T						91, Rev.		TSTF-269, Rev.
	stry/TSTF	Standar	d Techr	nical Spe	cifica	ation C	Change 7	Fraveler
Allow administra	tive means of	position ver	ification fo	or locked or	sealed	välves		
Classification: 3) Improve Spc	cifications						
NUREGs Affected	l: 🗹 1430	🗹 1431	2 1432	2 1433		1434		
Description: Requirements for the verification to	repetitive verif be "by admini	fication of the strative mear	e status of "	locked, scale	l, or s	ecurcd" c	omponents	are modified to allow
correctly. Subsequ Given that the fun repositioning, the	sently verificat ction of lockin periodic re-ver is in the requir	tion is intend g. scaling or rification sho red state. It v	ed to ensure securing co uld only be yould be ina	e the compon omponents is a verification appropriate to	ent ha to ens a of th a remo	s not bee ure the sa e adminis	n inadverter ame avoidar strative cont	
Industry Contact:	Buschbaum,	Denny		(254) 897-	5851		dbuschbl	@tuelectric.com
NRC Contact:	Giardina, B	ob		301-314-3	52		lbb1@nrc	C.gov
Revision	Proposed by:	Comanche	Peak					<u> </u>
	Proposed by: Description: Issue	Comanche I	Pcak					· · ·
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Revision Proposed by: WOG

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OG Revision 1

Revision Status: Closed

Revision Description: Deleted changes to SR 3.6.3.5.

Owners Group Review Information

Date Originated by OG: 20-Nov-97

Owners Group Comments (No Comments)

Owners Group Resolution: Approved Date: 20-Nov-97

TSTF Review Information

TSTF Received Date: 20-Nov-97 Date Distributed for Review 06-Jan-98

OG Review Completed: 🗹 BWOG 🗹 WOG 🗹 CEOG 🔽 BWROG

TSTF Comments:

Applicable to all. Approved

TSTF Resolution: Approved Date: 05-Feb-98

NRC Review Information

NRC Received Date: 29-May-98 NRC Comments: 7/16/98 - NRC approves. Final Resolution: Superceded by Revision

Final Resolution Date: 16-Jul-98

TSTF Revision 1

Revision Status: Closed

Revision Proposed by: BWROG

Revision Description:

This revision extends the change to add Notes in the BWR/4 and BWR/6 markup for Action 3.6.4.2.A.2, SCIVs. This change applies to the BWR secondary containment isolation valves as well as the primary containment isolation valves.

In addition, SR 3.6.4.2.1 for the BWR/4 and BWR/6 NUREGs is added to the SRs changed by this Traveler. This SR, which verifies the position of secondary containment manual valves and blind flanges, also requires verification of valves which are locked, scaled, or otherwise secured and the justification for the Traveler applies to this SR.

TSTF Review Information TSTF Received Date: 03-Feb-99 Date Distributed for Review 09-Mar-99 OG Review Completed: ☑ BWOG ☑ WOG ☑ CEOG ☑ BWROG TSTF Comments: (No Comments) TSTF Resolution: Approved Date: 09-Apr-99

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Final Resolution Date:

TSTF-269, Rev. 2

TSTF Revision 1

Revision Status: Closed

NRC Review Information

NRC Received Date: 30-Apr-99

NRC Comments:

5/12/99 - The staff agrees that the proposed changes to the BWR/4 and BWR/6 SCIVs ACTIONS should be made. The same OG and staff justifications made in TSTF-269, Rev. 0 would apply here. However, the staff recommends two modifications to Rev. 1 for consistency purposes.

1. The staff disagrees with the modifications made to BWR/4 and BWR/6 STS SR 3.6.4.2.1. The proposed change would require, by administrative means, verification of all locked, scaled and otherwise secured SCIVs required to be closed on a 31 day frequency. TSTF-045 exempted the locked, sealed or otherwise secured required closed PCIVs from the 31 day or MODE 4/92 day verification surveillance (SR 3.6.1.3.3 and SR 3.6.1.3.4, respectively). The staff believes the same criteria and justifications apply here. Therefore, the staff recommends that Inserts 5 and 6 be deleted. In their place, staff Insert 5 should be added and the modifications (see 5/12/99 NRC to NEI letter attachment) for SR 3.6.4.2.1 and it's associated Bases should be made.

2. The staff believes that the proposed modifications to NUREG-1434 BWR/6 STS are incomplete. Using the same criteria and justifications in TSTF-269, Rev. 0 and Rev. 1 and TSTF-045, and item 1 above, similar changes should be made to BWR/6 STS 3,6,5,3 'Drywell Isolation Valve(s)' Required Action A.2 NOTES, SR 3.6.5.3.3 and their associated Bases (see attachment).

Final Resolution: Superceded by Revision

TSTF Revision 2 Next Action: **Revision Status: Active** Revision Proposed by: NRC **Revision Description:** In response to NRC comments, BWR/6 pages for the Drywell Isolation Valve specification were added. The changes to BWR/4 and BWR/6 SR 3.6.4.2.1 that were added in Rev. 1 were removed. **TSTF Review Information** TSTF Received Date 15-Jun-99 Date Distributed for Review 15-Jun-99 OG Review Completed: 🗹 BWOG 🔽 WOG 🔽 CEOG 🖌 BWROG **TSTF** Comments: (No Comments) **TSTF** Resolution: Approved Date: 15-Jun-99 **Incorporation Into the NUREGs** File to BBS/LAN Date: TSTF Informed Date: TSTF Approved Date: NUREG Rev Incorporated: Affected Technical Specifications Action 3.6.3.A Containment Isolation Valves NUREG(s)- 1430 Only 6/27/99

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(WOG-91, Rev. 1)

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Action 3.6.3.A Bases	Containment Isolation Valves	NUREG(s)- 1430 Only
Action 3.6.3.C	Containment Isolation Valves	NUREG(s)- 1430 Only
Action 3.6.3.C Bases	Containment Isolation Valves	NUREG(s)- 1430 Only
Action 3.6.3.D	Containment Isolation Valves	NUREG(s)- 1430 Only
Action 3.6.3.D Bases	Containment Isolation Valves	NUREG(s)- 1430 Only
Action 3.6.3.A	Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual)	NUREG(s)- 1431 Only
Action 3.6.3.A Bases	Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual)	NUREG(s)- 1431 Only
Action 3.6.3.C	Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual)	NUREG(s)- 1431 Only
Action 3.6.3.C Bases	Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual)	NUREG(s)- 1431 Only
Action 3.6.3.E	Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual)	NUREG(s)- 1431 Only
Action 3.6.3.E Bases	Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual)	NUREG(s)- 1431 Only
Action 3.6.3.A	Containment Isolation Valves (Atmospheric and Dual)	NUREG(s)- 1432 Only
Action 3.6.3.A Bases	Containment Isolation Valves (Atmospheric and Dual)	NUREG(s)- 1432 Only
Action 3.6.3.C	Containment Isolation Valves (Atmospheric and Dual)	NUREG(s)- 1432 Only
Action 3.6.3.C Bases	Containment Isolation Valves (Atmospheric and Dual)	NUREG(s)- 1432 Only
Action 3.6.3.E	Containment Isolation Valves (Atmospheric and Dual)	NUREG(s)- 1432 Only
Action 3.6.3.E Bases	Containment Isolation Valves (Atmospheric and Dual)	NUREG(s)- 1432 Only
Action 3.5.4.2.A	SCIVs	NUREG(s)- 1433 1434 Only
Action 3.5.4.2.A Bases	SCIVs	NUREG(s)- 1433 1434 Only
Action 3.6.3.A	PCIVs	NUREG(s)- 1433 1434 Only
Action 3.6.3.A Bases	PCIVs	NUREG(s)- 1433 1434 Only
Action 3.6.3.C	PCIVs	NUREG(s)- 1433 1434 Only
Action 3.6.3.C Bases	PCIVs	NUREG(s)- 1433 1434 Only
Action 3.6.3.E	PCIVs	NUREG(s)- 1433 1434 Only
Action 3.6.3.E Bases	PCIVs	NUREG(s)- 1433 1434 Only

