

DEC 13 1978

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Docket No. 50-397

MEMORANDUM FOR: R. L. Ballard, Chief, Environmental Projects Branch  
No. 1, DSE  
FROM: J. T. Collins, Chief, Effluent Treatment Systems  
Branch, DSE  
SUBJECT: RADWASTE SECTION FOR DRAFT ENVIRONMENTAL STATEMENT FOR  
WPPSS NUCLEAR PROJECT, UNIT NO. 2

PLANT NAME: Washington Public Power Supply System Nuclear Project  
Unit No. 2  
LICENSING STAGE: OL  
DOCKET NUMBER: 50-397  
MILESTONE NUMBER: 31  
RESPONSIBLE BRANCH: EP-1  
PROJECT MANAGER: J. Norris  
DESCRIPTION OF RESPONSE: Radwaste Section for DES  
REQUESTED COMPLETION DATE: December 15, 1977  
REVIEW STATUS: Complete

Enclosed is Section 3.5, "Radioactive Waste Systems," for the draft environmental statement for WPPSS Nuclear Project, Unit No. 2, addressing conformance with the requirements of Appendix I to 10 CFR Part 50.

Based on our evaluation, we conclude that the WPPSS Nuclear Project Unit No. 2, conforms to the requirements of Appendix I to 10 CFR Part 50. Our detailed evaluation of the radwaste systems and the capability of these systems to meet the requirements of Appendix I will be presented in the SER.

ORIGINAL SIGNED BY  
JOHN T. COLLINS

John T. Collins, Chief  
Effluent Treatment Systems Branch  
Division of Site Safety and  
Environmental Analysis

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Enclosure:  
Section 3.5

OFFICE	cc: See Page 2	ETSB/DSE	ETSB/DSE	ETSB/DSE	
SURNAME		PStoddart:et	WCBurke	JTCollins	
DATE		12/3/78	12/3/77	12/13/78	

R. L. Ballard

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cc: H. Denton  
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RADWASTE SECTION FOR  
DRAFT ENVIRONMENTAL STATEMENT FOR  
WPPSS NUCLEAR PROJECT, UNIT NO. 2

3.5 RADIOACTIVE WASTE SYSTEMS

Part 50.34a of Title 10 of the Code of Federal Regulations requires an applicant for a permit to construct a nuclear power reactor to include a preliminary description of the design of equipment to be installed for keeping levels of radioactive materials in effluents to unrestricted areas as low as is reasonably achievable. The term "as low as is reasonably achievable" means as low as is reasonably achievable taking into account the state of technology and the economics of improvement in relation to benefits to the public health and safety and other societal and socioeconomic considerations and in relation to the utilization of atomic energy in the public interest. Appendix I to 10 CFR Part 50 provides numerical guidance on design objectives for light-water-cooled nuclear power reactors to meet the requirement that radioactive materials in effluents released to unrestricted areas be kept as low as is reasonably achievable.

To meet the requirements of 10 CFR Part 50.34a, the applicant has elected to meet the requirements of the Annex to Appendix I, dated September 4, 1975, in lieu of performing a cost-benefit analysis as required by Section II.D of Appendix I. The applicant has provided final designs of radwaste systems and effluent control measures for keeping levels of radioactive materials in effluents to unrestricted areas as low as is reasonably achievable within the requirements of Appendix I to 10 CFR Part 50 and the requirements of the Annex to Appendix I. In addition, the applicant has provided an estimate of

the quantity of each principal radionuclide expected to be released annually to unrestricted areas in liquid and gaseous effluents produced from normal operation including anticipated operational occurrences.

The staff's detailed evaluation of the radwaste system and the capability of these systems to meet the requirements of Appendix I are presented in Chapter 11 of the Safety Evaluation Report. The quantities of radioactive material calculated by the staff to be released from the plant are also presented in Chapter 11 of the Safety Evaluation Report and in Section 5.X of this Environmental Statement with the calculated doses to individuals and the population that will result from these effluent quantities.

At the time of the operating license, the applicant will be required to submit Technical Specifications which will establish release rates for radioactive material in liquid and gaseous effluents and which provide the routine monitoring and measurement of all principal release points to assure that the facility operates in conformance with the requirements of Appendix I to 10 CFR Part 50.