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Docket No. 50-346

R. C. DeYoung, Assistant Director for Light Water Reactors, DPM

SUPPLEMENT NO. 1 TO SAFETY EVALUATION REPORT

Plant Name: Davis-Besse Nuclear Power Station, Unit 1
Licensing Stage: OL
Docket Number: 50-346
Responsible Branch: LWR-1
Project Leader: L. B. Engle
Requested Completion Date: May 7, 1976 (Scheduled date July 2, 1976)

The enclosed Supplement No. 1 to the Safety Evaluation Report, dated February 26, 1975 covers our review of the Davis-Besse Unit 1 nuclear plant up to and including Amendment 34 in the areas of Auxiliary and Power Conversion Systems Branch responsibility.

(1) 9.1.3, Spent Fuel Pool Cooling and Cleanup System

The SER stated that the entire spent fuel pool cooling system was a seismic Category I system. However, only the piping within and penetrating the spent fuel pool walls up to and including the first isolation valve is designed to seismic Category I requirements. The remainder of the SFPCS is non-seismic Category I. The spent fuel cooling system as designed meets the single active failure criterion. We conclude the SFPCS is acceptable.

(2) 9.2.2, Component Cooling Water System

In Amendment 32, the applicant has agreed to provide a seismic Category I backup water supply to the CCWS from the Service Water System. This issue is now considered resolved.

(3) 9.2.5, Ultimate Heat Sink

On September 19, 1975 the Hydrology Engineering group of Site Safety provided a "Revised Hydrologic Engineering Summary" which determined that the ultimate heat sink for Unit 1 was adequate to perform its safety function under accident and LOCA conditions. This issue is now considered resolved.

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MAY 10 1976

(4) 9.2.7, Auxiliary Feedwater Systems

The applicant has provided additional information in Amendments 32 and 33 that assures all motor operated valves in the AFW system are accessible for manual operation under accident or emergency conditions. This is accomplished by special access platforms and ladders, physical system separation or compartmentation where necessary. This issue is now considered resolved. [Approval of the AFW system is contingent upon resolution of open issue contained in Section 7.4.1 of NRC SER relative to control of containment isolation valves in the AFW lines.]

(5) 9.4.2.2, Fuel Handling Area

In Amendment 33, the applicant has agreed with our request to provide a revised emergency exhaust ventilation system that will automatically pick up the load from the spent fuel handling area in the event of a fuel handling accident. The system will be in operation prior to plant operation. This issue is now considered resolved.

(6) Section 9.5.1, Fire Protection System

The following paragraph should be added to the end of Section 9.5.1 of the SER.

As a result of investigations and evaluations presently being conducted by the NRC Staff on fire protection systems, further requirements may be imposed on the Davis-Besse Unit 1 design to further improve the capability of the fire protection system to prevent unacceptable damage that may result from a fire.

(7) 9.5.4, Diesel Engine Fuel Oil Storage and Transfer System

In Amendments 32 and 33, the applicant has agreed with our request to provide a seismic Category I, tornado and tornado missile protected diesel generator fuel oil storage system scheduled for operation in June 1977. The applicant requested approval to commence operation of the plant now scheduled for the end of 1976, with the existing fuel oil storage system. The probability of an accident occurring during this short period of time requiring the seismic Category I fuel oil storage system is remote. On this basis we recommended in a letter to Mr. W. R. Butler dated March 18, 1976 that permission be granted to Toledo-Edison to use the present fuel oil storage system until June 1977. This issue is now considered resolved.

R. C. DeYoung

-3-

MAY 10 1976

With the information provided in Amendments 27 to 34, we have now resolved all outstanding items on Davis Besse Unit 1.

Original signed by:
Robert L. Tedesco
Robert L. Tedesco, Assistant Director
for Plant Systems
Division of Systems Safety

Enclosure:
As Stated

- cc: G. Manauer, TA
- W. McDonald, MIPC
- R. Boyd, PM
- R. Heineman, DSS
- J. Stolz, LWR-1
- V. Benaroya, APCSB
- L. Engle, LWR-1
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