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TSTF-269, Rev. 2

Action	3.6.5.3.A
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Drywell Isolation Valve(s)

NUREG(s)- 1434 Only

Action 3.6.5.3.A Bases Drywell Isolation Valve(s)

NUREG(s)- 1434 Only

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6/27/99

TSTF-269, Rev 2

Insert 1

2. Isolation devices that are locked, sealed, or otherwise secured may be verified by use of administrative means.

Insert 2

Note 2 applies to isolation devices that are locked, sealed, or otherwise secured in position and allows these devices to be verified closed by use of administrative means. Allowing verification by administrative means is considered acceptable, since the function of locking, sealing, or securing components is to ensure that these devices are not inadvertently repositioned.

Insert 3 (WOG, CEOG, BWR4, BWR6)

Required Action E.2 is modified by two Notes. Note 1 applies to isolation devices located in high radiation areas and allows these devices to be verified closed by use of administrative means. Allowing verification by administrative means is considered acceptable, since access to these areas is typically restricted. Note 2 applies to isolation devices that are locked, sealed, or otherwise secured in position and allows these devices to be verified closed by use of administrative means. Allowing verification by administrative means is considered acceptable, since the function of locking, sealing, or securing components is to ensure that these devices are not inadvertently repositioned.

Insert 4 (BWOG)

Required Action D.2 is modified by two Notes. Note 1 applies to isolation devices located in high radiation areas and allows these devices to be verified closed by use of administrative means. Allowing verification by administrative means is considered acceptable, since access to these areas is typically restricted. Note 2 applies to isolation devices that are locked, sealed, or otherwise secured in position and allows these devices to be verified closed by use of administrative means. Allowing verification by administrative means is considered acceptable, since the function of locking, sealing, or securing components is to ensure that these devices are not inadvertently repositioned.

Containment Isolation Valves 3.6.3

TSTF-269, Rev 2-

	CONDITION	REQUIRED ACTION	COMPLETION TIME
Α.	(continued)	A.2 A.2 D Isolation devices in high radiation areas may be verified by use of administrative means. Verify the affected penetration flow path is isolated. INSERT 1	Once per 31 days for isolation devices outside containment <u>AND</u> Prior to entering MODE 4 from MODE 5 if not performed within the previous 92 days for isolation devices inside containment
Β.	Only applicable to penetration flow paths with two containment isolation valves. One or more penetration flow paths with two containment isolation valves inoperable (except for purge valve leakage not within limit).	B.1 Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve, closed manual valve, or blind flange.	1 hour

Containment Isolation Valves 3.6.3

TSTF-269, Rev. Z

ACTIONS (continued)		1511 201,16
CONDITION	REQUIRED ACTION	COMPLETION TIME
CNOTE Only applicable to penetration flow paths with only one containment isolation valve and a closed system.	C.1 Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve, closed manual valve, or blind flange.	[4] hours
One or more penetration flow paths with one containment isolation valve inoperable.	AND C.2 Isolation devices in high radiation areas may be verified by use of administrative means.	
	Verify the affected penetration flow path is isolated.	Once per 31 days
D. One or more penetration flow paths with one or more containment purge valves not within purge valve leakage limits.	D.1 Isolate the affected penetration flow path by use of at least one [closed and de-activated automatic valve, closed manual valve, or blind flange].	24 hours
	AND	(continued)
		(

Containment Isolation Valves 3.6.3

TSTF - 269, Rev 2

CONDITION		REQUIRED ACTION	COMPLETION TIME
D. (continued)		NOTE Isolation devices in high radiation areas may be verified by use of administrative means. Verify the affected penetration flow path is isolated. SEET 1	Once per 31 days for isolation devices outside containment <u>AND</u> Prior to entering MODE 4 from MODE 5 if not performed within the previous 92 days for isolation devices inside containment
	D.3	Perform SR 3.6.3.6 for the resilient seal purge valves closed to comply with Required Action D.1.	Once per [] days
. Required Action and associated Completic Time not met.	en E.1 AND	Be in MODE 3.	6 hours
	E.2	Be in MODE 5.	36 hours

Containment Isolation Valves B 3.6.3

TSTF - 269, Rev. 2

BASES

ACTIONS A.1 and A.2 (continued)

92 days" is based on engineering judgment and is considered reasonable in view of the inaccessibility of the isolation devices and other administrative controls that will ensure that isolation device misalignment is an unlikely possibility.

Condition A has been modified by a Note indicating this Condition is only applicable to those penetration flow paths with two containment isolation valves. For penetration flow paths with only one containment isolation valve and a closed system, Condition C provides appropriate actions. Note 1

Required Action A.2 is modified by A Note that applies to isolation devices located in high radiation areas and allows the devices to be verified by use of administrative means. Allowing verification by administrative means is considered acceptable since access to these areas is typically restricted. Therefore, the probability of misalignment of these devices, once they have been verified to be in the proper position, is small.

<u>B.1</u>

INSERT 2

With two containment isolation valves in one or more penetration flow paths inoperable (except for purge valve leakage not within limit), the affected penetration flow path must be isolated within 1 hour. The method of isolation must include the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a closed and de-activated automatic valve, a closed manual valve, and a blind flange. The 1 hour Completion Time is consistent with the ACTIONS of LCO 3.6.1. In the event the affected penetration is isolated in accordance with Required Action B.1, the affected penetration must be verified to be isolated on a periodic basis per Required Action A.2, which remains in effect. This periodic verification is necessary to assure leak tightness of containment and that penetrations requiring isolation following an accident are isolated. The Completion Time of once per 31 days for verifying each affected penetration flow path is isolated is appropriate considering the fact that the valves are

(continued)

BWOG STS

Containment Isolation Valves B 3.6.3

TSTF-269, Rev. Z

BASES

INSERT 2

ACTIONS <u>C.1 and C.2</u> (continued)

written to specifically address those penetration flow paths in a closed system. Required Action C.2 is modified by a Note that applies to valves and blind flanges located in high radiation areas and allows these devices to be verified by use of administrative means. Allowing verification by administrative means is considered acceptable since access to these areas is typically restricted. Therefore, the probability of misalignment of these devices, once verified to be in the proper position, is small.

