September 20, 2002

MEMORANDUM TO: Christopher I. Grimes, Director

Policy and Rulemaking Program

Division of Regulatory Improvement Programs, NRR

FROM: Peter C. Wen, Project Manager /RA/

Policy and Rulemaking Program

Division of Regulatory Improvement Programs, NRR

SUBJECT: SUMMARY OF AUGUST 29, 2002, MEETING WITH NUCLEAR

ENERGY INSTITUTE REGARDING OPERATOR LICENSING ISSUES

On August 29, 2002, the NRC staff held a public meeting with the Nuclear Energy Institute (NEI) to discuss issues related to the implementation of Revision 8 of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors." Attachment 1 lists the attendees at the meeting.

This was the latest in a series of public "focus group" meetings intended to promote the efficient, effective, and consistent preparation and administration of initial operator licensing examinations. The meeting focused primarily on the status of outstanding issues that had been raised during prior meetings, the last of which was held on February 27, 2002. (Refer to ADAMS Accession Number ML020860504 for a summary of that meeting). Attachment 2 is the agenda for the meeting; the discussion topics are summarized in Attachment 3.

Representatives of the NRC and the industry agreed that this meeting was useful for the exchange of information on this subject.

Project No. 689

Attachments: As stated

cc w/atts: See list

MEMORANDUM TO: Cynthia Carpenter, Program Director September 20, 2002

Policy and Rulemaking Program

Division of Regulatory Improvement Programs, NRR

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List of Attendees - NRC / NEI Meeting - August 29, 2002		
Name	Organization	
Bruce Boger	NRC / HQ	
Ted Quay	NRC / HQ	
Dave Trimble	NRC / HQ	
Richard Conte	NRC / RI	
Kent Hamlin	INPO	
Kurt Markling	NMC	
Gerald Allex	NMC	
Kerry Wright	Seabrook / NAESCO	
Chuck Sizemore	NMC	
George Usova	NRC / HQ	
Mike Ernstes	NRC / RII	
Fred Guenther	NRC / HQ	
John Munro	NRC / HQ	
Roger Huston	Licensing Support Services	
Roger Lanksbury	NRC / RIII	
Philip Nielsen	Exelon	
Don Jackson	PSEG	
Gregg Ludlam	Progress Energy / CP&L	
Jim Davis	NEI	
Fred Riedel	APS	
Robert Evans	NEI	
William Quick	SCE&G	
Kurt Rauch	SCE	
Richard Chin	PPL	
Richard Baldwin	NRC / RII	
Gary Ellis	TXU	
Marvin Sykes	NRC / HQ	

AGENDA FOR NRC/NEI MEETING ON OPERATOR LICENSING ISSUES August 29, 2002; 9:00 a.m. - 2:00 p.m.

<u>TIME</u>	TOPIC	<u>LEAD</u>
9:00	Introductions and Opening Remarks	NRC/NEI
9:15	NRC Experience Since the Last Meeting	NRC
	 Requalification Issues (cycle requirements, item repetition) LSRO reactivations "Peer Checker" guidance issued 	
9:45	Industry Experience Since the Last Meeting	NEI
10:15	INPO Update	INPO
10:30	Public Input	Public
10:45	Proposed Long-term Examination Options	NRC/NEI
11:45	Operator License Eligibility Issues	NRC/NEI
12:00	Lunch	
12:30	Generic Fundamentals Examination Issues	NRC/NEI
	Frequency and lengthGFE K/AsHow early can it be taken / how long is it good?	
1:15	Reactivity Manipulation Rule Change Implementation	NRC
	Examiner guidanceDo we need a national workshop?	
1:30	Public Questions and Answers	Public
1:45	Summary / Conclusion / Action Item Review	NRC/NEI

