

Docket No. 50-336

Attachment 1

Millstone Nuclear Power Station, Unit No. 2

Proposed Technical Specifications

July, 1981

PLANT SYSTEMS

3/4.7.8 SNUBBERS

LIMITING CONDITION FOR OPERATION

3.7.8.1 All snubbers listed in Tables 3.7-1a and 3.7-1b shall be OPERABLE.

APPLICABILITY

As shown in Tables 3.7-1a and 3.7-1b.

ACTION

As shown in Tables 3.7-1a and 3.7-1b.

SURVEILLANCE REQUIREMENTS

4.7.8.1 Each snubber shall be demonstrated OPERABLE by performance of the following augmented inservice inspection program and the requirements of Specification 4.0.5.

(a) Visual Inspection

Visual inspections shall be performed in accordance with the inspection schedule listed in Table 4.7-3.

(b) Visual Inspection Acceptance Criteria

Visual inspections shall be conducted in the following manner: (1) in the case where there are visual indications of damage or impaired OPERABILITY, the affected snubber shall be tested in the as-found condition and determined OPERABLE per specifications 4.7.8.1d or 4.7.8.1e as applicable; or (2) if the attachments to the foundation or supporting structure are found to be insecure, the cause of the rejection shall be clearly established and remedied for that particular snubber and for other snubbers that may be generically susceptible. Snubbers which appeared inoperable as a result of visual inspections may be determined OPERABLE for the purpose of establishing the next visual inspection interval provided that the above procedure is adhered to.

All snubbers connected to an inoperable common hydraulic fluid reservoir shall be counted as inoperable snubbers.

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(c) Snubber Tests

At least once per eighteen (18) months during shutdown, a representative sample (10% of the total of each type of snubber, mechanical and hydraulic, in use in the plant) shall be tested either in place or in a bench test. For each snubber that does not meet the test acceptance criteria of Specification 4.7.8.1d or 4.7.8.1e, as applicable, an additional 10% of that type of snubber shall be tested.

Testing shall continue until no additional inoperable snubbers are found within a sample or until all snubbers in Tables 3.7-1a and 3.7-1b have been tested. The representative sample selected for testing shall include the various configurations, and the range of size and capacity of snubbers.

Snubbers identified in Tables 3.7-1a and 3.7-1b as "Especially Difficult to Remove" or in "High Radiation Zones During Shutdown" may be exempted from testing provided an engineering evaluation is performed to substantiate this exemption and these snubbers were demonstrated OPERABLE during previous tests. Tables 3.7-1a and 3.7-1b may be used jointly or separately as the basis for the sampling plan.

In addition to the regular sample, in locations where snubbers had failed the previous test due to operational or environmental conditions (excessive vibration, water hammer, high radiation, extreme heat or humidity, etc.), the snubbers currently installed in these locations shall be tested during the next test period. Test results of these snubbers may not be included for the resampling. All replacement snubbers shall have been tested prior to installation.

If any snubber selected for testing either fails to lock-up or fails to move (i.e., frozen in place), the cause will be evaluated and if caused by manufacturer design deficiency, all snubbers of the same design subject to the same defect shall be tested regardless of location or difficulty of removal. This testing requirement shall be independent of the requirements stated above for snubbers not meeting the test acceptance criteria.

For the snubber(s) found inoperable, an engineering evaluation shall be performed on the components which are supported by the 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.

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(d) Hydraulic Snubbers Functional Test Acceptance Criteria

The hydraulic snubber functional test shall verify that:

1. Activation (restraining action) is achieved within the specified range of velocity or acceleration in both tension and compression.
2. Snubber bleed, or release rate, where required, is within the specified range in compression or tension.

