



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

April 14, 2014

MEMORANDUM TO: Ronaldo V. Jenkins, Branch Chief
Licensing Branch 3
Division of New Reactor Licensing
Office of New Reactors

FROM: Tom M. Tai, Senior Project Manager /RA/
Licensing Branch 3
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: SUMMARY OF PUBLIC MEETING TO DISCUSS OPEN PHASE
CONDITIONS RELATING TO NUCLEAR INNOVATION NORTH
AMERICA'S SOUTH TEXAS PROJECT UNITS 3 AND 4 COMBINED
LICENSE APPLICATION ON MARCH 24, 2014

On Monday, March 24, 2014, the U.S. Nuclear Regulatory Commission's staff held a public conference call from 2:30 p.m. to 5:00 p.m. with members of Nuclear Innovation North America's (NINA). The purpose of the conference call was to discuss the status of the remaining open items related to the NINA Combined License Application. A summary of the discussion is in Enclosure 1. The list of participants for the meeting is included as Enclosure 2.

CONTACT: Tom M. Tai, NRO/DNRL/LB3
(301) 415-8484

Docket Nos.: 52-012, 52-013

Enclosures:
As stated

cc w/encl: See next page

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SUBJECT: SUMMARY OF PUBLIC MEETING TO DISCUSS OPEN PHASE CONDITIONS
RELATING TO NUCLEAR INNOVATION NORTH AMERICA'S SOUTH TEXAS
PROJECT UNITS 3 AND 4 COMBINED LICENSE APPLICATION ON MARCH 24,
2014

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March 24, 2014 Meeting Summary

On March 24, 2014, a telephone conference was held between NINA and the staff to discuss the proposed plan to address the open phase conditions described in Bulletin 2012-01, "Design Vulnerability in Electric Power System," July 27, 2012. The proposed design change and associated proposed revision to the FSAR and the Technical Specification is in ADAMS, assessment number ML14080A119.

The NINA proposal involves detection and control room alarm for open phase conditions on the grid side of the main power transformer and on both reserve auxiliary transformers. In addition, a new design to the COL application to monitor and to protect the three 4.16 kV Class 1E buses for negative sequence voltage will be implemented. Subsections 8.2 and 8.3 of the FSAR will be revised to reflect these changes. A proposed new ITAAC, Table 3.0-29, "Detection and Protection of Open Phase Events on the Main Power and Reserve Auxiliary Transformers" will be added to Part 9 of the application. Technical Specifications, TS 3.3.1.4, "ESF Actuation Instrumentation" will also be added to add negative sequence voltage instruments.

The applicant considered this proposal appropriate because it provides detection and alarm in the control room in case of an open phase condition on the grid side of the main and reserve auxiliary transformers. The operators will have procedures and training to respond to this occurrence. This proposal also provides protection of the Class 1E buses to ensure motors on the Class 1E buses are not subjected to unbalanced currents and voltages if the open phase results in negative sequence voltages on the Class 1E buses. The TS surveillances will ensure that these negative sequence voltage instruments are able to perform their protective functions.

The NRC staff considered the presentation but there is insufficient details to properly assess the adequacy of proposal. It was agreed that a public meeting when the applicant has more design information, such as results from design calculations, will be held. A tentative date for this public meeting during the first week of April is planned.

The meeting was adjourned on schedule.

Enclosure 1

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March 24, 2014

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Enclosure 2

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(Revised 12/17/2013)

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