D.1, D.2, and D.3

In the event one or more containment purge valves in one or more penetration flow paths are not within the purge valve leakage limits, purge valve leakage must be restored to within limits or the affected penetration flow path must be isolated. The method of isolation must be by the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a [closed and de-activated automatic valve, closed manual valve, and blind flange]. A purge valve with resilient seals utilized to satisfy Required Action D.1 must have been demonstrated to meet the leakage requirements of SR 3.6.3.6. The specified Completion Time is reasonable, considering that one containment purge valve remains closed so that a gross breach of containment does not exist.

In accordance with Required Action D.2, this penetration flow path must be verified to be isolated on a periodic basis. The periodic verification is necessary to ensure that containment penetrations required to be isolated following an accident, which are no longer capable of being automatically isolated, will be in the isolation position should an event occur. This Required Action does not require any testing or valve manipulation. Rather, it involves verification, through a system walkdown, that those isolation devices outside containment and potentially capable of being mispositioned are in the correct position. For the isolation devices inside containment, the time period specified as "prior to entering MODE 4 from MODE 5 if

(continued)

BWOG STS

Containment Isolation Valves B 3.6.3

TSTF-269, Rev. 2

ACTIONS	D.1, D.2, and D.3 (continued)
	not performed within the previous 92 days" is based on engineering judgment and is considered reasonable in view of the inaccessibility of the isolation devices and other administrative controls that will ensure that isolation device misalignment is an unlikely possibility.
	For the containment purge valve with resilient seal that is isolated in accordance with Required Action D.1, SR 3.6.3.6 must be performed at least once every [] days. This provides assurance that degradation of the resilient seal is detected and confirms that the leakage rate of the containment purge valve does not increase during the time the penetration is isolated. The normal Frequency for SR 3.6.3.6, 184 days, is based on an NRC initiative, Generic Issue B-20 (Ref. 7). Since more reliance is placed on a single valve while in this Condition, it is prudent to perform the SR more often. Therefore, a Frequency of once per [] days was chosen and has been shown acceptable based on operating experience.
INSERT 4)	<u>E.1 and E.2</u>
	If the Required Actions and associated Completion Times are not met, the plant must be brought to a MODE in which the LCO does not apply. To achieve this status, the plant must be brought to at least MODE 3 within 6 hours and to MODE 5 within 36 hours. The allowed Completion Times are reasonable, based on operating experience, to reach the required plant conditions from full power conditions in an orderly manner and without challenging plant systems.

SURVEILLANCE REQUIREMENTS

BASES

SR 3.6.3.1

Each [48] inch containment purge valve is required to be verified sealed closed at 31 day intervals. This Surveillance is designed to ensure that a gross breach of containment is not caused by an inadvertent or spurious opening of a containment purge valve. Detailed analysis of the purge valves failed to conclusively demonstrate their ability to close during a LOCA in time to limit offsite doses. Therefore, these valves are required to be in the

Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual) 3.6.3 TSTT-269, Ra Z

	CONDITION	REQUIRED ACTION	COMPLETION TIME
Α.	(continued)	A.2 A.2 () Isolation devices in high radiation areas may be verified by use of administrative means. Verify the affected penetration flow path is isolated. Insert 1	Once per 31 days for isolation devices outside containment <u>AND</u> Prior to entering MODE 4 from MODE 5 if not performed within the previous 92 days for isolation devices inside containment
Β.	Only applicable to penetration flow paths with two containment isolation valves. One or more penetration flow paths with two containment isolation valves inoperable [except for purge valve or shield building bypass leakage not within limit].	B.1 Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve, closed manual valve, or blind flange.	1 hour

(continued)

WOG STS

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Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual) 3.6.3

CONDITION	1	REQUIRED ACTION	COMPLETION TIM	-
	┼			
Only applicable to penetration flow paths with only one containment isolation valve and a closed system.	C.1	Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve, closed manual valve, or blind flange.	[4] hours	
One or more penetration flow paths with one containment isolation valve inoperable.	<u>AND</u> C.2	Isolation devices in high radiation areas may be verified by use of administrative means.		
	Insc	Verify the affected penetration flow path is isolated.	Once per 31 days	-
- Shield building bypass leakage not within limit. -	D.1	Restore leakage within limit.	4 hours	
One or more penetration flow paths with one or more containment purge valves not within purge valve leakage limits.	E.1	Isolate the affected penetration flow path by use of at least one [closed and de-activated automatic valve, closed manual valve, or blind flange].	24 hours	
	<u>and</u>			
		. ((continued)	

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Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual) 3.6.3

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TSTF-269, Rev. 2-

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CONDITION	REQUIRED ACTION	COMPLETION TIME
E. (continued)	E.2 I.JIsolation devices in high radiation areas may be verified by use of administrative means.	
•	Verify the affected penetration flow path is isolated. Insert 1	Once per 31 days for isolation devices outside containment <u>AND</u>
* * *	AND	Prior to entering MODE 4 from MODE 5 if not performed within the previous 92 days for isolation devices inside containment
	E.3 Perform SR 3.6.3.7 for the resilient seal purge valves closed to comply with Required Action E.1.	Once per [92] days
. Required Action and associated Completion Time not met.	F.1 Be in MODE 3. AND	6 hours
	F.2 Be in MODE 5.	36 hours

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Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual) B 3.6.3

(S) (Note 1)

TSTF-269, ilev. 2

BASES

ACTIONS

Insert 2

<u>A.1 and A.2</u> (continued)

Required Action A.2 is modified by a Note that applies to isolation devices located in high radiation areas and allows these devices to be verified closed by use of administrative means. Allowing verification by administrative means is considered acceptable, since access to these areas is typically restricted. Therefore, the probability of misalignment of these devices once they have been verified to be in the proper position, is small.

<u>B.1</u>

With two containment isolation valves in one or more penetration flow paths inoperable, the affected penetration

flow path must be isolated within 1 hour. The method of isolation must include the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a closed and de-activated automatic valve, a closed manual valve, and a blind flange. The 1 hour Completion Time is consistent with the ACTIONS of LCO 3.6.1. In the event the affected penetration is isolated in accordance with Required Action B.1, the affected penetration must be verified to be isolated on a periodic basis per Required Action A.2, which remains in effect. This periodic verification is necessary to assure leak tightness of containment and that penetrations requiring isolation following an accident are isolated. The Completion Time of once per 31 days for verifying each affected penetration flow path is isolated is appropriate considering the fact that the valves are operated under administrative control and the probability of their misalignment is low.

Condition B is modified by a Note indicating this Condition is only applicable to penetration flow paths with two containment isolation valves. Condition A of this LCO addresses the condition of one containment isolation valve inoperable in this type of penetration flow path.