(e) Mechanical Snubbers Manual Test Acceptance Criteria

The mechanical snubber manual test shall verify that:

1. Freedom of movement over the full range of stroke in both compression and tension is achieved.

TABLE 3.7-1a

SAFETY RELATED HYDRAULIC SNUBBERS*

HANGER No. (1)	SYSTEM, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE	HIGH RADIATION ZONE**	ESPECIALLY DIFFICULT TO REMOVE	APPLICABLE MODES (3)	ACTION
		(A or I)	(Yes or No)	(Yes or No)		
312015 (2)	MS-4N/41W/+66	I	No	Yes	1, 2, 3	1
312016 (2)	MS-4N/41E/+66	I	No	Yes	1, 2, 3	1
312017	MS-4N/41E/+64	I	No	Yes	1, 2, 3	1
312018	MS-4N/41W/+64	I	No	Yes	1, 2, 3	1
312019	MS-4N/41E/+63	I	No	Yes	1, 2, 3	1
401008	HPSI-F.2/18.9/-37	A	Yes	No	1, 2, 3, 4	1
401024	CS-F.8/17.7/-30	A	No	No	1, 2, 3, 4	1
401025 (2)	HPSI-H.2/17.2/-30	A	No	No	1, 2, 3, 4	1
401105	HPSI-H.4/17.7/-11	A	No	Yes	1, 2, 3, 4	1
401107	HPSI-H.4/17.7/-13	A	No	Yes	1, 2, 3, 4	1
402009	SDC-F.2/18.9/-32	A	Yes	No	6	3
402013	HPSI-F.3/18.9/-40	A	Yes	No	1, 2, 3, 4	1
402022	LPSI-F.2/18.1/-31	A	Yes	No	1, 2, 3(+), 6	4
402056 (2)	LPSI-H.4/17.6/-32	A	Yes	No	1, 2, 3(+), 6	4
402083	CS-H.4/18.4/-20	A	No	Yes	1, 2, 3(+)	1
402100	SIT-42S/41W/+25	I	No	No	1, 2, 3(+)	1

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TABLE 3.7-1a (Continued)

SAFETY RELATED HYDRAULIC SNUBBERS*

HANGER No. (1)	SYSTEM, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE** (Yes or No)	ESPECIALLY DIFFICULT TO REMOVE (Yes or No)	APPLICABLE MODES (3)	ACTION
402113 (2)	SDC-18S/50W/-2	I	Yes	No	6	3
402115 (2)	SDC-18S/50W/+3	I	Yes	No	6	3
403068	SFP-E.5/18.1/-36	A	Yes	No	See Note 4	5
403070	SFP-L.5/18.9/+10	A	Yes	No	See Note 4	6
403090	SFP-M.4/18.9/+7	A	Yes	No	See Note 4	6
405388	MS-E.5/19.6/+53	A	No	No	1, 2, 3	1
405618 (2)	RBCCW-J.7, 16.6/-13	A	No	No	1, 2, 3, 4	1
410004 (2)	HPSI-57S/10W/-13	I	No	No	1, 2, 3, 4	1
410012	SIT-27S/42W/+13	I	Yes	No	1, 2, 3(+)	1
410014	SIT-30S/47W/+15	I	No	No	1, 2, 3(+)	1
410015	SIT-30S/47W/+15	I	No	No	1, 2, 3(+)	1
410017	SIT-38S/48W/+1	I	No	No	1, 2, 3(+)	1
410019	SIT-32S/47W/+8	I	No	No	1, 2, 3(+)	1
410021	SIT-6N/47W/+9	I	No	No	1, 2, 3(+)	1
410022	SIT-9N/62W/+5	I	No	No	1, 2, 3(+)	1
410027	SIT-6N/47W/+10	I	No	No	1, 2, 3(+)	1
410028	SIT-6N/47W/+15	I	No	Yes	1, 2, 3(+)	1

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TABLE 3.7-1a (Continued)

SAFETY RELATED HYDRAULIC SNUBBERS*

HANGER No. (1)	SYSTEM, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE	HIGH RADIATION ZONE**	ESPECIALLY DIFFICULT TO REMOVE	APPLICABLE MODES (3)	ACTION
		(A or I)	(Yes or No)	(Yes or No)		
410029	SIT-6N/47W/+15	I	No	No	1, 2, 3(+)	1
410031 (2)	SIT-1N/37W/+15	I	Yes	No	1, 2, 3(+)	1
410061	SDC-20S/28W/-5	I	Yes	Yes	6	3
410065 (2)	SIT-53S/33E/-4	I	No	Yes	1, 2, 3(+)	1
410067	SIT-30S/47E/+6	I	No	No	1, 2, 3(+)	1
410083	SIT-30S/54E/-1	I	No	No	1, 2, 3(+)	1
410086 (3)	SIT-30S/47E/+15	I	No	1 Yes, 2 No	1, 2, 3(+)	1
410103	SIT-11N/61W/+5	I	No	No	1, 2, 3(+)	1
411011 (2)	FEED-E/22/+47	A	No	No	1, 2, 3 (2)	2
411023	FEED-E/22/+34	A	No	No	1, 2, 3 (2)	2
411026	FEED-E.5/22/+31	A	No	No	1, 2, 3 (2)	2
411028	FEED-E.5/22/+34	A	No	No	1, 2, 3 (2)	2
412002	MS-4N/41W/+63	I	No	Yes	1, 2, 3	1
412003	MS-M.4/18.9/+55	A	No	No	1, 2, 3	1
412004	MS-E.5/20/+50	A	No	No	1, 2, 3	1
412013	FEED-7S/50E/+50	I	No	No	1, 2, 3	1
412015	FEED-10S/50W/+49	I	No	No	1, 2, 3	1

