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MEMORANDUM FOR: J. McCough, Group Leader
STS Group, DOR

FROM: A. Szukiewicz
Instrumentation and Control Systems Branch, DSS

THRU: C. Miller, Section Leader
Instrumentation and Control Systems Branch, DSS

SUBJECT: DAVIS BESSE UNIT 1 TECHNICAL SPECIFICATIONS SECTION 3/4.3
PAGES 9 THROUGH 49

In response to your memorandum to T. A. Ippolito dated January 12, 1977, requesting ICSB review of the above sections of the Davis Besse Unit 1 Technical Specifications, we are enclosing our comments (see Enclosure A) for your consideration and incorporation into the final technical specification document.

A. Szukiewicz
Instrumentation and Control
Systems Branch, DSS

Enclosure:
As stated

DISTRIBUTION
Central files
NRR reading
ICSB reading

cc: L. Engle
J. Roe
T. Ippolito
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F. Rosa
A. Szukiewicz

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MEM

OFFICE	DSS: ICSB	DSS: ICSB			
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DATE	2/9/77 tlb	2/9/77			

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ENCLOSURE A
DABIS BESSE UNIT 1
TECHNICAL SPECIFICATION COMMENTS

1. Core Flooding Tank Isolation Valves page 3/4 5-1 Operability applicability should include mode 4 with the reactor coolant pressure greater than 800 psig.

2. Page 3/4 5-2

Item C should read as follows:

At least once per 31 days by verifying that the power to the isolation valve operations is disconnected and the breakers are locked open in the open position.

3. Page 3/4 5-2

One of the diverse instrument string for the DHR isolation valve (i.e. DH 11 and DH 12) interlocks does not originate from the SFAS instrument strings therefore the technical specifications should specify that the calibration of the following instrument string should be performed at least once every 18 months, i.e. for pressure switch PSH 7531 A.

4. The interlock instrument strings for the SFRCS system

PSL 4928A,B (less than 12 psig)

PSL 4929A,B (less than 12 psig)

PSL 4930A,B (less than 11 psig)

should be identified in the surveillance requirements for modes 1 through 4. Functional checks should be performed monthly. Instrument calibration should be performed every refueling.

These instrument strings should be identified in Table 3.3.11, and the set point trip valves should be identified in Table 3.3.12.

5. Include in the SFRCS instrument strings the auxiliary steam generator level control instruments,

LC-SP9A4, LC-SP9A3

LC-SP9B3, LC-SP9B4

Functional checks should be performed monthly. Instrument calibration should be performed every refueling.

These instrument strings should be identified in Table 3.3.4, and the setpoint trip valves should be identified in Table 3.3.12.

6. Include in the SFRCS instrument strings the following:

PSL 1060 PSL 107D

PSL 106B PSL 107B

PSL 106C PSL 107C

PSL 106A PSL 107A

These switches actuate @ less than 10 psig. The surveillance requirements should be inclusive from mode 1 to mode 4. Functional checks should be performed monthly. Instrument calibration should be performed every refueling.

7. The sensors referred to in note 4, 5 and 6 are identified on drawing 7749 - M050 Revision 9 and 7749 - M051 Revision 11. Note also that the level switch item numbers identified on page 3/4 3-25 and 3/4 3-26 are different than what are shown on the above "latest" drawings. The applicant should correct these discrepancies.

8. The response times given in Table 3.3.5 do not appear to be reasonable for some of the items listed. It appears that in some cases the response times listed do not include the response times for the diesel generator

and/or the sequence timers. These tables should be revised to reflect the actual as built design, i.e. if the actuators are pneumatic then the diesel generator or sequence timers response time may not be required in the total response time requirements.

9. The RCS pressure instrument strings for the ECCS system listed in Table 4.3-2 should require 120 day calibration period and not at each refueling (as indicated), if these transmitters are the same type as the transmitters used for the RPS system than exhibit drift. Refer to our discussion in section 7.2 of the SER and correct accordingly.
10. Page 3/4 3-23
The applicability mode for the SFRCS system should include mode 4. Check this requirement out with RSB.
11. The technical specification requirement review for; Section 3/4 3/4 (Radiation Monitoring), Incore detectors, seismic detectors. Meteorological instrumentation is beyond ICSB review. These sections should be reviewed by the cognizant reviewer in AAB, MEB respectibely.
12. The equipment listing for accident and post accident monitoring instrumentation is incomplete. Table 7.8 provides the list of equipment required for surveillance (denoted by double asterics) they are:
 1. R. C. loop outlet temperature
 2. R. C. loop pressure
 3. Pressurizer level
 4. Steam generator start-up range level

5. Auxiliary feedwater status
 6. Containment vessel isolation status
 7. Safety features equipment status
 8. RPS status
 9. SFRCS status
 10. High pressure flow
 11. Low pressure injection flow
 12. HPI system pump and valve status
 13. LPI system pump and valve status
 14. Containment spray pump and valve status
 15. Containment emergency pump valve status
 16. BWST valve status
 17. Containment air recirculation fan status
 18. Containment air fan status
 19. Emergency ventillation system fan and damper status
13. Enclosed is a marked-up copy of the technical specification sections referred in your memo of January 12, 1977, with additional editorial comments for your consideration (see Enclosure B).