

SAFETY EVALUATION FOR
OYSTER CREEK NUCLEAR GENERATING STATION
IPSAR SECTION 4.34(4), VENTILATION SYSTEMS

I. INTRODUCTION

The staff, in the Integrated Plant Safety Assessment Report for the Oyster Creek Nuclear Generating Station (NUREG-0822), Section 4.34(4), "Ventilation Systems," identified a concern related to the susceptibility of both the B battery and motor generator room and the switchgear room ventilation systems to the single failure of a relay.

During the review of SEP Topic IX-5, the staff found that both the B battery and motor generator room and the switchgear room ventilation systems are manually actuated from the control room by energizing a single relay. Transfer of this single control relay (Relay K) applies power to both the supply and exhaust fans in each room. Thus, a failure of that relay to transfer or loss of power to that relay would preclude electrical power to the fans of each room. The licensee agreed to evaluate the ventilation system design for the B battery and motor generator room and the consequences of a loss of ventilation in the switchgear room.

II. EVALUATION

The licensee, by letter dated August 21, 1984, provided the results of its review of the associated control circuitry for these ventilation systems. Based on this review, the licensee proposed to provide a new redundant relay with a switch and associated wiring for each room. With this modification, on loss of power or loss of the existing relay, the fans which receive power from a separate motor control center, can be manually started, thereby maintaining sufficient air circulation. In addition, the licensee indicated that the loss of the Relay K will activate an alarm in the control room to alert the operator to activate the ventilation system with the redundant switch.

The licensee has committed to implement this circuitry modification by the end of the next refueling outage (Cycle 11).

III. CONCLUSION

Based on the staff's review of the licensee's evaluation and the resulting commitment to install redundant relays for these ventilation systems, the staff considers this issue resolved.

IV. REFERENCES

1. Integrated Plant Safety Assessment for the Oyster Creek Nuclear Generating Station, NUREG-0822, January 1983.
2. Letter to D. Crutchfield (NRC) from P. Fiedler (GPU), Subject SEP Topic IX-5, Ventilation System, dated August 21, 1984.