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OCAN070602

July 31, 2006

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

Subject: Groundwater Protection Baseline Information
Arkansas Nuclear One – Units 1 and 2
Docket Nos. 50-313 and 50-368
License Nos. DPR-51 and NPF-6

Dear Sir or Madam:

The nuclear industry, in conjunction with the Nuclear Energy Institute (NEI), developed a questionnaire to facilitate compilation of baseline information regarding the current status of site programs for monitoring and protecting groundwater. All participating nuclear sites agreed to provide the requested information to both NEI and the Nuclear Regulatory Commission.

The attachment to this letter contains the questionnaire response for Arkansas Nuclear One. Please contact Mr. David Moore at (479) 858-7689 if you have any questions or comments regarding this submittal.

There are no new commitments contained in this submittal.

Sincerely,

Thomas A. Marlow

TAM/rhs

Attachment

IE25

cc: Dr. Bruce S. Mallett
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Attachment

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Arkansas Nuclear One

Groundwater Protection Questionnaire Response

Groundwater Protection Questionnaire

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.

Response:

The ANO Chemistry department performs gamma spectrometry and/or Tritium analysis of samples collected routinely from systems identified as IE Bulletin 80-10 systems in accordance with site procedure OP-1042.003 (Radiochemistry Routine Surveillance Schedule and Tech. Spec. Reporting). This procedure contains appropriate guidance to ensure that Bulletin 80-10 requirements are met. In addition, the procedure requires that any positive indication of activity be documented in the Corrective Action Program.

OP 1012.018, (Administration of Radiological Surveys) directs the routine sampling and survey of non-radioactive systems, including those meeting the criteria of IE Bulletin 80-10. This procedure contains guidance to ensure that the requirements of the Bulletin are met and that any indication of radioactivity in these systems be documented in the Corrective Action Program.

ANO does not currently have a groundwater monitoring program. However, most plant systems, structures and components which contain radioactive contamination are located above ground or in plant structures such that any leakage or spills would be identified by plant operators and/or other plant personnel while performing their routine rounds and/or walkdowns. Currently, only monitored liquid releases are transported through buried piping systems or retained in holding ponds.

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

Response:

ANO does not currently have a groundwater monitoring program.

3. If applicable, briefly summarize any occurrences of inadvertent releases of radioactive liquids that have been documented in accordance with 10 CFR 50.75(g).

Response:

On May 30, 2006, while the Unit-2 spent fuel pool tilt pit was being filled from the Boron Management Holdup Tanks, the tilt pit overflowed into the new fuel pit, contaminating areas outside of the radiological controlled area (RCA). Two rooms outside of the RCA were required to be decontaminated. Records relevant to compliance with 50.75(g) included radiological surveys, air samples, and isotopic analysis.

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 USEPA for drinking water.

Response:

None performed. ANO does not currently have a groundwater monitoring program.

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.

Response:

There is currently no known contamination of soil or groundwater at the ANO site. Therefore, there are no remediation efforts underway or planned.