September 20, 2006

LICENSEES: Union Electric Company (UECo)
Wolf Creek Nuclear Operating Corporation (WCNOC)

FACILITIES: Callaway Plant, Unit 1
Wolf Creek Generating Station

SUBJECT: SUMMARY OF AUGUST 16, 2006, MEETING WITH REPRESENTATIVES OF WOLF CREEK NUCLEAR OPERATING CORPORATION AND UNION ELECTRIC COMPANY

A meeting was held on Wednesday, August 16, 2006, between the Nuclear Regulatory Commission (NRC) staff and the licensees for the Callaway Plant, Unit 1 (Callaway) and Wolf Creek Generating Station (Wolf Creek). The meeting was held at the request of the licensees for them to present the design of the main steam isolation valves (MSIVs) at their plants, and the requirements in the plant Technical Specifications (TSs) on these valves. This presentation was not part of any license amendment request submitted by the licensees to the NRC. The notice for the meeting was issued on August 4, 2006.

Enclosure 1 is the list of attendees. Enclosure 2 is the meeting handout provided by the licensees; there was no handout from the NRC staff.

Each plant has four steam generators (SGs) with a main steam line from each SG to the steam line header that provides steam to the single high-pressure steam turbine. Each of these main steam lines has a single MSIV to isolate, if needed during an accident, the steam turbine from the SG. Therefore, each plant has four MSIVs. Each MSIV has two actuator trains, each of which can close the valve. Each actuator train alone is capable of closing the valve within the time frame needed for the design-basis accidents. The MSIVs are addressed in TS 3.7.2, "Main Steam Isolation Valves," for both plants.

The NRC staff is in the process of making a determination as to the effect of a single inoperable actuator train on the operability, with respect to the TSs, of the associated MSIV. The licensees' presentations provided information germane to this determination.

The following agenda was presented by WCNOC during the first part of the meeting:

- Introductions (page 1 of Enclosure 2)
- Purpose of Meeting (page 2)
- MSIV/Main feedwater isolation valves (MFIS) Description and Operation (pages 3 through 8)
- Design Bases (pages 9 and 10)
- Safety Analyses (pages 11 through 17)
- TSs (pages 18 through 22)
- Conclusion (pages 23 and 24)

WCNOC addressed both MSIVs and MFIVs because at Wolf Creek Generating Station these valves have two actuator trains, each of which can close the valves. In its presentation on the design bases and safety analyses of the MSIVs, WCNOC stated that (1) the design bases for the MSIVs are that no single failure can prevent any MSIV from performing its required function and (2) the safety function for the MSIVs is to close in an accident within the 5 seconds required by the accident analyses. The Wolf Creek MSIV accident analyses are different from those of Callaway in that only three of the four MSIVs are required to close for Wolf Creek, whereas all the MSIVs are required to close for Callaway.

Following WCNOC's presentation, UECo presented the information provided in its handout, which is the last four pages of Enclosure 2.

UECo's presentation addressed the following: (1) the licensee's initial efforts to address the MSIV actuator inoperability, (2) the licensee's TS interpretation, (3) MSIV actuator operability issue identified in 2005, and (4) subsequent development and current status of this issue.

The NRC staff discussed with the licensees the MSIV design at both plants, the rules and practices of the TSs, and how the existing TS 3.4.15 should be interpreted with respect to the actuator trains on these valves.

The NRC staff did not draw any conclusions about the operability of an MSIV with respect to one of the two actuator trains being out-of-service. The NRC staff completed its discussion of the licensees' presentations, and the meeting was closed.

Please direct any inquiries to me at 301-415-1307, or JND@nrc.gov.

/RA/

Jack Donohew, Senior Project Manager
Plant Licensing Branch IV
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos: 50-482 and 50-483

Enclosures: 1. List of Meeting Attendees
2. Licensees' Handout

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/RA/
Jack Donohew, Senior Project Manager
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Division of Operating Reactor Licensing
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OFFICE	LPLIV/PM	LPLIV/LA	ITSB/SC	LPLIV/BC
NAME	JDonohew	LFeizollahi	TKobetz	DTerao
DATE	9/18/06	9/20/06	9/19/06	9/20/06

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LIST OF ATTENDEES AT MEETING OF AUGUST 16, 2006

WITH REPRESENTATIVES OF UNION ELECTRIC COMPANY AND

WOLF CREEK NUCLEAR OPERATING CORPORATION

NAME	AFFILIATION
J. Donohew	NRC/NRR/LPLIV
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M. Zobler	NRC/OGC
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F. Laflin	WCNOC
G. Clarkson	WCNOC
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Where:

ITSB	=	Technical Specification Branch
LPLIV	=	Plant Licensing Branch IV
NRC	=	Nuclear Regulatory Commission
NRR	=	Office of Nuclear Reactor Regulation
OGC	=	Office of the General Counsel
RIV	=	Region IV
UECo	=	Union Electric Company
WCNOC	=	Wolf Creek Nuclear Operating Corporation

Enclosure 1

LICENSEES' HANDOUT FOR AUGUST 16, 2006, MEETING

The licensees' handout (ADAMS* Accession No. ML062280437) consists of the following:

1. Handout (24 pages) by Wolf Creek Nuclear Operating Corporation (WCNOC)

2. Handout (4 pages) by Union Electric Company (UECo)

* = Agencywide Documents Access and Management System

Enclosure 2

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