

## CONTAINMENT SYSTEMS

### 3/4.6.3 CONTAINMENT ISOLATION VALVES

#### LIMITING CONDITION FOR OPERATION

3.6.3.1 The containment isolation valves specified in Table 3.6-1 shall be OPERABLE with isolation times as shown in Table 3.6-1.

APPLICABILITY: MODES 1, 2, 3 and 4.

#### ACTION:

With one or more of the isolation valve(s) specified in Table 3.6-1 inoperable, either:

- a. Restore the inoperable valve(s) to OPERABLE status within 4 hours, or
- b. Isolate each affected penetration within 4 hours by use of at least one deactivated automatic valve secured in the isolation position, or
- c. Isolate each affected penetration within 4 hours by use of at least one closed manual valve or blind flange, or
- d. Be in at least HOT STANDBY within the next 6 hours and in COLD SHUTDOWN within the following 30 hours.
- e. The provisions of Specification 3.0.4 are not applicable to those valves in Table 3.6-1 annotated by asterisks.

#### SURVEILLANCE REQUIREMENTS

4.6.3.1.1 The isolation valves specified in Table 3.6-1 shall be demonstrated OPERABLE prior to returning the valve to service after maintenance, repair or replacement work is performed on the valve or its associated actuator, control or power circuit by performance of a cycling test and verification of isolation time.

TABLE 3.6-1  
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME</u> (seconds)
A. CONTAINMENT ISOLATION		
1. BSV-27 check #	closed dur. nor. operation and open dur. RB spray	NA
BSV-3 #	"	60
BSV-26 check #	"	NA
BSV-4 #	"	60
2. CAV-126(A)*	iso. CA sys. fr. RC letdn.	60
CAV-1 (A)*	iso. CA sys. fr. pzt.	60
CAV-3 (A)*	"	60
CAV-2 (B)*	iso. CA sys. fr. RB	60
CAV-4 # (A)*	isolate liquid sampling system	60
CAV-6 # (B)*	"	60
CAV-5 # (A)*	"	60
CAV-7 # (B)*	"	60
3. CFV-20 check	iso. N <sub>2</sub> supply fr. CFT-1A	NA
CFV-28 (A/B)*	"	60
CFV-18 check	iso. MU system fr. CFT-1B	NA
CFV-26 (A/B)*	"	60
CFV-19 check	iso. MU system fro. CFT-1A	NA
CFV-25 (A/B)*	"	60
CFV-42 (B)*	iso. liquid sampling fr. CF system	60
CFV-15 (A)*	iso. WD sys. fr. CF tanks	60
CFV-16 (A)*	"	60
CFV-20 (B)*	"	60
CFV-11 (A)*	iso. CF tanks fr. liquid sampling system	60
CFV-12 (A)*	"	60

TABLE 3.6-1 (Continued)  
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME</u> (seconds)
4. CIV-41*	iso. CI sys. fr. RB	60
CIV-40*	"	60
CIV-34*	"	60
CIV-35*	"	60
5. DHV-93 check	iso. DH system fr. pzz.	NA
DHV-91	"	60
DHV-43 #	iso. DH sys. fr. RB sump	120
DHV-42 #	"	120
DHV-4# & 41#	iso. DH sys. fr. RC	120
DHV-6 #	iso. DH system from Reactor Vessel	60
DHV-5 #	"	60
6. DWV-162 check	iso. DW system fr. RB	NA
DWV-160 (A/E)	"	60
7. FWV-44 check #	iso. feedwater from RCSG-1A	NA
FWV-45 check #	"	NA
FWV-43 check #	iso. feedwater from RCSG-1B	NA
FWV-45 check #	"	NA
8. MSV-130 #(A/B)*	iso. MDT-1 from RCSG-1A	60
MSV-148 #(A/B)*	iso. MDT-1 from RCSG-1B	60
MSV-411 #	iso. main steam lines from RCSG-1A	60
MSV-412 #	iso. main steam lines from RCSG-1A	60
MSV-413 #	iso. main steam lines from RCSG-1B	60
MSV-414 #	iso. main steam lines from RCSG-1B	60

