

RS-07-009

January 5, 2007

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

Dresden Nuclear Power Station, Unit 1
Facility Operating License No. DRP-2
NRC Docket No. 50-010

Subject: Update to Dresden Nuclear Power Station Unit 1 Post-Shutdown
Decommissioning Activities Report

- References:
- (1) Letter from R. P. Teutken (Commonwealth Edison Company) to USNRC, "Dresden Nuclear Power Station Unit 1 Post-Shutdown Decommissioning Activities Report," dated June 1, 1998
 - (2) Letter from K. A. Ainger (Exelon Generation Company, LLC) to USNRC, "Changes to Post-Shutdown Decommissioning Activities Report," dated August 23, 2001

In Reference (1), as required by 10 CFR 50.82, "Termination of License," paragraph (a)(4)(i), Commonwealth Edison Company (i.e., now Exelon Generation Company, LLC (EGC)) transmitted the Post-Shutdown Decommissioning Activities Report (PSDAR) for Dresden Nuclear Power Station (DNPS) Unit 1. In Reference (2), as required by 10 CFR 50.82, paragraph (a)(7), EGC notified the NRC of changes to the planned decommissioning activities and schedules described in the DNPS Unit 1 PSDAR. Specifically, EGC provided an updated schedule for removal of DNPS Unit 1 spent fuel from the Unit 1 spent fuel pool (SFP) and the Unit 3 SFP.

The purpose of this letter is to provide a further update concerning the planned decommissioning activities and schedules described in the DNPS Unit 1 PSDAR, including the removal of DNPS Unit 1 spent fuel.

All spent fuel from DNPS Unit 1 that was previously stored in the Unit 1 SFP, the Unit 1 fuel transfer pool, and the Unit 2 SFP has now been transferred directly to on-site Independent Spent Fuel Storage Installation (ISFSI) casks. At the present time, 108 spent fuel assemblies and one fuel rod basket from Unit 1 are stored in the DNPS Unit 3 SFP.

During the SAFSTOR period (i.e., 2007 through 2027), the Unit 1 facility will be subjected to periodic inspection and monitoring. These activities will include condition monitoring of the ISFSI, ongoing environmental surveys, and maintenance of equipment required to support the SAFSTOR condition of the facility. Security will be maintained as part of the site protected area boundary for DNPS Units 1, 2, and 3 during this period.

Beginning in 2027 (i.e., approximately two years prior to the expiration of renewed Facility Operating License DPR-19 for DNPS Unit 2), and continuing through 2029, EGC will prepare for decontamination and dismantlement of DNPS Unit 1. This will include: specification and procurement of special equipment, casks, and liners; development of decontamination and dismantlement activity specifications, procedures, and implementation sequence; and development of facility end product descriptions. During this approximate three year period, EGC will also conduct a detailed radiation survey of components and materials, perform an inventory of the remaining byproduct materials, and prepare licensing submittals, all of which will support final dismantlement and license termination.

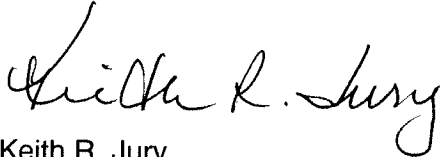
Current EGC plans specify that decontamination and dismantlement of DNPS Unit 1, including removal of any remaining Unit 1 spent fuel that is stored in the Unit 3 SFP, will take place from 2029 through 2031 (i.e., the expiration of renewed Facility Operating License DPR-25 for DNPS Unit 3). Major components, including the nuclear steam supply system and the turbine-generator machinery, will be decontaminated as needed, and removed during this time, including the. Contaminated building surfaces will also be decontaminated. Other systems and components will also be removed, packaged and disposed of; the associated buildings will be prepared for demolition. In 2031, a comprehensive radiological survey will be initiated to demonstrate readiness for demolition of the Unit 1 portions of the facility.

A four-year site restoration delay will follow the major decontamination and dismantlement of DNPS Unit 1 to allow for the decontamination and dismantlement of Units 2 and 3, with completion of these activities tentatively planned for 2035. Site restoration will be conducted in 2035 and 2036, with the demolition of the remaining structures and removal of contaminated soil. EGC will also remediate any subgrade, if required, and conduct a final site survey in late 2036. EGC will monitor the DNPS ISFSI complex with site security and periodic inspections until final transfer of the spent fuel to the Department of Energy for disposal.

There are no regulatory commitments in this letter.

Please direct any questions regarding this letter to John L. Schrage at (630) 657-2821.

Respectfully,

A handwritten signature in black ink, appearing to read "Keith R. Jury". The signature is written in a cursive, flowing style.

Keith R. Jury
Director - Licensing and Regulatory Affairs

cc: Regional Administrator – Region III, NRC
NRC Senior Resident Inspector – Dresden Nuclear Power Station