



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

August 28, 2019

MEMORANDUM TO: Christopher M. Regan, Deputy Director
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

FROM: Pierre Saverot, Project Manager /**RA John McKirgan Acting for**/
Spent Fuel Licensing Branch
Division of Spent Fuel Management
Office of Nuclear Material Safety
and Safeguards

SUBJECT: SUMMARY OF AUGUST 20, 2019 MEETING WITH HOLTEC
INTERNATIONAL

Background

On August 20, 2019, a Category 1 public meeting was held at the U.S. Nuclear Regulatory Commission (NRC) headquarters in Rockville, MD, between the NRC staff and representatives from Holtec International (Holtec) to present the Model No. HI-STAR PBT cask to support the transport of Tritium Producing Burnable Absorber Rods from the Watts Bar Units 1 and 2 to the Tritium Extraction Facility at the Savannah River site. The August 20, 2019, meeting was noticed on July 25, 2019 (Agencywide Documents Access and Management System Accession No. ML19206A064).

The meeting attendance list and the presentation are provided as Enclosure Nos. 1 and 2, respectively.

Discussion

The Model No. HI-STAR PBT package is a new package design for a road transport of Tritium Producing Burnable Absorber Rods (TBPAs) to the Savannah River Tritium Extraction Facility, using a dedicated trailer. Battelle, operated by Pacific Northwest National Laboratory, selected the HI-STAR PBT package, which will accommodate the maximum helium inventory from rods with a peak of 1.5 g of tritium.

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Holtec is not planning to do any physical testing for this new design and will use the evaluations from analytical modeling performed for previous applications. The Model No. HI-STAR PBT will use well known materials, such as stainless steel, lead and carbon steel, already approved in other applications. Each package will hold a maximum of 4 canisters, each containing 300 TBPAs, but the package design will also allow a partial loading of 1 to 3 canisters for transport.

The input provided by the applicant during this high-level pre-application meeting was well received.

Staff noted that, if published prior to the submittal of the application, the applicant should consider using NUREG-2224, "Dry Storage and Transportation of High Burnup Spent Nuclear Fuel," and not NUREG -1609 as indicated in the presentation.

Staff said that, because this is a unique and challenging case as there is only one other TBP package, several pre-application meetings will be needed to come to a successful conclusion for this Part 71 licensing action.

Holtec is contemplating a submittal in early 2021 for a certificate of compliance in mid-2022. Staff made no regulatory commitment during the meeting.

Docket No. 71-9386
EPID: L-2019-LRM-0051

Enclosures:

1. Meeting Attendees
2. Presentation

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DOCUMENT DATE: August 28, 2019

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ADimitriadis, RI

BBonser, RII

MKunowski, RIII

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ADAMS PKG No.: ML19241A225 Memo: ML19241A226 Slides: ML19241A227

OFC	SFM	E	SFM	C	SFM		
NAME	PSaverot		SFiguroa		JMcKirgan		
DATE	08/27/2019		08/27/2019		08/28/2019		

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**Meeting Between Holtec International
and the
Nuclear Regulatory Commission
August 20, 2019
Meeting Attendees**

NRC/NMSS/DSFM

Pierre Saverot
John McKirgan
Bernie White

HOLTEC INTERNATIONAL

Stefan Anton
Andrew Fernsten
Myron Kaczmarzsky
Larry Hansen
Kishore Gangadharan
Leo Katsikis

PNNL

Laurie Martin
Randall Storms
Harold Adkins
Laura Hay
Dean Paxton
Nanette Founds
Chad Thompson

UX Consulting

Carlyn Greene