

# PRIORITY 1

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AUTH. NAME: AUTHORITY AFFILIATION  
MARCHI, M.L. Washington Public Power Supply System  
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Document Control Branch (Document Control Desk)

SUBJECT: Requests permission to dispose of addl very-low-level radioactive matl from plant sewage treatment facility, on area identified on encl map.

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**WISCONSIN PUBLIC SERVICE CORPORATION**

600 North Adams • P.O. Box 19002 • Green Bay, WI 54307-9002

October 17, 1995

10 CFR 20.2002

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D.C. 20555

Ladies/Gentlemen:

Docket 50-305  
Operating License DPR-43  
Kewaunee Nuclear Power Plant  
Sewage Treatment Plant Sludge Disposal

- References:
- 1) Letter to Document Control Desk (NRC) from Ken Evers (WPSC) dated September 12, 1989
  - 2) Letter to C. A. Schrock (WPSC) from A. G. Hansen (NRC) dated June 17, 1992
  - 3) Letter to Document Control Desk (NRC) from C. A. Schrock (WPSC) dated June 23, 1994
  - 4) Letter to C. A. Schrock (WPSC) from R. J. Laufer (NRC) dated September 14, 1994

In reference 1, Wisconsin Public Service Corporation (WPSC) requested authorization for the alternative disposal of very-low-level radioactive material from the Kewaunee Nuclear Power Plant. In reference 2, the NRC staff completed their review of the calculational methods and assumptions contained in reference 1. The NRC staff concluded that the assumptions and calculations were consistent with NRC Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases for Reactor Effluents for the Purpose of Evaluating Compliance with 10CFR 50, Appendix I," Revision 1, October 1977 and were therefore acceptable. In reference 2, the NRC gave WPSC permission to land spread the very-low-level radioactive material onsite provided three boundary conditions were met. These boundary conditions are:

- 1) The annual disposal must be less than a total activity of 0.2 mCi.
- 2) The whole body dose to the hypothetical maximally exposed individual must be less than 0.1 mrem/year.
- 3) The disposal must be at the same site.

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In reference 3, WPSC requested an alternate site to dispose of the very-low-level radioactive material identified in reference 1. WPSC stated that the boundary conditions of the alternate site would be identical to those identified in reference 2. WPSC also stated that the alternate site would meet all applicable Wisconsin Department of Natural Resources (WDNR) sludge application rules as defined in the Wisconsin Administrative Code. In reference 4, the NRC staff completed their review of reference 3 and found that it met the radiological boundary conditions approved in the June 17, 1992 Safety Evaluation and was therefore acceptable. The staff also found that the request was in accordance with 10 CFR 20.2002 which replaced 20.302 on January 1, 1994. WPSC has successfully disposed of the service water pretreatment lagoon sludge material identified in reference 1.

In accordance with 10 CFR 20.2002, WPSC is requesting permission to dispose of additional very-low-level radioactive material from the Kewaunee Nuclear Power Plant's Sewage Treatment Facility, on the area identified on the attached map. In spreading this waste WPSC will abide by the boundary conditions stated in reference 2 and the calculation methods and assumptions identified in reference 1. Furthermore, WPSC has obtained all applicable permits required by Wisconsin Administrative Code.

Should there be any additional questions please feel free to contact a member of my staff.

Sincerely,



M. L. Marchi  
Manager-Nuclear Business Group

GJS

Attach.

cc - US NRC - Region III  
Senior Resident Inspector, US NRC

# KEWAUNEE NUCLEAR POWER PLANT SITE AREA MAP

