

4.17 SHOCK SUPPRESSORS (SNUBBERS)

Applicability

Applies to all hydraulic and mechanical shock suppressors (snubbers) which are required to protect the reactor coolant system and safety related systems.

Objective

To specify the minimum frequency and type of surveillance to be applied to the hydraulic and mechanical snubbers in Tables 4.17-1 (Unit 1) and 4.17-2 (Unit 2).

Specification

Each snubber shall be demonstrated operable by performance of the following augmented inservice inspection program and the requirements of Specification 4.0.

A. Visual Inspections

1. The first inservice visual inspection of snubbers shall be performed after four months but within 10 months of commencing power operation and shall include all snubbers listed in Tables 4.17-1 and 4.17-2. If less than two (2) snubbers are found inoperable during the first inservice visual inspection, the second inservice visual inspection shall be performed 12 months \pm 25% from the date of the first inspection. Otherwise, subsequent visual inspections shall be performed in accordance with the following schedule:

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<u>No. Inoperable Snubbers per Inspection Period</u>	<u>Subsequent Visual Inspection Period*</u>
0	18 months \pm 25%
1	12 months \pm 25%
2	6 months \pm 25%
3,4	124 days \pm 25%
5,6,7	62 days \pm 25%
8 or more	31 days \pm 25%

2. The snubbers may be categorized into two groups: Those accessible and those inaccessible during reactor operation. Each group may be inspected independently in accordance with the above schedule.

B. Visual Inspection Acceptance Criteria

1. Visual inspections shall verify:
 - a. That there are no visible indications of damage or impaired operability,
 - b. Attachments to the foundation or supporting structure are secure, and
 - c. In those locations where snubber movement can be manually induced without disconnecting the snubber, that the snubber has freedom of movement and is not frozen up.

* The inspection interval shall not be lengthened more than one step at a time.

2. Snubbers which appear inoperable as a result of visual inspections may be determined operable for the purpose of establishing the next visual inspection interval, providing that the cause of the rejection is clearly established and remedied for that particular snubber and for other snubbers that may be generically susceptible and the affected snubber is functionally tested in the as found condition and determined operable per Specification 4.17-D or 4.17-E, as applicable.
3. When the fluid port of a hydraulic snubber is found to be uncovered, the snubber shall be determined inoperable and cannot be determined operable via functional testing for the purpose of establishing the next visual inspection interval. All snubbers connected to an inoperable common hydraulic fluid reservoir shall be counted as inoperable snubbers.

C. Functional Tests

1. At least once per 18 months during shutdown, a representative sample of 10% of the total of each type of snubber used in the plant shall be functionally tested either in place or in a bench test.
2. For each snubber that does not meet the functional acceptance criteria of Specifications 4.17-D or 4.17-E, an additional 10% of that type of snubber shall be functionally tested.
3. The representative sample selected for functional testing shall include the various configurations, operating environments and the range of size and capacity of snubbers.

4. At least 25% of the snubbers in the representative sample shall include snubbers from the following three categories:
 - a. The first snubber away from each reactor vessel nozzle
 - b. Snubbers within 5 feet of heavy equipment (valve, pump, turbine, motor, etc.)
 - c. Snubbers within 10 feet of the discharge from a safety relief valve.
5. Snubbers identified in Tables 4.17-1 and 4.17-2 as "Especially Difficult to Remove" or in "High Radiation Zones During Shutdown" shall also be included in the representative sample.*
6. In addition to the regular sample, snubbers which failed the previous functional test shall be retested during the next test period. If a spare snubber has been installed in place of a failed snubber, then both the failed snubber (if it is repaired and installed in another position) and the spare snubber shall be retested. Test results of these snubbers may not be included for the re-sampling.
7. Snubbers of rated capacity greater than 50,000 lb. need not be functionally tested.

*Permanent or other exemptions from functional testing for individual snubbers in these categories may be granted by the Commission only if a justifiable basis for exemption is presented and/or snubber life destructive testing was performed to qualify snubber operability for all design conditions at either the completion of their fabrication or at subsequent date.

8. If any snubber selected for functional testing either fails to lockup or fails to move, i.e., frozen in place, the cause will be evaluated and if caused by manufacturer or design deficiency all snubbers of the same design subject to the same defect shall be functionally tested. This testing requirement shall be independent of the requirements stated above for snubbers not meeting the functional test acceptance criteria.
9. For the snubber(s) found inoperable, an engineering evaluation shall be performed on the components which are supported by snubber(s). The purpose of this engineering evaluation shall be to determine if the components supported by the snubber(s) were adversely affected by the inoperability of the snubber(s) in order to ensure that the supported component remains capable of meeting the designed service.

D. Hydraulic Snubbers Functional Test Acceptance Criteria

1. The hydraulic snubber functional test shall verify that:
 - a. Activity (restraining action) is achieved within the specified range of velocity or acceleration in both tension and compression.
 - b. Snubber bleed, or release rate, where required, is within the specified range in compression and tension. For snubbers specifically required to not displace under continuous load, the ability of the snubber to withstand load without displacement shall be verified.

E. Mechanical Snubbers Functional Test Acceptance Criteria

1. The mechanical snubbers functional test shall verify that:
 - a. The force that initiates free movement of the snubber rod in either tension or compression is less than the specified maximum drag force. Drag force shall not have increased more than 50% since the last functional test.
 - b. Activity (restraining action) is achieved within the specified range of velocity in both tension and compression.
 - c. Snubber release rate, where required, is within the specified range in compression and tension. For snubbers specifically required not to displace under continuous load, the ability of the snubber to withstand load without displacement shall be verified.

F. Snubber Service Life Monitoring

1. A record of the service life of each snubber, the date at which the designated service life commences and the installation and maintenance records on which the designated service life is based shall be maintained as required by Specification 6.5.B.9.
2. Concurrent with the first inservice visual inspection and at least once per 18 months thereafter, the installation and maintenance records for each snubber listed in Tables 4.17-1 and 4.17-2 shall be reviewed to verify that the indicated service life has not been exceeded or will not be exceeded prior to the next scheduled snubber service life review. If the indicated service life will be

exceeded prior to the next scheduled snubber service life review, the snubber service life shall be reevaluated or the snubber shall be replaced or reconditioned so as to extend its service life beyond the date of the next scheduled service life review. This reevaluation, replacement or reconditioning shall be indicated in the records.

