

SEP 3 1974

Docket No. 50-346

Richard DeYoung, Assistant Director for Pressurized Water Reactors, L

DAVIS-BESSE NUCLEAR POWER STATION - SECOND ROUND QUESTIONS

Plant Name: Davis-Besse Nuclear Power Station, Unit 1
 Licensing Stage: OL
 Docket Number: 50-346
 Responsible Branch: PWR #4
 Project Leader: I. Peltier
 Requested Completion Date: September 6, 1974
 Description of Response: Additional Information Required
 Review Status: Complete

We have reviewed the amended FSAR for Davis-Besse Nuclear Power Station, Unit 1, and find that the analysis of the effect of liquid radwaste component failure is missing.

Enclosed is the information we will need to complete our evaluation. We will need the additional information by December 6, 1974 to meet our schedule.

Original signed by:
Robert L. Tedesco

Robert L. Tedesco, Assistant Director
for Containment Safety
Directorate of Licensing

Enclosure:
As stated

cc: w/o enclosure
A. Giambusso
W. McDonald

w/enclosure
 S. Hanauer
 F. Schroeder
 A. Schwancer
 H. Thompson
 I. Peltier
 G. Knighton
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DATE →	9/3/74	9/3/74	9/3/74		

ROUND TWO QUESTIONS FOR DAVIS-BESSE

NUCLEAR POWER STATION, UNIT 1

DOCKET NO. 50-346

01.0 EFFLUENT TREATMENT

01.1
(15.24)

Provide an analysis indicating the radionuclide concentrations which could occur in both 1) the nearest potable water supply, and 2) the nearest surface water in an unrestricted area as a result of leakage based on single failures of components located outside reactor containment containing radioactive liquids. Assume 1% of the operating fission product inventory is released to the primary coolant, failed tanks release 80% of their design capacity, and all liquids from failed components enter the groundwater; i.e., do not assume liquids are retained by building foundations. Credit for radionuclide removal by the plant process systems, consistent with the decontamination factors in WASH-1258 should be assumed. List all parameters and provide justification for the values assumed in your calculations, including liquid dispersion and transit time based on distance, the hydraulic gradient, permeability and effective porosity of the soil, and the assumed decontamination due to ion exchange by the soil.