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 RUSSELL,W.T. Region 1, Ofc of the Director

SUBJECT: Special rept:on 870630,Fire Door F-509 identified as having potential problem due to several small door skin SWF.

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October 5, 1987

William T. Russell, Regional Administrator
U.S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Subject: Thirty Day Special Report
Inoperable Fire Doors F-509 and F-503
R. E. Ginna Nuclear Power Plant, Unit No. 1
Docket No. 50-244

Dear Mr. Russell:

In accordance with Technical Specifications 3.14.6.1 (a), the following Thirty Day Special Report on Fire Door F-509 and F-503 is being made.

On June 30, 1987 during routine plant inspections, Fire Door F-509 was identified as having a potential problem due to several small door skin spot weld fractures and mechanical looseness of the latching hardware. A maintenance work request was submitted on June 30, 1987 and hourly surveillance was established as a precautionary measure to monitor door condition. Door F-509 is located at elevation 253'6" between column lines 3-H and 3-J in the controlled Intermediate Building. Door F-509 is installed in a 3 hour barrier between the controlled intermediate building and the hot shop area.

On July 13, 1987 during routine plant inspections, Fire Door F-503 was identified as having a potential problem due to several small door skin spot weld fractures. A maintenance work request was submitted on July 13, 1987 and hourly surveillance was established as a precautionary measure to monitor door condition. Door F-503 is located at elevation 278'4" between column lines 3-N and 4a-N in the Auxiliary Building. Door F-503 is installed in a 3 hour barrier between the controlled Intermediate Building and the Auxiliary Building spent fuel pit area.

Repairs to these doors were performed in accordance with NFPA 80-1986 and further door degradation was halted. However continued door repairs during July and August caused door distortion which resulted in gaps larger than that allowed between the door and frame assembly. Following unsuccessful repair attempts on September 1, 1987, Doors F-503 and F-509 were determined to be inadequate as fire barrier seals, and were declared non-intact fire barrier seals as per Technical Specifications, section 3.14.6.1. New 3 hour UL "A" labeled Heavy Duty doors were

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ordered. Door F-503 was replaced on September 12, 1987. The replacement for door F-509 has not yet arrived, and is scheduled to be installed by December 1, 1987.

The root cause of the door failures was inability of the hydraulic door closer to control door operation against negative pressure differentials and increased structural loading on door assembly due to these pressure differentials.

Although these doors were declared non-intact fire barrier seals on September 1, 1987, this fire barrier degradation does not prevent the plant from attaining safe shutdown in the event of a fire. This conclusion is based on the actual fire loadings:

1. Fire door F-503 separates fire zone IBS (Intermediate Building south) and fire zone ABO (Auxiliary Building operating level west).

Fire zone IBS comprises 2,385 sq. ft. The maximum design basis fire loading for this zone is 160,000 BTU's/sq. ft. Existing fire loading for this zone is 20,470 BTU's/sq. ft. with an available heat release of 1415 degrees F. The fire resistance for the actual fuel loading conditions would be 0.26 hours for complete fuel reduction.

Fire zone ABO comprises 2,500 sq. ft. The maximum design basis fire loading for this zone is 240,000 BTU's/sq. ft. Existing fire loading is 8,721 BTU's/sq. ft. with an available heat release of 1120 degrees F. The fire resistance for the actual fuel loading conditions would be 0.11 hours for complete fuel reduction.

2. Fire door F-509 separates fire zone IBS (Intermediate Building South) and fire area SB (Service Building) .

Fire zone IBS comprises 2,325 sq. ft. The maximum design basis fire loading for this zone is, 160,000 BTU's/sq. ft. Existing fire loading is 20,754 BTUs/sq. ft. with an available heat release of 1415 degrees F. The fire resistance for the actual fuel loading conditions would be 0.26 hours for complete fuel reduction.

Fire area SB comprises 16,275 sq. ft. The maximum design basis fire loading for this area is 160,000 BTU's/sq. ft. Existing fire loading is 7,919 BTU's/sq. ft. with an available heat release of 1080 degrees F. The fire resistance for the actual fuel loading conditions would be 0.10 hours for complete fuel reduction.

3. These four fire zones/areas (IBS, ABO, IBS, and SB) are either monitored by their respective fire detection system or protected with an automatic wet sprinkler system. In addition, fire extinguishers and hose stations are available for each fire zone/area.

Actions that have been or will be taken to prevent future degradation of these doors include:

1. Replacement of doors F-503 and F-509 with UL "A" labeled Heavy Duty doors, upgrade of door latch assembly hardware, and installation of heavy duty hydraulic operators to control door operation. These actions have been completed for door F-503, and are scheduled for door F-509 by December 1, 1987.

Very Truly Yours,

Roger W. Kober
Roger W. Kober

Subscribed and sworn to me
on this 5th day of October, 1987.

Lynn I. Hauck

LYNN I. HAUCK
Notary Public in the State of New York
MONROE COUNTY
Commission Expires Nov. 19, 1988

