



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

February 26, 2001

LICENSEE: Entergy Operations, Inc.

FACILITY: Arkansas Nuclear One, Unit 1

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT 1 (ANO-1), MEETING SUMMARY
REGARDING MEETING ON JANUARY 23 AND 24, 2001, TO DISCUSS
CONVERSION TO STANDARD TECHNICAL SPECIFICATIONS
(TAC NO. MA8082)

On January 23 and 24, 2001, representatives of the Nuclear Regulatory Commission (NRC) met with Entergy Operations, Inc. (the licensee) to discuss the conversion of the technical specifications (TSs) for ANO-1 to the format of the standard technical specifications. The staff and licensee discussed questions posed by the staff regarding various sections of the proposed TSs. Enclosure 1 provides a list of the participants and the TS sections discussed.

The staff provided the licensee with preliminary questions (via e-mail) prior to the meeting. The questions were provided as an enclosure to the meeting summary dated January 18, 2001, and are available in the NRC's Agencywide Documents Access and Management System (ADAMS), Accession No. ML003781058. The discussion of each TS section basically consisted of a review of the questions to ensure a mutual understanding of the licensee's proposal and the staff's questions. The licensee will respond to the staff's questions in future submittals.

Shortly after the meeting on January 24, 2001, the staff provided additional questions to the licensee (via e-mail). These questions are provided as Enclosure 2. These questions will likely be discussed during future conference calls and/or meetings between the staff and licensee and will be formally responded to by the licensee in future submittals.

William D. Reckley, Project Manager, Section 1
Project Directorate IV & Decommissioning
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-313

Enclosures: As stated

cc w/encls: See next page

NRC001

Arkansas Nuclear One

cc:

Executive Vice President
& Chief Operating Officer
Entergy Operations, Inc.
P. O. Box 31995
Jackson, MS 39286-1995

Director, Division of Radiation
Control and Emergency Management
Arkansas Department of Health
4815 West Markham Street, Slot 30
Little Rock, AR 72205-3867

Winston & Strawn
1400 L Street, N.W.
Washington, DC 20005-3502

Mike Schoppman
Framatome ANP, Inc.
Suite 705
1911 North Fort Myer Drive
Rosslyn, VA 22209

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
P. O. Box 310
London, AR 72847

Regional Administrator, Region IV
U.S. Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-8064

County Judge of Pope County
Pope County Courthouse
Russellville, AR 72801

Vice President, Operations Support
Entergy Operations, Inc.
P. O. Box 31995
Jackson, MS 39286-1995

Wise, Carter, Child & Caraway
P. O. Box 651
Jackson, MS 39205

Mr. Craig G. Anderson
Vice President Operations, ANO
Entergy Operations, Inc.
1448 S. R. 333
Russellville, AR 72801

ATTENDANCE LIST

PUBLIC MEETING HELD ON JANUARY 23 AND 24, 2001

ARKANSAS NUCLEAR ONE, UNIT 1

CONVERSION TO STANDARD TECHNICAL SPECIFICATIONS

Name

Organization

Craig Harbuck

Nuclear Regulatory Commission

Kerri Kavanagh

Nuclear Regulatory Commission

Ed Tomlinson

Nuclear Regulatory Commission

Bill Reckley

Nuclear Regulatory Commission

Dale James

Entergy Operations, Inc.

Clint Szabo

Entergy Operations, Inc./Excel Services

Enclosure 2

Preliminary Questions for ANO ITS Conversion

3.8.2-1

TS 3.8.2 SRs

The licensee has not adopted the NUREG with regard to SRs to be performed in MODES 5 and 6. The NUREG makes the case that some LCO 3.8.1 SRs are not applicable in Modes 5 and 6, some SRs are applicable but not required to be performed, and the remaining SRs are applicable and required to be performed. In the staff's view, the TS are more complete when the NUREG format is followed. For ANO-1, the following SRs would be applicable and required to be performed; SR 3.8.1.1, SR 3.8.1.2, SR 3.8.1.4, and SR 3.8.1.5 (SR 3.8.1.5 is a new SR based on the informal response to RAI 3.8.1-19). The following SRs would be applicable, but not required to be performed; SR 3.8.1.3, SR 3.8.1.5(6), and 3.8.1.7(8). The following SRs from LCO 3.8.1 are not applicable; SR 3.8.1.6(7), and SR 3.8.1.8(9). The licensee is encouraged to adopt the NUREG format regarding SRs in LCO 3.8.2.

Licensee Response:

3.8.2-2

ITS 3.8.2 Action B

The licensee has not adopted the provisions of TSTF-286 with regard to LCO 3.8.2, Required Action B.3. The licensee is not required to adopt the provisions of the TSTF, but doing so is recommended since it provides greater flexibility. The licensee should also check ITS Sections 3.3, 3.4, and 3.9 to see if TSTF-286 has been incorporated.

