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VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

June 29, 1979

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Serial No. 274B/041479
PO/NOS: jh
Docket Nos. 50-338
50-339
License Nos. NPF-4
CPPR-78

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U.S. NUCLEAR REGULATORY COMMISSION
ATLANTA, GA

Subject: IE Bulletin 79-06A Revision 1
North Anna Power Station Unit Nos. 1 and 2

Dear Mr. O'Reilly:

Our letter of April 26, 1979, (Serial No. 274/041479), provided responses to items 1 through 13 of IE Bulletin 79-06A, "Review of Operational Errors and System Misalignments Identified During the Three Mile Island Incident." This letter provides additional information on bulletin items 2, 3, 4, 7d, 8, 9, 10, 11, and 12 as requested by your staff.

Item 2 The primary operator action required to prevent the formation of voids continues to be to insure the proper initiation and continuing performance of the engineered safety features equipment. Abnormal procedure AP-44, "Loss of Reactor Coolant System Pressure", was written to provide specific operator actions for this type of transient.

Emergency procedures have been revised to provide guidance for insuring forced flow by verifying margin to saturation conditions and by observing reactor coolant pump amps, loop flow indications and loop delta T's. These procedures include specific precautions regarding maintenance of at least 50°F subcooling in the primary system.

Item 3 The pressurizer level bistables which input to safety injection initiation are placed in the trip mode by an Abnormal Procedure (AP). Trip status lights on the control board confirm that the action has been completed. Operating procedures will be revised by July 1, 1979 to include a verification that these bistables are in the trip mode prior to placing the unit in operation.

Item 4 Containment isolation occurs automatically upon initiation of safety injection. Containment isolation also occurs manually from operator action. Technical Specifications Table 3-6-1 is attached. This table lists valves that receive a Containment Isolation signal, and describes the function of each valve.

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Item 7d Specific parameters are:

1. Decreasing pressurizer pressure but not necessarily a decreasing pressurizer level.
2. Increasing pressurizer relief tank pressure, level, temperature, and pressurizer relief line high temperature.
3. Automatic Action.
 - a. Pressurizer backup heaters on
 - b. PORV Isolation
 - c. Reactor trip from Low Pressurizer Pressure (above P-7)
 - d. Turbine Trip from Reactor Trip (above P-7)
 - e. Safety Injection

The applicable procedures have been revised.

We are participating, with other utilities, in a Westinghouse users group effort to review and improve all emergency and abnormal procedures based on lessons learned from the TMI incident. We will continue to revise and improve our procedures as part of this effort.

Item 8 The review as required by Bulletin item 8 was conducted by reviewing valve positions concurrently with those procedures that check or manipulate those valves. Thus, we believe we have performed the requested review.

Additionally, North Anna Technical Specifications already contain requirements to check valve position for valves not locked, sealed or otherwise maintained in position. We do not believe the periodic surveillance of locked valves will significantly enhance valve alignment verification. Furthermore, many of our valves are locked because of inaccessibility.

Item 9 A review of Technical Specification Table 3.6-1 will provide the missing information to make our response complete.

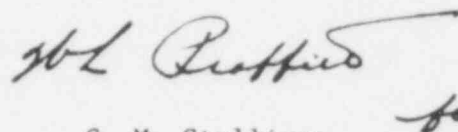
Item 10 As stated in our response, the Shift Supervisor is the authority level for removing and returning equipment for service.

An example of equipment made inoperable for testing is the periodic testing of pumps. The test flow path is a recirculation path. Consequently, the normal discharge path is isolated. We do not believe this constitutes a significant problem and consider our initially proposed resolution to be acceptable. Our proposed resolution did require revision to appropriate procedures and they have been revised to implement our proposal.

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Item 12 A preliminary review of Hydrogen Recombiner operation after a LOCA will be conducted with an anticipated completion date of July 31, 1979 and a scheduled completion date for final review of August 31, 1979. We are required by Technical Specifications to maintain the hydrogen removal equipment operable. Revisions to operating procedures for removal of hydrogen will be completed by August 31, 1979.

