

**From:** "WALLI, LORI A." <LWALLI@energy-northwest.com>  
**To:** "Brian Benney" <BJB@nrc.gov>  
**Date:** 3/13/06 6:25PM  
**Subject:** Technical Specification Pages

Brian,

Attached are the clean TS pages for 3.8.1. Do you need a hard copy sent to you? Let me know and I'll put one in FedEx.

Thanks,

Lori

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**From:** "WALLI, LORI A." <LWALLI@energy-northwest.com>

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MESSAGE	1081	03/13/06 06:24PM
TEXT.htm	2014	
TS_Pages.pdf	116688	
Mime.822	165486	

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**Priority:** Standard  
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AC Sources - Operating  
3.8.1

3.8 ELECTRICAL POWER SYSTEMS

3.8.1 AC Sources - Operating

LCO 3.8.1 The following AC electrical power sources shall be OPERABLE:

- a. Two qualified circuits between the offsite transmission network and the onsite Class 1E AC Electric Power Distribution System; and
- b. Three diesel generators (DGs).

APPLICABILITY: MODES 1, 2, and 3.

-----NOTE-----  
Division 3 AC electrical power sources are not required to be OPERABLE when High Pressure Core Spray System is inoperable.  
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ACTIONS

-----NOTE-----  
LCO 3.0.4.b is not applicable to DGs.  
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CONDITION	REQUIRED ACTION	COMPLETION TIME
A. One offsite circuit inoperable.	A.1 Perform SR 3.8.1.1 for OPERABLE offsite circuit.  <u>AND</u>	1 hour <u>AND</u> Once per 8 hours thereafter  (continued)

AC Sources - Operating  
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ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>A. (continued)</p>	<p>A.2 Declare required feature(s) with no offsite power available inoperable when the redundant required feature(s) are inoperable.</p> <p><u>AND</u></p> <p>A.3 Restore offsite circuit to OPERABLE status.</p>	<p>24 hours from discovery of no offsite power to one division concurrent with inoperability of redundant required feature(s)</p> <p>72 hours</p> <p><u>AND</u></p> <p>6 days from discovery of failure to meet LCO when not associated with Required Action B.4.2.2</p> <p><u>AND</u></p> <p>17 days from discovery of failure to meet LCO</p>
<p>B. One required DG inoperable.</p>	<p>B.1 Perform SR 3.8.1.1 for OPERABLE offsite circuit(s).</p> <p><u>AND</u></p>	<p>1 hour</p> <p><u>AND</u></p> <p>Once per 8 hours thereafter</p> <p>(continued)</p>

AC Sources – Operating  
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ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
B. (continued)	B.2 Declare required feature(s), supported by the inoperable DG, inoperable when the redundant required feature(s) are inoperable.	4 hours from discovery of Condition B concurrent with inoperability of redundant required feature(s)
	<u>AND</u>	
	B.3.1 Determine OPERABLE DG(s) are not inoperable due to common cause failure.	24 hours
	<u>OR</u>	
	B.3.2 Perform SR 3.8.1.2 for OPERABLE DG(s).	24 hours if not performed within the past 24 hours
	<u>AND</u>	
B.4.1 Restore required DG to OPERABLE status.	72 hours* from discovery of an inoperable DG	
<u>OR</u>	<u>AND</u>	
	6 days from discovery of failure to meet LCO	
	(continued)	

\* On a one-time basis, during the refurbishment/replacement of the 1B Service Water Pump during Cycle 18, the Completion Time for the Division 2 DG is extended to 144 hours.

AC Sources – Operating  
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ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
B. (continued)	B.4.2.1 Establish risk management actions for the alternate AC sources.  <u>AND</u>  B.4.2.2 Restore required DG to OPERABLE status.	72 hours   14 days  <u>AND</u> 17 days from discovery of failure to meet LCO
C. Two offsite circuits inoperable.	C.1 Declare required feature(s) inoperable when the redundant required feature(s) are inoperable.   <u>AND</u>  C.2 Restore one offsite circuit to OPERABLE status.	12 hours from discovery of Condition C concurrent with inoperability of redundant required feature(s)          24 hours

(continued)

AC Sources - Operating  
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ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>D. One offsite circuit inoperable.</p> <p><u>AND</u></p> <p>One required DG inoperable.</p>	<p>-----NOTE-----</p> <p>Enter applicable Conditions and Required Actions of LCO 3.8.7, "Distribution Systems - Operating," when Condition D is entered with no AC power source to any division.</p> <p>-----</p> <p>D.1 Restore offsite circuit to OPERABLE status.</p> <p><u>OR</u></p> <p>D.2 Restore required DG to OPERABLE status.</p>	<p>12 hours</p> <p>12 hours</p>
<p>E. Two required DGs inoperable.</p>	<p>E.1 Restore one required DG to OPERABLE status.</p>	<p>2 hours</p> <p><u>OR</u></p> <p>24 hours if Division 3 DG is inoperable</p>
<p>F. Required Action and Associated Completion Time of Condition A, B, C, D, or E not met.</p>	<p>F.1 Be in MODE 3.</p> <p><u>AND</u></p> <p>F.2 Be in MODE 4.</p>	<p>12 hours</p> <p>36 hours</p>
<p>G. Three or more required AC sources inoperable.</p>	<p>G.1 Enter LCO 3.0.3.</p>	<p>Immediately</p>

AC Sources – Operating  
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SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.8.1.1 Verify correct breaker alignment and indicated power availability for each offsite circuit.	7 days
SR 3.8.1.2 -----NOTES----- 1. All DG starts may be preceded by an engine prelube period and followed by a warmup period prior to loading.  2. A modified DG start involving idling and gradual acceleration to synchronous speed may be used for this SR as recommended by the manufacturer. When modified start procedures are not used, the time, voltage, and frequency tolerances of SR 3.8.1.7 must be met. ----- Verify each required DG starts from standby conditions and achieves steady state:  a. Voltage $\geq 3910$ V and $\leq 4400$ V and frequency $\geq 58.8$ Hz and $\leq 61.2$ Hz for DG-1 and DG-2; and  b. Voltage $\geq 3910$ V and $\leq 4400$ V and frequency $\geq 58.8$ Hz and $\leq 61.2$ Hz for DG-3.	31 days

(continued)