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                          Office of Nuclear Reactor Regulation, Director

SUBJECT: Submits description of fire stops between Fire Zones 13C & 19C, required by fire protection safety evaluation. Comments on proposed design should be conveyed by 800815 to comply w/work schedule.

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**NORTHERN STATES POWER COMPANY**  
Minneapolis, Minnesota 55401

June 26, 1980

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

MONTICELLO NUCLEAR GENERATING PLANT  
Docket No. 50-263 License No. DPR-22

Fire Stops Between Fire Zones 13C and 19C Required  
By Fire Protection Safety Evaluation

Section 3.1.8(1), 5.9.6 and 5.10.6 of the Monticello Fire Protection Safety Evaluation Report issued by the NRC Staff on August 29, 1979 contain our commitment to install fire stops in "vertical cable trays in the opening between the ESF motor control center and the cable tray penetration area at the south wall of the pipe and cable tray penetration area". Section 3.1 of the report requires that design information related to this modification be reported to the NRC Staff to assure the modification is acceptable. The purpose of this letter is to describe for the Staff the fire stop design that will be installed.

The referenced cable trays run from the ESF motor control center in fire zone 13C into a 2" thick double wall insulated galvanized sheet metal enclosure. The trays run vertically from inside this enclosure up into the pipe and cable tray area in fire zone 19C. Ventilation in the pipe and cable tray area is provided by a vent duct which ties into the 2" thick double wall insulated enclosure in fire zone 13C below. This is the only source of ventilation to the enclosure and fire zone 19C.

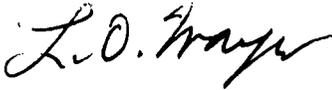
The definition of a fire stop is given in Section B.4 of Revision 1 to Branch Technical Position ASB 9.5-1. It states that a fire stop is "a feature of construction that prevents fire propagation along the length of cables". In accordance with this definition the cables in these trays will be provided with a 1/4" thick coating of Flamastic 71A for the width of the cable trays and for about 3 feet along the trays. A fire damper will also be installed

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in the ventilation duct as it enters the enclosure. The fire damper will reduce the possibilities of exposing the enclosure to flammable conditions.

Please contact us if you require additional information related to this modification. To permit us to complete the work on schedule, we request that NRC Staff comments related to the proposed design be conveyed to us by August 15, 1980.



L. O. Mayer, P.E.  
Manager of Nuclear Support Services

cc: J. G. Keppler  
G. Charnoff