Very truly yours,



C. M. Stallings
Vice President Power Supply
and Production Operations

cc: NRC Office of Inspection and Enforcement
Division of Reactor Operations Inspection
Washington, D.C. 20555

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TABLE 3.6-1

CONTAINMENT ISOLATION VALVES

<u>VALVE NUMBER</u>		<u>FUNCTION</u>	<u>ISOLATION TIME (SEC.)</u>
A. PHASE "A" ISOLATION			
1.	MOV-1380	Reactor Coolant Pump Seal Water Return	10
2.	MOV-1381	Reactor Coolant Pump Seal Water Return	10
3.	HCV-1200A	Reactor Coolant Letdown Line	10
4.	HCV-1200B	Reactor Coolant Letdown Line	10
5.	HCV-1200C	Reactor Coolant Letdown Line	10
6.	TV-1204	Reactor Coolant Letdown Line	10
7.	TV-SI100	Nitrogen to Pressurizer Relief Tank and SI Accumulators	60
8.	TV-DG100A	Primary Drain Transfer Tank Pump Discharge	60
9.	TV-DG100B	Primary Drain Transfer Tank Pump Discharge	60
10.	TV-DA100A	Containment Sump Pump Discharge to Waste Drain Tanks	60
11.	TV-DA100B	Containment Sump Pump Discharge to Waste Drain Tanks	60
12.	TV-BD100A	Steam Generator Blowdown	60
13.	TV-BD100B	Steam Generator Blowdown	60
14.	TV-BD100C	Steam Generator Blowdown	60
15.	TV-BD100D	Steam Generator Blowdown	60
16.	TV-BD100E	Steam Generator Blowdown	60
17.	TV-BD100F	Steam Generator Blowdown	60

VALVE
NUMBER

G. STEAM LINE ISOLATION

1. JV-MS-101A#

2. TV-MS-101B#

3. TV-MS-101C#

FUNCTION

Main Steam Line Trip Valve

Main Steam Line Trip Valve

Main Steam Line Trip Valve

ISOLATION TIME
(SEC.)

5

5

5

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TABLE 3.6.-1 (Cont.)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME (SEC.)</u>
H. RELIEF		
J. RV-1203	Letdown Line Relief Valve	NA

Valve not subject to Type "C" leakage test.

* Valve position maintained by administrative control

NA - Not applicable

** Weight loaded check valve

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TABLE 3.6-1 (Cont.)

VALVE NUMBER	FUNCTION	ISOLATION TIME (SEC.)
30. 1-QS-11**	Quench Spray Pump Discharge	NA
31. 1-RS-27**	Recirculation Spray Pump Discharge	NA
32. 1-RS-18**	Recirculation Spray Pump Discharge	NA
33. 1-VP-12	Air Ejector Vent	NA
34. 1-SI-90	High Head Safety Injection to RCS Except Boron Injection Line	NA
35. 1-SI-201	High Head Safety Injection to RCS Except Boron Injection Line	NA
36. 1-SI-85	High Head Safety Injection to RCS Except Boron Injection Line	NA
37. 1-FW-47#	Feedwater to Steam Generators	NA
38. 1-FW-111#	Feedwater to Steam Generators	NA
39. 1-FW-79#	Feedwater to Steam Generators	NA
40. 1-WT-50#	Chemical Feed Lines	NA
41. 1-WT-66#	Chemical Feed Lines	NA
42. 1-WT-38#	Chemical Feed Lines	NA
43. 1-FW-68#	Auxiliary Feedwater to Steam Generator	NA
44. 1-FW-100#	Auxiliary Feedwater to Steam Generator	NA
45. 1-FW-132#	Auxiliary Feedwater to Steam Generator	NA

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TABLE 3.6-1 (Cont.)

