



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

December 17, 1986

Docket No. 50-397

Mr. G. C. Sorensen, Manager  
Regulatory Programs  
Washington Public Power Supply System  
P.O. Box 968  
3000 George Washington Way  
Richland, Washington 99352

Dear Mr. Sorensen:

Subject: Issuance of Amendment No. 35 to Facility Operating  
License No. NPF-21 - WPPSS Nuclear Project No. 2

The U.S. Nuclear Regulatory Commission has issued the enclosed Amendment No. 35 to Facility Operating License No. NPF-21 to the Washington Public Power Supply System for WPPSS Nuclear Project No. 2, located in Benton County near Richland, Washington. This amendment is in response to your letter dated January 31, 1986.

This amendment revises Sections 3.4.6.1 (Pressure/Temperature Limits) of the WNP-2 Technical Specifications by shifting the relationships in the pressure/temperature curves, Figures 3.4.6.1-1 and 3.4.6.1-2, 30°F higher at 20% of the preservice hydrostatic test pressure. This change is in compliance with the requirements of paragraph IV.A.2 of 10 CFR Part 50, Appendix G.

A copy of the related safety evaluation supporting Amendment No. 35 to Facility Operating License No. NPF-21 is enclosed.

Sincerely,

Elinor G. Adensam, Director  
RWR Project Directorate No. 3  
Division of RWR Licensing

Enclosures:

1. Amendment No. 35 to Facility  
Operating License No. NPF-21
2. Safety Evaluation

cc w/enclosures:  
See next page

DESIGNATED ORIGINAL

Certified By sh

Mr. G. C. Sorensen, Manager  
Washington Public Power Supply System

WPPSS Nuclear Project No. 2  
(WNP-2)

CC:  
Nicholas S. Reynolds, Esq.  
Bishop, Liberman, Cook,  
Purcell & Reynolds  
1200 Seventeenth Street, N.W.  
Washington, D.C. 20036

Regional Administrator, Region V (4 copies)  
U.S. Nuclear Regulatory Commission  
1450 Maria Lane, Suite 210  
Walnut Creek, California 94596

Mr. G. E. Doupe, Esquire  
Washington Public Power Supply System  
P. O. Box 968  
3000 George Washington Way  
Richland, Washington 99532

Mr. Curtis Eschels, Chairman  
Energy Facility Site Evaluation Council  
Mail Stop PY-11  
Olympia, Washington 98504

P. L. Powell, Licensing Manager  
Washington Public Power Supply System  
P. O. Box 968, MD 956B  
Richland, Washington 99352

Mr. W. G. Conn  
Burns and Roe, Incorporated  
c/o Washington Public Power Supply  
System  
P. O. Box 968, MD 994E  
Richland, Washington 99352

R. B. Glasscock, Director  
Licensing and Assurance  
Washington Public Power Supply System  
P. O. Box 968, MD 280  
Richland, Washington 99352

Mr. C. M. Powers  
WNP-2 Plant Manager  
Washington Public Power Supply System  
P. O. Box MD 927M  
Richland, Washington 99352

AMENDMENT NO. 35 TO FACILITY OPERATING LICENSE NO. NPF-21  
WPPSS NUCLEAR PROJECT NO. 2

DISTRIBUTION:

Docket No. 50-397  
NRC PDR  
Local PDR  
PRC System  
NSIC  
BWD-3 r/f  
JBradfute (2)  
EHylton (1)  
EAdensam  
Attorney, OELD  
CMiles  
RDiggs  
JPartlow  
EJordan  
BGrimes  
LHarmon  
TBarnhart (4)  
ERutcher



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

DOCKET NO. 50-397

WPPSS NUCLEAR PROJECT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 35  
License No. NPF-21

1. The Nuclear Regulatory Commission (the Commission or the NRC) has found that:
  - A. The application for amendment filed by the Washington Public Power Supply System (the Supply System, also the licensee), dated January 31, 1986, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the regulations of the Commission;
  - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the enclosure to this license amendment; and paragraph 2.C.(2) of the Facility Operating License No. NPF-21 is hereby amended to read as follows:

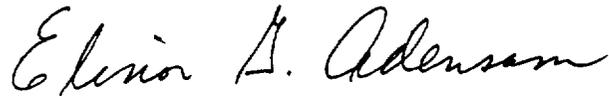
(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 35, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

8612230056 861217  
PDR ADOCK 05000397  
P PDR

3. This amendment is effective as of the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Elinor G. Adensam, Director  
BWR Project Directorate No. 3  
Division of BWR Licensing

Enclosure:  
Changes to the Technical  
Specifications

Date of Issuance: December 17, 1986

ENCLOSURE TO LICENSE AMENDMENT NO. 35

FACILITY OPERATING LICENSE NO. NPF-21

DOCKET NO. 50-397

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain a vertical line indicating the area of change.

