

July 7, 2013

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

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

SUBJECT: SUMMARY OF JULY 2, 2013, PUBLIC MEETING WITH AP-1000
OWNERS GROUP ON NEW REACTOR OPERATOR
LICENSING

On July 2, 2013, 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 Technical Training Center in Chattanooga, TN to discuss the ongoing issues, challenges and concerns to administering licensed operator examinations under the existing process for new AP-1000 units. Enclosure 1 lists the attendees at the meeting. Enclosure 2 is the meeting agenda.

The NRC staff discussed with the APOG the required knowledge of the plant Technical Specifications for license operator candidates for new reactors. The presentation provided by Region II staff is attached as attachment 1. The future examination schedule and potential issues to completing the exams were discussed.

One of the biggest concerns is plant reference simulator (PRS) development. Both APOG and Westinghouse personnel discussed actions they are taking to attempt to have the PRS available as 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 legacy plants. The industry is continuously evaluating the examination schedule and will inform the NRC as far in advance as possible of any required schedule adjustments.

Possible methods of conducting Job Performance Measures (JPMs) were discussed, such as mockups, 3D models and labs, since a significant portion of plant equipment will not yet be installed when the first exams are given. 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 will be required to complete that portion of the examination.

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The revision to NUREG-1021, Rev. 10, "Operator Licensing Examination Standard for Power Reactors," is drafted and on track to be issued near the end of calendar year 2013; currently it is being reviewed by the NRC Technical Editing group.

The NRC staff and APOG discussed inspection of the differences training for candidates licensed before fuel load and up to plant startup. It is expected that this evaluation will be similar to a requalification inspection.

The NRC Technical Training Center staff presented two examples of recurring problems with Senior Reactor Operator Only questions. This short presentation was to assist APOG examination writers who are beginning to develop examination questions. This presentation is attached as attachment 2.

The next quarterly meeting is tentatively scheduled for October 8, 2013 at NRC Region II Offices in Atlanta, GA.

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 identified.

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
 July 2, 2013

Name	Organization
Mark Franke	NRC / R-II
Dan Bacon	NRC / R-II
Jim Kellum	NRC / NRO
J. Amanda Toth	NRC/ R-II
Malcolm Widmann	NRC / R-II
Charles Sawyer	Duke Energy
Tom Kuhar	Westinghouse
Andy Barbee	SCANA
Gary Calloway	NRC / TTC
Mark Verbeck	Southern Nuclear
Rick DeVercelly	NRC / TTC
Jana Bergman	Public / Curtiss Wright
Leon Ray	Southern Nuclear
Paul Hippley	Westinghouse
Key Warren	Southern Nuclear
Michael LLewellyn	INPO
Terry McCool	FPL
Dick Swiegart	Duke
Scott Egli	NRC / TTC
Al Harris	SCANA
Neil Constance	SCANA

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

Tuesday, July 2, 2013
8:30 a.m. - 12:30 p.m.
Nuclear Regulatory Commission
5746 Marlin Rd., Room 4A
Chattanooga, TN 37411

<u>TOPIC</u>	<u>LEAD</u>
Introductions and opening remarks	NRC
Public input	Public
“Above the line” Tech. Spec. response from Mark Bates	NRC/APOG
AP-1000 simulator development	
• Status	APOG
• Discuss procedures and amount of FAT and HFE V&V NRC to observe	APOG/NRC
Examination schedule/development	APOG/NRC
Discussion of potential waivers	APOG/NRC
JPMs	
• in plant system availability / alternate methods	NRC/APOG
• Construction schedule outlook	APOG
Status of revision to NUREG-1021	NRC
Inspection of differences training	NRC/APOG
Action Item Review from Previous Meeting not discussed above	NRC/APOG
Miscellaneous/Emergent topics	NRC/APOG
Public input	Public
Summary / Action item review / Conclusion	NRC