Bases

All snubbers are required operable to ensure that the structural integrity of the reactor coolant system and all other safety-related systems is maintained during and following a seismic or other event initiating dynamic loads. Snubbers excluded from this inspection program are those installed on nonsafety-related systems and then only if their failure or failure of the system on which they are installed would have no adverse effect on any safety-related system.

The visual inspection frequency is based upon maintaining a constant level of snubber protection to systems. Therefore, the required inspection interval varies inversely with the observed snubber failures and is determined by the number of inoperable snubbers found during an inspection. Inspections performed before that interval has elapsed may be used as a new reference point to determine the next inspection. However, the results of such early inspections performed before the original required time interval has elapsed (nominal time less 25%) may not be used to lengthen the required inspection interval. Any inspection whose results require a shorter inspection interval will override the previous schedule.

When the cause of the rejection of a snubber is clearly established and remedied for that snubber and for any other snubbers that may be generically susceptible, and verified by inservice functional testing, that snubber may be exempted from being counted as inoperable. Generically susceptible snubbers are those which are of a specific make or model and have the same design features directly related to rejection of the snubber by visual inspection, or are similarly located or exposed to the same environmental conditions such as temperature, radiation, and vibration.

When a snubber is found inoperable, an engineering evaluation is performed, in addition to the determination of the snubber mode of failure, in order to determine if any safety-related component or system has been adversely affected by the inoperability of the snubber. The engineering evaluation shall determine whether or not the snubber mode of failure has imparted a significant effect or degradation on the supported component or system.

To provide assurance of snubber functional reliability, a representative sample of the installed snubbers will be functionally tested during plant shutdowns at 18 month intervals. Functional testing is to be in accordance with ASME Section XI 1980ed. Subsection IWF. Observed failures of these sample snubbers shall require functional testing of additional units.

Hydraulic snubbers and mechanical snubbers may each be treated as a different entity for the above surveillance programs.

The service life of a snubber is evaluated via manufacturer input and information through consideration of the snubber service conditions and associated installation and maintenance records (newly installed snubber, seal replaced, spring replaced, in high radiation area, in high temperature area, etc. . . .). The requirement to monitor the snubber service life is included to ensure that the snubbers periodically undergo a performance evaluation in view of their age and operating conditions. These records will provide statistical bases for future consideration of snubber service life. The requirements for the maintenance of records and the snubber service life review are not intended to affect plant operation.

LEGENDAccessibility Category

A = Accessible

I = Inaccessible

Radiation Category

H = High radiation area only during periods of reactor operation. In acceptable radiation work area during period of reactor shutdown.

N = Acceptable radiation work area during periods of reactor operation and shutdown.

Removal Category

D = Expecially difficult to remove

R = Can be removed

*Snubbers may be added to and deleted from safety related systems without prior License Amendment to Tables 4.17-1 and 4.17-2 provided that a revision to Tables 4.17-1 and 4.17-2 included in the next License Amendment request.

**Modifications to the "Radiation Category" column due to changes in high radiation areas may be made without prior License Amendment provided that a revision to Tables 4.17-1, 4.17-2, 4.17-3 and 4.17-4 is included with the next License Amendment request.

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Main Steam System	1-SHP-HSS-27	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-28	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-29	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-30	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-31	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-32	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-33A	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-33B	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-34A	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-34B	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-35A	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-35B	6"	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-36	1 1/2"	Safeguards	A	N	R
Main Steam System	1-SHP-HSS-37	1 1/2"	Safeguards	A	N	R
Main Steam System	1-SHP-HSS-38	1 1/2"	Safeguards	A	N	R
Main Steam System	1-SHP-HSS-39	1 1/2"	Safeguards	A	N	R
Main Steam System	1-SHP-MSS-50	PSA-1	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-51A	PSA-35	Safeguards	A	N	D

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Main Steam System	1-SHP-MSS-51B	PSA-35	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-52A	PSA-35	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-52B	PSA-35	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-53A	PSA-35	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-53B	PSA-35	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-54A	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-54B	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-55A	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-55B	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-56A	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-56B	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-57	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-58	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-59A	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-59B	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-60A	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-60B	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-MSS-61A	PSA-3	Safeguards	A	N	D

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Main Steam System	1-SHP-MSS-61B	PSA-3	Safeguards	A	N	D
Main Steam System	1-SHP-HSS-1A	5"	Machinery Room #1	A	N	D
Main Steam System	1-SHP-HSS-1B	5"	Machinery Room #1	A	N	D
Main Steam System	1-SHP-HSS-14A	5"	Machinery Room #1	A	N	D
Main Steam System	1-SHP-HSS-14B	5"	Machinery Room #1	A	N	D
Main Steam System	1-SHP-HSS-21	4"	Machinery Room #1	A	N	D
Main Steam System	1-SHP-HSS-22	4"	Machinery Room #1	A	N	D
Main Steam System	1-SHP-HSS-23	4"	Machinery Room #1	A	N	D
Main Steam System	1-SHP-HSS-24	4"	Machinery Room #1	A	N	D
Main Steam System	1-SHP-HSS-25	4"	Machinery Room #1	A	N	D
Main Steam System	1-SHP-HSS-26	4"	Machinery Room #1	A	N	D
Main Steam System	1-SHP-HSS-2A	5"	Containment-67' level	I	H	D
Main Steam System	1-SHP-HSS-2B	5"	Containment-67' level	I	H	D
Main Steam System	1-SHP-HSS-3A	3 1/4"	Containment-67' level	I	H	R
Main Steam System	1-SHP-HSS-3B	3 1/4"	Containment-67' level	I	H	R
Main Steam System	1-SHP-HSS-4A	3 1/4"	Containment-67' level	I	H	R
Main Steam System	1-SHP-HSS-4B	3 1/4"	Containment-67' level	I	H	R
Main Steam System	1-SHP-HSS-5A	2 1/2"	Containment-67' level	I	H	R

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Main Steam System	1-SHP-HSS-5B	2 1/2"	Containment-67' level	I	H	R
Main Steam System	1-SHP-HSS-6A	2 1/2"	Containment-67' level	I	H	R
Main Steam System	1-SHP-HSS-6B	2 1/2"	Containment-67' leve	I	H	R
Main Steam System	1-SHP-HSS-7	8"	Containment Operating level	I	H	D
Main Steam System	1-SHP-HSS-8	8"	Containment Operating level	I	H	D
Main Steam System	1-SHP-HSS-9	10"	Containment Operating level	I	H	D
Main Steam System	1-SHP-HSS-10	10"	Containment Operating level	I	H	D
Main Steam System	1-SHP-HSS-11	8"	Containment Operating level	I	H	D
Main Steam System	1-SHP-HSS-12	8"	Containment Operating level	I	H	D
Main Steam System	1-SHP-HSS-13A	4"	Containment Operating level	I	H	D