REMOVE

3/4 4-20  
3/4 4-21

INSERT

3/4 4-20  
3/4 4-21

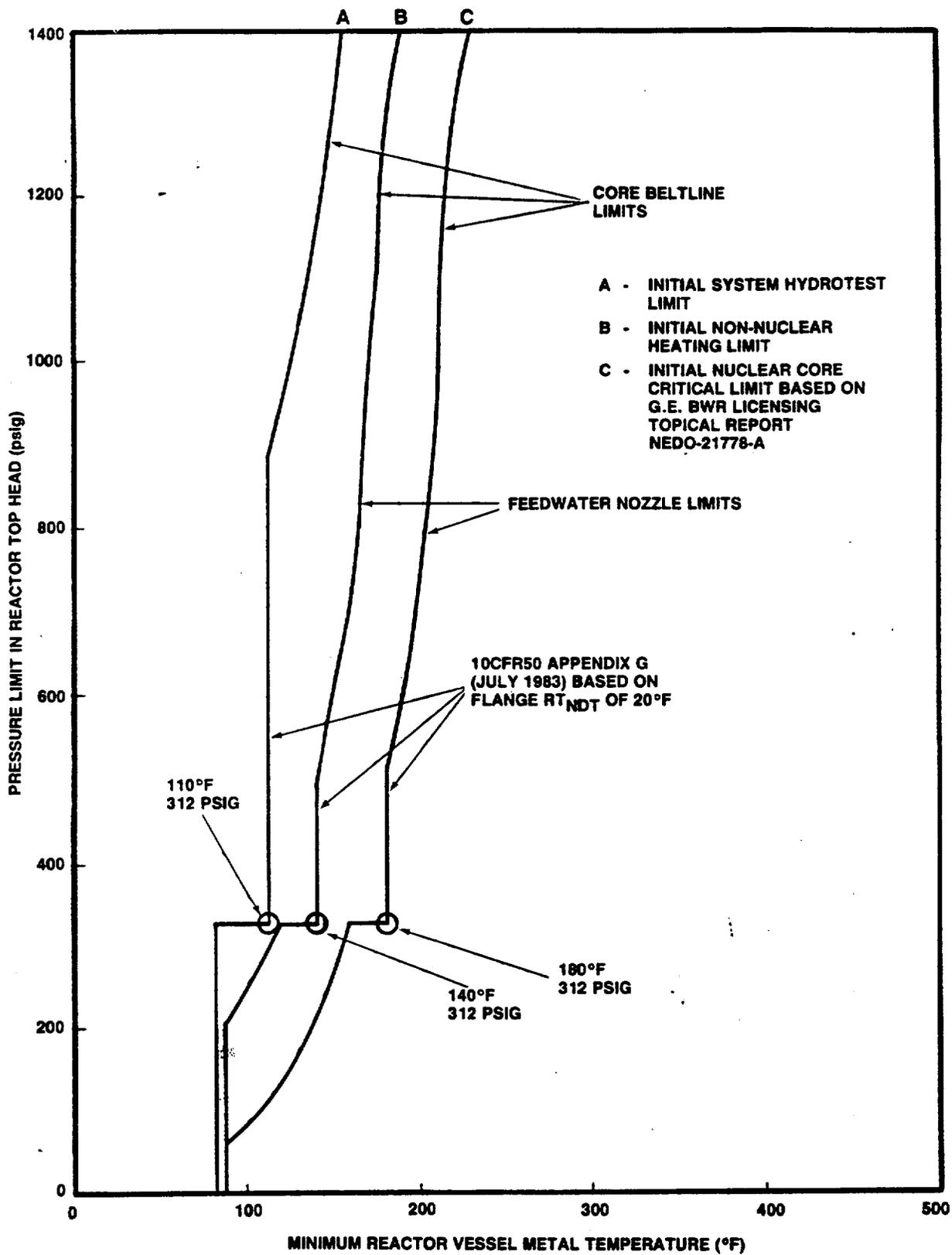


FIGURE 3.4.6.1-1

MINIMUM REACTOR VESSEL METAL TEMPERATURE VERSUS REACTOR VESSEL PRESSURE (INITIAL VALUES)

