ENCLOSURE 2

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT (WBN)
UNIT 1

PROPOSED TECHNICAL SPECIFICATION (TS) CHANGE TS-98-008
MARKED-UP PAGES

I. AFFECTED PAGE LIST

TS	Page 3.4-25
TS Bases	Page B 3.4-67

II. MARKED PAGES

See attached.

3.4 REACTOR COOLANT SYSTEM

3.4.12 Cold Overpressure Mitigation System (COMS

LCO 3.4.12 A COMS System shall be OPERABLE with a maximum of one charging pump and no safety injection pump capable of injecting into the RCS and the accumulators isolated and either a or b below.

a. Two RCS relief valves, as follows:

1. Two power operated relief valves (PORVs) with lift settings within the limits specified in the PTLR, or

2. One PORV with a lift setting within the limits specified in the PTLR and the RHR suction relief valve with a setpoint ≥ 436.5 psig and ≤ 463.5 psig.

b. The RCS depressurized and an RCS vent capable of relieving > 475 gpm water flow.

Applicability MODES 4 and 5
MODE 6 when the reactor vessel head is on.

----------NOTES----------

1. While this LCO is not met, entry into the Applicability of the LCO is not permitted, **except as allowed by Notes 2, 3, and 4 below.**

2. Accumulator isolation is only required when accumulator pressure is greater than or equal to the maximum RCS pressure for the existing RCS cold leg temperature allowed by the P/T limit curves provided in the PTLR.

3. For the purposes of making the required safety injection pumps and charging pumps inoperable, the following time is permitted. Up to 4 hours after entering MODE 4 from MODE 3, or prior to decreasing temperature on any RCS loop to below 325°F, whichever occurs first.

4. For the purposes of making the RHR suction relief valve operable, up to 4 hours is permitted after entering Mode 4 from Mode 3.

APPLICABILITY (continued)

The Applicability is modified by ~~three~~ **four** Notes. LCO 3.0.4 does not apply to changes in MODES or other specified conditions in the Applicability that are part of a normal unit shutdown, or are in MODES 5 or 6, and therefore, does not preclude cooldown from MODE 3 to MODE 5. Since cooldown would make the reactor vessel more susceptible to brittle failure, a Note has been added to the Applicability that precludes entry into Applicability of the LCO while the LCO is not met, **except as allowed by Notes 2, 3, and 4.** Note 2 states that accumulator isolation is only required when the accumulator pressure is more than or at the maximum RCS pressure for the existing temperature, as allowed by the P/T limit curves. This Note permits the accumulator discharge isolation valve Surveillance to be performed only under these pressure and temperature conditions. Note 3 provides time to make the required pumps inoperable since the COMS arming temperature is the same as MODE 3 to MODE 4 transition temperature. **Note 4 provides time to make the RHR suction relief valve operable after entering Mode 4**

ACTIONS

A.1 and B.1

With two or more charging pumps or any safety injection pumps capable of injecting into the RCS, RCS overpressurization is possible.

To immediately initiate action to restore restricted coolant input capability to the RCS reflects the urgency of removing the RCS from this condition.

Required Action B.1 is modified by a Note that permits two charging pumps capable of RCS injection for ≤ 15 minutes to allow for pump swaps.

C.1, D.1, and D.2

An unisolated accumulator requires isolation within 1 hour. This is only required when the accumulator pressure is at or more than the maximum RCS pressure for the existing temperature allowed by the P/T limit curves.

If isolation is needed and cannot be accomplished in 1 hour, Required Action D.1 and Required Action D.2 provide two options, either of which must be performed in the next 12 hours. By increasing the RCS temperature to > 350°F, an accumulator pressure specified in WAT-D-9448 (Ref. 9) cannot exceed the COMS limits if the accumulators are fully injected.

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ENCLOSURE 3

TENNESSEE VALLEY AUTHORITY
WATTS BAR NUCLEAR PLANT (WBN)
UNIT 1

PROPOSED TECHNICAL SPECIFICATION (TS) CHANGE TS- 98-008
REVISED PAGES

I. AFFECTED PAGE LIST

TS	Page 3.4-25
TS Bases	Page B 3.4-67

II. REVISED PAGES

See attached.

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2. One PORV with a lift setting within the limits specified in the PTLR and the RHR suction relief valve with a setpoint $\geq$ 436.5 psig and $\leq$ 463.5 psig.

b. The RCS depressurized and an RCS vent capable of relieving > 475 gpm water flow.

Applicability MODES 4 and 5
MODE 6 when the reactor vessel head is on.

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3. For the purposes of making the required safety injection pumps and charging pumps inoperable, the following time is permitted. Up to 4 hours after entering MODE 4 from MODE 3, or prior to decreasing temperature on any RCS loop to below 325°F, whichever occurs first.

4. For the purposes of making the RHR suction relief valve operable, up to 4 hours is permitted after entering Mode 4 from Mode 3.

BASES

APPLICABILITY (continued)

The Applicability is modified by four Notes. LCO 3.0.4 does not apply to changes in MODES or other specified conditions in the Applicability that are part of a normal unit shutdown, or are in MODES 5 or 6, and therefore, does not preclude cooldown from MODE 3 to MODE 5. Since cooldown would make the reactor vessel more susceptible to brittle failure, a Note has been added to the Applicability that precludes entry into Applicability of the LCO while the LCO is not met, except as allowed by Notes 2, 3, and 4. Note 2 states that accumulator isolation is only required when the accumulator pressure is more than or at the maximum RCS pressure for the existing temperature, as allowed by the P/T limit curves. This Note permits the accumulator discharge isolation valve Surveillance to be performed only under these pressure and temperature conditions. Note 3 provides time to make the required pumps inoperable since the COMS arming temperature is the same as MODE 3 to MODE 4 transition temperature. Note 4 provides time to make the RHR suction relief valve operable after entering Mode 4

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