

September 27, 1985

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MEMORANDUM FOR: William T. Russell, Acting Director
Division of Human Factors Safety

FROM: Daniel B. Jones, Technical Assistant
Division of Human Factors Safety

SUBJECT: INPO/NRC COORDINATION MEETING, SEPTEMBER 12, 1985

The quarterly INPO/NRC Coordination Meeting was held at INPO on September 12, 1985. A copy of the agenda and attendees is enclosed.

Action items and key topics of interest are as follows:

Licensing Examinations

W. T. Russell and S. Shankman discussed the status of the Examination Development Program and the Requalification Examination policy.

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Utility access to the computerized Examining Question Bank (EQB) was discussed. INPO computer space is now limited. It was agreed that a working session with NRC (OLB), INPO, the NRC contractor for EQB and utilities would be arranged to determine how to assure utility access to the EQB (Action: OLB).

The status of NRC simulator examiner examination development was reported. It was agreed that an in-depth meeting at the NRC would be held with INPO to discuss the status of simulator examinations and simulator evaluations. Operator Licensing Branch, DHFS will arrange for this as soon as the simulator evaluation contract is underway.

Training

INPO provided a description of the Accreditation summary document for training of technical staff and managers (Enclosure 2). INPO Guideline 82-022, "Technical Development Programs for Technical Staff and Managers" will be provided through the formal document exchange program with NRC, (limited distribution and access).

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INPO indicated that the accreditation process does review utility screening and exemption procedures to determine the initial candidate qualifications. They do not audit individual trainees however.

Review of continuing training, e.g., requalification was discussed. INPO indicated that continuing training is covered (or will be covered) in training guidelines. There does not appear to be a close overlap with NRC regulations for requalification of licensed personnel.

INPO training guidelines are used as generic training program descriptions from which utilities can derive specific training consistent with their plant-specific job analyses. Guidelines are being revised to incorporate JTA results.

NRC will provide to INPO, a copy of NUREG/CR-4344, "Instructional Skills Evaluation in Nuclear Industry Training" (and to the PDR). NUREG/CR-4344 is being published for information to nuclear training professionals. INPO was requested to provide any comments regarding the NUREG/CR.

INPO discussed how the results of operating experience are fed back to training programs. The SEE-IN data are reviewed for possible training issues, as are the SOER reports and NRC LERs on INPO team visits. The SOERs as tracked include training issues. If the training guideline proves incomplete, the issue is covered in the next edition of the Guideline. If the issue is significant, it is published in the SOER. NRC plans to include an evaluation of the use of operating experience feedback in training as part of I&E and NRC observation of INPO team visits.

INPO indicated that they would have no objection to the NRC sponsoring a training specialist meeting for CSNI in the spring of 1987. They noted that the Gatlingburg Training Conference is scheduled for the same time period.

RP/EP Activities

The trip report from R. J. Serbu (Enclosure 3) summarizes these issues.

The INPO/NRC Coordination Plan for Radiological Activities must be reviewed by the NRC. Comments on the Plan should be provided to INPO by November 1985 so that the Plan can be revised, or continued, as appropriate. The Division of Systems Integration should give priority to this action.

Procedures

The NRC briefly described a current study which identifies problems encountered by NPP operators when they are required to transition between procedures. Data related to this transition issue are typically noted by

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NRC requested INPO participation in the procedure interface and transition study. DHFS (PSRB) will follow-up.

INPO has guidance for conduct of operations, for alarm response, and writing guidelines for maintenance, test and calibration procedures. These will be provided through the regular transfer of INPO documents to the NRC. The conduct of operations guidelines includes a checklist for procedure preparation.

INPO does not have an organized program to evaluate utility procedures. The operational evaluations of member utilities does include, however, some evaluations of appropriate procedures, though not to determine if the procedures meet NRC requirements.

The next INPO/NRC Coordination Meeting is scheduled for early December 1985 at Bethesda.

A copy of this memorandum is being provided to INPO for review and comment as appropriate.

