

Central File

MAY 24 1978

POOR ORIGINAL

MEMORANDUM FOR: R. Reid, Chief, Operating Reactors Branch #4, DOR
FROM: Acting Chief, Environmental Evaluation Branch, DOR
SUBJECT: CRYSTAL RIVER STEAM GENERATOR REPAIR (TAC 7469)

PLANT NAME: Crystal River Unit 3
DOCKET NO.: 50-302
RESPONSIBLE BRANCH: ORB #4
PROJECT MANAGER: C. Nelson
REQUESTED COMPLETION DATE: 5/23/78
REVIEW STATUS: EEB - Complete

The Environmental Evaluation Branch has reviewed the Florida Power Corporation's (licensee) letter of May 12, 1978 regarding occupational exposures expected during the upcoming steam generator repair.

The licensee has stated that a full scale mockup of the upper steam generator dome and head will be used for training of workers and planning of the repair effort. The licensee has estimated that training in the mockup will reduce exposures by a factor of two to four. In addition, all workers will be trained in radiation area work habits.

The work areas inside the steam generator will be shielded utilizing lead blankets which will cover both the upper tubesheet and the dome area. The licensee has estimated a dose reduction of 70% based on experimental data. Calculated dose rates for the repair in the upper steam generator are 1.0 R/hr. The licensee estimates that shielding will save 94 man-rem. The total occupational exposure estimated for work in the upper steam generator is 69 man-rem.

The licensee has evaluated the possibility of decontaminating the steam generator and found the technique would not be cost effective. Based on the extensive use of shielding and the relatively low dose rates expected, we do not believe any significant additional benefit can be achieved by decontamination.

The total exposure expected for the steam generator repair effort is 112 man-rem, of which 69 will be for the tubesheet work and the remainder for inspection and testing.

Upon completion of the repair work, the licensee should be asked to submit a summary of the occupational exposures actually received. The summary should be itemized as in Tables 2 and 3 of the May 12, 1978 submittal with an additional category which indicates the number of workers who received the exposures.

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R. Reid

- 2 -

We believe the licensee has made an effort to keep occupational exposures "as low as reasonably achievable" during the repair effort and will require no further information regarding exposures prior to the repair effort.

L. H. Barrett as

Acting Chief
Environmental Evaluation Branch
Division of Operating Reactors

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