TABLE 3.6-1 (Continued)  
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME</u> (seconds)
9. MUV-40 (A)*	iso. MU system from RC	60
MUV-41 (A)*	"	60
MUV-49 (B)	"	60
MUV-253	"	60
MUV-261	iso. MU system from control bleed-off	60
MUV-260	"	60
MUV-259	"	60
MUV-258	"	60
MUV-163 check #	open during HPI and closed dur. nor. operation	NA
MUV-25 #	"	60
MUV-164 check #	"	NA
MUV-26 #	"	60
MUV-160 check #	"	NA
MUV-23 #	"	60
MUV-161 check #	"	NA
MUV-24 #	"	60
MUV-27 #	open dur. nor. operation and closed during RB Isolation	60
10. SWV-39 #	iso. NSCCC from AHF-1C	60
SWV-45 #	"	60
SWV-35 #	iso. NSCCC from AHF-1A	60
SWV-41 #	"	60
SWV-37 #	iso. NSCCC from AHF-1B	60
SWV-43 #	"	60
SWV-48 #*	isolate NSCCC from MUHE-1A & 1B and WDT-5	60
SWV-47 #*	"	60
SWV-49 #*	"	60
SWV-50 #*	"	60
SWV-80 #	iso. NSCCC from RCP-1A	60
SWV-84 #	"	60
SWV-82 #	iso. NSCCC from RCP-1C	60
SWV-86 #	"	60

TABLE 3.6-1 (Continued)

CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME</u> (seconds)
SWV-81 #	iso. NSCCC from RCP-1D	60
SWV-85 #	"	50
SWV-79 #	iso. NSCCC from RCP-1B	60
SWV-83 #	"	60
SWV-109 #	iso. NSCCC from DRRD-1	60
SWV-110 #	"	60
11. WDV-4 (B)*	iso. WDT-4 from RB sump	60
WDV-3 (A)*	"	60
WDV-60 (A)*	iso. WDT-4 from WDT-5	60
WDV-61 (B)*	"	60
WDV-94 (A)*	iso. WDT-4 from WDP-8	60
WDV-62 (B)*	"	60
WDV-406 (A)*	iso. waste gas disposal from vents in RC system	60
WDV-405 (B)*	"	60
12. WSV-3	iso. containment monitoring system from RB	60
WSV-4	"	60
WSV-5	"	60
WSV-6	"	60
B. CONTAINMENT PURGE AND EXHAUST		
1. AHV-1C (A)	iso. pur. sup. system fr. RB	60
AHV-1D (B)	"	60
AHV-1B (A)	iso. pur. exhaust system fr. RB	60
AHV-1A (B)	"	60
C. MANUAL		
1. IAV-28	iso. IA from RB	NA
IAV-29	"	NA
2. LRV-50	iso. leak rate test system from RB	NA
LRV-36	"	NA

TABLE 3.6-1 (Continued)  
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME</u> (seconds)
LRV-51	iso. atmos. vent and RB	NA
LRV-35 & 47	purge exhaust system from RB	NA
LRV-49	iso. atmos. vent from RB	NA
LRV-38 & 52	"	NA
LRV-45	iso. LR test panel from RB	NA
LRV-44	"	NA
LRV-46	"	NA
3. MSV-146#	iso. misc. waste storage tank from RCSG-1B	NA
4. NGV-62	iso. NG system from steam generators	NA
NGV-31 #	"	NA
NGV-32	iso. NG system from pzz.	NA
5. SAV-24	iso. SA from RB	NA
SAV-23 & 122	"	NA
6. SFV-18	iso. SF system	NA
SFV-19	"	NA
SFV-119 #	iso. Fuel Transfer tubes from F.T. Canal	NA
SFV-120 #	"	NA
7. WSV-1	iso. containment monitoring system from RB	NA
WSV-2	"	NA
D. PENETRATIONS REQUIRING TYPE B TESTS		
Blind Flange 119	iso. RB	NA
Blind Flange 120	"	NA
Blind Flange 202	"	NA

TABLE 3.6-1 (Continued)  
CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME</u> (seconds)
Blind Flange 348	iso. fuel transfer tube from Transfer Canal	NA
Blind Flange 436	"	NA
Equipment Hatch	iso. RB	NA
Personnel Hatch	iso. RB	NA

# Not subject to Type C Leakage Test

\* The provisions of Specification 3.0.4 are not applicable.

- (A) Isolates on Diverse Isolation Actuation Signal A
- (B) Isolates on Diverse Isolation Actuation Signal B
- (A/B) Isolates on Diverse Isolation Actuation Signal A or B