



# VERMONT YANKEE NUCLEAR POWER CORPORATION

SEVENTY SEVEN GROVE STREET  
RUTLAND, VERMONT 05701

2.C.2.1  
FVY 81-100

REPLY TO:  
ENGINEERING OFFICE  
1671 WORCESTER ROAD  
FRAMINGHAM, MASSACHUSETTS 01701  
TELEPHONE 617-872-8100

July 1, 1981

United States Nuclear Regulatory Commission  
Washington, D.C. 20555



Attention: Office Of Nuclear Reactor Regulation  
Mr. Darrell G. Eisenhut, Director  
Division of Licensing

References: (a) License No. DPR-28 (Docket No. 50-271)  
(b) Letter, USNRC to All Licensees of Operating Plants, dated October 31, 1980  
(c) Letter, VYNPC to USNRC, WVY 80-170, dated December 15, 1980  
(d) Letter, D. B. Waters to D. G. Eisenhut, BWROG-8142

Subject: Response to NUREG 0737 Item II.K.3.25, Effect Of Loss Of Alternating  
- Current Power On Pump Seals

Dear Sir:

The subject NUREG Item required licensees to determine the consequences of a loss of cooling water to the reactor recirculation pump seal coolers. That item also required that the pump seals should be designed to withstand a loss of power for at least two hours. An acceptable alternative to meeting the two hour requirement was to provide a source of emergency power to the pumps which supply seal cooling water.

At Vermont Yankee, the recirculation pump seals are cooled by the reactor building closed cooling water (RBCCW) system. In the event of a loss of offsite power, the RBCCW system is automatically restarted when AC power is restored by the emergency diesel generators.

Reference (d) concludes that with the RBCCW seal cooling system in operation, "the seal temperatures remain well below 250°F and no seal deterioration should occur." Reference (d) further concludes that even in the extremely unlikely event of a loss of both seals the resultant leakage: 1) does not influence the result of any loss of coolant accident analysis; 2) is well within the capabilities of normal or emergency vessel water level control systems; and 3) does not lead to a safety concern.

*Handwritten:* AOK 6/10

U. S. Nuclear Regulatory Commission  
Attention: Mr. Darrell G. Eisenhut, Director

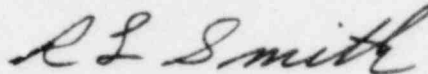
July 1, 1981  
Page 2

In light of the information presented above, Vermont Yankee is planning no further action and considers Item 41 K.3.25 closed.

We trust this information is satisfactory; however, should you have any further questions, please contact us.

Very truly yours,

VERMONT YANKEE NUCLEAR POWER CORPORATION

A handwritten signature in cursive script, reading "R. L. Smith".

R. L. Smith  
Licensing Engineer

RLS:dad