VALVE NUMBER	FUNCTION	ISOLATION TIME (SEC.)
14. 1-HC-18	Discharge From Containment Atmosphere Clean-up System (Hydrogen Recombiner)	NA
15. 1-HC-14	Discharge From Containment Atmosphere Clean-up System (Hydrogen Recombiner)	NA
16. 1-CH-380#	Reactor Coolant Pump Seal Water Supply	NA
17. 1-CH-336#	Reactor Coolant Pump Seal Water Supply	NA
18. 1-CH-358#	Reactor Coolant Pump Seal Water Supply	NA
19. 1-IA-149	Air Radiation Monitor Return	NA
20. 1-RC-149	Primary Grade Water to Pressurizer Relief Tank	NA
21. 1-CH-330	Loop Fill Header	NA
22. 1-IA-55	Instrument Air Line	NA
23. 1-SI-106	Nitrogen to Pressurizer Relief Tank and SI Accumulators	NA
24. 1-SI-206	LHSI Pump Discharge to Reactor Coolant System Hot Legs	NA
25. 1-SI-207	LHSI Pump Discharge to Reactor Coolant System Hot Legs	NA
26. 1-SI-195	LHSI Pump Discharge to Reactor Coolant System Cold Legs	NA
27. 1-SI-197	LHSI Pump Discharge to Reactor Coolant System Cold Legs	NA
28. 1-SI-199	LHSI Pump Discharge to Reactor Coolant System Cold Legs	NA
29. 1-QS-19**	Quench Spray Pump Discharge	NA

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TABLE 3.6-1 (Cont.)

VALVE NUMBER		FUNCTION	ISOLATION TIME (SEC.)
F.	CHECK		
1.	1-CC-193	Component Cooling Water to RHR System and Excess Letdown Heat Exchanger	NA
2.	1-CC-198	Component Cooling Water to RHR System and Excess Letdown Heat Exchanger	NA
3.	1-SI-79	High Head Safety Injection, Boron Injection to RCS	NA
4.	1-CC-572	Component Cooling Water to Containment Air Recircu- lation Coils	NA
5.	1-CC-559	Component Cooling Water to Containment Air Recircu- lation Coils	NA
6.	1-CC-546	Component Cooling Water to Containment Air Recircu- lation Coils	NA
7.	1-CH-322	Charging Line	NA
8.	1-CC-154	Component Cooling Water to Reactor Coolant Pumps	NA
9.	1-CC-119	Component Cooling Water to Reactor Coolant Pumps	NA
10.	1-CC-84	Component Cooling Water to Reactor Coolant Pumps	NA
11.	1-CH-402	Reactor Coolant Pumps, Seal Water Return	NA
12.	1-SI-110	Safety Injection Accumulator Make Up	NA
13.	1-SI-185	High Head Safety Injection to RCS except Boron Injection Line	NA

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TABLE 3.6-1 (Cont.)

TABLE 3.6-1 (Cont.)

VALVE NUMBER	FUNCTION	ISOLATION TIME (SEC.)
17. TV-CV100*	Containment Air Ejector Suction	NA
18. MOV-1869A*	High Head Safety Injection to RCS Except Boron Injection Line	NA
19. MOV-1836*	High Head Safety Injection to RCS Except Boron Injection Line	NA
20. MOV-1869B*	High Head Safety Injection to RCS Except Boron Injection Line	NA
21. HCV-1142*	Reactor Coolant Letdown Line From RHR System	NA
22. TV-SS107A*	Residual Heat Removal System Sample Lines	NA
23. TV-SS107B*	Residual Heat Removal System Sample Lines	NA
24. MOV-1890A*	LHSI Pump Discharge to Reactor Coolant System Hot Legs	NA
25. MOV-1890B*	LHSI Pump Discharge to Reactor Coolant System Hot Legs	NA
26. MOV-1890C*	LHSI Pump Discharge to Reactor Coolant System Cold Legs	NA
27. MOV-1890D*	LHSI Pump Discharge to Reactor Coolant System Cold Legs	NA
28. FCV-1160*	Loop Fill Header	NA
29. MOV-1289A*	Charging Line	NA
30. MOV-1867C*	High Head Safety Injection, Boron Injection Tank	NA
31. MOV-1867D*	High Head Safety Injection, Boron Injection Tank	NA

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VALVE
NUMBERFUNCTIONISOLATION TIME
(SEC.)

