

NRR-PMDAPEm Resource

From: Hess, Thomas A <tahess@tva.gov>
Sent: Friday, January 15, 2016 2:53 PM
To: Hon, Andrew
Subject: [External_Sender] RE: UHS Slides for Sequoyah?
Attachments: ERCW NRC Presubmittal Call on 1-19-16.pptx; U1 ITS 3 7 8 draft mark-up.pdf

From: Hon, Andrew [mailto:Andrew.Hon@nrc.gov]
Sent: Thursday, January 14, 2016 8:54 AM
To: Hess, Thomas A
Subject: UHS Slides for Sequoyah?

TVA External Message. Please use caution when opening.

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Subject: [External_Sender] RE: UHS Slides for Sequoyah?
Sent Date: 1/15/2016 2:52:34 PM
Received Date: 1/15/2016 2:53:02 PM
From: Hess, Thomas A

Created By: tahess@tva.gov

Recipients:
"Hon, Andrew" <Andrew.Hon@nrc.gov>
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MESSAGE	225	1/15/2016 2:53:02 PM
ERCW NRC Presubmittal Call on 1-19-16.pptx		43334
U1 ITS 3 7 8 draft mark-up.pdf	1104726	

Options

Priority: Standard
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ERCW LAR Pre-submittal Meeting

1/19/16

LAR Objective

- To allow 7 Day Completion Time to restore One Train of ERCW to Operable Status to facilitate cleaning Shutdown Boards

TS Changes

- TS LCO 3.7.8 will be revised to add Condition A
 - Condition A will allow 7 Days to restore One ERCW System train to operable status provided Ultimate Heat Sink Temperature remains below 84 degrees F.
 - Condition A is only applicable:
 - during planned maintenance
 - when opposite Unit is defueled or in MODE 6 following defueled with refueling water cavity level \geq 23 ft. above top of reactor vessel flange

Technical Basis

- During the cleaning of the SQN Shutdown Boards, one ERCW Pump will not be available.
- The remaining pump on the effected train is available
- Current operability criteria requires two operable ERCW pumps per train (with one pump fed from each shutdown board)
- Engineering Analysis has demonstrated that ERCW will continue to perform its design function with one pump functional provided a more restrictive UHS temperature limit imposed.

TS Bases and FSAR Changes

- The TS Bases will be revised to provided additional details regarding the application of condition A.
- FSAR will be revised to include details on the system alignments which have been evaluated to support the conclusion that ERCW will continue to perform its design function with one pump functional provided a more restrictive UHS temperature limit is imposed.

3.7 PLANT SYSTEMS

3.7.8 Essential Raw Cooling Water (ERCW) System

LCO 3.7.8 Two ERCW System trains shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3, and 4.

ACTIONS

Inserted new conditional ACTION A

-----NOTES-----
 1. Only applicable during planned maintenance.
 2. Only applicable when Unit 2 is defueled or in MODE 6 following defueled with Unit 2 refueling water cavity level \geq 23 ft. above top of reactor vessel flange.

A. One ERCW System train inoperable.

A.1

-----NOTES-----
 1. Enter applicable Conditions and Required Actions of LCO 3.8.1, "AC Sources - Operating," for emergency diesel generator made inoperable by ERCW System.
 2. Enter applicable Conditions and Required Actions of LCO 3.4.6, "RCS Loops - MODE 4," for residual heat removal loops made inoperable by ERCW System.

~~Restore ERCW System train to OPERABLE status.~~

COMPLETION TIME

7 days

1 Hour and every 8 hours

Completion Time of 7 days for planned maintenance with opposite unit defueled or subsequent to defueled.

ADD:
 A.1 Restore ERCW System train to OPERABLE status.
 AND
 A.2 Verify Ultimate Heat Sink Temperature is $<$ 84 degrees F

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>B. One ERCW System train inoperable for reasons other than Condition A.</p>	<p>B.1</p> <p>-----NOTES-----</p> <ol style="list-style-type: none"> 1. Enter applicable Conditions and Required Actions of LCO 3.8.1, "AC Sources - Operating," for emergency diesel generator made inoperable by ERCW System. 2. Enter applicable Conditions and Required Actions of LCO 3.4.6, "RCS Loops - MODE 4," for residual heat removal loops made inoperable by ERCW System. <p>-----</p> <p>Restore ERCW System train to OPERABLE status.</p>	<p>72 hours</p>
<p>C. Required Action and associated Completion Time of Condition A not met.</p>	<p>C.1 Be in MODE 3.</p> <p><u>AND</u></p> <p>C.2 Be in MODE 5.</p>	<p>6 hours</p> <p>36 hours</p>

Renumbered from Condition A to Condition B

Renumbered from Condition B to Condition C

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
<p>SR 3.7.8.1</p> <p>-----NOTE----- Isolation of ERCW System flow to individual components does not render the ERCW System inoperable. -----</p> <p>Verify each ERCW System manual, power operated, and automatic valve in the flow path servicing safety related equipment, that is not locked, sealed, or otherwise secured in position, is in the correct position.</p>	<p>In accordance with the Surveillance Frequency Control Program</p>
<p>SR 3.7.8.2</p> <p>Verify each ERCW System automatic valve in the flow path servicing safety related equipment that is not locked, sealed, or otherwise secured in position, actuates to the correct position on an actual or simulated actuation signal.</p>	<p>In accordance with the Surveillance Frequency Control Program</p>
<p>SR 3.7.8.3</p> <p>Verify each ERCW System pump starts automatically on an actual or simulated actuation signal.</p>	<p>In accordance with the Surveillance Frequency Control Program</p>