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Main Feed System	1-WFPD-HSS-18	1 1/2"	Safeguards	A	N	R
Main Feed System	1-WFPD-HSS-20	3 1/4"	Safeguards	A	N	R
Main Feed System	1-WFPD-HSS-21A	2 1/2"	Safeguards	A	N	R
Main Feed System	1-WFPD-HSS-21B	2 1/2"	Safeguards	A	N	R
Main Feed System	1-WFPD-HSS-22	3 1/4"	Safeguards	A	N	R
Main Feed System	1-WFPD-HSS-1	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-2	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-3	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-4	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-6	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-8	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-9	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-10	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-11	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-12	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-13	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-14	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-15	2 1/2"	Containment Operating Level	I	H	R

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Main Feed System	1-WFPD-HSS-16	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	1-WFPD-HSS-17	2 1/2"	Containment Operating Level	I	H	R

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Aux. Feed System	1-WAPD-HSS-140	1 1/2"	Containment Operating Level	I	H	R
Aux. Feed System	1-WAPD-HSS-141A	1 1/2"	Containment Operating Level	I	H	R
Aux. Feed System	1-WAPD-HSS-141B	1 1/2"	Containment Operating Level	I	H	R
Aux. Feed System	1-WAPD-HSS-142	1 1/2"	Containment Operating Level	I	H	R
Aux. Feed System	1-WAPD-HSS-143A	1 1/2"	Containment Operating Level	I	H	R
Aux. Feed System	1-WAPD-HSS-143B	1 1/2"	Containment Operating Level	I	H	R
Aux. Feed System	1-WAPD-HSS-145	1 1/2"	Safeguards	A	N	R
Aux. Feed System	1-WAPD-HSS-146	1 1/2"	Safeguards	A	N	R
Aux. Feed System	1-WAPD-HSS-147	1 1/2"	Safeguards	A	N	R
Aux. Feed System	1-WAPD-HSS-148	1 1/2"	Safeguards	A	N	R
Aux. Feed System	1-WAPD-HSS-149	1 1/2"	Safeguards	A	N	R

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Component Cooling System	1-CC-HSS-60A	2 1/2"	Aux. Basement	A	N	R
Component Cooling System	1-CC-HSS-65	2 1/2"	Aux. Basement	A	N	R
Component Cooling System	1-CC-HSS-330	2 1/2"	Aux. Basement	A	N	R
Component Cooling System	1-CC-HSS-331	2 1/2"	Aux. Basement	A	N	R
Component Cooling System	1-CC-HSS-332A	2 1/2"	Aux. Basement	A	N	R
Component Cooling System	1-CC-HSS-332B	2 1/2"	Aux. Basement	A	N	R
Component Cooling System	1-CC-HSS-340A	2 1/2"	Aux. Basement	A	N	R
Component Cooling System	1-CC-HSS-340B	2 1/2"	Aux. Basement	A	N	R
Component Cooling System	1-CC-HSS-341	2 1/2"	Aux. Basement	A	N	R

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Lo-head Safety Injection	1-S1-HSS-19A	5"	Containment basement- A Accumulator	I	H	D
Lo-head Safety Injection	1-S1-HSS-19B	5"	Containment basement- A Accumulator	I	H	D
Lo-head Safety Injection	1-S1-HSS-20	8"	Containment basement- A Accumulator	I	H	D
Lo-head Safety Injection	1-S1-HSS-22A	5"	Containment basement- B Accumulator	I	H	D
Lo-head Safety Injection	1-S1-HSS-22B	5"	Containment basement- B Accumulator	I	H	D
Lo-head Safety Injection	1-S1-HSS-23	8"	Containment basement- B Accumulator	I	H	D
Lo-head Safety Injection	1-S1-HSS-25	8"	Containment basement- C Accumulator	I	H	D
Lo-head Safety Injection	1-S1-HSS-26	8"	Containment basement- C Accumulator	I	H	D
Lo-head Safety Injection	1-S1-HSS-84	1 1/2"	Safeguards basement	A	N	R
Lo-head Safety Injection	1-S1-HSS-85	1 1/2"	Safeguards basement	A	N	R
Lo-head Safety Injection	1-S1-HSS-100	1 1/2"	Safeguards Valve Pit	A	N	R
Lo-head Safety Injection	1-S1-HSS-101	1 1/2"	Safeguards Valve Pit	A	N	R
Lo-head Safety Injection	1-S1-HSS-21A	4"	Containment basement	I	H	D
Lo-head Safety Injection	1-S1-HSS-21B	4"	Containment basement	I	H	D

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Lo-head Safety Injection	1-S1-HSS-24A	4"	Containment Basement	I	H	D
Lo-head Safety Injection	1-S1-HSS-24B	4"	Containment Basement	I	H	D
Lo-head Safety Injection	1-S1-HSS-27A	4"	Containment Basement	I	H	D
Lo-head Safety Injection	1-S1-HSS-27B	4"	Containment Basement	I	H	D
Lo-head Safety Injection	1-S1-HSS-28	1 1/2"	Containment Basement	I	H	R

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>CATEGORY</u>	<u>CATEGORY</u>
Recir. Spray System	1-RS-HSS-107	3 1/4"	Safeguards Valve Pit	A	N	R
Recir. Spray System	1-RS-HSS-106	1 1/2"	Containment 90' elevation	I	H	D
Recir. Spray System	1-RS-HSS-105	1 1/2"	Containment 3' level	I	H	R
Recir. Spray System	1-RS-MSS-115A	PSA-3	Containment 10' level	I	H	D
Recirc. Spray System	1-RS-MSS-115B	PSA-3	Containment 10' level	I	H	D
Recirc. Spray System	1-RS-MSS-116A	PSA-3	Containment 10' level	I	H	D
Recirc. Spray System	1-RS-MSS-116B	PSA-3	Containment 10' level	I	H	D

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Chemical Volume & Control System	1-CH-HSS-301	1 1/2"	Aux. Building	A	N	R
Chemical Volume & Control System	1-CH-HSS-302	1 1/2"	Aux. Building	A	N	R

