

*Docket file*

OCT 21 1976

POOR ORIGINAL

Docket No. 50-346

MEMORANDUM FOR: J. Stolz, Chief  
Light Water Reactors Branch No. 1, BPM

FROM: J. Collins, Chief  
Effluent Treatment Systems Branch, DSE

SUBJECT: ETSB POSITION WITH RESPECT TO DAVIS-BESSE, UNIT NO. 1  
MONITORING OF EXPLOSIVE MIXTURES IN GASEOUS RADWASTE  
TREATMENT SYSTEMS

This is in response to a request from L. Engle to document ETSB's position with respect to the design of the gaseous radwaste system components for Davis-Besse, Unit No. 1 handling potentially explosive mixtures of hydrogen and oxygen.

In our rereview of the radwaste treatment systems for Davis-Besse, Unit No. 1 prior to the issuance of the OL-SER we identified that the gaseous radwaste system components are not designed to withstand an explosion nor has the applicant provided redundant monitors to preclude the formation or buildup of explosive mixtures within this system. We find this to be unacceptable.

In accordance with Standard Review Plan 11.3 it is our position that gaseous radwaste system components be designed to contain explosive mixtures or that the system be provided with redundant monitors to preclude the formation or buildup of explosive mixtures. In recent discussions with Toledo Edison the applicant contended that since the system operates with a nitrogen blanket the potential for the formation of explosive mixtures does not exist. The applicant further contends that in the event the single oxygen monitor is out of service periodic grab samples will be taken until the unit can be repaired. We find both of these positions to be unacceptable.

If the applicant fails to provide redundant instrumentation we will insist that the Technical Specifications for Davis-Besse, Unit No. 1 include a requirement to shut down the reactor in the event the single oxygen monitor is out of service.

With regard to the operation of the redundant monitors the applicant inquired about the wording in the Technical Specifications covering these instruments.

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Attached to this memo is a copy of Section 2.4.2.6 of our draft model Technical Specifications which we intend to issue in the near future covering the operation and maintenance of these monitors.

ORIGINAL SIGNED BY  
JOHN T. COLLINS

John T. Collins, Chief  
Effluent Treatment Systems Branch  
Division of Site Safety and  
Environmental Analysis

Attachment:  
Section 2.4.2.6

cc: R. Vollmer  
D. Vassallo  
W. Durke  
F. Cardile  
L. Enrie

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