



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

March 27, 1987

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. 37 to Facility Operating
License No. NPF-21 - WPPSS Nuclear Project No. 2

The U.S. Nuclear Regulatory Commission has issued the enclosed Amendment No. 37 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 March 14, 1986.

This amendment revises the WNP-2 Technical Specification Table 4.3.7.5-1 to reflect the installation of new Hydrogen-Oxygen Analyzers, which eliminate the necessity of obtaining precise sample gas concentrations for calibration.

A copy of the related safety evaluation supporting Amendment No. 37 to Facility Operating License No. NPF-21 is enclosed.

Sincerely,

A handwritten signature in cursive script that reads "Elinor G. Adensam".

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

Enclosures:

1. Amendment No. 37 to Facility
Operating License No. NPF-21
2. Safety Evaluation

cc w/enclosures:
See next page

DESIGNATED ORIGINAL
Certified by A handwritten signature in cursive script, likely of the same person as the one above, placed over the "Certified by" text.

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PDR ADDOCK 05000397
P PDR

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

WPPSS Nuclear Project No. 2
(WNP-2)

cc:

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AMENDMENT NO. 37 TO FACILITY OPERATING LICENSE NO. NPF-21
WPPSS NUCLEAR PROJECT NO. 2

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Docket No. 50-397
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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. 37
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 March 14, 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. 37, 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.

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

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in cursive script, reading "Elinor G. Adensam".

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

Enclosure:
Changes to the Technical
Specifications

Date of Issuance: March 27, 1987

ENCLOSURE TO LICENSE AMENDMENT NO. 37

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 vertical lines indicating the area of change.

REMOVE

3/4 3-74
3/4 3-75

INSERT

3/4 3-74
3/4 3-75

TABLE 4.3.7.5-1

ACCIDENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>INSTRUMENT</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>APPLICABLE OPERATIONAL CONDITIONS</u>
1. Reactor Vessel Pressure	M	R	1, 2
2. Reactor Vessel Water Level	M	R	1, 2
3. Suppression Chamber Water Level	M	R	1, 2
4. Suppression Chamber Water Temperature	M	R	1, 2
5. Suppression Chamber Air Temperature	M	R	1, 2
6. Primary Containment Pressure	M	R	1, 2
7. Drywell Air Temperature	M	R	1, 2
8. Drywell Oxygen Concentration	M	R	1, 2
9. Drywell Hydrogen Concentration	M	Q	1, 2
10. Safety/Relief Valve Position Indicators	M	R	1, 2
11. Suppression Chamber Pressure	M	R	1, 2
12. Condensate Storage Tank Level	M	R	1, 2
13. Main Steam Line Isolation Valve Leakage Control System Pressure	M	R	1, 2
14. Neutron Flux:			
APRM	M	R	1, 2
IRM	M	R	1, 2
SRM	M	R	1, 2
15. RCIC Flow	M	R	1, 2
16. HPCS Flow	M	R	1, 2
17. LPCS Flow	M	R	1, 2

TABLE 4.3.7.5-1 (Continued)

ACCIDENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

<u>INSTRUMENT</u>	<u>CHANNEL CHECK</u>	<u>CHANNEL CALIBRATION</u>	<u>APPLICABLE OPERATIONAL CONDITIONS</u>
18. Standby Liquid Control System Flow	M	R	1, 2
19. Standby Liquid Control System Tank Level	M	R	1, 2
20. RHR Flow	M	R	1, 2
21. RHR Heat Exchanger Outlet Temperature	M	R	1, 2
22. Standby Service Water Flow	M	R	1, 2
23. Standby Service Water Spray Pond Temperature	M	R	1, 2
24. Post-Accident Sampling Containment Atmosphere Radiation Monitor	M	R	1, 2, 3
25. Emergency Ventilation Damper Position	M	R	1, 2
26. Standby Power and Other Energy Sources	M	R	1, 2
27. Primary Containment Valve Position	M	R	1, 2
28. Primary Containment Gross Radiation Monitors	M	R*	1, 2, 3
29. Post Accident Sampling Primary Coolant Radiation Monitor	M	R	1, 2, 3
30. Effluent Noble Gas Radiation Monitor#	M	R	1, 2, 3
31. Reactor Building Post LOCA Grab Sampler	M	R	1, 2, 3

TABLE NOTATION

*CHANNEL CALIBRATION shall consist of an electronic calibration of the channel, not including the detector, for range decades above 10 R/h and a one point calibration check of the detector below 10 R/h with an installed or portable gamma source.



NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 37 TO FACILITY OPERATING LICENSE NO. NPF-21
WASHINGTON PUBLIC POWER SUPPLY SYSTEM
WPPSS NUCLEAR PROJECT NO. 2
DOCKET NO. 50-397

1.0 INTRODUCTION

License Condition 16, Attachment 2, item 3(a) to the WNP-2 Operating License states that:

"The licensee shall implement (installation or upgrade) requirements of R.G. 1.97 Revision 2 with the exception of flux monitoring prior to startup following the first refueling outage."

In fulfillment of this license condition, during the Spring 1986 refueling outage, the Supply System replaced the Hydrogen-Oxygen (H_2-O_2) Analyzers with a qualified replacement. The replacement analyzer system is designed so that a specific sample gas concentration is not necessary to ensure proper calibration of the instruments. Accordingly, by letter dated March 14, 1986, the licensee proposed an amendment to the WNP-2 Technical Specifications which would delete a reference to a specific sample gas concentration from Technical Specification Table 4.3.7.5-1.

2.0 EVALUATION

The current Technical Specifications require that a specific sample gas concentration be used in performing channel calibration of the H_2-O_2 Analyzers. The replacement H_2-O_2 Analyzer system uses a micro-processor which automatically compensates for containment temperature and pressure. The micro-processor is also used for calibration. A specific calibration gas concentration is, therefore, not required with the replacement system. This is because changes in the H_2 or O_2 calibration gas concentrations are entered into the micro-processor and are directly compared to the compensated output signals of the H_2 and O_2 sensors during calibration. The deletion of a precisely specified calibration gas concentration in the replacement system does not affect the capability of the H_2-O_2 Analyzer system to meet the instrument range requirements. As a result, the licensee anticipates a significant increase in system operability. On the basis of our evaluation, we find that it is acceptable to delete the reference to a precise sample gas concentration in the WNP-2 Technical Specifications (Table 4.3.7.5-1) because a precise gas concentration is not needed for the replacement H_2-O_2 Analyzer system.

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.

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 32280) on September 10, 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: Frank J. Witt, NRR

Dated: March 27, 1987