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 AUTH. NAME AUTHOR AFFILIATION
 HAYNES, J.G. Southern California Edison Co. *MAH*
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SUBJECT: Submits addl info re description of shift technical advisor training program & plans for requalification training per 791031 request.

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Southern California Edison Company

P. O. BOX 800
2244 WALNUT GROVE AVENUE
ROSEMEAD, CALIFORNIA 91770

J. G. HAYNES
MANAGER OF NUCLEAR OPERATIONS

December 30, 1980

TELEPHONE
(213) 572-1742

D. G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

TMI ACTION PLAN REQUIREMENT
SHIFT TECHNICAL ADVISOR

Dear Sir:

Your letter of clarification dated October 31, 1980 provided confirmation that Shift Technical Advisors (STA's) were required to complete all training in accordance with the October 30, 1979 correspondence by January 1, 1981. The letter also requested additional information as specified in the following:

REQUIREMENT

Provide a description of the STA Training Program and plans for requalification training.

RESPONSE

The San Onofre Nuclear Generating Station "Shift Technical Advisor Training and Requalification Program" dated December 1980 is attached which describes the program.

REQUIREMENT

Describe the level of training which STA's have attained by January 1, 1981 and demonstrate conformance with the qualification and training criteria in the October 30, 1979 letter.

RESPONSE

Five Shift Technical Advisor candidates were assigned to the San Onofre STA Training Program in May, 1980 and have been fully committed to this endeavor since that time.

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Approved
12/31/80

D. G. Eisenhut
December 30, 1980
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RESPONSE (Continued)

Each candidate possesses a Bachelor of Science Degree in either Engineering or Physics and have past nuclear experience varying from one to four years.

Since entering the STA Training Program, the candidates technical education has been enhanced by general and specific training in Heat Transfer, Fluid Flow, Thermodynamics, Core Damage Mitigation, Nuclear Power Plant Chemistry (including Radio-Chemistry) and Reactor Physics.

Reactor Operations training has been provided which included details of Nuclear Steam Supply Systems, Balance of Plant Systems and Instrument Systems. Administrative and Regulatory Controls and Plant Procedures have similarly been topics of the program.

A comprehensive Nuclear Plant Simulator course was attended at the TVA Power Operations Training Center and Transient and Accident Operations have been analyzed.

All students participated in the Nuclear Power Reactor Safety Program at the Massachusetts Institute of Technology.

The qualifications of the incumbent STA's meet the intent of the October 30, 1979 correspondence and paragraphs A.1, 2 and 3 of Enclosure 2 to the September 13, 1979 letter in that:

1. All STA's possess a college level education in engineering or science subjects and have received training in reactor operations both normal and off normal.
2. The accident assessment function and the operating experience function will both be served by the STA, therefore, cognizance of evaluations of operating experience will be satisfied.
3. The Technical education of the STA's include basic college subjects of Mathematics, Reactor Physics, Chemistry, Materials, Reactor Thermodynamics, Fluid Mechanics, Heat Transfer, and Electrical Engineering. These subjects were also reviewed during STA training sessions emphasizing plant specific technology.

RESPONSE (Continued)

4. The STA's have received training in the details of the design, function, arrangement and operation of plant systems.
5. The STA's have received transient and accident response training that included simulated transients of moderate frequency and infrequent or limiting faults. Plant specific review of transients and accident scenarios has also been conducted.

San Onofre Unit 1 is presently at cold shutdown and is expected to remain in this condition until early 1981. It is, therefore, the intent to continue training of the present STA's through the first quarter of 1981.

REQUIREMENT

Provide a description of the long-term STA Program. Include qualification, selection criteria, training plans and plans, if any, for the eventual phase-out of the STA Program. Include a comparison of the San Onofre Program with the INPO document entitled "Nuclear Power Plant Shift Technical Advisor - Recommendations for Position Description, Qualifications, Education and Training" dated April 30, 1980.

RESPONSE

Long term plans for Shift Technical Advisor utilization at San Onofre have not been finalized. However, in concept, we expect the STA function to remain in effect for the foreseeable future.

This being the case, our selection process will require that a STA candidate possess a bachelors degree in a science or engineering discipline.

It is our plan, that whenever possible, the STA category will be the entry level position into the Plant Engineering group. Then, after approximately nine months of training and two years in the STA assignment, the incumbent would rotate into duties customarily performed by engineers and a new STA would be started on tour.

D. G. Eisenhower
December 30, 1980
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RESPONSE (Continued)

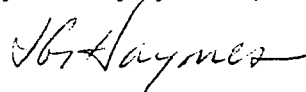
While performing duties as a STA, (i.e., during tours of duty on shift), the STA would report to the Supervising Engineer, bypassing the normal operations chain of command.

Training of STA's will be in accordance with the "Shift Technical Advisor Training and Requalification Program" (enclosed) or as amended.

A comparison of the San Onofre STA training and requalification program with the INPO document described above indicates that the San Onofre program generally meets or exceeds INPO guidelines relative to training. The San Onofre selection process will also result in meeting or exceeding the education requirements of the INPO Document.

We believe the San Onofre Program as described meets or exceeds the INPO recommendation for education and experience.

Very truly yours,



Enclosure

cc: R. H. Engelken, Director
U. S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region V