

3.6 CONTAINMENT SYSTEMS

3.6.4.1 Secondary Containment

LCO 3.6.4.1 The secondary containment shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3,  
 During movement of irradiated fuel assemblies in the secondary  
 containment,  
 During CORE ALTERATIONS,  
 During operations with a potential for draining the reactor vessel  
 (OPDRVs).

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Secondary containment inoperable in MODE 1, 2, or 3.	A.1 Restore secondary containment to OPERABLE status.	4 hours  <u>OR</u>  48 hours for a one-time outage for replacement of the Reactor Building Recirculating Fan Damper Motors, to be completed by December 31, 2005.
B. Required Action and associated Completion Time of Condition A not met.	B.1 Be in MODE 3.  <u>AND</u>  B.2 Be in MODE 4.	12 hours    36 hours

**ACTIONS**

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>C. Secondary containment inoperable during movement of irradiated fuel assemblies in the secondary containment, during CORE ALTERATIONS, or during OPDRVs.</p>	<p>C.1 <del>NOTE</del>            LCO 3.0.3 is not applicable.</p> <p>Suspend movement of irradiated fuel assemblies in the secondary containment.</p> <p><u>AND</u></p> <p>C.2 Suspend CORE ALTERATIONS.</p> <p><u>AND</u></p> <p>C.3 Initiate action to suspend OPDRVs.</p>	<p>Immediately</p> <p>Immediately</p> <p>Immediately</p>

**SURVEILLANCE REQUIREMENTS**

SURVEILLANCE	FREQUENCY
<p>SR 3.6.4.1.1 Verify secondary containment vacuum is <math>\geq 0.25</math> inch of vacuum water gauge.</p>	<p>24 hours</p>
<p>SR 3.6.4.1.2 Verify all required secondary containment removable walls and equipment hatches required to be closed are closed and sealed.</p>	<p>31 days</p>

**SURVEILLANCE REQUIREMENTS (continued)**

SURVEILLANCE	FREQUENCY
<p style="text-align: center;">-----NOTE-----            Single door access openings between required zones within the secondary containment boundary may be opened for entry and exit.            -----</p> <p>SR 3.6.4.1.3 Verify one secondary containment access door in each access opening is closed.</p>	<p>31 days</p>
<p>SR 3.6.4.1.4 -----NOTE-----            The maximum time allowed for secondary containment draw down is dependent on the secondary containment configuration.            -----</p> <p>Verify each standby gas treatment (SGT) subsystem will draw down the secondary containment to <math>\geq 0.25</math> inch of vacuum water gauge in less than or equal to the maximum time allowed for the secondary containment configuration that is OPERABLE.</p>	<p style="text-align: center;">-----NOTE-----            Once every 60 months testing will be performed in three zone configuration.            -----</p> <p>24 months on a STAGGERED TEST BASIS</p>
<p>SR 3.6.4.1.5 -----NOTE-----            The maximum flow allowed for maintaining secondary containment vacuum is dependent on the secondary containment configuration.            -----</p> <p>Verify each SGT subsystem can maintain <math>\geq 0.25</math> inch of vacuum water gauge in the secondary containment for at least 1 hour at a flow rate less than or equal to the maximum flow rate permitted for the secondary containment configuration that is OPERABLE.</p>	<p style="text-align: center;">-----NOTE-----            Once every 60 months testing will be performed in three zone configuration.            -----</p> <p>24 months on a STAGGERED TEST BASIS</p>

ACTIONS		
CONDITION	REQUIRED ACTION	COMPLETION TIME
C. (continued)	C.2.1 Suspend movement of irradiated fuel assemblies in secondary containment.	Immediately
	<u>AND</u>	
	C.2.2 Suspend CORE ALTERATIONS.	Immediately
	<u>AND</u>	
	C.2.3 Initiate action to suspend OPDRVs.	Immediately
D. Two SGT subsystems inoperable in MODE 1, 2, or 3.	D.1 Restore one SGT subsystem to OPERABLE status.	4 hours <u>OR</u> 48 hours for a one-time outage for replacement of the Reactor Building Recirculating Fan Damper Motors, to be completed by December 31, 2005.
E. Required Action and associated Completion Time of Condition D not met in MODE 1, 2, or 3.	E.1 Be in MODE 3.	12 hours
	<u>AND</u>	
	E.2 Be in MODE 4.	36 hours

(continued)

**ACTIONS (continued)**

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>F. Two SGT subsystems inoperable during movement of irradiated fuel assemblies in the secondary containment, during CORE ALTERATIONS, or during OPDRVs.</p>	<p>F.1 -----NOTE----- LCO 3.0.3 is not applicable. -----</p> <p>Suspend movement of irradiated fuel assemblies in secondary containment.</p>	<p>Immediately</p>
	<p><u>AND</u></p> <p>F.2 Suspend CORE ALTERATIONS.</p>	<p>Immediately</p>
	<p><u>AND</u></p> <p>F.3 Initiate action to suspend OPDRVs.</p>	<p>Immediately</p>

**SURVEILLANCE REQUIREMENTS**

SURVEILLANCE	FREQUENCY
<p>SR 3.6.4.3.1 Operate each SGT filter train for <math>\geq 10</math> continuous hours with heaters operating.</p>	<p>31 days</p>
<p>SR 3.6.4.3.2 Perform required SGT filter testing in accordance with the Ventilation Filter Testing Program (VFTP).</p>	<p>In accordance with the VFTP</p>
<p>SR 3.6.4.3.3 Verify each SGT subsystem actuates on an actual or simulated initiation signal.</p>	<p>24 months</p>
<p>SR 3.6.4.3.4 Verify each SGT filter cooling bypass and outside air damper opens and the fan starts on high charcoal temperature.</p>	<p>24 months</p>

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APPLICABILITY: MODES 1, 2, and 3,  
 During movement of irradiated fuel assemblies in the secondary  
 containment,  
 During CORE ALTERATIONS,  
 During operations with a potential for draining the reactor vessel  
 (OPDRVs).

