



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

April 11, 1979

MEMORANDUM FOR: Roger Mattson
FROM: T. M. Novak
SUBJECT: STATUS OF PLANT MODIFICATIONS

The following lists current plant modifications planned or underway and the status of the NRR Technical Review Group review:

1. GPU has prepared system criteria for use of steam generators for short and long term cooldown. These criteria involve system modifications for water cooling across the steam generators to remove decay heat on a short term and long term basis. Specific criteria have been developed regarding
 - a. Piping requirements
 - b. Layout requirements
 - c. Electrical requirements
 - d. Instrumentation requirements
 - e. Water chemistry requirements

The NRR Technical Review Group has provided comments which when implemented will provide a basis for recommending implementation.

2. GPU has prepared a draft set of criteria regarding a proposed plant modification for operation of a backup system for controlling reactor coolant system pressure in a water solid condition. This system is prepared to provide control in the event pressure control within containment is not available.

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Criteria have been developed regarding:

- a. range of pressure control
- b. surge and feed capacity
- c. design transients to be considered
- d. electrical and instrumentation

The NRR review group has reviewed the draft criteria and have provided comments to GPU for consideration.

3. Westinghouse has developed a preliminary design for a backup system for decay heat removal. The system includes a skid concept for providing necessary equipment to be placed inside the auxiliary building which can be quickly connected to the existing decay heat removal system. The review group has provided comments to Westinghouse and R. Arnold concerning this concept.

Westinghouse is also considering on a longer time basis a design to provide a back-up decay heat removal system including a dedicated containment structure. Westinghouse has prepared only the most preliminary conceptual design and the NRR review group have not reviewed the concept and did not provide comments on the design proposal.

4. Plant modifications are underway to remove the storage racks from the fuel pool and make provisions for installing additional radwaste storage tanks. The NRR review group has not reviewed any structural or mechanical design drawings related to these plant changes. John Collins has been requested to arrange meetings between GPU and the review group to offer the staff an opportunity to review the proposed modifications and comment on their adequacy.
5. A backup air supply system should be designed to provide redundancy to the existing system and would not be affected by loss of offsite power.

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6. Electrical power system modifications are being handled by Burns & Roe. Active system modifications include the following:
 - a. Addition of two 2500 kw diesel generators to supply loss of offsite power (LOOP) protection for selected portions of the BOP system.
 - b. Examination of Class 1E loads on the dg busses to determine what may be disconnected and what BOP loads can be added for LOOP back-up protection. The following system modifications are under consideration but not active at this time.
 - (1) Provide increased LOOP protection for a larger portion of BOP loads by adding 2 additional 4000 kw diesel generators.

We have had discussions with Burns & Roe electrical people to ensure they are proceeding with the proper design criteria consideration.

7. Modifications are being made to the radwaste system which include installation of additional charcoal filters in the roof of the auxiliary building. The structural effect of the weight of this assembly on the auxiliary building roof should be evaluated by GPU (Burns & Roe). The results of this evaluation should be reviewed by the NRR review group.


T. M. Novak

cc: NRR Review Group (8)

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