(continued)

WOG STS

Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual) B 3.6.3

TSTF-269, Rev.L

BASES

ACTIONS (continued)

<u>C.1 and C.2</u>

With one or more penetration flow paths with one containment isolation valve inoperable, the inoperable valve flow path must be restored to OPERABLE status or the affected penetration flow path must be isolated. The method of isolation must include the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a closed and de-activated automatic valve, a closed manual valve, and a blind flange. A check valve may not be used to isolate the affected penetration flow path. Required Action C.1 must be completed within the [4] hour Completion Time. The specified time period is reasonable considering the relative stability of the closed system (hence, reliability) to act as a penetration isolation boundary and ... the relative importance of maintaining containment integrity during MODES 1, 2, 3, and 4. In the event the affected penetration flow path is isolated in accordance with Required Action C.1, the affected penetration flow path must be verified to be isolated on a periodic basis. This periodic verification is necessary to assure leak tightness of containment and that containment penetrations requiring isolation following an accident are isolated. The Completion Time of once per 31 days for verifying that each affected penetration flow path is isolated is appropriate because the valves are operated under administrative controls and the probability of their misalignment is low.

Condition C is modified by a Note indicating that this Condition is only applicable to those penetration flow paths with only one containment isolation valve and a closed system. This Note is necessary since this Condition is written to specifically address those penetration flow paths in a closed system

in a closed system. Required Action C.2 is modified by (a) Note (that) applies to valves and blind flanges located in high radiation areas and allows these devices to be verified closed by use of administrative means. Allowing verification by administrative means is considered acceptable, since access to these areas is typically restricted. Therefore, the probability of misalignment of these valves, once they have been verified to be in the proper position, is small.

Insert 2

Containment Isolation Valves (Atmospheric, Subatmospheric, Ice Condenser, and Dual) B 3.6.3

TSTF-269, Rev. 2

ACTIONS

BASES

E.1. E.2. and E.3 (continued)

automatically isolated, will be in the isolation position should an event occur. This Required Action does not require any testing or valve manipulation. Rather, it involves verification, through a system walkdown, that those isolation devices outside containment capable of being mispositioned are in the correct position. For the isolation devices inside containment, the time period specified as "prior to entering MODE 4 from MODE 5 if not performed within the previous 92 days" is based on engineering judgment and is considered reasonable in view of the inaccessibility of the isolation devices and other administrative controls that will ensure that isolation device misalignment is an unlikely possibility.

For the containment purge valve with resilient seal that is isolated in accordance with Required Action E.1, SR 3.6.3.7 must be performed at least once every [92] days. This assures that degradation of the resilient seal is detected and confirms that the leakage rate of the containment purge valve does not increase during the time the penetration is isolated. The normal Frequency for SR 3.6.3.7, 184 days, is based on an NRC initiative, Generic Issue B-20 (Ref. 3). Since more reliance is placed on a single valve while in this Condition, it is prudent to perform the SR more often. Therefore, a Frequency of once per [92] days was chosen and has been shown to be acceptable based on operating experience.

F.1 and F.2

If the Required Actions and associated Completion Times are not met, the plant must be brought to a MODE in which the LCO does not apply. To achieve this status, the plant must be brought to at least MODE 3 within 6 hours and to MODE 5 within 36 hours. The allowed Completion Times are reasonable, based on operating experience, to reach the required plant conditions from full power conditions in an orderly manner and without challenging plant systems.

Rev 1, 04/07/95

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	CONDITION	REQUIRED ACTION	COMPLETION TIME
Α.	(continued)	A.2 A.2 I) Isolation devices in high radiation areas may be verified by use of administrative means. Verify the affected penetration flow path is isolated. INSERT 1	Once per 31 days for isolation devices outside containment <u>AND</u> Prior to entering MODE 4 from MODE 5 if not performed within the previous 92 days for isolation devices inside containment
Β.	Only applicable to penetration flow paths with two containment isolation valves. One or more penetration flow paths with two containment isolation valves inoperable [except for purge valve leakage and shield building bypass leakage not within limit].	B.1 Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve, closed manual valve, or blind flange.	1 hour

(continued)

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ACTIONS (continued)				
CONDITION	REQUIRED ACTION	COMPLETION TIME		
CNOTE Only applicable to penetration flow paths with only one containment isolation valve and a closed system.	C.1 Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve, closed manual valve, or blind flange.	[4] hours		
One or more penetration flow paths with one containment isolation valve inoperable.	AND C.2 I. Isolation devices in high radiation areas may be verified by use of administrative means.			
INSERT 1.	Verify the affected penetration flow path is isolated.	Once per 31 days		
D. Secondary containment bypass leakage not within limit.	D.1 Restore leakage within limit.	4 hours		
E. One or more penetration flow paths with one or more containment purge valves not within purge valve leakage limits.	E.1 Isolate the affected penetration flow path by use of at least one [closed and de-activated automatic valve with resilient seals, closed manual valve with resilient seals, or blind flange].	24 hours		
	AND			
		(continued)		

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CONDITION		REQUIRED ACTION	COMPLETION TIME
E. (continued)	E.2	Isolation devices in high radiation areas may be verified by use of administrative means.	
INSEZI I		Verify the affected penetration flow path is isolated.	Once per 31 days for isolation devices outside containment
			AND
	AND		Prior to entering MODE 4 from MODE 5 if not performed within the previous 92 days for isolation devices inside containment
	E.3	Perform SR 3.6.3.6 for the resilient seal purge valves closed to comply with Required Action E.1.	Once per [] days
F. Required Action and associated Completion Time not met.	F.1 AND	Be in MODE 3.	6 hours
	F.2	Be in MODE 5.	36 hours

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BASES

ACTIONS

<u>A.1 and A.2</u> (continued)

flange, and a check valve with flow through the valve secured. For penetrations isolated in accordance with Required Action A.1, the device used to isolate the penetration should be the closest available one to containment. Required Action A.1 must be completed within the 4 hour Completion Time. The 4 hour Completion Time is reasonable, considering the time required to isolate the penetration and the relative importance of supporting containment OPERABILITY during MODES 1, 2, 3, and 4.

For affected penetration flow paths that cannot be restored to OPERABLE status within the 4 hour Completion Time and that have been isolated in accordance with Required Action A.1, the affected penetration flow paths must be verified to be isolated on a periodic basis. This is necessary to ensure that containment penetrations required to be isolated following an accident and no longer capable of being automatically isolated will be in the isolation position should an event occur. This Required Action does not require any testing or device manipulation. Rather, it involves verification, through a system walkdown, that those isolation devices outside containment and capable of being mispositioned are in the correct position. The Completion Time of "once per 31 days for isolation devices outside containment* is appropriate considering the fact that the devices are operated under administrative controls and the probability of their misalignment is low. For the isolation devices inside containment, the time period specified as "prior to entering MODE 4 from MODE 5 if not performed within the previous 92 days" is based on engineering judgment and is considered reasonable in view of the inaccessibility of the isolation devices and other administrative controls that will ensure that isolation device misalignment is an unlikely possibility.