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	1-RC-HSS-110	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	1-RC-HSS-111	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	1-RC-HSS-112	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	1-RC-HSS-113	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	1-RC-HSS-114	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	1-RC-HSS-115	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	1-RC-HSS-122	6"	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-HSS-123	6"	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-HSS-124	6"	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-HSS-125	6"	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-HSS-138	12"	A S/G Upper restraint casting	I	H	D
Reactor Coolant System	1-RC-HSS-139	12"	A S/G Upper restraint casting	I	H	D
Reactor Coolant System	1-RC-HSS-140	12"	A S/G Upper restraint casting	I	H	D
Reactor Coolant System	1-RC-HSS-141	12"	A S/G Upper restraint casting	I	H	D
Reactor Coolant System	1-RC-HSS-142	12"	B S/G Upper restraint casting	I	H	D
Reactor Coolant System	1-RC-HSS-143	12"	B S/G Upper restraint casting	I	H	D
Reactor Coolant System	1-RC-HSS-144	12"	B S/G Upper restraint casting	I	H	D
Reactor Coolant System	1-RC-HSS-145	12"	B S/G Upper restraint casting	I	H	D

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	1-RC-HSS-146	12"	C S/G Upper restraint casting	I	H	D
Reactor Coolant System	1-RC-HSS-147	12"	C S/G Upper restraint casting	I	H	D
Reactor Coolant System	1-RC-HSS-148	12"	C S/G Upper restraint casting	I	H	D
Reactor Coolant System	1-RC-HSS-149	12"	C S/G Upper restraint casting	I	H	D
Reactor Coolant System	1-RC-HSS-172	4 1/2"	A S/G	I	H	D
Reactor Coolant System	1-RC-HSS-173	4 1/2"	A S/G	I	H	D
Reactor Coolant System	1-RC-HSS-174	4 1/2"	A S/G	I	H	D
Reactor Coolant System	1-RC-HSS-175	4 1/2"	A S/G	I	H	D
Reactor Coolant System	1-RC-HSS-176	4 1/2"	B S/G	I	H	D
Reactor Coolant System	1-RC-HSS-177	4 1/2"	B S/G	I	H	D
Reactor Coolant System	1-RC-HSS-178	4 1/2"	B S/G	I	H	D
Reactor Coolant System	1-RC-HSS-179	4 1/2"	B S/G	I	H	D
Reactor Coolant System	1-RC-HSS-180	4 1/2"	C S/G	I	H	D
Reactor Coolant System	1-RC-HSS-181	4 1/2"	C S/G	I	H	D
Reactor Coolant System	1-RC-HSS-182	4 1/2"	C S/G	I	H	D
Reactor Coolant System	1-RC-HSS-183	4 1/2"	C S/G	I	H	D
Reactor Coolant System	1-RC-MSS-115A	PSA-10	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-MSS-115B	PSA-10	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-MSS-116A	PSA-10	Pressurizer Cubicle	I	H	D

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	1-RC-MSS-116B	PSA-10	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-MSS-117A	PSA-10	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-MSS-117B	PSA-10	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-MSS-218	PSA-1	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-MSS-219	PSA-1/2	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-MSS-220	PSA-1/2	Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-MSS-221	PSA-3	Outside Pressurizer Cubicle	I	H	D
Reactor Coolant System	1-RC-MSS-222	PSA-3	Outside B S/G Cubicle	I	H	D
Reactor Coolant System	1-RC-HSS-126	4"	A RCP	I	H	D
Reactor Coolant System	1-RC-HSS-127	4"	A RCP	I	H	D
Reactor Coolant System	1-RC-HSS-128	4"	A RCP	I	H	D
Reactor Coolant System	1-RC-HSS-129	4"	A RCP	I	H	D
Reactor Coolant System	1-RC-HSS-130	4"	B RCP	I	H	D
Reactor Coolant System	1-RC-HSS-131	4"	B RCP	I	H	D
Reactor Coolant System	1-RC-HSS-132	4"	B RCP	I	H	D
Reactor Coolant System	1-RC-HSS-133	4"	B RCP	I	H	D
Reactor Coolant System	1-RC-HSS-134	4"	C RCP	I	H	D

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	1-RC-HSS-135	4"	C RCP	I	H	D
Reactor Coolant System	1-RC-HSS-136	4"	C RCP	I	H	D
Reactor Coolant System	1-RC-HSS-137	4"	C RCP	I	H	D
Reactor Coolant System	1-RC-HSS-150	12"	A S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-151	12"	A S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-152	12"	A S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-153	12"	A S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-154	12"	B S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-155	12"	B S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-156	12"	B S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-157	12"	B S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-158	12"	C S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-159	12"	C S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-160	12"	C S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-161	12"	C S/G Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-162	12"	A RCP Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-163	12"	A RCP Lower Support ring	I	H	D
Reactor Coolant System	1-RC-HSS-166	12"	B RCP Lower Support ring	I	H	D

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	1-RC-HSS-167	12"	B RCP Lower Support beam	I	H	D
Reactor Coolant System	1-RC-HSS-170	12"	C RCP Lower Support beam	I	H	D
Reactor Coolant System	1-RC-HSS-171	12"	C RCP Lower Support beam	I	H	D
Reactor Coolant System	1-PS-MSS-1A	PSA 1	A S/G elevation 55'	I	H	D
Reactor Coolant System	1-PS-MSS-2A	PSA-1/4	A S/G elevation 55'	I	H	D
Reactor Coolant System	1-PS-MSS-1B	PSA-1	B S/G elevation 55'	I	H	D
Reactor Coolant System	1-PS-MSS-2B	PSA-1/4	B S/G elevation 55'	I	H	D
Reactor Coolant System	1-PS-MSS-1C	PSA-1	C S/G elevation 55'	I	H	D
Reactor Coolant System	1-PS-MSS-2C	PSA=1/4	C S/G elevation 55'	I	H	D
Reactor Coolant System	1-RC-HSS-164	1 1/2"	A Loop room-Elevation 20'	I	H	R
Reactor Coolant System	1-RC-HSS-165	1 1/2"	A Loop room-Elevation 20'	I	H	R
Reactor Coolant System	1-RC-HSS-168	1 1/2"	B Loop room-Elevation 20'	I	H	R
Reactor Coolant System	1-RC-HSS-169	1 1/2"	B Loop room-Elevation 20'	I	H	R
Reactor Coolant System	1-RC-HSS-116	1 1/2"	C Loop room-Elevation 20'	I	H	R
Reactor Coolant System	1-RC-HSS-117	1 1/2"	C Loop room-Elevation 20'	I	H	R
Reactor Coolant System	1-PS-MSS-11A	PSA-10	A Loop room	I	H	D
Reactor Coolant System	1-PS-MSS-23B	PSA-1/4	B Loop room-Elevation 12'	I	H	D
Reactor Coolant System	1-PS-MSS-10C	PSA-1/4	C Loop room Elevation 12'	I	H	D

