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YOUNGBLOOD,B.J. Licensing Branch 1

SUBJECT: Forwards info re training & procedures for station blackout, in response to Generic Ltr 81-04. Three-phase program has been initiated to evaluate & upgrade plant procedures & personnel training for station blackout events.

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June 5, 1981

Mr. B. J. Youngblood
Licensing Project Branch #1
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U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

SUSQUEHANNA STEAM ELECTRIC STATION
RESPONSE TO GENERIC LETTER (81-04) ON TRAINING AND
PROCEDURES FOR STATION BLACKOUT
ER 100450 FILE 842-07 PLA-822

DOCKET NOS. 50-387
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Dear Mr. Youngblood:

This letter is provided in response to the Eisenhut letter on February 25, 1981 (received March 6) concerning station blackout. We have initiated a three phase program to evaluate and upgrade plant procedures and personnel training for station blackout events. This program is described as follows.

Phase One. Development and implementation of plant procedures and training programs which address station blackout mitigation. The development of these procedures and programs will consider all currently available information on station blackout. This phase will be complete prior to fuel load.

Phase Two. Performance of engineering evaluations to determine the effects of the loss of all AC power on the fuel, structures, equipment and instrumentation. This phase requires substantial information reviews and detailed analyses. Phase Two also includes the acquisition and review of station blackout test results. Phase Two was initiated concurrently with Phase One, however completion is subject to the availability of station blackout test results. This phase is currently scheduled for completion during the first cycle.

Phase Three. Update plant procedures and training programs to incorporate the results from Phase Two. The completion of this phase is subject to the availability of information from Phase Two. Phase Three is currently scheduled for completion during the first cycle.

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The schedule for completion of this program is not strictly in compliance with the six month period suggested in the Eisenhut letter. However, plant procedures and training programs which address station blackout will be implemented consistent with NRC acceptance criteria outlined in Standard Review Plan 13.5. The final results of this program will be implemented later because of its expanded scope (as compared to that in the Eisenhut letter).

Very truly yours,

N. W. Curtis
Vice President-Engineering & Construction-Nuclear

DPM/mks

Attachment

cc: R. M. Stark - NRC

ATTACHMENT

Phase One

1. Symptom-based emergency procedures will be available (in response to NUREG 0737, item I.C.1). These procedures identify specific actions which address initial reactor vessel level and containment control. In addition, the specific conditions and limitations which result from a loss of all AC power as well as appropriate response actions will be addressed in a specific event-oriented emergency procedure. Other plant procedures will address actions that can be taken in the control room and the plant to restore AC power. The combination of these procedures address actions necessary to mitigate a loss of all AC power.

2. Operators will receive specific training for a postulated loss of all AC power. This training will address actions required to be initiated from the control room. Operators will experience exercises which simulate the station blackout event on the Susquehanna SES Simulator. The above described training will be incorporated into licensed operator training and requalification programs.

3. Non-licensed personnel will receive training in actions to be performed in the plant to restore onsite AC power. This training will include:

   a. Manual start and operation of diesel generators,

   b. Load sequencing of buses,

   c. Preferred sequence for equipment operation, and

   d. Alternate means for electrical distribution.

4. Susquehanna SES will be connected to the Pennsylvania - New Jersey - Maryland (PJM) Interconnecting System. Specific procedures which identify the actions necessary to restore power to all plants on the PJM grid. already exist. These procedures require power to be restored to all plants before providing service to any customer. (An exception is made for large grid failures, where some load may be picked up to provide voltage stability.) Power dispatchers receive regular training on all PJM procedures.

Phase Two

1. An evaluation will be performed to identify equipment availability following a loss of all AC power.

2. An evaluation will be performed to identify critical factors (equipment or systems) which limit the time available for AC power restoration.

3. An evaluation will be performed to determine the adequacy of emergency lighting. Corrective action will be initiated for any deficiencies that are identified. A schedule for completion of the corrective action will be developed, if necessary, at the conclusion of the evaluation.

4. An evaluation will be performed to identify precautions to prevent equipment damage during AC power restoration. The resulting precautions will be included in the event oriented emergency procedure for the loss of all AC power.

5. A review of station blackout test results will be performed. The test results do not necessarily have to be from a test to Susquehanna. A conditional commitment to perform this test was submitted to the NRC on May 15, 1981.

Phase Three

Procedures and training programs will be revised as necessary to incorporate results from a station blackout test and supporting analyses and the above evaluations. Several utilities have committed to perform a station blackout test, subject to the development and approval of a safety analysis, in response to NUREG 0737, requirement I.G.1.