Licensee Response:

3.8.2-3

3.8.2 Bases

In several places in the Bases Background and LCO discussions, statements are made to the effect that buses/trains may be cross tied. This is acceptable provided it is compatible with the licensee's management of shutdown tasks and associated electrical support to maintain risk at an acceptable low level. To this end, the staff would like to see the LCO 3.8.2 Bases modified to allow cross-tying of buses/trains provided it is compatible with NUMARC 91-06, "Guidelines for Industry Actions to Assess Shutdown Management."

Licensee Response:

Arkansas Nuclear One, Unit 1, Improved Technical Specifications (ITS) Review Comments
ITS 3.8.2 and 3.8.5, Electrical Power Systems - Shutdown

3.8.2-4

3.8.2 Bases

In the LCO section of the LCO 3.8.2 Bases, the licensee indicates that the alternate AC diesel generator can be used to satisfy the LCO requirements. The staff has concluded that this is acceptable with certain restrictions. Specifically, the alternate AC DG should be limited to use on one unit at a time. Use of the alternate AC DG and the limitations need to be addressed in the LCO.

Licensee Response:

3.8.2-5

3.8.2 Bases - Applicability

Paragraph c. in the Applicability section of the NUREG Bases has not been adopted. What is the reason for deleting this portion of the Bases?

Licensee Response:

3.8.2-6

3.8.2 Bases - Actions

In the Actions section of the Bases, the licensee has added a discussion regarding fuel handling in Modes 1-4. The TSTF which added the Note about LCO 3.0.3 not being applicable addresses this. The licensee may want to review this TSTF.

Licensee Response:

3.8.2-7

3.8.2 Bases - SRs

The Bases discussion of SRs should be reviewed in light of staff comments on presentation of the LCO SRs.

Licensee Response:

3.8.5-1

ITS LCO 3.8.5

A Note has been added to NUREG LCO 3.8.5 to the effect that LCO 3.0.3 is not applicable. This Note is added by a TSTF. The licensee may want to adopt this TSTF.

Licensee Response:

Arkansas Nuclear One Unit 1 Improved TS Review Comments
ITS Section 4.0, Design Features

3.8.5-2

ITS 3.8.5 Required Action A.2.5

The licensee has added Required Action A.2.5 to this LCO. Required Action A.2.5 is not included in the STS. The licensee is requested to explain why this action has been added.

Licensee Response:

3.8.5-3

ITS 3.8.5 Bases

In the LCO section of the LCO 3.8.5 Bases, the DC electrical power subsystems are described as consisting of "one battery." There is no mention of a battery charger. It is the staff's view that this is not acceptable. A battery can not continue to be OPERABLE without a charger to maintain the state of charge. The licensee should provide a justification for the proposed Bases, or revise the Bases to be consistent with the discussion of DC electrical power subsystems included in Bases for LCO 3.8.3 (now 3.8A).

Licensee Response:

3.8.5-4

ITS 3.8.5 Bases - Applicability

Paragraph c. in the Applicability section of the NUREG Bases has not been included in the ITS Bases. The licensee is requested to provide a discussion regarding why this portion of the STS Bases was omitted.

Licensee Response:

3.8.5-5

ITS 3.8.5 Bases - Actions

In the Actions section of the Bases, the licensee has added a discussion regarding fuel handling in Modes 1-4. The TSTF which added the Note about LCO 3.0.3 not being applicable addresses this. The licensee may want to review this TSTF.

Licensee Response:

Arkansas Nuclear One Unit 1 Improved TS Review Comments
ITS Section 4.0, Design Features

4.0-01

ITS 4.3.1.1.b
STS 4.3.1.1.b
CTS 5.4.2.1
DOD 8

The ITS omits a specific reference to the FSAR's description of the uncertainties in calculating k_{eff} for the spent fuel storage pool when the pool is flooded with unborated water. DOD 8 claims the CTS does not reference the FSAR. To the contrary, FSAR Section 9.6 is given as an overall reference to CTS Section 5.4 (but has been removed per DOC A1). Comment: Revise ITS 4.3.1.1.b to be consistent with the STS and CTS to include the FSAR location of the description of the uncertainties. Similar phrases regarding uncertainties should also be included in ITS 4.3.1.2.b and c for consistency with the STS.

Licensee Response:

4.0-02

DOD 6
STS 4.3.2 and 4.3.3

The ITS omits the STS design feature specifications regarding the spent fuel storage pool drainage design limitation and fuel storage capacity limitation. These specifications are required to be included in TS by 10 CFR 50.36(c)(4) since they pertain to features of the facility which, if altered or modified, would have a significant effect on safety, and are not covered by Safety Limits, Limiting Conditions for Operation, or Surveillance Requirements. Comment: Although Unit 1 CTS do not include design feature specifications corresponding to drainage and capacity, these specifications ought to be included in the ITS as required by regulation. Revise the ITS 4.0 to include appropriately-worded specifications for drainage and capacity.

Licensee Response:

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/RA/

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