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TABLE 3.7-1a(Continued)

SAFETY RELATED HYDRAULIC SNUBBERS*

HANGER No. (1)	SYSTEM, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE** (Yes or No)	ESPECIALLY DIFFICULT TO REMOVE (Yes or No)	APPLICABLE MODES (3)	ACTION
412016 (2)	MS-M.4/20/+55	A	No	No	1, 2, 3	1
412018	FEED-3S/51W/+45	I	No	Yes	1, 2, 3	1
413009	MS-F.8/18.9/+55	A	No	No	1, 2, 3 (2)	2
413011 (2)	MS-E.5/18/+40	A	No	No	1, 2, 3 (2)	2
413018 (2)	MS-H.4/18.9/+55	A	No	No	1, 2, 3	1
413019 (2)	MS-E.5/17/+40	A	No	No	1, 2, 3 (2)	2
413022 (2)	MS-E/16/+41	A	No	No	1, 2, 3 (2)	2
413024 (2)	MS-E.5/17/+40	A	No	No	1, 2, 3 (2)	2
413025 (2)	MS-E.5/17/+40	A	No	No	1, 2, 3 (2)	2
413028	MS-K.7/18.9/+55	A	No	No	1, 2, 3	1
413029 (2)	MS-E.5/18.5/+48	A	No	No	1, 2, 3 (2)	2
413030 (2)	MS-E.5/18.5/+46	A	No	No	1, 2, 3 (2)	2
413031	MS-E.5/18.5/+47	A	No	No	1, 2, 3 (2)	2
413032 (2)	MS-E.5/19.6/+56	A	No	No	1, 2, 3	1
413041	MS-C/16/+44	A	No	No	1, 2, 3 (2)	2
413046 (2)	MS-E/16/+41	A	No	No	1, 2, 3 (2)	2
413081	MS-E.5/19/+46	A	No	No	1, 2, 3	1

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TABLE 3.7-1a (Continued)

SAFETY RELATED HYDRAULIC SNUBBERS*

HANGER No. (1)	SYSTEM, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE** (Yes or No)	ESPECIALLY DIFFICULT TO REMOVE (Yes or No)	APPLICABLE MODES (3)	ACTION
413082 (2)	MS-E.5/19/+46	A	No	No	1, 2, 3	1
413162	FEED-E/23/+64	A	No	No	1, 2, 3 (2)	2
413163	FEED-E.5/23/+64	A	No	No	1, 2, 3 (2)	2
413172	FEED-E.5/19/+49	A	No	No	1, 2, 3 (2)	2
413179	FEED-J.7/18.9/+50	A	No	No	1, 2, 3 (2)	2
413181	FEED-K.7/18.9/+50	A	No	No	1, 2, 3 (2)	2
413192 (2)	FEED-F.2/18.9/+50	A	No	No	1, 2, 3 (2)	2
413199 (2)	FEED-L.5/19.8/+50	A	No	No	1, 2, 3	1
416014 (2)	CS-8S/61E/+7	I	No	No	1, 2, 3(+)	1
416020	CS-23S/56E/+10	I	No	No	1, 2, 3(+)	1
416023 (2)	CS-30S/60W/+7	I	No	No	1, 2, 3(+)	1
416025	CS-18S/60W/+8	I	No	No	1, 2, 3(+)	1
416027	CS-5S/60W/+5	I	No	No	1, 2, 3(+)	1
427075	SW-L.5/17.2/-13	A	No	No	1, 2, 3, 4	1
427097 (2)	SW-L.5/17.2/-11	A	No	No	1, 2, 3, 4	1
427106	SW-L.5/17.2/-11	A	No	No	1, 2, 3, 4	1
450071	RBCCW-J.7/17.2/-13	A	No	No	1, 2, 3, 4	1