Operator Licensing Meeting With NEI on August 29, 2002		
Agenda Item	Discussion Summary	
1. NRC Experience Since the Last Meeting	The NRC staff summarized the recent issues related to the scheduling of requalification training programs pursuant to 10 CFR 55.59(c)(1) and the requirement for every licensed operator to pass a comprehensive requalification written examination pursuant to 10 CFR 55.59(a)(2). The staff noted that it considers the comprehensive written exam to be part of the requalification program, which can not exceed 24 months in duration. The exams should be given at or near the end of the program, therefore, consecutive exams may be separated by slightly more than 24 months as long as the program limit is not exceeded. The industry representatives questioned the basis for the rigid regulatory requirement and suggested that it needs to be more flexible, with greater consideration given to SAT (systems approach to training) principles. The staff noted that: (1) the 24-month program limit is consistent with the 2-year license term that existed prior to 1987, when the current regulation was written; (2) that including the comprehensive exam within the program is consistent with the definition of SAT in 10 CFR 55.4; and (3) that prior to 1987 licensed operators were required to pass a written requalification examination annually. The staff indicated that it plans to update the related questions and answers on the web site and develop a regulatory issue summary (RIS) addressing this matter. The industry representatives indicated that they would develop some more flexible regulatory options for future discussion. The NRC staff distributed and discussed a draft paper (issued since the last focus group meeting as an attachment to ML021160697) summarizing its position regarding the repetition of test items on successive comprehensive written requalification examinations. The staff noted that its recommended 50% limit is intended to promote good practices and enhance public confidence. The industry representatives reiterated their position that the absence of an actual integrity problem makes the limit unnecessary, but they indicat	
2. Industry Experience Since the Last Meeting	NRC Regional Office branch chief. The industry representatives indicated that they had no new issues to discuss.	
3. Institute of Nuclear Power Operations (INPO) Update	The INPO representative indicated that the revised accreditation process is going well and that there are currently no programs on probation. He reported that the examination question bank now has over 19,000 questions and that the NRC Regional Offices have been very responsive in providing input in the desired format. INPO is continuing to identify and correct problems with the exam bank. A recent survey indicated that about 1/3 of the plants are using the bank, about 1/3 have not yet tried it, and about 1/3 have tried it but have not used it since. The NRC Region II branch chief indicated that they are using the bank and have found it to be a good source of ideas for new questions.	

4. Public Input	Only one member of the public was present, and he had no comments or questions.
5. Proposed Long-term Examination Options	- The NRC staff briefly reviewed the proposed written examination changes that were outlined in an attachment to the meeting notice (ML02200021) and provided an overview of the risk-informed written examination outline that would be included in draft Revision 9 of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors." The industry representatives supported Proposal #1 (shorten the RO exam from 100 to 75 questions) and Proposal #2 (risk-inform the systems and emergency/abnormal plant evolutions groupings) without comment, but they raised the following concerns related to Proposal #3 (the SRO exam) and Proposal #4 (other written exam criteria): They perceived the allowance for more than 60% higher cognitive level (HCL) questions on the SRO exam to be regressive, they questioned the basis for the separate 70% cut score on the 25 SRO-only questions, they enquired whether the NRC would consider a 75-question SRO exam (only 50 of the RO questions plus 25 SRO-only items), and they noted that the proposed limits on bank use did not exactly conform with the current ratios (i.e., 75.15/10). The NRC staff responded that the cognitive level of the SRO questions should conform with the applicable knowledge and ability (K/A) statement even if it causes the exam to exceed the current 60% limit on HCL questions; the staff further noted that it did not expect the 60% level to be exceeded unless the RO exam is near the upper limit itself. [Note that the staff subsequently calculated that the SRO exam could not exceed 70% even if the RO exam is at the 60% limit and all the SRO-only questions are HCL, which is unlikely.] The staff pointed out that the separate SRO cut score is a public confidence issue in that it would not be appropriate to issue an SRO license to an applicant who got a perfect score on the 75 RO-level questions but got only 5 of the 25 RO-only questions correct. - Similarly, the NRC staff reviewed the proposed operating test changes that were outlined in an attachment to the meeting notic

the remaining issues discussed above. The NRC staff indicated that it might be possible to issue a draft of Revision 9 and initiate a year-long pilot program to evaluate and refine the changes during the first quarter of 2003. The NRC staff and industry representatives also

- In the interest of expediting the development of draft Revision 9 of NUREG-1021, the NRC staff and industry representatives agreed to meet again in October or November to resolve

