



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

January 29, 2016

LICENSEE: NEXTERA ENERGY DUANE ARNOLD, LLC  
FACILITY: DUANE ARNOLD ENERGY CENTER  
SUBJECT: SUMMARY OF JANUARY 7, 2016, PRE-APPLICATION TELECONFERENCE WITH NEXTERA ENERGY DUANE ARNOLD, LLC, FOR DUANE ARNOLD SPENT FUEL CRITICALITY ANALYSES (CAC NO. MF6998)

On December 10, 2015, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of NextEra Energy Duane Arnold, LLC (NEE) at the NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of the meeting was to discuss Spent Fuel Pool (SFP) criticality analyses for Duane Arnold Energy Center (DAEC). The summary of the December 10, 2015, meeting is available in the Agencywide Documents Access and Management System (ADAMS) at Accession No. ML16006A042. The licensee requested a follow up teleconference to this meeting, to discuss additional information regarding this application.

During the teleconference, the following topic was discussed as a follow on to the December 10, 2015, meeting:

1. The primary discussion revolved around the scope of the analysis and hence review of two different SFP storage rack designs at DAEC; PaR and Holtec. DAEC is preparing a SFP storage license amendment because 2013 in situ measurements of the boron-10 ( $^{10}\text{B}$ ) areal density in its PaR designs indicate the  $^{10}\text{B}$  areal density is below that modeled in its analysis of record. During this meeting the licensee proposed two approaches.
  - a. Reanalyze the PaR design with a lower  $^{10}\text{B}$  areal density, while addressing interfaces with the other design.
  - b. Extrapolate the analysis of record for the Holtec design to the PaR design.

After considering questions from the NRC staff, DAEC indicated they will move forward with the first approach.

The other items discussed were the modeling of blisters on the PaR neutron absorbing material and the inclusion of a technical specification monitoring program for the neutron absorbing material. DAEC indicated their plan was to conservatively model the blisters and to include a technical specification monitoring program. The licensee did not provide any slides for this teleconference. There were some members of the public who participated in the conference. Public Meeting Feedback forms were offered but not requested by anyone.

A list of attendees is provided as an Enclosure.

Please direct any inquiries to me at 301-415-8371, or [Mahesh.Chawla@nrc.gov](mailto:Mahesh.Chawla@nrc.gov).



Mahesh Chawla, Project Manager  
Plant Licensing Branch LPL 3-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-331

Enclosure:  
List of Attendees

cc: Distribution via Listserv

LIST OF ATTENDEES

JANUARY 7, 2016, PRE-APPLICATION TELECONFERENCE

WITH

NEXTERA ENERGY DUANE ARNOLD, LLC

REGARDING DUANE ARNOLD ENERGY CENTER

SFP CRITICALITY ANALYSES

<b>NAME</b>	<b>ORGANIZATION</b>
	<b>NUCLEAR REGULATORY COMMISSION</b>
Mahesh Chawla	NRC/NRR/DORL/LPL3-1 <sup>1</sup>
Kent Wood	NRC/NRR/DSS/SRXB <sup>2</sup>
Scott Krepel	NRC/NRR/DSS/SRXB <sup>2</sup>
Matt Yoder (via phone)	NRC/NRR/DE/ESGB <sup>3</sup>
Aloysius Obodoako	NRC/NRR/DE/ESGB <sup>3</sup>
Khadijah West	NRC/NRR/DSS/STSB <sup>4</sup>
	<b>NEXTERA ENERGY DUANE ARNOLD, LLC</b>
William Cross	Fleet Regulatory Programs Manager
Emilio Fuentes	Nuclear Fuel Manager
Courtney Thomas	Nuclear Fuels Engineer
	<b>MEMBERS OF PUBLIC</b>
Charles Rombough	CTR Technical Services, Inc
Dale Lancaster	Nuclear Consultants
Kasy Kennet	Nuclear Consultants
Robert Hall	Dominion – Consulting Engineer

1 Office of Nuclear Reactor Regulation, Division of Operating Reactor Licensing, LPL3-1

2 Office of Nuclear Reactor Regulation, Division of Safety Systems, Reactor Systems Branch

3 Office of Nuclear Reactor Regulation, Division of Engineering, Steam Generator Tube Integrity and Chemical Engineering Branch

4 Office of Nuclear Reactor Regulation, Division of Safety Systems, Technical Specifications Branch

Enclosure

Please direct any inquiries to me at 301-415-8371, or [Mahesh.Chawla@nrc.gov](mailto:Mahesh.Chawla@nrc.gov).

*/RA/*

Mahesh Chawla, Project Manager  
Plant Licensing Branch LPL 3-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-331

Enclosure:  
List of Attendees

cc: Distribution via Listserv

**DISTRIBUTION:**

PUBLIC

LPL 3-1 R/F

RidsACRS\_MailCTR Resource

RidsNrrDorlLpl3-1 Resource

RidsNrrPMMChawla Resource

RidsNrrLAMHenderson Resource

RidsRgn3MailCenter Resource

TWertz, NRR

KWood, NRR

SKrepel, NRR

KWest, NRR

AObodoako, NRR

MYoder, NRR

TSantos, EDO Region 3

**ADAMS Accession No.: ML16028A116**

**\*via email**

OFFICE	NRR/DORL/LPL3-1/PM	NRR/DORL/LPL3-1/LA	NRR/DSS/SRXB/BC (A)	NRR/DE/ESGB/BC
NAME	MChawla	MHenderson	EOesterle*	GKulesa*
DATE	1/29/2016	1/29/2016	1/19/2016	1/20/2016
OFFICE	NRR/DSS/STSB/BC	NRR/DORL/LPL3-1/BC	NRR/DORL/LPL3-1/PM	
NAME	RElliott*	DWrona	MChawla	
DATE	1/21/2016	1/29/2016	1/29/2016	

**OFFICIAL RECORD COPY**