

February 24, 2012

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 2, 2012, PUBLIC MEETING WITH  
AP-1000 OWNERS GROUP ON NEW REACTOR OPERATOR  
LOCENSING

On February 2, 2012, 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 Region II Offices in Atlanta, GA to discuss potential changes to the licensed operator examination process. Enclosure 1 lists the attendees at the meeting. Enclosure 2 is the meeting agenda. Attachments 1 and 2 are the draft sample plans prepared by NRC staff using draft NUREG-2103, "Knowledge and Abilities Catalog for Nuclear Power Plant Operators, Pressurized-Water Reactors, Westinghouse AP-1000" (ML11307A367), and NUREG-1021, Operator Licensing Examiner Standards (Revision 9, Supplement 1). This meeting discussed the ongoing progress in developing and administering effective new reactor operator licensing examinations.

This meeting discussed the outcome of the NRC examiner's observation of Vogtle and Summer operator candidates on the Westinghouse simulator at Cranberry Township, PA in November of 2011. The NRC sent four qualified examiners who determined that only minor enhancements are needed to the NUREG-1021 Examiner Standard Section 303 RO and SRO Competency Grading Worksheet forms. These minor changes were discussed at the meeting and included such things as adjusting weighing factors and competency wording for AOP and EOP entry conditions. These changes would also be applicable to the legacy plants.

The APOG was also to discuss any significant changes to the Conduct of Ops Procedure that had been incorporated since the November simulator observation. The APOG stated that no significant changes had been made since November but they expected each utility to take the generic Westinghouse Conduct of Ops Procedure and modify it to align with their fleet procedures. There was some discussion on the utilities strengthening the aspect of SRO command and control.

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The NRC staff presented for discussion and comment the pilot examination sample plans based on draft NUREG-2103, "Knowledge and Abilities Catalog for Nuclear Power Plant Operators, Pressurized-Water Reactors, Westinghouse AP-1000" and NUREG-1021, Operator Licensing Examiner Standards. Two Region II examiners independently developed a sample plan and stated they were completed without any substantial difficulty using NUREG-2103. The sample plan developers detailed the development of the sample plans and entertained questions regarding the development. Region II is going to develop the sample plan generator for use for AP-1000 plants.

The NRC staff and APOG discussed the critical tasks for AP-1000 and exam administration. After much discussion including identified risk important human actions, the industry agreed to develop a list of critical tasks for the AP-1000. These critical tasks will then be used for exam development per NUREG-1021 including its tentative new section (ES-401N) for AP-1000 exams. The discussion also migrated to a limited discussion on the conduct of job performance measures (JPMs) with the plant in a partially built condition. Different possible mechanisms for conducting JPMs were considered and this topic was left for later consideration.

The NRC staff and APOG agreed on the need for periodic meetings to continue to gauge and develop the exam process. A periodicity of quarterly for the meetings was deemed to be acceptable. Action items for both the industry and the NRC would be reviewed at these meetings. The NRC also agreed to send additional examiners to observe Vogtle and Summer simulator training for further input on how best to evaluate the license candidates on the simulator. The NRC agreed to have a closed public meeting within the next six months on exam writing for the AP-1000 exam. This meeting will be closed due to the use of proprietary information.

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

Enclosures: As stated

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NRC/APOG AP-1000 OWNERS GROUP ON  
NEW REACTOR OPERATOR LICENSING  
February 2, 2012

Name	Organization
Mike Junge	NRC / NRO
Bruno Caballero	NRC / R-II
Jim Kellum	NRC / NRO
Ron Aiello	NRC / R-II
Mark Franke	NRC / R-II
Charles Sawyer	Duke Energy
Paul Hippely	Westinghouse
Thomas Kuhar	Westinghouse
Tony Spring	Southern Nuclear
Mark Riches	NRC / RII
Charlton Salter	Southern Nuclear
R. Scott Egli	NRC/TTC
W. Tom Ryan	TVA
Joel Mundayi	NRC / RII
Dan Meekhoff	Dominion
Tim Clouser	Luminant
Gregory Sparks	MNES
David Lanyi	NRC / RII
Amanda Toth	NRC / RII
Michael Meeks	NRC / RII
Malcolm Widmann	NRC / RII
Dave Oliver	NRC / RIII
Gerald Laska	NRC / RII
Mark Bates	NRC / RII
Richard DeVercelly	NRC / TTC
Donald Jackson	NRC / RI
Neil Constance	SCANA
Paul Mothena	SCANA
Raymond Patterson	SCANA
Wesley Sparkman	Southern Nuclear

AGENDA FOR THE CATEGORY 2 PUBLIC MEETING WITH THE  
AP-1000 OWNERS GROUP ON NEW REACTOR OPERATOR LICENSING

Thursday, February 2, 2012  
8:30 a.m. - 4:00 p.m.  
Nuclear Regulatory Commission  
Marquis One Tower, [Room 945]  
245 Peachtree Center Avenue N.E.  
Atlanta, GA 30303

TOPIC

LEAD

Introductions and Opening Remarks	NRC/APOG
Public Input	Public
Discussion of Cranberry Simulator Observation	NRC/APOG
Review APOG Conduct of Ops Procedure	APOG
Review of mock sample plans	NRC/APOG
Public Input	Public
Lunch	11:30 – 12:15
Review of mock sample plans(cont.)/discuss challenges	NRC/APOG
Discussion on critical tasks	NRC/APOG
Discussion on potential changes to NUREG-1021	NRC/APOG
Public Questions and Answers	Public
Summary / Conclusion / Action Item Review	NRC/APOG