



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

April 5, 2001

MEMORANDUM TO: File

FROM:  Thomas W. Alexion, Project Manager, Section 1
Project Directorate IV & Decommissioning
Division of Licensing Project Management

SUBJECT: ARKANSAS NUCLEAR ONE, UNIT 2 RE: DISCUSSIONS REGARDING
PROPOSED REACTOR COOLANT LEAKAGE DETECTION SYSTEM
TECHNICAL SPECIFICATIONS (TAC NO. MB1182)

The U. S. Nuclear Regulatory Commission (NRC) staff has had discussions with Entergy Operations, Inc., the licensee, regarding the licensee's February 6, 2001, application on the above subject. In order to facilitate these discussions, the licensee provided the draft information in the attachment. This draft information may be revised if and when the licensee decides to supplement their application. This information was not used in rendering any regulatory decisions.

The purpose of this memorandum is to place the attachment in the Public Document Room.

Docket No. 50-368

Attachment: As stated



ARKANSAS NUCLEAR ONE
1448 S.R. 333
Russellville, AR 72802

FAX COVERLETTER

DATE: April 4, 2001

TO: **Tom Alexion**
COMPANY or LOCATION: **U. S. Nuclear Regulatory Commission**
TELEPHONE NUMBER:
FACSIMILE (FAX) NUMBER:
VERIFICATION NUMBER:

FROM: **David Bice**
TELEPHONE NUMBER:
LOCATION: **Arkansas Nuclear One Licensing Department**
OUR FAX NUMBER:
OUR VERIFICATION NUMBER:
NUMBER OF PAGES INCLUDING COVER: **4**

COMMENTS:

REACTOR COOLANT SYSTEM3/4.4.6 REACTOR COOLANT SYSTEM LEAKAGELEAKAGE DETECTION SYSTEMSLIMITING CONDITION FOR OPERATION

3.4.6.1 The following Reactor Coolant System leakage detection systems shall be OPERABLE:

- a. A containment atmosphere particulate radioactivity monitor,
- b. The containment sump level monitor, and
- b. A containment atmosphere gaseous radioactivity monitor.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

- a. With the required containment atmosphere gaseous and/or particulate radioactivity monitor inoperable, operation may continue for up to 30 days provided:
 1. grab samples of the containment atmosphere are obtained and analyzed at least once per 24 hours, or
 2. a Reactor Coolant System water inventory balance is performed once per 24 hours in accordance with Surveillance Requirement 4.4.6.2.1.a;*
 3. otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With the containment sump level monitor inoperable, operation may continue for up to 30 days provided:
 1. a Reactor Coolant System water inventory balance is performed once per 24 hours in accordance with Surveillance Requirement 4.4.6.2.1.a;*
 2. otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- c. the provisions of Specification 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

- 4.4.6.1 The leakage detection system shall be demonstrated OPERABLE by:
- a. Performing a CHANNEL CHECK of the required containment atmosphere radioactivity monitor at least once per 12 hours.
 - b. Performing a CHANNEL CHECK of the containment sump level monitor at least once per 12 hours.
 - c. Performing a CHANNEL FUNCTIONAL TEST of the required containment atmosphere radioactivity monitor at least once per 31 days.
 - d. Performing a CHANNEL CALIBRATION of the containment sump level monitor at least once per 18 months.
 - e. Performing a CHANNEL CALIBRATION of the required containment atmosphere radioactivity monitor at least once per 18 months.

*Not required until 12 hours after establishment of steady state conditions.

REACTOR COOLANT SYSTEM3/4.4.6 REACTOR COOLANT SYSTEM LEAKAGELEAKAGE DETECTION SYSTEMSLIMITING CONDITION FOR OPERATION

3.4.6.1 The following Reactor Coolant System leakage detection systems shall be OPERABLE:

- a. A containment atmosphere particulate radioactivity monitoring system,
- b. The containment sump level monitoring system, and
- c. A containment atmosphere gaseous radioactivity monitoring system.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

- a. With only two of the above required leakage detection systems containment atmosphere gaseous and/or particulate radioactivity monitor inoperable OPERABLE, operation may continue for up to 30 days provided:
 1. grab samples of the containment atmosphere are obtained and analyzed at least once per 24 hours, or when the required gaseous and/or particulate radioactivity monitoring system is inoperable
 2. a Reactor Coolant System water inventory balance is performed once per 24 hours in accordance with Surveillance Requirement 4.4.6.2.1.a;*
 3. otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- b. With the containment sump level monitor inoperable, operation may continue for up to 30 days provided:
 1. a Reactor Coolant System water inventory balance is performed once per 24 hours in accordance with Surveillance Requirement 4.4.6.2.1.a;*
 2. otherwise, be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- c. the provisions of Specification 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

- 4.4.6.1 The leakage detection system shall be demonstrated OPERABLE by:
- a. Containment atmosphere particulate and gaseous monitoring systems performance of CHANNEL CHECK, CHANNEL CALIBRATION and CHANNEL FUNCTIONAL TEST at the frequencies specified in Table 4.3-2. Performing a CHANNEL CHECK of the required containment atmosphere radioactivity monitor at least once per 12 hours.
 - b. Performing a CHANNEL CHECK of the containment sump level monitor at least once per 12 hours.

- c. Performing a CHANNEL FUNCTIONAL TEST of the required containment atmosphere radioactivity monitor at least once per 31 days.
- bd. Performing a CHANNEL CALIBRATION of the cContainment sump level monitoring system performance of CHANNEL CALIBRATION at least once per 18 months.
- e. Performing a CHANNEL CALIBRATION of the required containment atmosphere radioactivity monitor at least once per 18 months.

*Not required until 12 hours after establishment of steady state conditions.

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