Condition A has been modified by a Note indicating that this Condition is only applicable to those penetration flow paths with two containment isolation valves. For penetration flow paths with only one containment isolation valve and a closed system, Condition C provides appropriate actions. $+w_0$

Required Action A.2 is modified by a Note that applies to isolation devices located in high radiation areas and allows these devices to be verified closed by use of administrative

(continued)

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BASES

ACTIONS <u>A.1 and A.2</u> (continued)

<u>B.1</u>

INSERT 2

means. Allowing verification by administrative means is considered acceptable, since access to these areas is <u>typically restricted</u>. Therefore, the probability of misalignment of these devices, once they have been verified to be in the proper position, is small.

With two containment isolation valves in one or more penetration flow paths inoperable [except for purge valve leakage and shield building bypass leakage not within limit], the affected penetration flow path must be isolated within 1 hour. The method of isolation must include the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a closed and de-activated automatic valve, a closed manual valve, and a blind flange. The 1 hour Completion Time is consistent with the ACTIONS of LCO 3.6.1. In the event the affected penetration is isolated in accordance with Required Action B.1, the affected penetration must be verified to be isolated on a periodic basis per Required Action A.2, which remains in effect. This periodic verification is necessary to assure leak tightness of containment and that penetrations requiring isolation following an accident are isolated. The Completion Time of once per 31 days for verifying each affected penetration flow path is isolated is appropriate considering the fact that the valves are operated under administrative controls and the probability of their misalignment is low.

Condition B is modified by a Note indicating this Condition is only applicable to penetration flow paths with two containment isolation valves. Condition A of this LCO addresses the condition of one containment isolation valve inoperable in this type of penetration flow path.

<u>C.1 and C.2</u>

With one or more penetration flow paths with one containment isolation valve inoperable, the inoperable valve must be restored to OPERABLE status or the affected penetration flow

(continued)

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BASES

ACTIONS

<u>C.1 and C.2</u> (continued)

path must be isolated. The method of isolation must include the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a closed and de-activated automatic valve, a closed manual valve, and a blind flange. A check valve may not be used to isolate the affected penetration. Required Action C.1 must be completed within the [4] hour Completion Time. The specified time period is reasonable, considering the relative stability of the closed system (hence, reliability) to act as a penetration isolation boundary and the relative importance of supporting containment OPERABILITY during MODES 1, 2, 3, and 4. In the event the affected penetration is isolated in accordance with Required Action C.1, the affected penetration flow path must be verified to be isolated on a periodic basis. This is necessary to assure leak tightness of containment and that containment penetrations requiring isolation following an accident are isolated. The Completion Time of once per 31 days for verifying that each affected penetration flow path is isolated is appropriate considering the valves are operated under administrative controls and the probability of their misalignment is low.

Condition C is modified by a Note indicating that this Condition is only applicable to those penetration flow paths with only one containment isolation valve and a closed system. This Note is necessary since this Condition is written to specifically address those penetration flow paths in a closed system.

Required Action C.2 is modified by Note that applies to valves and blind flanges located in high radiation areas and allows these devices to be verified closed by use of administrative means. Allowing verification by administrative means is considered acceptable, since access to these areas is typically restricted. Therefore, the probability of misalignment of these valves, once they have been verified to be in the proper position, is small.

_ D.1

> With the secondary containment bypass leakage rate not within limit, the assumptions of the safety analysis are not

> > (continued)

CEOG STS

INSERT 2

TSTF-269, Ra. 2

ACTIONS

BASES

<u>E.1. E.2. and E.3</u> (continued)

isolation devices outside containment capable of being mispositioned are in the correct position. For the isolation devices inside containment, the time period specified as "prior to entering MODE 4 from MODE 5 if not performed within the previous 92 days" is based on engineering judgment and is considered reasonable in view of the inaccessibility of the isolation devices and other administrative controls that will ensure that isolation device misalignment is an unlikely possibility.

For the containment purge valve with resilient seal that is isolated in accordance with Required Action E.1, SR 3.6.3.6 must be performed at least once every [92] days. This assures that degradation of the resilient seal is detected and confirms that the leakage rate of the containment purge valve does not increase during the time the penetration is isolated. The normal Frequency for SR 3.6.3.6, 184 days, is based on an NRC initiative, Generic Issue B-20 (Ref. 3). Since more reliance is placed on a single valve while in this Condition, it is prudent to perform the SR more often. Therefore, a Frequency of once per [92] days was chosen and has been shown to be acceptable based on operating experience.

F.1 and F.2

If the Required Actions and associated Completion Times are not met, the plant must be brought to a MODE in which the LCO does not apply. To achieve this status, the plant must be brought to at least MODE 3 within 6 hours and to MODE 5 within 36 hours. The allowed Completion Times are reasonable, based on operating experience, to reach the required plant conditions from full power conditions in an orderly manner and without challenging plant systems.

SURVEILLANCE REQUIREMENTS

INSERT 3 }

<u>SR 3.6.3.1</u>

Each [42] inch containment purge valve is required to be verified sealed closed at 31 day intervals. This Surveillance is designed to ensure that a gross breach of containment is not caused by an inadvertent or spurious

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CONDITION	REQUIRED ACTION	COMPLETION TIME
A. (continued)	A.2 Insolation devices in high radiation areas may be verified by use of administrative means. Verify the affected penetration flow path is isolated. INSERT 1	Once per 31 days for isolation devices outside primary containment <u>AND</u> Prior to entering MODE 2 or 3 from MODE 4, if primary containment was de-inerted while in MODE 4, if not performed within the previous 92 days, for isolation devices inside primary containment

(continued)

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ACTIONS (continued)				
CONDITION	REQUIRED ACTION	COMPLETION TIME		
 BNOTE Only applicable to penetration flow paths with two PCIVs. One or more penetration flow paths with two PCIVs inoperable [except for purge valve leakage not within limit]. 	B.1 Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve, closed manual valve, or blind flange.	1 hour		
CNOTE Only applicable to penetration flow paths with only one PCIV. One or more penetration flow paths with one PCIV inoperable.	C.1 Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve, closed manual valve, or blind flange. AND C.2	<pre>[4] hours except for excess flow check valves (EFCVs) <u>AND</u> 12 hours [for EFCVs]</pre>		
	Verify the affected penetration flow path is isolated.	Once per 31 days		
D. Secondary containment bypass leakage rate not within limit.	D.1 Restore leakage rate to within limit.	4 hours		

(continued)

BWR/4 STS

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ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME
E. One or more penetration flow paths with one or more containment purge valves not within purge valve.leakage limits.	E.1 Isolate the affected penetration flow path by use of at least one [closed and de-activated automatic valve, closed manual valve, or blind flange].	24 hours
	AND E.2 Isolation devices in high radiation areas may be verified by use of administrative means.	
	Verify the affected penetration flow path is isolated.	Once per 31 days for isolation devices outside containment
	INSERT 1	AND Prior to entering MODE 2 or 3 from MODE 2 or 3 from MODE 4 if not performed within the previous 92 days for isolation devices inside containment
	AND	 (continued)

