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 FERGUSON, R.L. Plant Systems Branch

SUBJECT: Forwards BNL input to fire protection review, Items 3.1.11A
 2B. Licensee proposals to provide addl hose stations &
 improve access for hose handling are acceptable.

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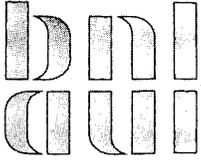
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Department of Nuclear Energy

February 19, 1980

Mr. Robert L. Ferguson
Plant Systems Branch
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

RE: Monticello, Fire Protection Review, Items 3.1.11A, 3.1.11B.

Dear Bob:

Attached is Brookhaven National Laboratory's input into item 3.1.11, Hose Stations. It is broken down into item 3.1.11A, provide additional hose; and 3.1.11B (1 and 2), improved hose house access.

Respectfully yours,

R.E. Hall
R.E.H.

Robert E. Hall, Group Leader
Reactor Engineering Analysis

REH:EAM:sd
attachment

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MONTICELLO

Fire Protection Review

Item 3.1.11A(1)

Section 3.1.11.A(1) of the Monticello SER describes the licensee's proposal to provide additional hose station coverage at various specific areas of the plant identified in the SER. Section 4.3.1(4), "Interior Hose Stations," states that no more than 100 feet of hose may be installed at a hose station and where more than 100 feet of hose is required to reach all areas served by a hose station, additional hose stations should be installed so that the maximum length of hose at any station is 100 feet.

By letter dated January 24, 1980 the licensee provided information describing their actions in providing the additional hose station coverage outlined in SER Item 3.1.11.A(1) (a) through (d). These areas are individually identified below and the licensees submittal for each area is discussed below.

- (a) Additional hose stations will be provided in the torus compartment located to reach all areas of the torus compartment plus the rooms adjoining this area including the RCIC pump and turbine room.

The licensee states that two new hose stations were installed in the torus area, one outside the doorway to the RCIC room and the other directly opposite this location across the torus area. It also states the installation conforms to BTP 9.5-1 and NFPA 14.

The licensee's letter indicates that the new hose stations will cover the torus area and the RCIC pump room but does not mention that the other rooms adjoining the torus area will be covered as indicated in the SER. It does say that the new hose stations conform to BTP 9.5-1 which limits the maximum quantity of hose on a hose station to 75 feet. If the two new hose stations do in fact have only 75 feet of hose on them, they will not be able to reach all the rooms adjoining the torus. From scale measurements of the Monticello plans accompanying their fire hazards analysis it will require more than 100 feet of hose at each of these new hose station locations to reach all the required areas. Therefore, the licensee's provision of providing additional hose station coverage at this location is inadequate. In order for the licensee to meet item 3.1.11.A(1) (a) the licensee should provide additional hose stations in this area each having a maximum of 100 feet in order to reach all the areas specified in the SER.

- (b,d) The licensee performed an evaluation to determine if all safety-related areas of the plant and all areas that could present a hazard to safety-related areas were adequately covered by hose stations. These areas included the reactor core isolation cooling pump room and the MG set room. The evaluation showed that several areas could not be reached by the present hose stations. It was also determined that these areas could be covered providing additional hose be installed on the existing hose stations. The maximum quantity of hose on any hose station may not exceed 100 feet. Based on this analysis, the licensee installed additional hose on six existing hose stations.

The licensee's implementation of SER items 3.1.11.A (b-d) meets the requirements of the item and is considered acceptable.

Item 3.1.11B (1 and 2) - Improve Hose House Access

Section 3.1.11B (1 and 2) of the Monticello SER describes the licensee's proposal to improve the access for hose handling at hose house Number 2 and to rotate hose houses 4 and 9 by 180°.

By letter dated January 25, 1980, the licensee provided information describing the manner in which they have implemented these modifications. Their letter indicates hose house Number 2 was modified by adding 3 feet to the existing 3 foot wide platform in front of the hose house access doors. As a result, the 3 foot hose house doors swing over the increased 6' x 6' platform leaving adequate room for hose handling on the platform while opening the doors. Hose houses numbers 4 and 9 were rotated 180° in order to improve clearance for attaching hose.

The licensee's implementation of these modifications meets the requirements of SER items 3.1.11.B (1 and 2) is acceptable.