 project design and placement drawings (S-709, S-710, S-712, S-715, S-721, S-749, BS-RB-63, -73, -84, -125, -132) define reinforcing steel placement requirements. These include placing of lap splices vertically and required number of bars.

1. Contrary to Criterion V, 10 CFR, Appendix B, cited above, and the above requirement, 1 of 8 reinforcing steel dowels was apparently omitted from Beams 2B11 and 3B18, as observed in excavations during the inspection.
2. Contrary to Criterion V, 10 CFR 50, Appendix B, cited above, and the above requirement, reinforcing steel bars, for concrete beams 2B3, 2B5, 2B11, 2B25, 3B10, 3B1B, and 6B9 were placed with lap splices horizontally and with horizontal and vertical clear space between bars of as little as 1/8". As a result, honeycomb and voids had occurred in the concrete, as observed in excavations during the inspection.

This is a Severity Level IV Violation, (Supplement II).

- F. The Fishbach/Lord procedure CP/QAP-505 requires minimum spacing of 6 inches between concrete anchors. The weld details for electrical tray support RB-42-47 requires a full length fillet weld (17-3/4 inch) for stiffener plates in the W21x82 beam, and two hanger members of 4x3x3/8 inch size. The weld details for electrical tray support TS-4935 requires a groove weld between each of two vertical members and the horizontal member. Design drawing FSK-349 requires washers on concrete anchor bolts for motor control centers MC-S2-1A-A and MC-S2-1A-B, and removal of a maximum of two existing base-channel bolts. Installation procedures require a minimum 45 foot-pounds torque on concrete anchors for motor control center MC-8A.

Contrary to Criterion V, 10 CFR, Appendix B, cited above, and the above requirements, the following conditions existed in electrical raceway support and motor control center installations when measured by NRC inspectors during the inspection.

- (a) Raceway supports RB-42-1350: One concrete anchor was 3 5/8 inches from an anchor in adjacent support TS-4181
- (b) Raceway support RB-42-47: An 8" long fillet weld existed at the stiffener plate and two hanger members were 4x3x1/4 inch in size.
- (c) Raceway support TS-4935: Two groove welds were missing at the vertical/horizontal member interface.
- (d) Motor control center MC-S2-1A-A: Three base channel bolts and washers were missing.
- (e) Motor control center MC-S2-1A-B: Washers were missing.

This is a Severity Level IV violation, (Supplement II).

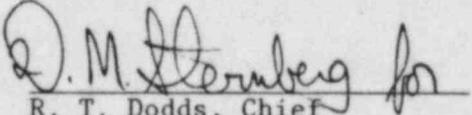
Pursuant to the provisions of 10 CFR 2.201, you are required to submit to this office within thirty days of the date of this Notice a written statement or explanation in reply, including for each item of noncompliance: (1) corrective action taken and the results achieved; (2) corrective action to be taken to avoid further noncompliance; and (3) the date when full compliance

will be achieved. Consideration may be given to extending your response time for good cause shown.

You have submitted statements and explanations in your letter of July 15, 1983 in response to the July 26, 1983 NRC letter to you regarding the findings of the Construction Appraisal Team. We have considered that information as described above.

AUG 30 1983

Dated

  
R. T. Dodds, Chief  
Reactor Projects Section 1