SCIVs 3.6.4.2

TSTF-269 Rav 2

CTIONS		1311-209,1
CONDITION	REQUIRED ACTION	COMPLETION TIME
A. (continued)	A.2 A.2 A.2 A.2 A.2 A.2 A.2 A.2	
(Insert I)	Verify the affected penetration flow path is isolated.	Once per 31 days
BNOTENOTENOTENOTENOTENOTENOTENOTE	penetration flow path	4 hours
One or more penetration flow path with two SCIVs inoperable.	closed manual valve, or blind flange.	
C. Required Action and associated Completion Time of Condition A or B not met in	C.1 Be in MODE 3. AND	12 hours
MODE 1, 2, or 3.	C.2 Be in MODE 4.	36 hours

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TSTF-269, Ray 2

ACTIONS

BASES

<u>A.1 and A.2</u> (continued)

the device used to isolate the penetration should be the closest available valve to the primary containment. The Required Action must be completed within the 4 hour Completion Time (8 hours for main steam lines). The Completion Time of 4 hours is reasonable considering the time required to isolate the penetration and the relative importance of supporting primary containment OPERABILITY during MODES 1, 2, and 3. For main steam lines, an 8 hour Completion Time is allowed. The Completion Time of 8 hours for the main steam lines allows a period of time to restore the MSIVs to OPERABLE status given the fact that MSIV closure will result in isolation of the main steam line(s) and a potential for plant shutdown.

For affected penetrations that have been isolated in accordance with Required Action A.1, the affected penetration flow path(s) must be verified to be isolated on a periodic basis. This is necessary to ensure that primary containment penetrations required to be isolated following an accident, and no longer capable of being automatically isolated, will be in the isolation position should an event occur. This Required Action does not require any testing or device manipulation. Rather, it involves verification that those devices outside containment and capable of potentially being mispositioned are in the correct position. The Completion Time of "once per 31 days for isolation devices outside primary containment" is appropriate because the devices are operated under administrative controls and the probability of their misalignment is low. For the devices inside primary containment, the time period specified "prior to entering MODE 2 or 3 from MODE 4, if primary containment was de-inerted while in MODE 4, if not performed within the previous 92 days" is based on engineering judgment and is considered reasonable in view of the inaccessibility of the devices and other administrative controls ensuring that device misalignment is an unlikely possibility.

Condition A is modified by a Note indicating that this Condition is only applicable to those penetration flow paths with two PCIVs. For penetration flow paths with one PCIV, Condition C provides the appropriate Required Actions. Two S. Note 1 Required Action A.2 is modified by a Note that applies to isolation devices located in high radiation areas, and

(continued)

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BASES

INSERT 2

ACTIONS <u>A.1_and A.2</u> (continued)

allows them to be verified by use of administrative means. Allowing verification by administrative means is considered acceptable, since access to these areas is typically <u>restricted.</u> Therefore, the probability of misalignment of these devices, once they have been verified to be in the proper position, is low.

<u>B.1</u>

With one or more penetration flow paths with two PCIVs inoperable, either the inoperable PCIVs must be restored to OPERABLE status or the affected penetration flow path must be isolated within 1 hour. The method of isolation must include the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a closed and de-activated automatic valve, a closed manual valve, and a blind flange. The 1 hour Completion Time is consistent with the ACTIONS of LCO 3.6.1.1.

Condition B is modified by a Note indicating this Condition is only applicable to penetration flow paths with two PCIVs. For penetration flow paths with one PCIV, Condition C provides the appropriate Required Actions.

<u>C.1 and C.2</u>

With one or more penetration flow paths with one PCIV inoperable, the inoperable valve must be restored to OPERABLE status or the affected penetration flow path must be isolated. The method of isolation must include the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a closed and de-activated automatic valve, a closed manual valve, and a blind flange. A check valve may not be used to isolate the affected penetration. Required Action C.1 must be completed within the [4] hour Completion Time. The Completion Time of [4] hours is reasonable considering the relative stability of the closed system (hence, reliability) to act as a penetration isolation boundary and the relative importance of supporting primary containment OPERABILITY during

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BASES

ACTIONS

<u>C.1_and_C.2</u> (continued)

MODES 1, 2, and 3. The Completion Time of 12 hours is reasonable considering the instrument and the small pipe diameter of penetration (hence, reliability) to act as a penetration isolation boundary and the small pipe diameter of the affected penetrations. In the event the affected penetration flow path is isolated in accordance with Required Action C.1, the affected penetration must be verified to be isolated on a periodic basis. This is necessary to ensure that primary containment penetrations required to be isolated following an accident are isolated. The Completion Time of once per 31 days for verifying each affected penetration is isolated is appropriate because the valves are operated under administrative controls and the probability of their misalignment is low.

Condition C is modified by a Note indicating that this Condition is only applicable to penetration flow paths with only one PCIV. For penetration flow paths with two PCIVs, Conditions A and B provide the appropriate Required Actions. Hwo So Note that applies to valves and blind flanges located in high radiation areas and allows them to be verified by use of administrative means. Allowing verification by administrative means is considered acceptable, since access to these areas is typically restricted. Therefore, the probability of misalignment of these valves, once they have been verified to be in the

proper position, is low.

<u>D.1</u>

INSERT 2

With the secondary containment bypass leakage rate or MSIV leakage rate not within limit, the assumptions of the safety analysis may not be met. Therefore, the leakage must be restored to within limit within 4 hours. Restoration can be accomplished by isolating the penetration that caused the limit to be exceeded by use of one closed and de-activated automatic valve, closed manual valve, or blind flange. When a penetration is isolated, the leakage rate for the isolated penetration is assumed to be the actual pathway leakage through the isolation device. If two isolation devices are used to isolate the penetration, the leakage rate is assumed

(continued)

BWR/4 STS

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BAS	ES
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ACTIONS

$\overline{E.1, E.2, and E.3}$ (continued)

For the containment purge valve with resilient seal that is isolated in accordance with Required Action E.1, SR 3.6.1.3.7 must be performed at least once every [] days. This provides assurance that degradation of the resilient seal is detected and confirms that the leakage rate of the containment purge valve does not increase during the time the penetration is isolated. The normal Frequency for SR 3.6.1.3.7 is 184 days. Since more reliance is placed on a single valve while in this Condition, it is prudent to perform the SR more often. Therefore, a Frequency of once per [] days was chosen and has been shown to be acceptable based on operating experience.

INSERT 3

F.1 and F.2

If any Required Action and associated Completion Time cannot be met in MODE 1, 2, or 3, the plant must be brought to a MODE in which the LCO does not apply. To achieve this status, the plant must be brought to at least MODE 3 within 12 hours and to MODE 4 within 36 hours. The allowed Completion Times are reasonable, based on operating experience, to reach the required plant conditions from full power conditions in an orderly manner and without challenging plant systems.

