

June 14, 2016

MEMORANDUM TO: Donna Williams, Acting Chief
Licensing Branch 2
Division of New Reactor Licensing
Office of New Reactors

FROM: John Vera, Project Manager /RA/
Licensing Branch 2
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: REGULATORY AUDIT PLAN OF PLUS7 FUEL TESTING AND
NUMERICAL MODELING

On March 4, 2015, the U.S. Nuclear Regulatory Commission (NRC) accepted the design certification (DC) application for docketing of the Advanced Power Reactor 1400 (APR1400) submitted by Korea Electric Power Corporation and Korea Hydro & Nuclear Power Co., Ltd.

The NRC held a public meeting with KHNP on February 3, 2016, to discuss Section 4.2 of the APR1400 design control document (DCD), and the associated RAI 275-8294 and draft RAI 8405. The meeting summary is available in the NRC Agencywide Documents Access and Management System (ADAMS) under Accession Number ML16068A101. During this meeting, KHNP outlined a testing plan to gather the necessary information for modeling the PLUS7 fuel performance for seismic conditions. At the meeting, KHNP stated that the NRC staff would be able to witness the testing performed.

The NRC staff has determined that efficiency gains would be realized by auditing the documents related to the fuel testing and subsequent analysis. The purpose of this audit is to allow the NRC technical staff to understand the testing and the data garnered, how the testing feeds into the models used for analysis, and obtain clarification on technical and licensing impacts on the application for the APR1400. The audit will be held from June 14, 2016, through June 17, 2016, in Columbia, South Carolina. Further audit activities will be conducted as results and documents are generated. A copy of the audit plan is included as Enclosure 1 and can be found in ADAMS under Accession Number ML16160A345, a proprietary version of the audit plan is provided as Enclosure 2 and is not publicly available in ADAMS.

Docket No: 52-046

Enclosures:
As stated.

cc w/enclosure 1: See next page

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