

March 22, 2016

MEMORANDUM TO: Bo Pham, Acting Deputy Director
Division of Spent Fuel Management, NMSS

FROM: Pierre Saverot, Project Manager **/RA/**
Spent Fuel Licensing Branch
Division of Spent Fuel Management, NMSS

SUBJECT: SUMMARY OF MARCH 16, 2016, PARTIALLY CLOSED
MEETING WITH AREVA

Background

AREVA is planning to submit an amendment request for the Model No. MP- 197 HB package to allow poison rods assembly for criticality control in addition to burnup credit. This amendment request is applicable only for the NUHOMS®-32PTH1 Dry Shielded Canister (DSC).

The meeting was noticed on February 8, 2016 (ML16039A087). The list of meeting attendees is provided as Enclosure 1. The public meeting handouts are provided as Enclosure 2.

Discussion

AREVA explained their future licensing actions for the Model No. MP- 197 HB package:

- (1) An amendment request for Revision No. 8 of the certificate of compliance (CoC) will be submitted this summer to increase the maximum authorized assembly average burnup from 62 to 70 GWD/MTU. This amendment request, applicable only for the 69 BTH Dry Shielded Canister (DSC), will also include an alternate inner top cover plate closure weld design and changes to the fuel qualification tables currently included in Revision No. 7 of the CoC.
- (2) An amendment request for revision No. 9 of the CoC will be submitted later this year or early next year for significantly underburned fuel assemblies from the shutdown of Crystal River 3. This amendment request is required because the existing analyses and loading curves for the package do not allow underburned fuel assemblies and will be applicable only for the NUHOMS®-32PTH1 DSC.

There are about 1200 fuel assemblies from Crystal River 3 to be loaded. Some fuel assemblies are damaged, but not failed, and can fully perform their functions during handling. The licensing approach will consider: (i) what was done for Revision No. 7 of the CoC, (ii) the NRC Interim Staff Guidance 8, Revision 3, and (iii) the Regulatory Information Summary (RIS 2015-xx) which was not available at the time revision No. 7 of the CoC was issued.

The criticality evaluation will allow depleted control rods assembly for criticality control in addition to burnup credit. Depleted rods are of the Ag-In-Cd alloy rod type employed as PWR control rods.

The meeting went into a closed session to discuss specific details of the licensing approach as proposed by AREVA, e.g., limiting phenomena for PWR control rods, control rod swelling, design requirements, control rod in core insertion history and worth study, control rod depletion and load of poison rods in fuel assemblies.

Staff offered its views and comments and said the proposed licensing approach was well thought of. Staff made no regulatory commitments during the meeting.

Docket No. 71-9302
TAC No. L25084

Enclosure 1: Meeting Attendees
Enclosure 2: AREVA Presentation

B. Pham

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Enclosure 1: Meeting Attendees
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Distribution: Attendees, Lombard, Ruffin

G:/SFST/Saverot/71-9302 MP-197HB/Meeting Summary March 2016
G:/SFST/Saverot/71-9302 MP-197HB/AREVA TN slides for NRC pre application meeting March 16 2016 non-proprietary version.pdf

ADAMS Accession No.: ML16083A77 Enclosure 2: ML16083A080
ADAMS P8 Package No.: ML16083A070

OFC	SFM	E	SFM	C	SFM			
NAME	PSaverot		Wheatley		SRuffin			
DATE	03/18/2016		03/21/2016		03/22/2016			

C=Without attachment/enclosure E=With attachment/enclosure N=No copy

OFFICIAL RECORD COPY

**Meeting Between AREVA and the
Nuclear Regulatory Commission
March 16, 2016
Meeting Attendees**

NRC/NMSS/DSFM

Pierre Saverot

Zhian Li

Meraj Rahimi

DUKE ENERGY

David Barrientos

Ryan Stephens

AREVA

Prakash Narayanan

Philippe Pham

Jibu Abraham

Jun Li

Glenn Mathues