G.1, H.1, I.1, and I.2

If any Required Action and associated Completion Time cannot be met, the unit must be placed in a condition in which the LCO does not apply. If applicable, CORE ALTERATIONS and movement of irradiated fuel assemblies must be immediately suspended. Suspension of these activities shall not preclude completion of movement of a component to a safe condition. Also, if applicable, action must be immediately initiated to suspend operations with a potential for draining the reactor vessel (OPDRVs) to minimize the probability of a vessel draindown and subsequent potential for fission product release. Actions must continue until OPDRVs are suspended and valve(s) are restored to OPERABLE status. If suspending an OPDRV would result in closing the residual heat removal (RHR) shutdown cooling isolation valves, an alternative Required Action is provided to

(continued)

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SCIVS B 3.6.4.2 TSTF-269, Ren 2

<u>A.1_and A.2</u> (continued)

isolate the penetration, and the probability of a DBA, which requires the SCIVs to close, occurring during this short time is very low.

For affected penetrations that have been isolated in accordance with Required Action A.1, the affected penetration must be verified to be isolated on a periodic basis. This is necessary to ensure that [secondary] containment penetrations required to be isolated following an accident, but no longer capable of being automatically isolated, will be in the isolation position should an event occur. The Completion Time of once per 31 days is appropriate because the valves are operated under administrative controls and the probability of their misalignment is low. This Required Action does not require any testing or device manipulation. Rather, it involves verification that the affected penetration remains isolated. Required Action A.2 is modified by Whote that applies to devices located in high radiation areas and allows them to be verified closed by use of administrative controls. Allowing verification by administrative controls is considered acceptable, since access to these areas is typically restricted. Therefore, the probability of misalignment, once they have been verified to be in the proper position, is low.

Insert 2

<u>B.1</u>

With two SCIVs in one or more penetration flow paths inoperable, the affected penetration flow path must be isolated within 4 hours. The method of isolation must include the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a closed and de-activated automatic valve, a closed manual valve, and a blind flange. The 4 hour Completion Time is reasonable considering the time required to isolate the penetration and the probability of a DBA, which requires the SCIVs to close, occurring during this short time, is very low.

The Condition has been modified by a Note stating that Condition B is only applicable to penetration flow paths

(continued)

BASES

ACTIONS

CONDITION	REQUIRED ACTION	COMPLETION TIME
A. (continued)	A.2 I. Fisolation devices in high radiation areas may be verified by use of administrative means.	
	Verify the affected penetration flow path is isolated.	Once per 31 days for isolation devices outside primary containment, drywell, and steam tunnel
		AND
	-	Prior to entering MODE 2 or 3 from MODE 4, if not performed within the previous 92 days, for isolation devices inside primary containment, drywell, or steam tunnel

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ACTIONS (continued)		151F-269, Rev.
CONDITION	REQUIRED ACTION	COMPLETION TIME
 BNOTE Only applicable to penetration flow paths with two PCIVs. One or more penetration flow paths with two PCIVs inoperable [except for purge valve leakage not within limit]. 	B.1 Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve, closed manual valve, or blind flange.	l hour
CNOTE Only applicable to penetration flow paths with only one PCIV. One or more penetration flow paths with one PCIV inoperable.	 C.1 Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve, closed manual valve, or blind flange. AND C.2 NOTE C.2 NOTE S and the second second	[4] hours Once per 31 days
D. Secondary containment bypass leakage rate not within limit.	D.1 Restore leakage rate to within limit.	4 hours

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(continued)

BWR/6 STS

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ACTIONS (continued)		TSTF-269, P
CONDITION	REQUIRED ACTION	COMPLETION TIME
E. One or more penetration flow paths with one or more containment purge valves not within purge valve leakage limits.	E.1 Isolate the affected penetration flow path by use of at least one [closed and de-activated automatic valve, closed manual valve, or blind flange].	24 hours
	AND E.2 Isolation devices in high radiation areas may be verified by use of administrative means.	
	Verify the affected penetration flow path is isolated.	Once per 31 days for isolation devices outside containment
	INSERT	AND Prior to entering MODE 2 or 3 from MODE 4 if not performed within the previous 92 days for isolation devices inside containment
	AND E.3 Perform SR 3.6.1.3.6 for the resilient seal purge valves closed to comply with Required Action E.1.	Once per [92] days

SCIVS 3.6.4.2 TSTF-269, Rev. 2

	CONDITION	REQUIRED ACTION	COMPLETION TIME
Α.	(continued)	A.2 A.2 A.2 A.2 A.2 A.2 Isolation devices in high radiation areas may be verified by use of administrative means.	
	(Insert 1)	Verify the affected penetration flow path is isolated.	Once per 31 days
On pe wi	NOTE Only applicable to penetration flow paths with two isolation valves.	B.1 Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve,	4 hours
	One or more penetration flow paths with two SCIVs inoperable.	closed manual valve, or blind flange.	
с.	Required Action and associated Completion Time of Condition A	C.1 Be in MODE 3.	12 hours
	or B not met in MODE 1, 2, or 3.	AND C.2 Be in MODE 4.	.36 hours

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Drywell Isolation Valve[s] 3.6.5.3

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	CONDITION		REQUIRED ACTION	COMPLETION TIME
Α.	(continued) [NSERT 1]	A.2 {	 NOTE Isolation devices in high radiation areas may be verified by use of administrative means. Verify the affected penetration flow path is isolated. 	Prior to entering MODE 2 or 3 from MODE 4, if not performed within the previous 92 days
Β.	Only applicable to penetration flow paths with two isolation valves. One or more penetration flow paths with two drywell isolation valves inoperable.	B.1	Isolate the affected penetration flow path by use of at least one closed and de-activated automatic valve, closed manual valve, blind flange, or check valve with flow through the valve secured.	4 hours -
с.	Required Action and associated Completion Time not met.	C.1 <u>AND</u>	Be in MODE 3.	12 hours
		C.2	Be in MODE 4.	36 hours

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BASES

ACTIONS

<u>A.1 and A.2</u> (continued)

an accident, and no longer capable of being automatically isolated, will be in the isolation position should an event occur. This Required Action does not require any testing or device manipulation. Rather, it involves verification that those devices outside the primary containment, drywell, and steam tunnel and capable of being mispositioned are in the correct position. The Completion Time for this verification of "once per 31 days for isolation devices outside primary containment, drywell, and steam tunnel," is appropriate because the devices are operated under administrative controls and the probability of their misalignment is low. For devices inside the primary containment, drywell, or steam tunnel, the specified time period of "prior to entering MODE 2 or 3 from MODE 4, if not performed within the previous 92 days," is based on engineering judgment and is considered reasonable in view of the inaccessibility of the devices and the existence of other administrative controls ensuring that device misalignment is an unlikely possibility.