TABLE 3.7-1a (Continued)

SAFETY RELATED HYDRAULIC SNUBBERS*

MILLSTONE	HANGER No. (1)	SYSTEM, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE** (Yes or No)	ESPECIALLY DIFFICULT TO REMOVE (Yes or No)	APPLICABLE MODES (3)	ACTION
INIT 2	501022 (2)	HPSI-F.8/18.9/-29	A	Yes	Yes	1, 2, 3, 4	1
	502032	CS-E.5/19.6/+2	A	Yes	No	1, 2, 3(+)	1
	504002	HPSI-F.2/18.5/-42	A	Yes	No	1, 2, 3, 4	1
	504003	HPSI-F.2/17.2/-42	A	Yes	No	1, 2, 3, 4	1
	505166 (2)	RBCCW-J.7/17.2/-16	A	No	No	1, 2, 3, 4	1
	507004	HPSI-F.2/18.5/-42	A	Yes	No	1, 2, 3, 4	1
	510017	SIT-6N/47E/+15	I	No	No	1, 2, 3(+)	1
	510018	SIT-6N/47E/+15	I	No	No	1, 2, 3(+)	1
	513023 (2)	SG-K.6/19.6/-2	A	Yes	No	1, 2, 3	1
	513032	MS-E/19/+48	A	No	No	1, 2, 3 (?)	2
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	SS1-SS8 (8)	SG #2	I	Yes	Yes	1, 2, 3	1

Table Notation

* Snubbers may be added to or deleted from safety related systems without prior License Amendment to Table 3.7-1a provided that safety evaluations, documentation and reporting are provided in accordance with 10 CFR 50.59 and that a proposed revision to Table 3.7-1a is included with the next License Amendment Request.

** Modifications to this table due to changes in high radiation areas shall be submitted to the NRC as part of the next License Amendment request.

TABLE 3.7-1b

SAFETY RELATED MECHANICAL SNUBBERS*

HANGER NO. (1)	SYSTEM, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE** (Yes or No)	ESPECIALLY DIFFICULT TO REMOVE (Yes or No)	APPLICABLE MODES (3)	ACTION
60016	FW-E.0/23.0/39	A	No	No	1,2,3(2)	2
60017	FW-E.0/23.0/39	A	No	No	1,2,3(2)	2
60018	FW-E.0/23.0/39	A	No	No	1,2,3(2)	2
60025	FW-E.0/22.0/40	A	No	No	1,2,3(2)	2
60026	FW-E.0/20.0/33	A	No	No	1,2,3(2)	2
60245	RHV-18N/26E/59	I	Yes	No	1,2,3,4	1
60246	RHV-21N/26E/57	I	Yes	No	1,2,3,4	1
60247	RHV-18N/27E/59	I	Yes	No	1,2,3,4	1
60251	RHV-18S/2E/32	I	Yes	No	1,2,3,4	1
60253	RHV-18S/1W/30	I	Yes	No	1,2,3,4	1
302092	HPSI-F.2/18.9/-42	A	Yes	No	1,2,3,4	1
310022	SI-46S/22E/-3	I	No	No	1,2,3,4	1
401014	LPSI-E.5/16.8/-35	A	Yes	No	1,2,3(+),6	4
401016(2)	LPSI-E.5/16.8/-36	A	Yes	No	1,2,3(+),6	4
401018	HPSI-F.3/16.6/-34	A	Yes	No	1,2,3,4	1
401019(2)	HPSI-F.3/16.6/-30	A	Yes	No	1,2,3,4	1
401020(2)	HPSI-F.3/16.6/-28	A	Yes	No	1,2,3,4	1