6. Operator The NRC staff reported that it is continuing to work with Exelon and Wolf Creek in an effort to License finalize their technical specification amendments related to licensed operator eligibility. Eligibility Issues 7. Generic The NRC staff briefly reviewed its prior proposal to shorten the GFE from 100 to 50 **Fundamentals** questions starting in 2004 and to use the resultant savings to administer a fourth Examination examination per year. The staff solicited additional feedback regarding the proposal, noting (GFE) Issues that four facility licensees had supported the proposal in written correspondence that NEI had forwarded to the NRC. Although some of the utility representatives still expressed concern that the amount of system knowledge required to answer some of the questions and the lack of an upper limit on the number of HCL questions might have a greater impact with a shorter exam, the industry overall endorsed the proposed changes. The utility representatives agreed to reach consensus on the best dates for the new GFEs and to provide a recommendation to the NRC. The utilities also indicated that they would develop a list of reviewers from which two individuals would be selected to review the newly developed questions on future pressurized water reactor (PWR) and boiling water reactor (BWR) GFEs. Although the utilities also requested to review the modified guestions, the NRC staff noted that the additional effort could make it difficult to meet the contractor's schedular requirements but agreed to reconsider the request at a later date if the new question reviews proceed smoothly. - As a follow-up item from the previous meeting, the NRC staff reported that it is analyzing the GFE K/A statements to determine the extent to which the lower cognitive level (LCL) K/As are backed up by other HCL K/A statements elsewhere in the catalog. To date, the staff has determined that all of the LCL GFE K/As in the PWR catalog are supported by a HCL K/A statement; the BWR catalog analysis is expected to yield similar results. Therefore, the staff conceded that it will no longer develop new HCL GFE questions based on the LCL K/A statements: however, it will continue to use banked HCL questions based on those K/As because they tend to function at the memory level after initial exposure. - The NRC staff introduced a new issue regarding the "shelf life" of the GFE, which has a bearing on how early in their careers non-licensed operators can take the GFE and how long an operator who has passed the GFE can forego refresher training before having to retake the GFE. The staff reminded the utility representatives that the GFE is a part of the initial licensing examination and that GFE candidates should be enrolled in the initial license training program, as defined by the utility, at the time they take the GFE. The staff noted that 10 CFR 55.47 allows the NRC to waive the requirement for a written examination for up to 2 vears provided the applicant is qualified to competently and safely operate the facility: the staff further noted that applying this concept to the GFE suggests that non-licensed operators should take the GFE no more than 2 years before the site-specific licensing examination. Similarly, operators who terminate their license (and participation in a requalification program that maintains their proficiency in generic fundamentals topics) for more than 2 years would be expected to retake the GFE as well as a site-specific exam. The staff acknowledged that participation in a non-licensed operator regualification program that reviews generic fundamentals topics might be sufficient to extend the "shelf life" of the GFE beyond 2 years and agreed to work with the industry to resolve this issue. The staff noted that individuals currently enrolled in a license training program based on passing a GFE in accordance with ES-205 of NUREG-1021 would not be affected by any future changes. The industry representatives indicated that they would further review the issue and provide feedback to the NRC. 8. Reactivity The NRC staff indicated that it has developed implementation guidance for the subject Manipulation rule change (10 CFR 55.46) in the form of a revision to IP 71111.11, the "Licensed Operator Rule Change Requalification Program" baseline inspection procedure. The staff noted that it expects the revised IP to be available shortly in ADAMS (ML022350085) and on the NRC's web site and that it will be assessing the procedure at Catawba and Kewaunee. The staff noted that the changes adhere very closely to the regulation. - The NRC staff questioned the industry representatives whether a national workshop would be useful in explaining the NRC's expectations regarding the revised rule and suggested that this issue could be addressed in conjunction with the long-term (Revision 9 of NUREG-1021) examination program changes (refer to Agenda Item 5) during a possible workshop early next year. The industry representatives agreed to consider the proposal. 9. Public Only one non-industry representative attended the meeting, and he departed without

comment prior to its conclusion.

Questions and

Answers