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 SCHROCK, C.A. Wisconsin Public Service Corp.
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SUBJECT: Addresses boundary conditions identified in NRC 920617 ltr for repetitive plant sludge disposals.

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WISCONSIN PUBLIC SERVICE CORPORATION

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

June 29, 1994

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

Gentlemen:

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

- Reference: 1) Letter to Document Control Desk from K. H. Evers dated September 12, 1989
- 2) Letter to C. A. Schrock from A. G. Hansen dated June 17, 1992
- 3) Letter to Document Control Desk from C. A. Schrock dated June 23, 1994

In reference 1, Wisconsin Public Service Corporation (WPSC) requested authorization for the alternative disposal of very-low-level radioactive materials from the Kewaunee Nuclear Power Plant. In reference 2, the NRC staff completed their review of the calculational methods and assumptions and found that they 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 1, " Revision 1, October 1977 and therefore acceptable. In the Radiological Impacts section of reference 2, the staff identified three

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boundary conditions for repetitive disposals. These boundary conditions included the requirements that;

- 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.

In reference 3, WPSC requested an alternate site in which to spread the material. WPSC stated that for the alternate site the boundary conditions identified in reference 2 for repetitive disposals, (i.e. annual disposal must be less than a total activity of 0.2 mCi and the whole body dose to the hypothetical maximally exposed individual must be less than 0.1 mrem/year) would be met. Finally, WPSC stated that this alternate site will also meet all applicable Wisconsin Department of Natural Resources (WDNR) application requirements (i.e. sludge application rate and frequency of spreading rate), in addition to WDNR landspreading requirements regarding locational and performance standards required of the original site. Should there be any additional questions please contact a member of my staff.

Sincerely,



C.A. Schrock
Manager - Nuclear Engineering

DJM

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