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TABLE 3.7-1b

SAFETY RELATED MECHANICAL SNUBBS*

HANGER NO. (1)	SYSTEM, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE** (Yes or No)	ESPECIALLY DIFFICULT TO REMOVE (Yes or No)	APPLICABLE MODES (3)	ACTION
402008	SDC-F.2/18.9/-32	A	Yes	No	6	3
402120	SDC-F.2/18.9/-35	A	Yes	No	6	3
404020(2)	HPSI-E.5/18.4/-8	A	Yes	No	1,2,3,4	1
405647	RBCCW-M.4/16.6/9	A	No	No	1,2,3,4	1
408001	RCS-17N/27E/54	I	No	No	1,2,3,4	1
408002(2)	RCS-15N/29E/60	I	No	No	1,2,3,4	1
408003(2)	RCS-20N/29E/56	I	No	No	1,2,3,4	1
408004(2)	RCS-20N/29E/55	I	No	No	1,2,3,4	1
408005(2)	RCS-23N/29E/52	I	No	No	1,2,3,4	1
408009(3)	RCS-23N/30E/46	I	No	No	1,2,3,4	1
408010(4)	RCS-23N/20E/56	I	No	No	1,2,3,4	1
408011(2)	RCS-22N/21E/52	I	No	No	1,2,3,4	1
408012(2)	RCS-22N/21E/52	I	No	No	1,2,3,4	1
410007	SI-55S/50E/-10	I	Yes	No	1,2,3(+)	1
410037(2)	RCS-17N/38E/53	I	No	No	1,2,3,4	1
410040	RCS-17N/39E/52	I	No	No	1,2,3,4	1
410046	RCS-8N/19E/28	I	Yes	No	1,2,3,4	1

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TABLE 3.7-1b

SAFETY RELATED MECHANICAL SNUBBERS*

HANGER NO. (1)	SYSTEM, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE** (Yes or No)	ESPECIALLY DIFFICULT TO REMOVE (Yes or No)	APPLICABLE MODES (3)	ACTION
410049	RCS-8N/18E/15	I	Yes	No	1,2,3,4	1
410054	RCS-6N/18E/26	I	Yes	No	1,2,3,4	1
410059	RCS-24S/18E/22	I	Yes	No	1,2,3,4	1
410062(2)	SDC-18S/48W/-6	I	No	No	6	3
410092	SI-53S/33E/-6	I	No	No	1,2,3(+)	1
411003	FW-E.0/20.0/37	A	No	No	1,2,3(2)	2
411009(2)	FW-E.0/21.0/47	A	No	No	1,2,3(2)	2
411016	FW-E.0/22.0/36	A	No	No	1,2,3(2)	2
411030(2)	FW-E.5/23.0/50	A	No	No	1,2,3(2)	2
411031	FW-E.5/23.0/50	A	No	No	1,2,3(2)	2
411045(2)	FW-E.0/22.0/44	A	No	No	1,2,3(2)	2
411062(2)	FW-D.0/20.0/38	A	No	No	1,2,3(2)	2
413064(2)	MS-L.6/19.8/52	A	No	No	1,2,3	1
413132(2)	MS-L.6/18.9/52	A	No	No	1,2,3	1
413135(2)	MS-E.5/19.0/45	A	No	No	1,2,3	1
414001(2)	RCS-22N/20E/55	I	No	No	1,2,3,4	1
414002(2)	RCS-20N/20E/55	I	No	No	1,2,3,4	1

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TABLE 3.7-1b

SAFETY RELATED MECHANICAL SNUBBERS*

HANGER NO. (1)	SYSTEM, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE** (Yes or No)	ESPECIALLY DIFFICULT TO REMOVE (Yes or No)	APPLICABLE MODES (3)	ACTION
414006(2)	RCS-24N/20E/45	I	No	No	1,2,3,4	1
414009(2)	RCS-24N/30E/40	I	No	No	1,2,3,4	1
414016(2)	RCS-21N/31E/44	I	No	No	1,2,3,4	1
414018(2)	RCS-15N/30E/58	I	No	No	1,2,3,4	1
414021(2)	RCS-15N/31E/54	I	No	No	1,2,3,4	1
414024(2)	RCS-20N/31E/53	I	No	No	1,2,3,4	1
414025(2)	RCS-20N/31E/58	I	No	No	1,2,3,4	1
414027(2)	RCS-21N/30E/58	I	No	No	1,2,3,4	1
414029(4)	RCS-20N/33E/51	I	No	No	1,2,3,4	1
414032(2)	RCS-22N/33E/55	I	No	No	1,2,3,4	1
414033(2)	RCS-23N/32E/55	I	No	No	1,2,3,4	1
414035	RCS-25N/39E/29	I	Yes	No	1,2,3,4	1
416016(2)	CS-3S/63E/24	I	No	No	1,2,3(+)	1
416021	CS-43S/43W/7	I	No	No	1,2,3(+)	1
416022	CS-43S/43W/5	I	No	No	1,2,3(+)	1
416032(2)	CS-3N/62W/108	I	No	No	1,2,3(+)	1
427110	SW-L.5/15.9/5	A	No	No	1,2,3,4	1

