

TABLE 3.3.2-1 (Continued)

ISOLATION ACTUATION INSTRUMENTATION

ACTION STATEMENTS

ACTION 20	Be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours.
ACTION 21	Be in at least STARTUP with the associated isolation valves closed within 6 hours or be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours.
ACTION 22	Be in at least STARTUP within 6 hours.
ACTION 23	Close the affected system isolation valves within 1 hour and declare the affected system inoperable.
ACTION 24	Restore the manual initiation function to OPERABLE status within 8 hours or close the affected system isolation valves within the next hour and declare the affected system inoperable or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
ACTION 25	Establish SECONDARY CONTAINMENT INTEGRITY with the standby gas treatment system operating within 1 hour.
ACTION 26	Lock the affected system isolation valves closed within 1 hour and declare the affected system inoperable.

NOTES

- \* When handling irradiated fuel in the secondary containment and during CORE ALTERATIONS and operations with a potential for draining the reactor vessel.
- \*\* Actuates dampers shown in Table 3.6.5.2-1.
- \*\*\* When VENTING or PURGING the drywell per Specification 3.11.2.8.
- # When handling irradiated fuel in the secondary containment and during CORE ALTERATIONS and operations with the potential for draining the reactor vessel. Single control rod movement ~~and/or testing~~, except for the purpose of SDM demonstration (TS 3.10.3), is excluded.
- ## When handling irradiated fuel within the Railroad Access Shaft, and above the Railroad Access Shaft with the Railroad Access Shaft Equipment Hatch open.
- (a) See Specification 3.6.3, Table 3.6.3-1 for valves which are actuated by these isolation signals.
- (b) A channel may be placed in an inoperable status for up to 2 hours for required surveillance without placing the channel or trip system in the tripped condition provided at least one other OPERABLE channel in the same trip system is monitoring that parameter. In addition, for the HPCI system and RCIC system isolation, provided that the redundant isolation valve, inboard or outboard, as applicable, in each line is OPERABLE and all required actuation instrumentation for that valve is OPERABLE, one channel may be placed in an inoperable status for up to 8 hours for required surveillance without placing the channel or trip system in the tripped condition.

TABLE 4.3.2.1-1 (Continued)				
ISOLATION ACTUATION INSTRUMENTATION SURVEILLANCE REQUIREMENTS				
TRIP FUNCTION	CHANNEL CHECK	CHANNEL FUNCTIONAL TEST	CHANNEL CALIBRATION	OPERATIONAL CONDITIONS FOR WHICH SURVEILLANCE REQUIRED
<b>HIGH PRESSURE COOLANT INJECTION SYSTEM ISOLATION</b> (continued)				
d. HPCI Equipment Room Temperature - High	NA	M	Q	1,2,3
e. HPCI Equipment Room $\Delta$ Temperature - High	NA	M	Q	1,2,3
f. HPCI Emergency Area Cooler Temperature - High	NA	M	Q	1,2,3
g. HPCI Pipe Routing Area Temperature - High	NA	M	Q	1,2,3
h. HPCI Pipe Routing Area $\Delta$ Temperature - High	NA	M	Q	1,2,3
i. Manual Initiation	NA	R	NA	1,2,3
j. Drywell Pressure - High	NA	M	R	1,2,3
<b>7. RHR SYSTEM SHUTDOWN COOLING/HEAD SPRAY MODE ISOLATION</b>				
a. Reactor Vessel Water Level - Low, Level 3	S	M	R	1,2,3
b. Reactor Vessel (RHR Cut-in Permissive) Pressure - High	NA	M	Q	1,2,3
c. RHR Flow - High	S	M	R	1,2,3
d. Manual Initiation	NA	R	NA	1,2,3
e. Drywell Pressure - High	NA	M	R	1,2,3
<p>* When handling irradiated fuel in the secondary containment and during CORE ALTERATIONS and operations with a potential for draining the reactor vessel.</p> <p>** When reactor steam dome pressure &gt; 1043 psig and/or any turbine stop valve is open.</p> <p>*** When VENTING or PURGING the drywell per Specification 3.11.2.8.</p> <p># When handling irradiated fuel in the secondary containment and during CORE ALTERATIONS and operations with the potential for draining the reactor vessel. Single control rod movement, <del>and/or testing</del>, except for the purpose of SDM demonstration (TS 3.10.3), is excluded.</p> <p>## When handling irradiated fuel within the Railroad Access Shaft, and above the Railroad Access Shaft with the Railroad Access Shaft Equipment Hatch open.</p>				