32. MOV-RS-100A*	Casing Cooling to Outside Recirculation Spray Pump	NA
33. MOV-RS-100B*	Casing Cooling to Outside Recirculation Spray Pump	NA
34. MOV-RS-101A*	Casing Cooling to Outside Recirculation Spray Pump	NA
35. MOV-RS-101B*	Casing Cooling to Outside Recirculation Spray Pump	NA

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TABLE 3.6-1 (Cont.)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME (SEC.)</u>
17. TV-CV100*	Containment Air Ejector Suction	NA
18. MOV-1869A*	High Head Safety Injection to RCS Except Boron Injection Line	NA
19. MOV-1836*	High Head Safety Injection to RCS Except Boron Injection Line	NA
20. MOV-1869B*	High Head Safety Injection to RCS Except Boron Injection Line	NA
21. HCV-1142*	Reactor Coolant Letdown Line From RHR System	NA
22. TV-SS107A*	Residual Heat Removal System Sample Lines	NA
23. TV-SS107B*	Residual Heat Removal System Sample Lines	NA
24. MOV-1890A*	LHSI Pump Discharge to Reactor Coolant System Hot Legs	NA
25. MOV-1890B*	LHSI Pump Discharge to Reactor Coolant System Hot Legs	NA
26. MOV-1890C*	LHSI Pump Discharge to Reactor Coolant System Cold Legs	NA
27. MOV-1890D*	LHSI Pump Discharge to Reactor Coolant System Cold Legs	NA
28. FCV-1160*	Loop Fill Header	NA
29. MOV-1289A*	Charging Line	NA
30. MOV-1867C*	High Head Safety Injection, Boron Injection Tank	NA
31. MOV-1867D*	High Head Safety Injection, Boron Injection Tank	NA

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TABLE 3.6-1 (Cont.)

VALVE NUMBER	FUNCTION	ISOLATION TIME (SEC.)
E. REMOTE MANUAL		
1. MOV-QS1J1A*	Quench Spray Pump Discharge	NA
2. MOV-QS101B*	Quench Spray Pump Discharge	NA
3. MOV-RS155A#*	Recirc. Spray Pump Suction	NA
4. MOV-RS155B#*	Recirc. Spray Pump Suction	NA
5. MOV-1860A#*	LHS1 Pump Suction From Containment Sump	NA
6. MOV-1860B#*	LHS1 Pump Suction From Containment Sump	NA
7. MOV-RS156A*	Recirculation Spray Pump Discharge	NA
8. MOV-RS156B*	Recirculation Spray Pump Discharge	NA
9. MOV-SW103A*	Service Water to Recirculation Spray Coolers	NA
10. MOV-SW103B*	Service Water to Recirculation Spray Coolers	NA
11. MOV-SW103C*	Service Water to Recirculation Spray Coolers	NA
12. MOV-SW103D*	Service Water to Recirculation Spray Coolers	NA
13. MOV-SW104A*	Service Water to Recirculation Spray Coolers	NA
14. MOV-SW104B*	Service Water to Recirculation Spray Coolers	NA
15. MOV-SW104C*	Service Water to Recirculation Spray Coolers	NA
16. MOV-SW104D*	Service Water to Recirculation Spray Coolers	NA

TABLE 3.6-1 (Cont.)

VALVE NUMBER	FUNCTION	ISOLATION TIME (SEC.)
12. 1-CII-314#*	Reactor Coolant Pump Seal Water Supply	NA
13. 1-SA-57*	Service Air	NA
14. 1-SA-58*	Service Air	NA
15. 1-IA-54*	Instrument Air	NA
16. NA	Fuel Transfer (Tube Penetration #65)	NA
17. 1-CV-4*	Ejector Suction	NA
18. 1-RC-176*	Dead Weight Pressure Calibrator	NA
19. 1-RC-178*	Dead Weight Pressure Calibrator	NA
20. 1-RP-25*	Refueling Purification Inlet	NA
21. 1-RP-28*	Refueling Purification Inlet	NA
22. 1-RP-6*	Refueling Purification Inlet	NA
23. 1-RP-8*	Refueling Purification Inlet	NA
24. 1-WT-354#*	Chemical Feed Lines	NA
25. 1-WT-357#*	Chemical Feed Lines	NA
26. 1-WT-351#*	Chemical Feed Lines	NA

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TABLE 3.6-1 (Cont.)