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TABLE 3.7-1b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NO. (1)</u>	<u>SYSTEM, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>	<u>APPLICABLE MODES (3)</u>	<u>ACTION</u>
427111	SW-L.5/15.9/5	A	No	No	1,2,3,4	1
427115(2)	SW-L.5/15.9/-14	A	No	No	1,2,3,4	1
450058(2)	RBCCW-F.8/17.2/-34	A	Yes	No	1,2,3,4	1
501023(2)	CS-E.5/18.5/-41	A	Yes	No	1,2,3,4	1
501024	CS-E.5/18.5/-38	A	Yes	No	1,2,3,4	1
502024(2)	SDC-F.2/19.6/-9	A	Yes	No	6	3
502026	LPSI-F.2/19.6/-15	A	Yes	No	1,2,3(+),6	4
502035	LPSI-E.5/18.5/-37	A	Yes	No	1,2,3(+),6	4
505143	RBCCW-H.4/16.6/-13	A	No	No	1,2,3,4	1
507002	SI-34S/44E/17	I	No	No	1,2,3(+)	1
510004	SI-57S/21E/-10	I	No	No	1,2,3,4	1
512001	MS-E.5/20.0/43	A	No	No	1,2,3	1
512002	MS-M.4/18.9/60	A	No	No	1,2,3	1
512003	MS-E.5/20.0/40	A	No	No	1,2,3	1
513008	MS-L.5/18.9/44	A	No	No	1,2,3	2
513036	MS-K.7/18.9/45	A	No	No	1,2,3	2
513040	MS-L.5/18.9/47	A	No	No	1,2,3	2

TABLE 3.7-1b

SAFETY RELATED MECHANICAL SNUBBERS*

HANGER NO. (1)	SYSTEM, LOCATION AND ELEVATION	ACCESSIBLE OR INACCESSIBLE (A or I)	HIGH RADIATION ZONE** (Yes or No)	ESPECIALLY DIFFICULT TO REMOVE (Yes or No)	APPLICABLE MODES (3)	ACTION
513041	MS-K.6/19.6/-2	A	Yes	No	1, 2, 3	2
513042	MS-K.6/18.9/9	A	Yes	No	1, 2, 3	2
514001	RCS-18N/32E/29	I	No	No	1, 2, 3, 4	1
527071(2)	SW-L.5/16.6/-11	A	No	No	1, 2, 3, 4	1
527072(2)	SW-L.5/16.6/-11	A	No	No	1, 2, 3, 4	1
FSKM02022 D.P. 107	MS-4S/39E/10	I	No	No	1, 2, 3	2
FSKM02022 D.P. 109	MS-3N/39E/10	I	No	No	1, 2, 3	2
FSKM02023 D.P. 158	MS-25S/41E/18	I	No	No	1, 2, 3	2
FSKM02024 D.P. 23	MS-43S/30E/-10	I	Yes	No	1, 2, 3	2
FSKM02025 D.P. 125(2)	MS-31S/32W/-9	I	Yes	No	1, 2, 3	2
FSKM02026 D.P. 307	MS-29S/35W/23	I	Yes	No	1, 2, 3	2
FSKM02027 D.P. 190	MS-17S/32W/24	I	Yes	No	1, 2, 3	2
FSKM02030 D.P. 253	MS-6N/33W/-5	I	No	No	1, 2, 3	2

