



**Nebraska Public Power District**

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NLS2006061

July 31, 2006

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555-0001

Subject: Groundwater Protection – Data Collection Questionnaire  
Cooper Nuclear Station, Docket No. 50-298, DPR-46

The nuclear industry, in conjunction with the Nuclear Energy Institute, has developed a questionnaire to facilitate the collection of groundwater data at commercial nuclear reactor sites. The objective of the questionnaire is to compile baseline information about the current status of site programs for monitoring and protecting groundwater and to share that information with the Nuclear Regulatory Commission. The completed questionnaire for Cooper Nuclear Station is attached.

This submittal contains no new regulatory commitments.

Should you have any questions concerning this matter, please contact Paul Fleming, Licensing Manager, at 402-825-2774.

Sincerely,

Randall K. Edington  
Vice President – Nuclear and  
Chief Nuclear Officer

/dv

Attachment

cc: Stuart A. Richards w/attachment  
Deputy Director, Division of Inspection and Regional Support  
USNRC – NRR

Regional Administrator w/attachment  
USNRC - Region IV

Cooper Project Manager w/attachment  
USNRC - NRR Project Directorate IV-1

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NLS2006061

Page 2 of 2

Senior Resident Inspector w/attachment  
USNRC - CNS

NPG Distribution w/o attachment

CNS Records w/attachment

**Industry Groundwater Protection Initiative  
Voluntary Data Collection Questionnaire**

**Plant: Cooper Nuclear Station**

- 1. Briefly describe the program and/or methods used for detection of leakage or spills from plant systems, structures, and components that have a potential for an inadvertent release of radioactivity from plant operations into groundwater.**

The Radiological Environmental Monitoring Program (REMP) monitors at various locations for potential groundwater releases. This is performed by physically obtaining water/sediment grab samples surrounding the site. Environmental outfalls are monitored periodically by Chemistry as part of National Pollutant Discharge Elimination System sampling requirements. Operations performs routine walkdowns and surveillances of plant systems, buildings, and surrounding grounds of the Owner Controlled Area. Engineering performs routine walkdowns and surveillances of systems. Spills are entered into the Corrective Action Program for reporting and trending. Chemistry completes periodic radionuclide sampling of non-radioactive systems. Radiological Protection Department completes routine outdoor area surveys within the Restricted Area of the site.

- 2. Briefly describe the program and/or methods for monitoring onsite groundwater for the presence of radioactivity released from plant operations.**

The REMP program monitors two onsite locations for groundwater and reports the results annually in the Annual Radiological Environmental Operating Report. There are two drinking water wells which are monitored quarterly. The wells are located west of the plant in the Owner Controlled Area. Results are below detection as outlined in the Offsite Dose Assessment Manual (ODAM).

- 3. If applicable, briefly summarize any occurrences of inadvertent releases of radioactive liquids that had the potential to reach groundwater and have been documented in accordance with 10 CFR 50.75(g).**

None

- 4. If applicable, briefly summarize the circumstances associated with any onsite or offsite groundwater monitoring result indicating a concentration in groundwater of radioactivity released from plant operations that exceeds the maximum contaminant level (MCL) established by the United States Environmental Protection Agency (USEPA) for drinking water.**

There have been no groundwater results indicating concentrations which exceed the USEPA limits.

**5. Briefly describe any remediation efforts undertaken or planned to reduce or eliminate levels of radioactivity resulting from plant operations in soil or groundwater onsite or offsite.**

No groundwater or soil radioactivity levels in excess of ODAM limits have been detected.

