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 Office of Nuclear Reactor Regulation, Director (post 851125)

SUBJECT: Forwards Rev 0 to NSP-30-102, "Review of High Energy Line Analysis for Monticello..." per 860409 ltr. Paths to safe shutdown exist for all but five postulated breaks. Recommended mods in Section 6 will be completed by 860630.

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June 18, 1986

Director  
Office of Nuclear Reactor Regulation  
US Nuclear Regulatory Commission  
Washington, DC 20555

MONTICELLO NUCLEAR GENERATING PLANT  
DOCKET NO. 50-263 LICENSE NO. DPR-22

Resolution of Deficiencies in High Energy  
Line Break Protection for the Monticello Plant

Reference: Letter dated April 9, 1986, from David Musolf,  
NSP, to Director NRR, NRC, "Failure to Provide  
High Energy Line Break Protection for the Tur-  
bine Building Pipe Chase"

In our letter dated April 9, 1986 we reported the discovery of a area of the turbine building that had not been included in the high energy line break (HELB) analysis performed for the Monticello Nuclear Generating Plant in 1973. We provided our commitment to expand the analysis to include this area and make necessary modifications during the 1986 refueling outage now in progress. We also provided our commitment to thoroughly review the original analysis to determine if additional break locations exist which should have been considered. The purpose of this letter is to provide, for the information of the NRC Staff, a description of our resolution of this matter.

Turbine Building Pipe Chase

The feedwater and condensate piping systems which pass through the pipe chase have been reanalyzed and necessary piping and hanger modifications will be completed during the current outage to upgrade them for seismic loading. The modifications will result in an overall reduction in stresses in the piping. Because there are no terminal ends and  $0.9(S_a + S_h)$  or  $0.8S_a$  are not exceeded in the pipe chase, a HELB need not be postulated in this room.

Alternative modifications consisting of structural changes to the pipe chase (new walls, increased vent area, encapsulation of piping) were considered and found to be impractical and less desirable than upgrading the piping systems.

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Review of 1973 HELB Analysis


The 1973 Monticello HELB analysis was independently reviewed for completeness and accuracy. The effect of plant configuration changes made since the original analysis was also included in this evaluation.

The evaluation is summarized in the attached report entitled, "Review of High Energy Line Analysis for the Monticello Nuclear Generating Stations", NUTECH Report NSP-30-102, Revision 0.

The evaluation confirmed that paths to safe shutdown exist for each postulated break with coincident loss of offsite power and a single active failure in all areas of the plant with five exceptions. These exceptions are described in Section 6 of the attached report along with recommendations for resolution of each item.

All of the recommended modifications and procedural changes described in Section 6 of the report, or equivalent actions, will be completed prior to plant startup from the current refueling outage (approximately June 30, 1986).

Please contact us if you have any questions related to the information presented in the attached report.

  
David Musolf  
Manager Nuclear Support Services

c: NRR Project Manager, NRC  
Resident Inspector, NRC  
Regional Administrator, Region III, NRC  
G Charnoff

Attachment