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	1-PS-MSS-12C	PSA-1/4	C Loop room E1-13'	I	H	D
Reactor Coolant System	1-PS-MSS-14C	PSA-1/4	C Loop room E1-13'	I	H	D
Reactor Coolant System	1-RC-HSS-102	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	1-RC-HSS-103	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	1-RC-HSS-104	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	1-RC-HSS-105	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	1-RC-HSS-106	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	1-RC-HSS-107	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	1-RC-HSS-108	1 1/2"	Containment Basement	I	H	R

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Make-up System	1-WCMU-HSS-100	1 1/2"	Safeguards	A	N	R
Containment Spray System	1-CS-HSS-01	1 1/2"	Safeguards Basement	A	N	R
Service Water System	1-SW-HSS-2	PSA-1/4	Machinery Room #3	A	N	D
Emergency Diesel	1-EE-HSS-01	1 1/2"	#1 EDG Exhaust	A	N	R
Emergency Diesel	1-EE-HSS-03	1 1/2"	#3 EDG Exhaust	A	N	R
S/G Blowdown	1-WGCB-HSS-10	1 1/2"	Aux. Basement	A	N	R
S/G Blowdown	1-WGCB-MSS-23	PSA-3	Aux. Basement	A	N	D
S/G Blowdown	1-WGCB-MSS-11	PSA-1/2	A Loop room-El. 13/6"	I	H	D
S/G Blowdown	1-WGCB-MSS-12	PSA-1/2	A loop room-El. 7'8"	I	H	D
S/G Blowdown	1-WGCB-MSS-13	PSA-1/2	A loop room-El. 8'3"	I	H	D
S/G Blowdown	1-WGCB-MSS-14A	PSA-1/2	A loop room-El. 6'	I	H	D
S/G Blowdown	1-WGCB-MSS-14B	PSA-1/2	A loop room-El. 6'	I	H	D
S/G Blowdown	1-WGCB-MSS-15A	PSA-1/2	A S/G Cubicle	I	H	D
S/G Blowdown	1-WGCB-MSS-15B	PSA-1/2	A S/G Cubicle	I	H	D
S/G Blowdown	1-WGCB-MSS-16	PSA-1/2	A S/G Cubicle	I	H	D
S/G Blowdown	1-WGCB-MSS-17A	PSA-1/2	B loop room-El. 13'	I	H	D
S/G Blowdown	1-WGCB-MSS-17B	PSA-1/2	B loop room-El. 13'	I	H	D
S/G Blowdown	1-WGCB-MSS-18A	PSA-1/2	B loop room-El. 7'	I	H	D
S/G Blowdown	1-WGCB-MSS-18B	PSA-1/2	B loop room-El. 7'	I	H	D

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
S/G Blowdown	1-WGCB-MSS-19	PSA-1/2	B loop room-El. 10'	I	H	D
S/G Blowdown	1-WGCB-MSS-100	PSA-1/2	B loop room-El. 15'	I	H	D
S/G Blowdown	1-WGCB-MSS-10	PSA-1/2	C loop room-El. 12'	I	H	D
S/G Blowdown	1-WGCB-MSS-20A	PSA-1/2	C loop room El. 6'	I	H	D
S/G Blowdown	1-WGCB-MSS-20B	PSA-1/2	C loop room-El. 6'	I	H	D
S/G Blowdown	1-WGCB-MSS-21	PSA-1/2	C loop room-El. 12'	I	H	D
S/G Blowdown	1-WGCB-HSS-02	2 1/2	C loop room	I	H	R
S/G Blowdown	1-WGCB-HSS-03	2 1/2	C loop room	I	H	R

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Residual Heat Removal Sys.	1-RH-HSS-103	2 1/2"	A loop room-E1. 3'	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-104	2 1/2"	A loop room-E1. 3'	I	H	R
Residual Heat Removal Sys.	1-RH-MSS-120A	PSA-3	A loop room	I	H	D
Residual Heat Removal Sys.	1-RH-MSS-120B	PSA-3	A loop room	I	H	D
Residual Heat Removal Sys.	1-RH-HSS-1	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-2	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-3	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-4	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-5	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-6	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-7	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-8	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-9	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-10	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-11	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-12	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-13	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-14	1 1/2"	RHR Flat	I	H	R

TABLE 4.17-1

UNIT NO. 1 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Residual Heat Removal Sys.	1-RH-HSS-15	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-19	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-20	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-105	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-21	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-22	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-23	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-24	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-25	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-100	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-101A	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-101B	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-102	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-26	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-27	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	1-RH-HSS-28	1 1/2"	RHR Flat	I	H	R

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Main Steam System	2-SHP-HSS-1A	5"	Machinery Room #2	A	N	D
Main Steam System	2-SHP-HSS-1B	5"	Machinery Room #2	A	N	D
Main Steam System	2-SHP-HSS-14A	5"	Machinery Room #2	A	N	D
Main Steam System	2-SHP-HSS-14B	5"	Machinery Room #2	A	N	D
Main Steam System	2-SHP-HSS-15	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-16	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-17	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-18	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-19	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-20	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-21	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-22	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-23	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-24	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-25	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-26	4"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-27	6"	Safeguards	A	N	D

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Main Steam System	2-SHP-HSS-28	6"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-29	6"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-30	6"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-31	6"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-32	6"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-33A	6"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-33B	6"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-34A	6"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-34B	6"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-35A	6"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-35B	6"	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-36A	1 1/2"	Safeguards	A	N	R
Main Steam System	2-SHP-HSS-36B	1 1/2"	Safeguards	A	N	R
Main Steam System	2-SHP-HSS-40	2 1/2"	Safeguards	A	N	R
Main Steam System	2-SHP-HSS-41	2 1/2"	Safeguards	A	N	R
Main Steam System	2-SHP-HSS-42	2 1/2"	Safeguards	A	N	R
Main Steam System	2-SHP-HSS-51	1 1/2"	Safeguards	A	N	R
Main Steam System	2-SHP-MSS-1	PSA-3	Safeguards	A	N	D
Main Steam System	2-SHP-MSS-2	PSA-3	Safeguards	A	N	D
Main Steam System	2-SHP-MSS-3	PSA-3	Safeguards	A	N	D
Main Steam System	2-SHP-MSS-4	PSA-3	Safeguards	A	N	D

