

SAFETY EVALUATION  
VERMONT YANKEE  
CONFIRM ADEQUACY OF SPACE COOLING  
FOR HIGH-PRESSURE COOLANT INJECTION  
AND REACTOR CORE ISOLATION COOLING SYSTEM

STAFF POSITION

II.K.3.24 (NUREG-0737) Confirm Adequacy of Space Cooling for High-Pressure Coolant Injection (HPCI) and Reactor Core Isolation Cooling (RCIC) Systems

Long term operation of the reactor core isolation cooling (RCIC) and high-pressure coolant injection (HPCI) systems may require space cooling to maintain the pump-room temperatures within allowable limits. Licensee should verify the acceptability of the consequences of a complete loss of alternating current (AC) power. The RCIC and HPCI systems should be designed to withstand a complete loss of offsite AC power to their support systems, including coolers, for at least two hours.

EVALUATION

By letter dated January 5, 1982, the licensee has stated that the support systems and space coolers for the HPCI and RCIC systems all receive power from the same essential electrical buses as the equipment they serve which are powered by onsite power sources. Therefore, continuous power would be available for the space coolers following a complete loss of offsite AC power. Since the HPCI and RCIC systems for Vermont Yankee, including their support systems and space coolers will not be affected by a loss of offsite power, we conclude that the requirements of TMI Task Action Plan II.K.3.24 are satisfied.

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