<u>VALVE NUMBER</u>		<u>FUNCTION</u>	<u>ISOLATION TIME (SEC.)</u>
D. MANUAL			
1.	1-SI-58*	Safety Injection Accumulator Make Up	NA
2.	1-RH-36*	Residual Heat Removal System to Refueling Water Storage Tank	NA
3.	1-RH-37*	Residual Heat Removal System to Refueling Water Storage Tank	NA
4.	1-HC-12*	Discharge From Atmosphere Clean-up System (Hydrogen Recombiner)	NA
5.	1-HC-31*	Discharge From Atmosphere Clean-up System (Hydrogen Recombiner)	NA
6.	1-HC-16*	Discharge From Atmosphere Clean-up System (Hydrogen Recombiner)	NA
7.	1-HC-28*	Discharge From Atmosphere Clean-up System (Hydrogen Recombiner)	NA
8.	1-DA-39*	Primary Vent Pot Vent	NA
9.	1-DA-41*	Primary Vent Pot Vent	NA
10.	1-CH-310#*	Reactor Coolant Pump Seal Water Supply	NA
11.	1-CH-318#*	Reactor Coolant Pump Seal Water Supply	NA

TABLE 3.6-1 (Cont.)

VALVE NUMBER	FUNCTION	ISOLATION TIME (SEC.)
C. CONTAINMENT PURGE AND EXHAUST (VENTILATION DUCTS)		
1. MOV-HV100A*	Purge Supply	N.A.
2. MOV-HV100B*	Purge Supply	N.A.
3. MOV-HV102*	Alternate Supply	N.A.
4. MOV-HV100C*	Purge Exhaust	N.A.
5. MOV-HV100D*	Purge Exhaust	N.A.
6. MOV-HV101*	Bypass	N.A.

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TABLE 3.6-1 (Cont.)

VALVE NUMBER	FUNCTION	ISOLATION TIME (SEC.)
12. TV-CC104B	Reactor Coolant Pumps, Cooling Water In	60
13. TV-CC104C	Reactor Coolant Pumps, Cooling Water In	60
14. TV-CC102A	Reactor Coolant Pumps, Bearing and Shroud, Cooling Water Out	60
15. TV-CC102B	Reactor Coolant Pumps, Bearing and Shroud, Cooling Water Out	60
16. TV-CC102C	Reactor Coolant Pumps, Bearing and Shroud, Cooling Water Out	60
17. TV-CC102D	Reactor Coolant Pumps, Bearing and Shroud, Cooling Water Out	60
18. TV-CC102E	Reactor Coolant Pumps, Cooling Water Out	60
19. TV-CC102F	Reactor Coolant Pumps, Cooling Water Out	60
20. TV-BD100A	Steam Generator Blowdown	60
21. TV-BD100B	Steam Generator Blowdown	60
22. TV-BD100C	Steam Generator Blowdown	60
23. TV-BD100D	Steam Generator Blowdown	60
24. TV-BD100E	Steam Generator Blowdown	60
25. TV-BD100F	Steam Generator Blowdown	60

TABLE 3.6-1 (Cont.)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME (SEC.)</u>
B. PHASE "B" ISOLATION		
1. TV-CC103A	Component Cooling Water From RHR System and Excess Letdown Heat Exchanger	60
2. TV-CC103B	Component Cooling Water From RHR System and Excess Letdown Heat Exchanger	60
3. TV-CC101A	Reactor Coolant Pump Thermal Barrier Cooling Water Return	60
4. TV-CC101B	Reactor Coolant Pump Thermal Barrier Cooling Water Return	60
5. TV-CC100A	Component Cooling Water From Containment Air Recirculation Coils	60
6. TV-CC100B	Component Cooling Water from Containment Air Recirculation Coils	60
7. TV-CC100C	Component Cooling Water from Containment Air Recirculation Coils	60
8. TV-CC105A	Component Cooling Water from Containment Air Recirculation Coils	60
9. TV-CC105B	Component Cooling Water from Containment Air Recirculation Coils	60
10. TV-CC105C	Component Cooling Water from Containment Air Recirculation Coils	60
11. TV-CC104A	Reactor Coolant Pumps, Cooling Water In	60

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TABLE 3.6.-1 (Cont.)