Condition A is modified by a Note indicating that this Condition is only applicable to those penetration flow paths with two PCIVs. For penetration flow paths with one PCIV, Condition C provides appropriate Required Actions. Hwo Required Action A.2 is modified by ANote that applies to isolation devices located in high radiation areas and allows them to be verified by use of administrative means. Allowing verification by administrative means is considered acceptable, since access to these areas is typically restricted. Therefore, the probability of misalignment of these devices, once they have been verified to be in the proper position, is low.



<u>B.1</u>

With one or more penetration flow paths with two PCIVs inoperable, either the inoperable PCIVs must be restored to OPERABLE status or the affected penetration flow path must be isolated within 1 hour. The method of isolation must include the use of at least one isolation barrier that cannot be adversely affected by a single active failure.

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BASES

INSERT 2

ACTIONS <u>C.1 and C.2</u> (continued)

<u>D.1</u>

specifically to address those penetrations with a single PCIV. (+wo) (S_{\cdot}) (Note 1)

Required Action C.2 is modified by a Note that applies to valves and blind flanges located in high radiation areas and allows them to be verified by use of administrative means. Allowing verification by administrative means is considered acceptable, since access to these areas is typically restricted. Therefore, the probability of misalignment of these valves, once they have been verified to be in the proper position, is low.

With the secondary containment bypass leakage rate, not within limit, the assumptions of the safety analysis are not. Therefore, the leakage must be restored to within met. limit within 4 hours. Restoration can be accomplished by isolating the penetration that caused the limit to be exceeded by use of one closed and de-activated automatic valve, closed manual valve, or blind flange. When a penetration is isolated, the leakage rate for the isolation penetration is assumed to be the actual pathway leakage through the isolation device. If two isolation devices are used to isolate the penetration, the leakage rate is assumed to be the lesser actual pathway leakage of the two devices. The 4 hour Completion Time is reasonable considering the time required to restore the leakage by isolating the penetration and the relative importance of secondary containment bypass leakage to the overall containment function.

E.1, E.2, and E.3

In the event one or more containment purge valves are not within the purge valve leakage limits, purge valve leakage must be restored to within limits or the affected penetration must be isolated. The method of isolation must be by the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a [closed and

ACTIONS	E.1, E.2, and E.3 (continued)
	de-activated automatic valve, closed manual valve, and blind flange]. If a purge valve with resilient seals is utilized to satisfy Required Action E.1 it must have been demonstrated to meet the leakage requirements of SR 3.6.1.3.6. The specified Completion Time is reasonable, considering that one containment purge valve remains closed so that a gross breach of containment does not exist.
	In accordance with Required Action E.2, this penetration flow path must be verified to be isolated on a periodic basis. The periodic verification is necessary to ensure that containment penetrations required to be isolated following an accident, which are no longer capable of being automatically isolated, will be in the isolation position should an event occur. This Required Action does not require any testing or valve manipulation. Rather, it involves verification that those isolation devices outside containment and potentially capable of being mispositioned are in the correct position. For the isolation devices inside containment, the time period specified as "prior to entering MODE 2 or 3 from MODE 4 if not performed within the previous 92 days" is based on engineering judgment and is considered reasonable in view of the inaccessibility of the isolation devices and other administrative controls that will ensure that isolation device misalignment is an unlikely possibility.
	For the containment purge valve with resilient seal that is isolated in accordance with Required Action E.1, SR 3.6.1.3.6 must be performed at least once every [] days. This provides assurance that degradation of the resilient seal is detected and confirms that the leakage rate of the containment purge valve does not increase during the time the penetration is isolated. The normal Frequency for SR 3.6.1.3.6 is 184 days. Since more reliance is placed on a single valve while in this Condition, it is prudent to perform the SR more often. Therefore, a Frequency of once per [] days was chosen and has been shown acceptable based on operating experience.
INSERT 3	

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BASES

SCIVS B 3.6.4.2 TS TF-267 Rev 2

ACTIONS A.1 and

<u>A.1 and A.2</u> (continued)

secondary containment. This Required Action must be completed within the 8 hour Completion Time. The specified time period is reasonable considering the time required to isolate the penetration and the low probability of a DBA, which requires the SCIVs to close, occurring during this short time.

For affected penetrations that have been isolated in accordance with Required Action A.1, the affected penetration must be verified to be isolated on a periodic basis. This is necessary to ensure that secondary containment penetrations required to be isolated following an accident, but no longer capable of being automatically isolated, will be in the isolation position should an event occur. This Required Action does not require any testing or device manipulation. Rather, it involves verification that the affected penetration remains isolated. Note(1)

Required Action A.2 is modified by a Note that applies to devices located in high radiation areas and allows them to be verified by use of administrative controls. Allowing verification by administrative controls is considered acceptable, since access to these areas is typically restricted... Therefore, the probability of misalignment, once they have been verified to be in the proper position, is low.

<u>B.1</u>

Insert 2

With two SCIVs in one or more penetration flow paths inoperable, the affected penetration flow path must be isolated within 4 hours. The method of isolation must include the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a closed and de-activated automatic valve, a closed manual valve, and a blind flange. The 4 hour Completion Time is reasonable, considering the time required to isolate the penetration and the low probability of a DBA, which requires the SCIVs to close, occurring during this short time.

The Condition has been modified by a Note stating that Condition B is only applicable to penetration flow paths

(continued)

BASES

Drywell Isolation Valve[s] B 3.6.5.3

TSTF-269 REV 2

BASES

ACTIONS

INSERT 2

<u>A.1_and_A.2</u> (continued)

being mispositioned are in the correct position. Since these devices are inside primary containment, the time period specified as "prior to entering MODE 2 or 3 from MODE 4, if not performed within the previous 92 days," is based on engineering judgment and is considered reasonable in view of the inaccessibility of the devices and other administrative controls that will ensure that device misalignment is an unlikely possibility. Also, this Completion Time is consistent with the Completion Time specified for PCIVs in LCO 3.6.1.3, "Primary Containment Isolation Valves (PCIVs)."

Required Action A.2 is modified by Note that applies to isolation devices located in high radiation areas and allows them to be verified by use of administrative controls. Allowing verification by administrative controls is considered acceptable, since access to these areas is typically restricted. Therefore, the probability of misalignment once they have been verified to be in the proper position, is low.

<u>B.1</u>

With one or more penetration flow paths with two drywell isolation valves inoperable, the affected penetration flow path must be isolated. The method of isolation must include the use of at least one isolation barrier that cannot be adversely affected by a single active failure. Isolation barriers that meet this criterion are a closed and de-activated automatic valve, a closed manual valve, a blind flange, and a check valve with flow through the valve secured. The 4 hour Completion Time is acceptable, since the drywell design bypass leakage A/\sqrt{K} of [1.0] ft² is maintained due to application of ACTIONS Note 4. The Completion Time is reasonable, considering the time required to isolate the penetration, and the probability of a DBA, which requires the drywell isolation valves to close, occurring during this short time is very low.

Condition B is modified by a Note indicating this Condition is only applicable to penetration flow paths with two isolation valves. For penetration flow paths with one

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BWR/6 STS



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