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SUBJECT: Special rept:on 900213,inoperable fire damper I-411-21-P.

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March 16, 1990

Mr. William T. Russell, Regional Administrator
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406

Subject: Thirty (30) Day Special Report
Inoperable Fire Damper I-411-21-P
R.E. Ginna Nuclear Power Plant, Unit No. 1
Docket No. 50-244

Dear Mr. Russell:

In accordance with Technical Specification 3.14.6.1 (a), this thirty day special report on Fire Dampers is being submitted.

On February 13, 1990, during performance of PT-13.26, Testing of Fire Dampers, it was determined that Ruskin fire damper, model number IBD23, type "A" had a missing side wall damper blade track. As a result, this fire damper would not properly close and the damper was declared inoperable at 1540 hrs. On February 13, 1990 an hourly surveillance was established in accordance with Technical Specification 3.14.6.1. Damper I-411-21-P is located at elevation 278'-4" between column lines 4 and 5 in the controlled Auxiliary Building. Fire damper I-411-21-P is installed in a 3 hour fire rated barrier between the controlled Auxiliary Building and the controlled Intermediate Building at elevation 278'4".

A new Ruskin fire damper, model number IBD23, type A, 3 hour UL A labeled fire damper has been ordered. The replacement damper is in the procurement process and plans are to install the damper by July, 1990.

The most probable root cause of the damper failure can be attributed to improper original damper installation.

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Although this fire damper was declared a non-intact fire barrier seal on February 13, 1990, the 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 damper I-411-21-P separates fire zone ABO-3W (Auxiliary Building Operating Level West) and fire zone IBS-2 (Intermediate Building Operating Level South).

   Fire zone ABO-3W comprises 2500 square feet. The maximum design basis fire loading for this zone is 240,000 BTU's/SqFt. 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 fire loading condition would be 0.11 hours for complete fire fuel reduction.

   Fire zone IBS-2 comprises 2385 square feet. The maximum design basis fire loading for the zone is 160,000 BTU/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 fire loading conditions would be 0.26 hours for complete fire fuel reduction.

2. These two fire zones/areas (ABO-3W and IBS-2) are monitored by their respective fire detection systems. In addition, fire extinguisher and hose stations are available for each fire zone/area.

Actions that have been taken or will be taken to prevent future problems with fire dampers:

1. Completion of 100% inspection of the fire dampers by drop testing by April 1991. Each subsequent year, 10% of the dampers will be drop tested each year.

2. Inspection of 100% of the fire dampers once every eighteen (18) months. This program was implemented on January 1990.

Very truly yours,

Robert C. Mecredy

Robert C. Mecredy
Division Manager
Nuclear Production

xc: U.S. Nuclear Regulatory Commission (original)
Document Control Desk
Washington, D.C. 20555

Ginna Senior Resident Inspector