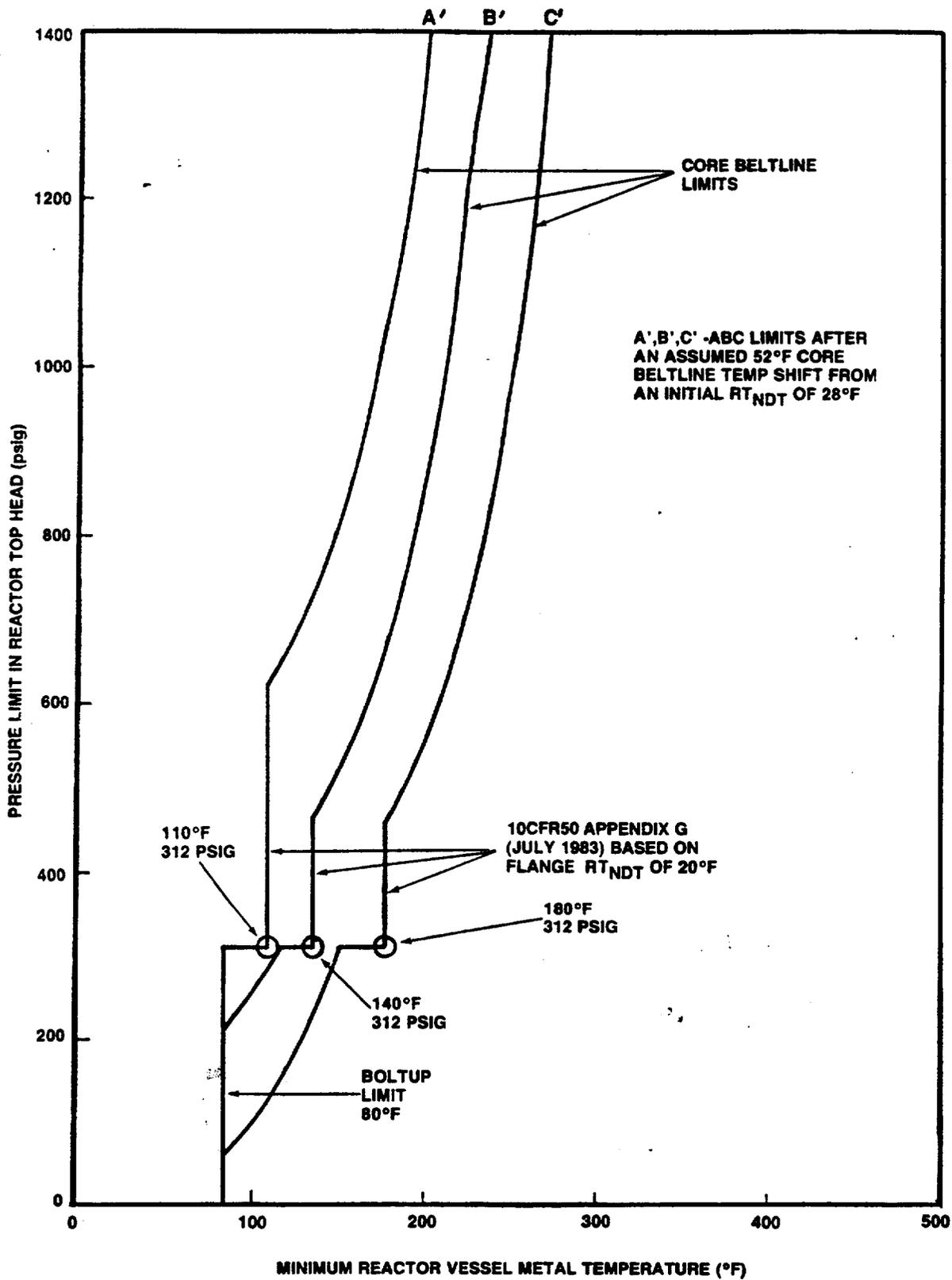


FIGURE 3.4.6.1-2

MINIMUM REACTOR VESSEL METAL TEMPERATURE VERSUS REACTOR VESSEL PRESSURE (OPERATIONAL VALUES)



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 35 TO FACILITY OPERATING LICENSE NO. NPF-21

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

WPPSS NUCLEAR PROJECT NO. 2

DOCKET NO. 50-397

1.0 INTRODUCTION

In a letter to the Commission dated January 31, 1986, the Washington Public Power Supply System requested an amendment to Section 3.4.6.1 of the WNP-2 Technical Specifications. The request was made to revise Figures 3.4.6.1-1 and 3.4.6.1-2 in order to comply with the requirements of paragraph IV.A.2 of Appendix G of 10 CFR Part 50.

2.0 EVALUATION

Paragraph IV.A.2 of Appendix G requires, in part, that when the pressure in the reactor vessel exceeds 20% of the preservice system hydrostatic pressure, the temperature of the closure flange regions that are highly stressed by the bolt preloads must exceed the reference temperature of the material in those regions by at least 120°F for normal operation and by 90°F for hydrostatic pressure tests and leak tests. Equivalent margins of safety are required when the flange region is controlling as are required for the beltline when it is controlling.

The revised pressure/temperature curves have been shifted 30°F higher at 20% of the preservice hydrostatic test pressure for compliance with the requirements of paragraph IV.A.2 of Appendix G. Because the revised curves are more conservative, they will provide an additional margin of safety for reactor vessel testing and operation; and because the changes are required by the regulations, they are acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the installation and use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes in surveillance requirements. The staff has determined that this amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

8612230059 861217  
PDR ADOCK 05000397  
P PDR

4.0 CONCLUSION

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register (51 FR 30583) on August 27, 1986, and consulted with the state of Washington. No public comments were received, and the state of Washington did not have any comments.

We have concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: F. Litton, NRR

Dated: December 17, 1986