

March 5, 2014

MEMORANDUM TO: Michael Junge, Chief
Operator Licensing and Human Performance Branch
Division of Construction Inspection
& Operational Programs
Office of New Reactors

FROM: Jim Kellum **/RA/**
Operator Licensing and Human Performance Branch
Division of Construction, Inspection
& Operational Programs
Office of New Reactors

SUBJECT: SUMMARY OF FEBRUARY 19, 2014, PUBLIC MEETING WITH
AP-1000 OWNERS GROUP ON NEW REACTOR OPERATOR
LICENSING

On February 19, 2014, the U.S. Nuclear Regulatory Commission (NRC) staff held a Category 2 public meeting with the AP-1000 Owners Group (APOG) on New Reactor Operator Licensing at the NRC Region II Offices in Atlanta, GA. This meeting was to discuss scheduling and the ongoing issues and challenges to administering licensed operator examinations for new AP1000 units. Enclosure 1 lists the attendees at the meeting. Enclosure 2 is the meeting agenda.

The NRC staff discussed with the APOG the future examination schedule and potential issues to completing the exams. One of the biggest factors that may affect the scheduled exams is completion of the instrumentation and controls design and subsequent plant reference simulator (PRS) development. Both APOG and Westinghouse personnel discussed actions they are taking to have the PRS available when needed to support the exam schedule. The NRC staff reiterated that scheduling for operator examinations is done well in advance and affects not only new reactors but the examination schedule for the operating plants as well. The industry is continuously evaluating the examination schedule and will inform the NRC as far in advance as possible of any potential schedule adjustments. NRC staff proposed increasing the number of applicants for the operating exam to exceed 24 candidates. SCANA staff does not believe they can support more than 24 candidates in one exam.

Possible methods of conducting Job Performance Measures (JPMs) were discussed, including 3D models and labs, since a significant portion of plant equipment may not yet be installed when the first exams are given. The APOG provided a list of the systems expected to be available for performance of in-plant JPMs for the first scheduled exam date (May 2015) and agreed to update the list based on construction progress at each of the upcoming NRC/APOG

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public meetings. Of concern is that there may not be enough systems available so that non-predictability for the exam is maintained. The NRC staff is currently evaluating options for conducting the required three in plant JPMs. It was also reiterated by the NRC staff that the in-plant JPMs are part of the operational test and are required to complete the examination.

The NRC staff stated the revision (Rev. 10) to NUREG-1021, Operator Licensing Examination Standard for Power Reactors and was out for public comment and that the public comment period closed on February 7, 2014. The comments are undergoing internal NRC review; all comments will be reviewed, and incorporated if appropriate.

The NRC staff and APOG discussed the Institute of Nuclear Power Operation (INPO) accreditation follow-up visit to Vogtle 3 & 4 for the operations training programs. Two NRC staff members observed the follow-up visit. INPO identified several 'gaps' and pluses. The gaps are being addressed by the utility staff.

The 240 hour requirement for 'cold license' candidates without hot experience was discussed with the NRC staff and APOG agreeing this observation should not take place sooner than completion of plant systems training.

The next quarterly meeting is tentatively scheduled for June 18, 2014 at the NRC Technical Training Center in Chattanooga, TN.

Action items for both the industry and the NRC were assigned and will be reviewed at the next meeting. Tentative agenda items for the next meeting were also listed.

Questions and comments raised by meeting participants will be evaluated by the NRC staff.

Enclosures:

1. List of Attendees
2. Agenda

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REgli, TTC

Charles Sawyer (charles.sawyer@duke-energy.com)

NRC/APOG AP-1000 OWNERS GROUP ON
NEW REACTOR OPERATOR LICENSING
December 17, 2013

Name	Organization
Gene Guthrie	NRC / R-II
Dan Bacon	NRC / R-II
Jim Kellum	NRC / NRO
J. Amanda Toth	NRC/ R-II
Gerry Laska	NRC / R-II
Charles Sawyer	Duke Energy
Thom Ray	Westinghouse
Andy Barbee	SCE & G
Mike Junge	NRC / NRO
Mark Verbeck	Southern Nuclear
Charlie Nesbitt	Southern Nuclear
Leon Ray	Southern Nuclear
Melinda Bogart	GEH
Dick Sweigart	Duke
Terry McCool	FPL
Thomas Ray	Westinghouse
Gary Callaway	NRC/TTC
Matt Emrich	NRC / TTC
Al Harris	SCE & G
Neil Constance	SCE & G
Mark Bates	NRC/ R-II
Michael Meeks	NRC / R-II
Phil Capehart	NRC/ R-II
Richard Broward	Duke
Keith Pope	SCE & G
Paul Mothena	SCE & G
Rick Connolly	Southern Nuclear
Mark Miller	NRC / R-II
Jason Weathersby	SCANA
Tom Kuhar	Westinghouse
Bruno Caballero	NRC / R-II
Ralph Hayes	GE
Tim Dennis	Public

AGENDA FOR THE CATEGORY 2 PUBLIC MEETING WITH THE
AP1000 OWNERS GROUP ON NEW REACTOR OPERATOR LICENSING

Wednesday, February 19, 2014
8:30 a.m. - 12:30 p.m.
Nuclear Regulatory Commission
Marquis One Tower,
Conference Room RII-1486-32p (14th floor)
245 Peachtree Center Avenue N.E.
Atlanta, GA 30303

TOPIC	LEAD
Introductions and opening remarks	NRC
Public input	Public
• Written exam	
- Schedule	NRC/APOG
- APOG proposal for meeting the intent of the 240 hour cold license requirement for SROs without hot plant experience	APOG
- APOG alignment on rewording of white paper for blocks 17 and 19.	APOG
• Simulator	
- Status/schedule	APOG
- Observation of FAT and HFE V & V	NRC/APOG
- Overview of 2/12 Cranberry meeting	NRC/APOG
- Simulator inspection	NRC/APOG
- Proposed schedule for more than 24 candidates for an operating exam	APOG
• JPMs – in-plant system availability / alternate methods, etc.	
- Systems anticipated being available for JPM performance	APOG
• Discuss Vogtle Ops accreditation follow-up visit	NRC/APOG
• NUREG 1021 revision status update	NRC

- Follow-up topics/questions from APOG meeting January 29th and 30th NRC/APOG
 - Miscellaneous/Emergent topics NRC/APOG
- Public input Public
- Summary / Conclusion / Action item review NRC