

June 7, 2010

Mr. Jeffery L. Hansen
Manager – Licensing and Regulatory Affairs
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: EVALUATION OF NON-HELIUM LEAK RATE TEST OF HOLTEC
MULTI-PURPOSE CANISTERS (MPCs)

Dear Mr. Hansen:

In response to the U.S. Nuclear Regulatory Commission (NRC) conversation record dated December 15, 2009 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML093510008), Exelon Generation Company (EGC) provided information on February 4, 2010, (ADAMS Accession No. ML100350810) to the NRC specific to Holtec International violation of 10 CFR 72.48 (ADAMS Accession No. ML092470363). According to the information provided by EGC, Holtec MPCs have been loaded at the Dresden and Quad Cities Nuclear Power Stations without the receipt of the required helium leak rate test, to confirm leak tightness, of the welded confinement boundary after fabrication.

The MPCs are required to be leaktight to demonstrate that all thermal and radiological performance requirements can be met under the maximum licensed conditions permitted in the Certificate of Compliance No. 72-1014, Amendment Nos. 2 and 3 for the Holtec HI-STORM 100 Cask System. Your letter provided information related to the thermal loading and radiological monitoring conducted at the Dresden and Quad Cities sites since the affected MPCs were placed into service. The NRC reviewed your information and noted that the offsite dose records confirmed that no increase in radiological effluents have been detected at either site since the MPCs were placed into service.

In addition, the NRC reviewed the thermal information provided by EGC for loaded MPCs and determined that the thermal performance requirements would be met. Specifically, your letter reported a maximum heat load of 13.1kW. The staff has independently determined that helium overpressure is not required to demonstrate adequate thermal performance at this value. As a result, the NRC has determined that continued use of the loaded MPCs at the Dresden and Quad Cities sites is acceptable, and the NRC does not plan any further action with respect to the continued use of these MPCs at this time.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and your response, if you choose to provide one, will be made available electronically for

public inspection in the NRC Public Document Room or from the NRC's document system ADAMS, accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>. To the extent possible, your response should not include any personal privacy, proprietary, or safeguards information so that it can be made available to the public without redaction.

Should you have any questions regarding this letter, please feel free to contact me at (301) 492-3299.

Sincerely,

/RA/

David W. Pstrak, Chief
Rules, Inspections, and Operations Branch
Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety
and Safeguards

Docket Nos. 72-37 and 72-53

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OFC	SFST/RIOB	SFST/LB	SFST/RIOB	SFST/TCB	OE/EB	OGC	SFST/TRD
NAME	ELove	WWheatley	DPstrak	MRahimi	JWray	EBowden Berry	RLorson
DATE	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/7/2010	6/7/2010	6/7/2010

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