



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

February 27, 2013

LICENSEE: Duke Energy Carolinas, LLC

FACILITY: Oconee Nuclear Station, Units 1, 2, and 3

SUBJECT: SUMMARY OF JANUARY 30, 2013, MEETING WITH DUKE ENERGY CAROLINAS, LLC, TO DISCUSS ONGOING MAJOR PROJECTS AT OCONEE NUCLEAR STATION, UNITS 1, 2, AND 3

On January 30, 2013, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Duke Energy Carolinas, LLC (the licensee) at the Oconee Nuclear Station visitors center in Seneca, South Carolina. The purpose of the meeting was to allow the licensee to update the NRC staff on the status of the ongoing major projects at the Oconee Nuclear Station, Units 1, 2, and 3 (ONS 1/2/3). A list of attendees is enclosed. The NRC's meeting slides are available from the Agencywide Documents Access and Management System (ADAMS) on the NRC web site, [www.nrc.gov](http://www.nrc.gov), under Accession No. ML13035A244. The licensee's meeting slides are at ADAMS Accession No. ML13035A233.

The licensee presented a summary of the status of the following major projects which are ongoing at ONS 1/2/3:

- Digital Reactor Protective System (RPS) and Engineered Safeguards (ES) system
- Protected Service Water (PSW) system
- Installation of Main Steam Isolation Valves (MSIVs)
- National Fire Protection Association (NFPA) Standard 805 Transition

The licensee is currently replacing the existing RPS and ES systems in all three Oconee units with new state of the art digital systems. These systems are used to automatically actuate reactor shutdown and actuate ES systems if needed to maintain the reactors in a safe and stable condition. The licensee stated that the new RPS and ES systems are now operational in Units 1 and 3, with installation planned for Unit 2 during the Fall 2013 refueling outage.

The licensee is in the process of installing a new PSW system. The PSW system is required by the NRC's license amendment which approved the transition from the original fire protection program to a fire protection program based on NFPA 805. The PSW system is a diverse system to other plant systems, and can be used to maintain the reactors in a safe shutdown condition if needed for accidents such as fires and high energy line breaks (HELBs). The PSW system consists of new electrical power supplies for existing plant safety systems, as well as a replacement pump for the station auxiliary service water pump, which adds water to the steam generators in order to remove decay heat from the reactor coolant system once the reactor is shutdown, if the normal plant systems are not available. The installation of the PSW system will reduce the overall plant risk in the event of a fire or HELB at the Oconee site. During the meeting the licensee indicated that although the majority of the system has been installed, they are experiencing delays in completing the PSW system installation. The licensee submitted a formal request to the NRC to extend the required completion date of January 1, 2013. The NRC

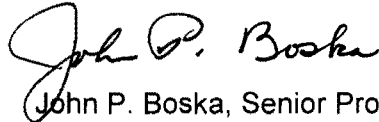
denied the extension request by letter dated January 15, 2013, ADAMS Accession No. ML12345A201, due to the risk significance of this plant modification and the need to have it installed in a timely manner. The licensee stated that they have augmented the management of the PSW project and will be improving the projected in-service date of the first phase of the project, which will allow the PSW building to supply electrical power to the Standby Shutdown Facility (SSF) in the event of a failure of the SSF diesel generator. However, before installing the new PSW pump in the auxiliary building, they still need to resolve area ventilation issues and reduce potential heat buildup during scenarios that rely on the PSW system. NRC management stressed the importance of achieving the risk benefit from the PSW system.

The licensee has planned for some time to install MSIVs for all three Oconee units. The MSIVs would provide additional margin to ensure high energy line breaks (HELBs) can be mitigated. However, the licensee stated that the MSIVs provide only a small risk improvement and the cost of the project has increased significantly since it was originally proposed. The licensee stated that they would be considering other alternatives to MSIVs, but no decision has been made at this time.

ONS 1/2/3 is in the process of transitioning to the NFPA 805 standard for compliance with the NRC fire protection regulations, Title 10 of the *Code of Federal Regulations*, Part 50, Section 50.48. The NRC staff issued the license amendments approving the transition on December 29, 2010 (ADAMS Accession No. ML103630612). The licensee acknowledged that they are behind schedule on installation of the PSW system, which is required by the license amendments. The licensee described the additional work they have completed or have in progress as part of the transition to NFPA 805, and described compensatory measures that are in place until the plant modifications are completed.

Public Meeting Feedback forms were made available at the meeting. As of the date of this meeting summary, no feedback forms have been received. The NRC and the licensee also held a non-public portion of the meeting. This portion of the meeting was closed to the public because sensitive security-related information was discussed.

Please direct any inquiries to me at 301-415-2901, or by email to [John.Boska@nrc.gov](mailto:John.Boska@nrc.gov).

A handwritten signature in black ink that reads "John P. Boska". The signature is written in a cursive style with a large initial "J".

John P. Boska, Senior Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-269, 50-270, and 50-287

Enclosure:  
List of Attendees

cc w/encls: Distribution via Listserv



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

MEETING ATTENDANCE FORM

Subject: Oconee Nuclear Station Major Projects Meeting

Date: January 30, 2013 Location: Oconee Visitor's Center

PLEASE PRINT LEGIBLY

NAME	ORGANIZATION
David Goforth	Duke Energy
ALAN K. BECICMAN	SHAW GROUP
Chuck Williams	PSW Project
David Rochester	PSW Project
Paul O Johnson	Morgan Corp.
Florence P. Bulger	SC ORS
Allyn Powell	SC ORS
Eddy Fortner	PSW Project
Chris McCluskey	SCDHEC
Michael Spradlin	SCDHEC
CHRIS NOWA	Duke Energy
Dean Hubbard	Duke Energy
Jim Pollock	Duke Energy
Fred Rickenbaker	Duke Energy
BOB MINA	MORGAN CORP.
JOHN A CLAY	RESIDENT OCONEE COUNTY
ERIC CONNOR	Q'NEWS
JOSEPH STOKER	NEIGHBOR
LARRY ARMSTRONG	SEME
SUE EDWARD	dflosue@EARTHLINK.NET Green Party



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Subject: Oconee Nuclear Station Major Projects Meeting

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Location: Oconee Visitor's Center

PLEASE PRINT LEGIBLY

NAME	ORGANIZATION
John Boska	NRC / NRR
Mark Ceraldi	SGT / AREVA
Rod Buckles	CWFC / Sciencetech
Tom THRASHER	Public
Fred Owens	Public
DICK MANGRUM	WGOG
Ray Church	Anderson consultant
Eddy Crowe	NRC / OCO SRI
Kevin Ellis	NRC / OCO RI
Greg Green	NRC / OCO RI
Michelle Evans	NRC / NRR
Len Kent	NRC / RTI
Bob Pascarelli	NRC / NRR
Eric Leads	NRC / NRR
Rich Crestau	NRC / RTI
Jonathan Bartley	NRC / RTI



Please direct any inquiries to me at 301-415-2901, or by email to John.Boska@nrc.gov.

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John P. Boska, Senior Project Manager  
Plant Licensing Branch II-1  
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**ADAMS Accession No. PKG ML13053A318**

Meeting Notice: ML13011A160

Meeting Summary: ML13053A322

NRC slides: ML13035A244

Licensee slides: ML13035A233

OFFICE	DORL/LPL2-1/PM	DORL/LPL2-1/LA	DORL/LPL2-1/BC	DORL/LPL2-1/PM
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DATE	02/22/13	02/27/13	02/27/13	02/27/13

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