2067

MEMO from:
J. L. SEELINGER

CC Dezilla 2067 11/3/78
↳ transfer NRC item to Porter note due date of 12/1/78

Ivan Porter:

Subj: Control Room T.S. Alarms

1. See attached - this is an open item from NRC inspection.
2. Zewe reviewed alarms vs. T.S. setpoints and a copy of that review is attached.
3. Take necessary action to change alarm setpoints as necessary to insure they are conservative with respect to T.S.

Separate item:
4. Kunder says U1 does not necessarily use a c/m to change ~~alarm~~ instrument setpoint. Let me know what your thoughts are on this.

Items 1-3 due 12/1

Jim

8307110318 781105
PDR ADOCK 05000289
P HOL

Tech Spec. Alarms (Jim Seelinger)

1.) (8.A.1) Reactor Building Pressure Hi.

Annunciator Sticker	30 psig
Response to alarms	26 psig (OK) WHZ
Instrument list	26 psig
TS requirements	≤ 28 psig relating to ESAS

Annunciator requires new sticker with proper set point, otherwise we are more conservative than T.S. requirements

2.) (8A.9) Reactor Building Pressure Hi

Annunciator sticker	30 psig
Response to alarms	30 psig
Instrument list	30 psig
TS requirements	< 28 psig relating to ESAS

Need resolved with should be same as 8A.1

This alarm does not conform with T.S. requirements

3. (8A.17): 1A/1B Core Flooding Tank pressure High/Low

Annunciator sticker	High 615 psig	Low 585 psig
Response to Alarm	High 615 psig	Low 585 psig
Instrument list	High 615 psig	Low 585 psig
T.S. requirements	pressure between 575 and 625 psig	

(OK with)

The alarm is conservative compared to T.S. requirements

4. (8.A18) Fuel Storage pool Level low

Annunciator sticker	4 inches
Response to alarms	4 inches
Instrument list	4 inches

Need Resolution WLB

T.S. requirement is that we have 23 feet of water above the top of the fuel assemblies. None of the above sources of information tells 4" from where.

5. (8.A.23) Sodium Hydroxide Tank Level Hi/Lo

Annunciator sticker	hi - 46' 5"	Lo - 44' 5"
Response to Alarms	hi - 46' 5"	Lo - 44' 5"
Instrument List	hi - 49.55'	Low 47.95'

Need to Resolve WLB

TS requirement is that we have a contained volume between 13,275 and 14,100 gallons. At present in the control room we do not have a chart for Level vs gallons for NaOH tank. We do have a number approximation of 284 gallons/foot. This value is all right for instrument list setting but not for the other two set points. We should also have a conversion table for this tank

6. (8.B.26) Pressurizer Level Hig/Lo

Annunciator sticker	Hi - 260"	Lo 200"
Response to alarms	Hi - 260"	Lo 200"
Instrument list	Hi - 260"	Lo 200".

OK WLB

TS requirement that we maintain level between 45 + 385 inch. This alarm is conservative compared to T.S. requirements

(SC17) [illegible] Tank [illegible]

Annunciator sticker	High [illegible] ft	Low [illegible] feet
Response to alarms	High 13.3 ft	Low [illegible] ft
Instrument list	High 13.3 ft	Low [illegible] ft
TS requirement	High 13.45 ft	Low [illegible] ft
	1070 cu. ft.	[illegible] cu ft.

We don't have a chart correlating CF Tank volume to level. Otherwise we meet T.S. requirements

Need one wk

8. (8.C23) Borated Water Storage Tank Level H_1/L_0

Annunciator sticker	High 55.8 ft	Low 55.0 ft
Response to alarms	High 55.8 ft	Low 55.0 ft
Instrument List	High 55.4 ft	Low [illegible].1 ft
T.S. requirement	High 56 ft	Low [illegible].8 ft 6"

Response to alarms + Annunciator sticker do not correspond to Instrument List setpoint. Our table for level vs volume of BWST does not give between TS requirement and Instrument list. This one should be [illegible] at, and our chart possibly recalculated.

Need to resolve

9. (8.C26) Pressurizer Level H_1-H_1

Annunciator Sticker	315 inches
Response to Alarms	315 inches
Instrument list	315 inches

OK wk

T.S. limit is a maximum of 385 inches

This alarm appears to be OK.

10. (8.C27) RCP Loop Seal Return Flow High

- Annunciator sticker 1.6 gpm / ~~[illegible]~~
  Response to alarms 1.6 gpm
  Instrument List 1.4 gpm
  T.S. requirement ≤ 8 gpm controlled leakage
  Response to Alarm & Annunciator sticker do not agree with Instrument List set point

11. (8.D17) Core Flood Tank Valve Position Abnormal Closed
  Annunciator sticker ≥700 psig RCS press. with CF-V1A/1B closed
  Response to Alarms ≥700 psig RCS press with CF-V1A/1B closed
  T.S. requirements CF-V1A & 1B must be open in modes 1, 2 & 3 when RCS pressure is >600 psig.
  This alarm meets T.S. requirements. (OK WHz)

12. (8.D23) BWST Level Lo/Lo
  Annunciator sticker 12 ft
  Response to alarms 12 ft (ok)
  Instrument List 12 ft
  T.S. requirement is that we shift suction from BWST to RB Sump by 7' ± 2.4" in BWST

13. (8D24) BWST Temp Hi/Lo
  Annunciator Sticke High 110°F Low 45°F (ok)
  Response to alarms High 110°F Low 45°F
  Instrument List High 110°F Low 45°F
  T.S. requirement Minimum temperature of 45°F

14. 8.D28 RCS Narrow Range Pressure High

- Annunciator sticker 2255 psig
- Response to alarms 2255 psig
- Instrument List 2255 psig

(ok)

TS. requirement RCS pressure not to exceed 2750 psig & reactor trip setpoint ≤ 2355 psig.

15. (8.E26) Pressurizer level Lo-Lo

Annunciator Sticker 80 inches
Response to Alarms 80 inches
Instrument List 80 inches
TS requirement Minimum level of 45 inches

(ok)

16. (8.E28) RCS Narrow Range Pressure Low

Annunciator sticker 2055 psig
Response to Alarms 2055 psig
Instrument List 2055 psig
T.S. Requirement for reactor trip setpoint of 2100 psig

(ok)

17. (8.F28) RCS Pressure Lo-Lo

Need to resolve WB

Response to alarms No value
Instrument List 1550 PSIG
TS. Requirement that HPI. Setpoint to ≥ 164 psig. This alarm should come in before HPI.

[illegible] (8.F.30) Reactor Coolant [illegible] Temp [illegible]

Annunciator [illegible] 6[illegible]°F

Response to alarms [illegible]°F OK

Instrument List 6[illegible]°F

T.S. Requirement Maximum outlet temperature of 6.19°F

19. (8.A40) Core Flood Values Position Abnormal (Closed)

Meets same requirements of (8.A17) OK.