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10-10-10

TABLE 3.3.2-1 (Continued)

ISOLATION ACTUATION INSTRUMENTATION

ACTION STATEMENTS

ACTION 20	Be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours.
ACTION 21	Be in at least STARTUP with the associated isolation valves closed within 6 hours or be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours.
ACTION 22	Be in at least STARTUP within 6 hours.
ACTION 23	Close the affected system isolation valves within 1 hour and declare the affected system inoperable.
ACTION 24	Restore the manual initiation function to OPERABLE status within 8 hours or close the affected system isolation valves within the next hour and declare the affected system inoperable or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
ACTION 25	Establish SECONDARY CONTAINMENT INTEGRITY with the standby gas treatment system operating within 1 hour.
ACTION 26	Lock the affected system isolation valves closed within 1 hour and declare the affected system inoperable.

NOTES

- \* When handling irradiated fuel in the secondary containment and during CORE ALTERATIONS and operations with a potential for draining the reactor vessel.
- \*\* Actuates dampers shown in Table 3.6.5.2-1.
- \*\*\* When VENTING or PURGING the drywell per Specification 3.11.2.8.
- # When handling irradiated fuel in the secondary containment and during CORE ALTERATIONS and operations with the potential for draining the reactor vessel. Single control rod movement ~~and/or testing~~, except for the purpose of SDM demonstration (TS 3.10.3), is excluded.
- ## When handling irradiated fuel within the Railroad Access Shaft, and above the Railroad Access Shaft with the Railroad Access Shaft Equipment Hatch open.
- (a) See Specification 3.6.3, Table 3.6.3-1 for valves which are actuated by these isolation signals.
- (b) A channel may be placed in an inoperable status for up to 2 hours for required surveillance without placing the channel or trip system in the tripped condition provided at least one other OPERABLE channel in the same trip system is monitoring that parameter. In addition, for the HPCI system and RCIC system isolation, provided that the redundant isolation valve, inboard or outboard, as applicable, in each line is OPERABLE and all required actuation instrumentation for that valve is OPERABLE, one channel may be placed in an inoperable status for up to 8 hours for required surveillance without placing the channel or trip system in the tripped condition.

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f. HPCI Emergency Area Cooler Temperature - High	NA	M	Q	1,2,3
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i. Manual Initiation	NA	R	NA	1,2,3
j. Drywell Pressure - High	NA	M	R	1,2,3
<b>7. RHR SYSTEM SHUTDOWN COOLING/HEAD SPRAY MODE ISOLATION</b>				
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b. Reactor Vessel (RHR Cut-in Permissive) Pressure - High	NA	M	Q	1,2,3
c. RHR Flow - High	S	M	R	1,2,3
d. Manual Initiation	NA	R	NA	1,2,3
e. Drywell Pressure - High	NA	M	R	1,2,3
<p>* When handling irradiated fuel in the secondary containment and during CORE ALTERATIONS and operations with a potential for draining the reactor vessel.</p> <p>** When any turbine stop valve is open.</p> <p>*** When VENTING or PURGING the drywell per Specification 3.11.2.8.</p> <p># When handling irradiated fuel in the secondary containment and during CORE ALTERATIONS and operations with the potential for draining the reactor vessel. Single control rod movement and/or testing, except for the purpose of SDM demonstration (TS 3.10.3), is excluded.</p> <p>## When handling irradiated fuel within the Railroad Access Shaft, and above the Railroad Access Shaft with the Railroad Access Shaft Equipment Hatch open.</p>				