MILLSTONE - UNIT 2

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TABLE 3.7-1b

SAFETY RELATED MECHANICAL SNUBBERS*

<u>HANGER NO. (1)</u>	<u>SYSTEM, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>	<u>APPLICABLE MODES (3)</u>	<u>ACTION</u>
FSKM02097 D.P. 402	MS-2S/40E/10	I	No	No	1,2,3	2
FSKM15021 D.P. 781	HPSI-E.5/19.9/-3	A	No	No	1,2,3,4	1
FSKM15029 D.P. 537	HPSI-F.2/19.6/-3	A	No	No	1,2,3,4	1
FSKM17013 D.P. 38	CVCS-F.2/19.6/-12	A	Yes	No	1,2,3,4	1
FSKM17095 D.P. 34	CVCS-22S/19W/3	I	Yes	No	1,2,3,4	1
FSKM17095 D.P. 50-1	CVCS-22S/19W/6	I	Yes	No	1,2,3,4	1
FSKM17103 D.P. 411	CVCS-20S/25W/-11	I	Yes	No	1,2,3,4	1
FSKM17012 D.P. 152	CVCS-15S/18W/-6	I	Yes	No	1,2,3,4	1
SK-M-1016 D.P. 208	MS-K.6/19.6/-2	A	Yes	No	1,2,3	2
SK-M-1016 D.P. 215	MS-K.6/19.6/-2	A	Yes	No	1,2,3	2

Table Notation

*Snubbers may be added to or deleted from safety related systems without prior License Amendment to Table 3.7-1b provided that safety evaluations, documentation and reporting are provided in accordance with 10 CFR 50.59 and that a proposed revision to Table 3.7-1b is included with the next License Amendment Request.

** Modifications to this table due to changes in high radiation areas shall be submitted to the NRC as part of the next License Amendment request.

SAFETY RELATED SNUBBERS

Table Notation

- (1) The hanger number is listed. Where more than one snubber is associated with a given hanger, it is so indicated in parentheses.
- (2) Snubber operability is not required if the line containing the hanger is isolated from the SG.
- (3) If the associated facility is inoperable, snubber operability is not required.
- (4) Whenever irradiated fuel assemblies are in the storage pool.
- (+) With pressurizer pressure \geq 1750 psia.

ACTION Statements*

- ACTION 1** - Restore the inoperable snubber(s) to OPERABLE status within 72 hours or be in at least HOT STANDBY within the next 6 hours and in a MODE not requiring the snubbers to be OPERABLE within the following 30 hours.
- ACTION 2** - Restore the inoperable snubber(s) to OPERABLE status or isolate the line containing the hanger from the affected steam generator within 72 hours or be in at least HOT STANDBY within the next 6 hours and in a MODE not requiring the snubbers to be OPERABLE within the following 30 hours.
- ACTION 3** - Restore the inoperable snubber(s) to OPERABLE status within 72 hours or suspend all operations involving a reduction in boron concentration of the Reactor Coolant System.
- ACTION 4** - Complete ACTION Statement 1 if in MODES 1, 2 or 3(+) and ACTION Statement 3 if in MODE 6.
- ACTION 5** - Restore the inoperable snubber(s) to OPERABLE status within 72 hours or verify the temporary connection from the shutdown cooling heat exchangers is isolated. The provisions of Specification 3.03 are not applicable.
- ACTION 6** - Restore the inoperable snubber(s) to OPERABLE status within 72 hours or connect shutdown cooling to the spent fuel pool cooling system. The provisions of Specification 3.03 are not applicable.

*An engineering evaluation of systems or components supported by inoperable snubber(s) may be performed to declare the affected system operable.

TABLE 4.7-3

SNUBBER VISUAL INSPECTION SCHEDULE

<u>NUMBER OF SNUBBERS FOUND INOPERABLE DURING INSPECTION INTERVAL*</u>	<u>SUBSEQUENT VISUAL INSPECTION INTERVAL**#</u>
0	18 months ± 25%
1	12 months ± 25%
2	6 months ± 25%
3 or 4	124 days ± 25%
5, 6 or 7	62 days ± 25%
>8	31 days ± 25%

*Snubbers may be categorized into two groups: Mechanical and Hydraulic. Each group may be divided into two subgroups: those accessible and those inaccessible during reactor operation. Each group and subgroup may be inspected independently in accordance with the above schedule.

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

#The provisions of Specification 4.0.2 are not applicable.

PLANT SYSTEMS

3/4.7.8 SNUBBERS

BASES

3.4.7.8 SNUBBERS

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 the 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, 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.

PLANT SYSTEMS

3/4.7.8 SNUBBERS

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 reliability, a representative sample of the installed snubbers will be tested during plant shutdowns at eighteen (18) month intervals. Observed failures of these sample snubbers shall require testing of additional units.

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