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Main Steam System	2-SHP-MSS-5	PSA-3	Safeguards	A	N	D
Main Steam System	2-SHP-MSS-6	PSA-4	Safeguards	A	N	D
Main Steam System	2-SHP-HSS-2A	5"	Containment 67' leve	I	H	D
Main Steam System	2-SHP-HSS-2B	5"	Containment 67' level	I	H	D
Main Steam System	2-SHP-HSS-3A	3 1/2"	Containment 55' level	I	H	R
Main Steam System	2-SHP-HSS-3B	3 1/2"	Containment 55' level	I	H	R
Main Steam System	2-SHP-HSS-4A	3 1/2"	Containment 55' level	I	H	R
Main Steam System	2-SHP-HSS-4B	3 1/2"	Containment 55' level	I	H	R
Main Steam System	2-SHP-HSS-5A	2 1/2"	Containment Operating level	I	H	R
Main Steam System	2-SHP-HSS-5B	2 1/2"	Containment Operating level	I	H	R
Main Steam System	2-SHP-HSS-6A	2 1/2"	Containment Operating level	I	H	R
Main Steam System	2-SHP-HSS-6B	2 1/2"	Containment Operating level	I	H	R
Main Steam System	2-SHP-HSS-7	6"	Containment Operating level	I	H	D
Main Steam System	2-SHP-HSS-8	6"	Containment Operating level	I	H	D
Main Steam System	2-SHP-HSS-9	10"	Containment Operating level	I	H	D
Main Steam System	2-SHP-HSS-10	10"	Containment Operating level	I	H	D
Main Steam System	2-SHP-HSS-11	8"	Containment Operating level	I	H	D
Main Steam System	2-SHP-HSS-12	8"	Containment Operating level	I	H	D
Main Steam System	2-SHP-HSS-13A	4"	Containment Operating level	I	H	D

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Main Feed System	2-WFPF-HSS-14	2 1/2"	Safeguards	A	N	R
Main Feed System	2-WFPD-HSS-15	3 1/4"	Safeguards	A	N	R
Main Feed System	2-WFPD-HSS-16	3 1/4"	Safeguards	A	N	R
Main Feed System	2-WFPD-HSS-17	3 1/4"	Safeguards	A	N	R
Main Feed System	2-WFPD-HSS-18	2 1/2"	Safeguards	A	N	D
Main Feed System	2-WFPD-HSS-1	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	2-WFPD-HSS-2	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	2-WFPD-HSS-3	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	2-WFPD-HSS-4	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	2-WFPD-HSS-5	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	2-WFPD-HSS-6	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	2-WFPD-HSS-7	4"	Containment Operating Level	I	H	D
Main Feed System	2-WFPD-HSS-8	4"	Containment Operating Level	I	H	D
Main Feed System	2-WFPD-HSS-9	4"	Containment Operating Level	I	H	D
Main Feed System	2-WFPD-HSS-10	4"	Containment Operating Level	I	H	D
Main Feed System	2-WFPD-HSS-11	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	2-WFPD-HSS-12	2 1/2"	Containment Operating Level	I	H	R
Main Feed System	2-WFPD-HSS-13	2 1/2"	Containment Operating Level	I	H	R

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Aux. Feed System	2-WAPD-HSS-140	1 1/2"	Containment Operating Level	I	H	D
Aux. Feed System	2-WAPD-HSS-141	1 1/2"	Containment Operating Level	I	H	D
Aux. Feed System	2-WAPD-HSS-142	1 1/2"	Containment Operating Level	I	H	D
Aux. Feed System	2-WAPD-HSS-143	1 1/2"	Containment Operating Level	I	H	D
Aux. Feed System	2-WAPD-HSS-144	1 1/2"	Safeguards	A	N	R
Aux. Feed System	2-WAPD-HSS-145A	1 1/2"	Safeguards	A	N	R
Aux. Feed System	2-WAPD-HSS-145B	1 1/2"	Safeguards	A	N	R

TABLE 4.17-2UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Component Cooling System	2-CC-HSS-356A	2 1/2"	Aux. Basement	A	N	R
Component Cooling System	2-CC-HSS-356B	2 1/2"	Aux. Basement	A	N	R
Component Cooling System	2-CC-HSS-357	1 1/2"	RHR Flat	I	H	R
Component Cooling System	2-CC-HSS-358	1 1/2"	RHR Flat	I	H	R
Component Cooling System	2-CC-HSS-359	1 1/2"	RHR Flat	I	H	R

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Recirc. Spray System	2-RS-HSS-101	1 1/2"	Containment Basement	I	H	R
Recirc. Spray System	2-RS-HSS-102	1 1/2"	Containment Basement	I	H	R
Recirc. Spray System	2-RS-HSS-103	1 1/2"	Containment Basement	I	H	R
Recirc. Spray System	2-RS-HSS-104	1 1/2"	Containment Basement	I	H	R

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
S/G Blowdown System	2-WGCB-HSS-4A	1 1/2"	Aux. Building	A	N	R
S/G Blowdown System	2-WGCB-HSS-4B	1 1/2"	Aux. Building	A	N	R
S/G Blowdown System	2-WGCB-HSS-7A	1 1/2"	Aux. Building	A	N	R
S/G Blowdown System	2-WGCB-HSS-7B	1 1/2"	Aux. Building	A	N	R
S/G Blowdown System	2-WGCB-HSS-8A	1 1/2"	Aux. Building	A	N	R
S/G Blowdown System	2-WGCB-HSS-8B	1 1/2"	Aux. Building	A	N	R
S/G Blowdown System	2-WGCB-HSS-01	1 1/2"	Containment 3rd level	I	H	R
S/G Blowdown System	2-WGCB-HSS-02	2 1/2"	B loop room	I	H	R
S/G Blowdown System	2-WGCB-HSS-03	2 1/2"	C loop room	I	H	R
S/G Blowdown System	2-WGCB-HSS-5	1 1/2"	A Cubicle	I	H	R
S/G Blowdown System	2-WGCB-HSS-6A	1 1/2"	A Cubicle	I	H	R
S/G Blowdown System	2-WGCB-HSS-6B	1 1/2"	A Cubicle	I	H	R

