



# MISSISSIPPI POWER & LIGHT COMPANY

*Helping Build Mississippi*

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August 15, 1985

NUCLEAR LICENSING & SAFETY DEPARTMENT

U. S. Nuclear Regulatory Commission  
Office of Nuclear Reactor Regulation  
Washington, D. C. 20555

Attention: Mr. Harold R. Denton, Director

Dear Mr. Denton:

SUBJECT: Grand Gulf Nuclear Station  
Units 1 and 2  
Docket Nos. 50-416 and 50-417  
License No. NPF-29  
File: 0260/L-860.0/M-001.0  
Reference 1: AECM-85/0030 dated  
January 30, 1985  
ADS Air Supply  
AECM-85/0245

The NRC requested additional information on the long term automatic depressurization system (ADS) air supply make up connection in a letter dated March 15, 1985. This information was requested in order to resolve a concern on long term post-accident operability of the ADS (NUREG-0737 II.K.3.28). Since the existing make up connection is located in a high radiation area as discussed in Reference 1, information has been requested on estimated personnel dose for connecting bottled air. As an alternative to estimating personnel dose, the NRC has stated that the make up connection could be relocated to an area of lower exposure levels (preferably 5 rem/hour or less).

Mississippi Power & Light (MP&L) has decided to relocate the air supply make up connection. Prior to startup following the first refueling outage, the existing air supply connection (the test connection between containment isolation valve Q1P53-F003-A and the containment penetration) located at elevation 166'-10 1/2" within the Auxiliary Building will be extended to elevation 139' -0" within the Auxiliary Building. This new location was classified in MP&L's NUREG-0588 response as having a five day post-accident environment of: temperature 80°F, pressure ±1" water gauge, and 50% relative humidity. The calculated radiation dose in this area is 0.865 rem/hour, based on access five days following an accident. The air supply connection will be designed and constructed to ASME Section III Class 3, Seismic Category I requirements. To assure occupational radiation doses are as low as reasonably achievable, access to the air supply connection will be through exterior door 1A316.

Standard Review Plan 6.2.4 requires that containment isolation valves be located as close to containment as practicable. Therefore, manual containment isolation valve Q1P53-F043 must remain at its present location at elevation 166'-10 1/2" within the Auxiliary Building. Five days following an accident, operator action will be required to unlock and open Q1P53-F043. MP&L has determined that a maximum of 5 minutes will be required for one operator to enter, accomplish this task, and exit. This action would be performed once during the course of an accident and the individual dose incurred would be 1.08 rem.

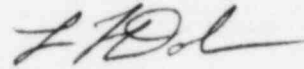
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Based on the actions described above, MP&L believes this issue is resolved. Please advise if further information is required.

Yours truly,



L. F. Dale  
Director

ARR/GWS/SHH:vog

cc: Mr. J. B. Richard  
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