

ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
RUSKIN FIRE DAMPERS
NCR BLN MEB 8004
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

The closure spring becomes detached from the mounting bracket on Ruskin's vertical spring closure, IBD Fire Dampers. This problem was identified by Ruskin before shipment to the Bellefonte site. The corrective action taken by Ruskin was the addition of a #6 screw, washers, and nut through the narrow portion of the slot in the spring bracket. This action should have eliminated the problem; however, some of the screws worked loose during shipment.

Also, if the blade package in vertical units less than 9" high is shifted such that the leading edge of the bottom blade rests higher than the trailing edge, the blades may jam when released.

Safety Implications

This deficiency does not alter the ability of the dampers to survive a seismic event and remain intact. However, it can affect the complete closure of the damper, which could allow a fire to spread resulting in damage beyond that for which it was analyzed and designed.

Corrective Action

Ruskin has developed an alternate fix consisting of a small metal clamp which attaches to the spring bracket and provides a positive stop for the spring.

Ruskin has also developed a snap-in strip which when installed will hold the bottom blade in the proper orientation and ensure complete and consistent closure.

The proposed fixes will be completed as the systems containing the dampers are completed.

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