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Charging System	2-CH-HSS-303	1 1/2"	Aux. Building	A	N	R
Charging System	2-CH-HSS-304	1 1/2"	Aux. Building	A	N	R
Charging System	2-CH-HSS-305	1 1/2"	Containment Basement	I	H	R
Charging System	2-CH-HSS-306A	1 1/2"	Containment Basement	I	H	R
Charging System	2-CH-HSS-306B	1 1/2"	Containment Basement	I	H	R
Charging System	2-CH-HSS-307	1 1/2"	Containment Basement	I	H	R
Charging System	2-CH-MSS-1	PSA-3	Containment Basement	I	H	D
Charging System	2-CH-MSS-2	PSA-3	Containment Basement	I	H	D
Emergency Diesel	2-EE-HSS-01	1 1/2"	#2 EDG Exhaust	A	N	R
Emergency Diesel	2-EE-HSS-02	1 1/2"	#2 EDG Exhaust	A	N	R
Emergency Diesel	2-EE-HSS-03	1 1/2"	#2 EDG Exhaust	A	N	R
Service Water System	2-SW-MSS-1	PSA-3	Containment Basement	I	H	D

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Containment Spray System	2-CS-HSS-01A	2 1/2"	Safeguards Valve Pit	A	N	R
Containment Spray System	2-CS-HSS-01B	2 1/2"	Safeguards Valve Pit	A	N	R

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Safety Injection System	2-S1-HSS-100	2 1/2"	Safeguard-Valve Pit	A	N	R
Safety Injection System	2-S1-HSS-101	2 1/2"	Safeguard-Valve Pit	A	N	R
Safety Injection System	2-S1-HSS-103	1 1/2"	Safeguard-Valve Pit	A	N	R
Safety Injection System	2-S1-HSS-104A	2 1/2"	Safeguard-Valve Pit	A	N	R
Safety Injection System	2-S1-HSS-104B	2 1/2"	Safeguard-Valve Pit	A	N	R
Safety Injection System	2-S1-HSS-19A	5"	C Accumulator	I	H	D
Safety Injection System	2-S1-HSS-19B	5"	C Accumulator	I	H	D
Safety Injection System	2- S1-HSS-20	8"	C Accumulator	I	H	D
Safety Injection System	2-S1-HSS-21	6"	C Accumulator	I	H	D
Safety Injection System	2-S1-HSS-22A	5"	B Accumulator	I	H	D
Safety Injection System	2-S1-HSS-22B	5"	B Accumulator	I	H	D
Safety Injection System	2-S1-HSS-23	8"	B Accumulator	I	H	D
Safety Injection System	2-S1-HSS-25	8"	A Accumulator	I	H	D
Safety Injection System	2-S1-HSS-26	8"	A Accumulator	I	H	D
Safety Injection System	2-S1-HSS-24	6"	B Accumulator	I	H	D
Safety Injection System	2-S1-HSS-27	6"	A. Accumulator	I	H	D

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	2-RC-HSS-100	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	2-RC-HSS-101	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	2-RC-HSS-102	1 1/2"	Pressurizer Relief Tank Room	I	H	R
Reactor Coolant System	2-RC-HSS-103	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	2-RC-HSS-104	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	2-RC-HSS-105	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	2-RC-HSS-106	1 1/2"	Pressurizer Relief Tank Room	I	H	R
Reactor Coolant System	2-RC-HSS-107	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-108	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	2-RC-HSS-110	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-112	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-113	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-114	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-115	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-116	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-117	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-118	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-119	1 1/2"	Pressurizer Cubicle	I	H	R

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	2-RC-HSS-122	6"	Pressurizer Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-123	6"	Pressurizer Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-124	6"	Pressurizer Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-125	6"	Pressurizer Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-126	4"	A RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-127	4"	A RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-128	4"	A RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-129	4"	A RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-130	4"	B RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-131	4"	B RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-132	4"	B RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-133	4"	B RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-134	4"	C RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-135	4"	C RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-136	4"	C RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-137	4"	C RCP Upper Holding Assembly	I	H	D
Reactor Coolant System	2-RC-HSS-138	12"	A S/G Upper restraint Casting	I	H	D
Reactor Coolant System	2-RC-HSS-139	12"	A S/G Upper restraint Casting	I	H	D
Reactor Coolant System	2-RC-HSS-140	12"	A S/G Upper restraint Casting	I	H	D

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	2-RC-HSS-141	12"	A S/G Upper restraint Casting	I	H	D
Reactor Coolant System	2-RC-HSS-142	12"	B S/G Upper restraint Casting	I	H	D
Reactor Coolant System	2-RC-HSS-143	12"	B S/G Upper restraint Casting	I	H	D
Reactor Coolant System	2-RC-HSS-144	12"	B S/G Upper restraint Casting	I	H	D
Reactor Coolant System	2-RC-HSS-145	12"	B S/G Upper restraint Casting	I	H	D
Reactor Coolant System	2-RC-HSS-146	12"	C S/G Upper Restraint Casting	I	H	D
Reactor Coolant System	2-RC-HSS-147	12"	C S/G Upper Restraint Casting	I	H	D
Reactor Coolant System	2-RC-HSS-148	12"	C S/G Upper Restraint Casting	I	H	D
Reactor Coolant System	2-RC-HSS-149	12"	C S/G Upper Restraint Casting	I	H	D
Reactor Coolant System	2-RC-HSS-150	12"	A S/G Lower Support Ring	I	H	D
Reactor Coolant System	2-RC-HSS-151	12"	A S/G Lower Support Ring	I	H	D
Reactor Coolant System	2-RC-HSS-152	12"	A S/G Lower Support Ring	I	H	D
Reactor Coolant System	2-RC-HSS-153	12"	A S/G Lower Support Ring	I	H	D
Reactor Coolant System	2-RC-HSS-154	12"	B S/G Lower Support Ring	I	H	D
Reactor Coolant System	2-RC-HSS-155	12"	B S/G Lower Support Ring	I	H	D
Reactor Coolant System	2-RC-HSS-156	12"	B S/G Lower Support Ring	I	H	D
Reactor Coolant System	2-RC-HSS-157	12"	B S/G Lower Support Ring	I	H	D
Reactor Coolant System	2-RC-HSS-158	12"	C S/G Lower Support Ring	I	H	D
Reactor Coolant System	2-RC-HSS-159	12"	C S/G Lower Support Ring	I	H	D

