

Docket 52-001

February 18, 1993

NOTE TO: J. Fox, GE

FROM: M. Janus, NRR/ADAR/PDST

SUBJECT: ABWR DFSER CHAPTER 9 CHANGE MARKUP

Enclosed for your information is a copy of the changes to DFSER Chapter 9 section 9.3.5 concerning the reliability of the suction valves for the SLCS which we discussed on February 17, 1993.

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|-----|--------------------------|----|
| (✓) | ACRS | 15 |
| (✓) | NRR/ADAR/PDST | 1 |
| (✓) | NRR/DORS/OTSB | 1 |
| (✓) | NRR/DE/ECGB | 1 |
| (✓) | NRR/DE/EELB | 1 |
| (✓) | NRR/DSSA/SPLB | 1 |
| (✓) | NRR/DSSA/SRXB | 1 |
| (✓) | NRR/DSSA/SCSB | 1 |
| (✓) | NRR/DSSA/SPSB | 1 |
| (✓) | NRR/DRIL/RPEB | 1 |
| (✓) | NRR/DRCH/HICB | 1 |
| (✓) | NRR/DRCH/HHFB | 1 |
| (✓) | NRR/DRSS/PEPB | 1 |
| (✓) | NRR/DRSS/PRPB | 1 |
| (✓) | NRR/DRSS/PSGB | 1 |
| (✓) | NRC PDR | 1 |
| (✓) | PNL-Stegbauer, E | 1 |
| (✓) | NRR/ILPB/Suh, G. | 1 |

(✓) RegFile 01

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pressure boundary). Thus, the SLCS meets the requirements of GDC 2, "Design Basis for Protection Against Natural Phenomena," and the guidelines of RG 1.29, "Seismic Design Classification," Position C.1.

The secondary containment in which the system is located provides protection against external or internally generated missiles. The SLCS is separated from nonseismic system components and from the effects of breaks in other high and moderate-energy piping systems (see Section 3.5.1.2 and 3.6.1 of this report).

Thus, the SLCS meets the requirements of GDC 4, "Environmental and Missile Design Bases."

To assure the availability of the SLCS, two sets of the components required to actuate the system (pumps and injection valves) are provided in parallel redundancy. The injection portion of the system can be functionally tested by injecting demineralized water from a test tank into the reactor. These suction valves will be tested as part of the pre-operational testing program, as described in SSAR Chapter 14 section 14.2.12.1.5. Because of the importance of valve reliability for the storage tank discharge valves, the staff requires the COL applicant to confirm that the valves will have adequate reliability requirements and that the valves be incorporated into the Operational Reliability Assurance Program. This issue was previously discussed as Confirmatory Item 9.3.5-1, but based on staff review it is now being tracked as COL Action Item 9.3.5-1.

Design Certification Material

GE has submitted in Section 2.2.4 of the DCM, design description and ITAAC for SLCS which are under staff review. The results of the staff's review will be provided in the FSER. This is Open Item 9.3.5-1.

The SLCS meets the acceptance criteria of SRP Section 9.3.5. Subject to resolution of the open items identified above, the staff will conclude that the SLCS meets the requirements of 10 CFR 50.62 and GDC 2, 4, 26, and 27 as they relate to protected against natural phenomena, system function and redundancy, and testability, and the guidelines of Position C.1. of RG 1.29, as related to seismic classification of the system, and is, therefore, acceptable.

9.3.6 Instrument Air System

Because the IA system is one of the four systems that perform functions addressed in SRP Section 9.3.1, the staff reviewed this system as part of an integrated review of the ABWR CA systems. The results of this review are presented in Section 9.3.1 of this report.

9.3.7 Service Air System

Because the SA system is one of the four systems that performs functions addressed in SRP Section 9.3.1, the staff reviewed this system as part of an integrated review of the ABWR CA systems. The results of this review are presented in Section 9.3.1 of this report.

9.3.8 Radioactive Drain Transfer System