15/
Daniel B. Jones, Technical Assistant
Division of Human Factors Safety
Office of Nuclear Reactor Regulation

Enclosures:
As stated

cc: H. Denton
D. Eisenhut
R. Bernero
J. Sniezek
P. McKee

DW/DJ/INPO/NRC COORD MTG

OFFICE	DHFS:TA					
SURNAME	DJones:ml					
DATE	9/27/85					

TENTATIVE AGENDA

NRC VISIT TO INPO

September 12, 1985
Atlanta, Georgia
Room 1113B

8:00 am	INPO T&E/NRC Division of Human Factors Safety Coordination Meeting	Ken Strahm Walt Coakley Bill Wigley
	- Licensee Examinations - Training Issues	
11:00	RP/EP Activities	Pete Lyon Bill Kindley Joe Colvin
	- Coordination Plan Revision - INPO Evaluation of Industry Performance	
12:00 pm	Working Lunch	
12:30	Other Matters	Joe Colvin Ken McCoy
1:30	Wrap-up	Joe Colvin

NRC Personnel Attending
(Office of Nuclear Reactor Regulation)

Bill Russell, Director, Division of Human Factors Safety (DHFS)
Dan Jones, Technical Advisor, DHFS
Jay Persensky, Licensee Qualification Branch, DHFS
Susan Shankman, Operator Licensing Branch, DHFS
Bill Branch, Office of the Executive Director for Operations
Jim Bongarra, Procedures and Systems Review Branch, DHFS
Rich Serbu, Radiological Assessment Branch, Division of Systems Integration
Phil McKee, Operating Reactor Programs Branch, Division of Safeguards and
Inspection Programs, Office of Inspection and Enforcement



Institute of
Nuclear Power
Operations

1100 Circle 75 Parkway
Suite 1500
Atlanta, Georgia 30339
Telephone 404 953-3600

(DATE) *August*

(POINT OF CONTACT)

Dear POC:

Technical training for technical staff and managers is one of the training programs that is evaluated by INPO for accreditation. This letter is provided in response to various requests from utilities for guidance to aid in developing a training program that will meet accreditation requirements.

The enclosed point paper is intended to provide guidance to your training staff in identifying technical staff and managerial positions and topical training areas that should be considered in the development of such a training program.

Should you have any questions on this matter, please feel free to contact me at 404/980-3213 or Walt Coakley, Manager, Accreditation Department, at 404/953-5418.

Sincerely,

A handwritten signature in dark ink, appearing to read "K. A. Strahm".

K. A. Strahm
Vice President and Director
Training and Education
Division

KAS:dgm

Enclosure: Technical Staff and Managers Point Paper

Technical Staff and Managers

Purpose: To identify, for first-round accreditation, the scope of training in nuclear technology for nuclear plant site technical staff and technical staff managers. This paper identifies the positions and topical training areas that should be considered.

Technical Staff Positions: Titles and functional assignments vary greatly from site to site. The following position titles are fairly common:

- Radiological Protection Engineer
- Reactor Engineer
- Quality Assurance Engineer
- Maintenance Engineer
- Station Modification Engineer
- In-Service Inspection (ISI) Engineer
- Regulatory Compliance Coordinator
- Performance/Reliability Engineer
- Chemist/Chemical Engineer


Each utility should develop its own list of technical staff positions to be included in this training program. Where there is a vertical structure (i.e., assistant engineers) or if engineers are assigned to various departments, they should also be included. Normally this training would encompass only "on-site" personnel.

Program Content: Programs submitted for accreditation should encompass the general technical training that is needed for all of the positions listed by the site. Position-specific education and training is equally important but is not being reviewed for accreditation.



The following topical areas should be considered for the scope of the program to be accredited with provision for exemption based on prior experience and training. Suggested learning objectives are listed in the INPO Guideline "Technical Development Programs for Technical Staff and Managers" INPO 82-022.

- o General - Indoctration, including GET, Security, and Emergency Plan
 - Plant Reference Materials
 - Nuclear Codes, Standards and Regulations
- o Power Plant Applications of:
 - Thermal Sciences
 - Electrical Sciences
 - Materials Sciences
 - Nuclear Reactor Physics
 - Plant Chemistry
 - Process Controls
- o Plant Systems and Components
- o Plant Operations, including Simulator Training
- o Quality Assurance/Quality Control
- o Plant Modification Process

 **Accreditation Objectives and Criteria:** Because the scope of the accreditation review will exclude position-specific training, the strict application of all objectives from "The Accreditation of Training in the Nuclear Power Industry" (INPO 85-002) will not be appropriate. Specifically, Objectives 4, 5, and 6 will need to be selectively applied since it is not required that position-specific job analysis and task analysis be completed to establish content. Rather, a broad scope assessment of training needs and program content is expected. Nonetheless, the criteria associated with Objectives 4, 5, and 6 should be applied to the extent practical and addressed as appropriate in the Accreditation Self-Evaluation Report.



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555
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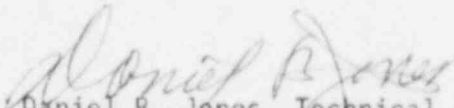
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