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	2-RC-HSS-160	12"	C S/G Lower Support Ring	I	H	D
Reactor Coolant System	2-RC-HSS-161	12"	C S/G Lower Support Ring	I	H	D
Reactor Coolant System	2-RC-HSS-162	12"	A RCP Lower Support Beam	I	H	D
Reactor Coolant System	2-RC-HSS-163	12"	A RCP Lower Support Beam	I	H	D
Reactor Coolant System	2-RC-HSS-166	12"	B RCP Lower Support Beam	I	H	D
Reactor Coolant System	2-RC-HSS-167	12"	B RCP Lower Support Beam	I	H	D
Reactor Coolant System	2-RC-HSS-170	12"	C RCP Lower Support Beam	I	H	D
Reactor Coolant System	2-RC-HSS-171	12"	C RCP Lower Support Beam	I	H	D
Reactor Coolant System	2-RC-HSS-172	4 1/2"	A S/G Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-173	4 1/2"	A S/G Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-174	4 1/2"	A S/G Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-175	4 1/2"	A S/G Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-176	4 1/2"	B S/G Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-177	4 1/2"	B S/G Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-178	4 1/2"	B S/G Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-179	4 1/2"	B S/G Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-180	4 1/2"	C S/G Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-181	4 1/2"	C S/G Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-182	4 1/2"	C S/G Upper Support	I	H	D

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	2-RC-HSS-183	4 1/2"	C S/G Upper Support	I	H	D
Reactor Coolant System	2-RC-HSS-184	1 1/2"	Containment Basement	I	H	R
Reactor Coolant System	2-RC-HSS-185	2 1/2"	Containment Basement	I	H	R
Reactor Coolant System	2-RC-HSS-186	1 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-187	1 1/2"	Pressurizer relief tank room	I	H	R
Reactor Coolant System	2-RC-HSS-188A	2 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-188B	2 1/2"	Pressurizer Cubicle	I	H	R
Reactor Coolant System	2-RC-HSS-189A	4"	Pressurizer Cubicle	I	H	D
Reactor Coolant System	2-RC-HSS-189B	4"	Pressurizer Cubicle	I	H	D
Reactor Coolant System	2-RC-HSS-190	1 1/2"	C Loop Room	I	H	R
Reactor Coolant System	2-RC-MSS-1A	PSA-1	A S/G Cubicle	I	H	D
Reactor Coolant System	2-RC-MSS-2A	PSA-1/4	A S/G Cubicle	I	H	D
Reactor Coolant System	2-RC-MSS-14A	PSA-1/4	A S/G Cubicle	I	H	D
Reactor Coolant System	2-RC-MSS-1B	PSA-1	B S/G Cubicle	I	H	D
Reactor Coolant System	2-RC-MSS-2B	PSA-1/4	B S/G Cubicle	I	H	D
Reactor Coolant System	2-RC-MSS-15B	PSA-1/4	B S/G Cubicle	I	H	D
Reactor Coolant System	2-RC-MSS-16B	PSA-1/4	Containment 3rd level	I	H	D
Reactor Coolant System	2-RC-MSS-1C	PSA-1	C S/G Cubicle	I	H	D

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Reactor Coolant System	2-RC-MSS-2C	PSA-1	C S/G Cubicle	I	H	D
Reactor Coolant System	2-RC-MSS-15C	PSA-1/4	C S/G Cubicle	I	H	D
Reactor Coolant System	2-RC-MSS-1	PSA-3	Containment 2nd level	I	H	D
Reactor Coolant System	2-RC-MSS-2	PSA-3	Containment 2nd level	I	H	D
Reactor Coolant System	2-RC-MSS-3	PSA-1/2	A Loop Room	I	H	D
Reactor Coolant System	2-RC-MSS-4	PSA-1/2	B Loop Room	I	H	D
Reactor Coolant System	2-RC-MSS-5	PSA-1	Containment Operating level	I	H	D
Reactor Coolant System	2-RC-MSS-6	PSA-1	Containment Operating level	I	H	D
Reactor Coolant System	2-RC-MSS-7	PSA-1	Containment Operating level	I	H	D

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Residual Heat Removal Sys.	2-RH-HSS-1	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-2	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-3	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-4	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-5	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-6	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-7	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-8	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-9	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-10	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-11	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-12	1 1/2"	Below RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-13	1 1/2"	Below RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-14	1 1/2"	Below RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-15	1 1/2"	Below RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-17	2 1/2"	A Loop Room	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-18	2 1/2"	A Loop Room	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-19	2 1/2"	A Loop Room	I	H	R

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Residual Heat Removal Sys.	2-RH-HSS-20	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-21	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-22	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-25	1 1/2"	Below RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-26	1 1/2"	Below RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-27	1 1/2"	Below RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-28	1 1/2"	Containment Basement	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-29	1 1/2"	Containment Basement	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-30	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-31	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-32	2 1/2"	A Loop Room	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-33A	1 1/2"	Containment Basement	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-33B	1 1/2"	Containment Basement	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-34	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-35	2 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-36A	1 1/2"	Containment Basement	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-36B	1 1/2"	Containment Basement	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-37	1 1/2"	Containment Basement	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-38	1 1/2"	RHR Flat	I	H	R

TABLE 4.17-2

UNIT NO. 2 SUPPRESSOR DATA

<u>SYSTEM</u>	<u>DESIGNATION</u>	<u>SIZE</u>	<u>LOCATION</u>	<u>ACCESSIBILITY</u>	<u>RADIATION CATEGORY</u>	<u>REMOVAL CATEGORY</u>
Residual Heat Removal Sys.	2-RH-HSS-39	1 1/2"	RHR Flat	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-40	2 1/2"	Containment Basement	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-101	1 1/2"	Containment Basement	I	H	R
Residual Heat Removal Sys.	2-RH-HSS-102	1 1/2"	Containment Basement	I	H	R
Residual Heat Removal Sys.	2-RH-MSS-1	PSA-1/4	Containment Basement	I	H	D
Residual Heat Removal Sys.	2-RH-MSS-2	PSA-3	Containment Basement	I	H	D

B. Records relative to the following items shall be retained for the life of the plant.

1. Records of changes made to the plant and plant drawings are described in the FSAR pursuant to 10 CFR 50.59.
2. Records of new and spent fuel inventory and assembly histories.
3. Records of plant radiation and contamination surveys.
4. Records of off-site environmental monitoring surveys.
5. Records of radiation exposure of all plant personnel, and others as required by 10 CFR 20.
6. Records of radioactivity in liquid and gaseous wastes released to the environment.
7. Primary records of inservice inspections including, but not limited to radiographs (of welds which are radiographed), photographs of the scope traces for welds which are tested by ultrasonic techniques, and photographs of the surface of those welds inspected by visual or surface examinations.
8. Records of Environmental Qualification which are covered under the provisions of paragraph 6.7.

9. Records of the service lives of all hydraulic and mechanical snubbers listed on Tables 4.17-1 and 4.17-2 including the date at which the service life commences and associated installation and maintenance records.