VALVE NUMBER	FUNCTION	ISOLATION TIME (SEC.)
48. TV-CV150B	Containment Vacuum Pump Suction	60
49. TV-CV150C	Containment Vacuum Pump Suction	60
50. TV-CV150D	Containment Vacuum Pump Suction	60
51. TV-SS103	Residual Heat Removal System Sample Lines	60
52. TV-LM101A	Reactor Containment Leakage Monitoring Lines to Reference System	60
53. TV-LM101B	Reactor Containment Leakage Monitoring Lines to Reference System	60
54. TV-LM101C	Reactor Containment Leakage Monitoring Lines to Reference System	60
55. TV-LM101D	Reactor Containment Leakage Monitoring Lines to Reference System	60
56. TV-1859	Safety Injection Test Line	10
57. TV-1842	Safety Injection Test Line	10
58. TV-SS112A	Steam Generator Surface Sample Monitoring Lines	60
59. TV-SS112B	Steam Generator Surface Sample	60
60. TV-MS109#	Main Steam Drains to Condenser	60
61. TV-MS110#	Main Steam to Blowdown	60
62. TV-SV102-2	Condenser Air Ejector Vent	60
63. FCV-AS100A#	Condenser Air Ejector Steam Supply	60
64. FCV-AS100B#	Condenser Air Ejector Steam Supply	60

TABLE 3.6.-1 (Cont.)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME (SEC.)</u>
35. TV-LM100A	Reactor Containment Leakage Monitoring Lines to Open Pressure Taps	60
36. TV-LM100B	Reactor Containment Leakage Monitoring Lines to Open Pressure Taps	60
37. TV-LM100C	Reactor Containment Leakage Monitoring Lines to Open Pressure Taps	60
38. TV-LM100D	Reactor Containment Leakage Monitoring Lines to Open Pressure Taps	60
39. TV-LM100E	Reactor Containment Leakage Monitoring Lines to Open Pressure Taps	60
40. TV-LM100F	Reactor Containment Leakage Monitoring Lines to Open Pressure Taps	60
41. TV-LM100G	Reactor Containment Leakage Monitoring Lines to Open Pressure Taps	60
42. TV-LM100H	Reactor Containment Leakage Monitoring Lines to Open Pressure Taps	60
43. TV-SS101A	Pressurizer Vapor Space Sample	60
44. TV-SS101B	Pressurizer Vapor Space Sample	60
45. TV-SV102-1	Condenser Air Ejector Vent	60
46. TV-SV103	Condenser Air Ejector Vent	60
47. TV-CV150A	Containment Vacuum Pump Suction	60

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NORTH ANNA-UNIT 1

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TABLE 3.6-1 (Cont.)

<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME (SEC.)</u>
18. TV-RM100A	Air Radiation Monitor Return	60
19. TV-RM100D	Air Radiation Monitor Return	60
20. TV-RM100B	Air Radiation Monitor Supply	60
21. TV-RM100C	Air Radiation Monitor Supply	60
22. TV-1519A	Primary Grade Water to Pressurizer Relief Tank	10
23. TV-VG100A	Primary Vent Header	60
24. TV-VG100B	Primary Vent Header	60
25. TV-SI101	Safety Injection Accumulators to Waste Gas Charcoal Filters	60
26. HCV-1936	Safety Injection Accumulators to Waste Gas Charcoal Filters	10
27. TV-SS104A	Pressurizer Relief Tank Sample	60
28. TV-SS104B	Pressurizer Relief Tank Sample	60
29. TV-SS100A	Pressurizer Liquid Space Sample	60
30. TV-SS100B	Pressurizer Liquid Space Sample	60
31. TV-SS106A	Primary Coolant Hot Leg Sample	60
32. TV-SS106B	Primary Coolant Hot Leg Sample	60
33. TV-SS102A	Primary Coolant Cold Leg Sample	60
34. TV-SS102B	Primary Coolant Cold Leg Sample	60