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. Secondary containment inoperable in MODE 1, 2, or 3.	A.1 Restore secondary containment to OPERABLE status.	4 hours  <u>OR</u> 48 hours for a one-time outage for replacement of the Reactor Building Recirculating Fan Damper Motors, to be completed by December 31, 2005.
B. Required Action and associated Completion Time of Condition A not met.	B.1 Be in MODE 3.  <u>AND</u> B.2 Be in MODE 4.	12 hours  36 hours

**ACTIONS**

CONDITION	REQUIRED ACTION	COMPLETION TIME
<p>C. Secondary containment inoperable during movement of irradiated fuel assemblies in the secondary containment, during CORE ALTERATIONS, or during OPDRVs.</p>	<p>C.1 <del>NOTE</del>            LCO 3.0.3 is not applicable.</p> <p>Suspend movement of irradiated fuel assemblies in the secondary containment.</p> <p><u>AND</u></p> <p>C.2 Suspend CORE ALTERATIONS.</p> <p><u>AND</u></p> <p>C.3 Initiate action to suspend OPDRVs.</p>	<p>Immediately</p> <p>Immediately</p> <p>Immediately</p>

**SURVEILLANCE REQUIREMENTS**

SURVEILLANCE	FREQUENCY
<p>SR 3.6.4.1.1 Verify secondary containment vacuum is <math>\geq 0.25</math> inch of vacuum water gauge.</p>	<p>24 hours</p>
<p>SR 3.6.4.1.2 Verify all required secondary containment removable walls and equipment hatches required to be closed are closed and sealed.</p>	<p>31 days</p>

SURVEILLANCE REQUIREMENTS (continued)	
SURVEILLANCE	FREQUENCY
<p style="text-align: center;">-----NOTE-----            Single door access openings between required zones within the secondary containment boundary may be opened for entry and exit.            -----</p> <p>SR 3.6.4.1.3 Verify one secondary containment access door in each access opening is closed.</p>	<p>31 days</p>
<p>SR 3.6.4.1.4 -----NOTE-----            The maximum time allowed for secondary containment draw down is dependent on the secondary containment configuration.            -----</p> <p>Verify each standby gas treatment (SGT) subsystem will draw down the secondary containment to <math>\geq 0.25</math> inch of vacuum water gauge in less than or equal to the maximum time allowed for the secondary containment configuration that is OPERABLE.</p>	<p style="text-align: center;">-----NOTE-----            Once every 60 months testing will be performed in three zone configuration.            -----</p> <p>24 months on a  <b>STAGGERED TEST BASIS</b></p>
<p>SR 3.6.4.1.5 -----NOTE-----            The maximum flow allowed for maintaining secondary containment vacuum is dependent on the secondary containment configuration.            -----</p> <p>Verify each SGT subsystem can maintain <math>\geq 0.25</math> inch of vacuum water gauge in the secondary containment for at least 1 hour at a flow rate less than or equal to the maximum flow rate permitted for the secondary containment configuration that is OPERABLE.</p>	<p style="text-align: center;">-----NOTE-----            Once every 60 months testing will be performed in three zone configuration.            -----</p> <p>24 months on a  <b>STAGGERED TEST BASIS</b></p>



ACTIONS		
CONDITION	REQUIRED ACTION	COMPLETION TIME
C. (continued)	C.2.1 Suspend movement of irradiated fuel assemblies in secondary containment.	Immediately
	<u>AND</u>	
	C.2.2 Suspend CORE ALTERATIONS.	Immediately
	<u>AND</u>	
	C.2.3 Initiate action to suspend OPDRVs.	Immediately
D. Two SGT subsystems inoperable in MODE 1, 2, or 3.	D.1 Restore one SGT subsystem to OPERABLE status.	4 hours
		<u>OR</u>
		48 hours for a one-time outage for replacement of the Reactor Building Recirculating Fan Damper Motors, to be completed by December 31, 2005.
E. Required Action and associated Completion Time of Condition D not met in MODE 1, 2, or 3.	E.1 Be in MODE 3.	12 hours
	<u>AND</u>	
	E.2 Be in MODE 4.	36 hours
		(continued)

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
F. Two SGT subsystems inoperable during movement of irradiated fuel assemblies in the secondary containment, during CORE ALTERATIONS, or during OPDRVs.	F.1 <u>NOTE</u> LCO 3.0.3 is not applicable.	
	Suspend movement of irradiated fuel assemblies in secondary containment.	Immediately
	<u>AND</u> F.2 Suspend CORE ALTERATIONS.	Immediately
	<u>AND</u> F.3 Initiate action to suspend OPDRVs.	Immediately

SURVEILLANCE REQUIREMENTS

SURVEILLANCE	FREQUENCY
SR 3.6.4.3.1 Operate each SGT filter train for $\geq 10$ continuous hours with heaters operating.	31 days
SR 3.6.4.3.2 Perform required SGT filter testing in accordance with the Ventilation Filter Testing Program (VFTP).	In accordance with the VFTP
SR 3.6.4.3.3 Verify each SGT subsystem actuates on an actual or simulated initiation signal.	24 months
SR 3.6.4.3.4 Verify each SGT filter cooling bypass and outside air damper opens and the fan starts on high charcoal temperature.	24 months