



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

NORTHEAST NUCLEAR ENERGY COMPANY
THE CONNECTICUT LIGHT AND POWER COMPANY
THE WESTERN MASSACHUSETTS ELECTRIC COMPANY
DOCKET NO. 50-336
MILLSTONE NUCLEAR POWER STATION, UNIT NO. 2
AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 96
License No. DPR-65

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Northeast Nuclear Energy Company, et al. (the licensee) dated January 18, 1984 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

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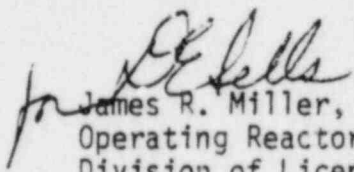
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-65 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 96, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective on the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION


James R. Miller, Chief
Operating Reactors Branch #3
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 2, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 96

FACILITY OPERATING LICENSE NO. DPR-65

DOCKET NO. 50-336

Remove and replace the following pages of the Appendix A Technical Specifications with the enclosed pages. The revised pages are identified by amendment number and contain vertical lines indicating the area of change. The corresponding overleaf pages are provided to maintain document completeness.

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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 verify: (1) that there are no visible indications of damage or impaired OPERABILITY and (2) attachments to the foundation or supporting structure are secure. Snubbers which appear inoperable as a result of visual inspections may be determined OPERABLE for the purpose of establishing the next visual inspection interval, provided that:

1. The cause of the rejection is clearly established and remedied for that particular snubber and for other snubbers irrespective of type that may be generically susceptible; and
2. The affected snubber is functionally tested in the as found condition and determined OPERABLE per Specifications 4.7.8.1.d or 4.7.8.1.e, as applicable.

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

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

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, except steam generator hydraulic snubbers 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 3.7.1-b 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" shall also be included in the representative sample.* 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.

All steam generator hydraulic snubbers shall be tested and refurbished every seven years or less in accordance with the preventative maintenance program, in lieu of the functional test requirements of this specification.

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.

*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.

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

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.

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 Functional Test Acceptance Criteria*

The mechanical snubber functional test shall verify that:

1. The force that initiates free movement of the snubber rod in either tension or compression is less than the specified maximum drag force.
2. Activation (restraining action) is achieved within the specified range of velocity or acceleration in both tension and compression.

f. Snubber Service Life Monitoring

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 6.10.2.h.

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 3.7-1a and 3.7-1b 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 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.

*Mechanical snubber functional test acceptance criteria shall become effective upon installation of snubber testing equipment but not later than June 30, 1985.

TABLE 3.7-1a

SAFETY RELATED HYDRAULIC SNUBBERS*

| MILLSTONE-UNIT 2 | HANGER NO. (1) | SYSTEM, LOCATION AND ELEVATION | ACCESSIBLE | HIGH | ESPECIALLY | APPLICABLE MODES (3) | ACTION |
|----------------------|----------------|--------------------------------|--------------------------|------------------------------|---------------------------------|----------------------|--------|
| | | | OR INACCESSIBLE (A or I) | RADIATION ZONE** (Yes or No) | DIFFICULT TO REMOVE (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 |
| 3/4 7-23 | 401008 | CS-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 |
| | 401106 | 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 |
| Amendment No. 17, 96 | 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) | CS-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 |

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) | SCD-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 |

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 |
|----------------|--------------------------------|-------------------------------------|-----------------------------------|--------------------------------------------|----------------------|--------|
| 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 |
| 411030 (2) | FW-E.5/23.0/50 | 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 |
| 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 |

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 |

MILLSTONE-UNIT 2

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Amendment No. 11, 96

TABLE 3.7-1a (Continued)

SAFETY RELATED HYDRAULIC SNUBBERS*

MILLSTONE-UNIT 2

3/4 7-27

Amendment No. 11, 58

| 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 |
| 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 |
| 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 |

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 |
|----------------|--------------------------------|-------------------------------------|-----------------------------------|--------------------------------------------|----------------------|--------|
| 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) | MS-K.6/19.6/-2 | A | Yes | No | 1, 2, 3 | 1 |
| 513032 | MS-E/19/+48 | A | No | No | 1, 2, 3(2) | 2 |
| SS1-SS8 (8) | SG #1 | I | Yes | Yes | 1, 2, 3 | 1 |
| SS1-SS8 (8) | SG #2 | I | Yes | Yes | 1, 2, 3 | 1 |

Table Notation

* Snubbers may be added or deleted without prior License Amendment to Table 3.7-1a provided that a revision to Table 3.7-1a is included with the next License Amendment request. In lieu of any other report required by Specification 6.9.1, at least 15 days prior to the deletion of any listed snubber, a Special Report shall be prepared and submitted to the Commission in accordance with Specification 6.9.2 evaluating the safety significance of the proposed snubber removal.

** Modifications to this column due to changes in high radiation areas may be made without prior License Amendment provided that a revision to Table 3.7-1a is included with the next License Amendment request.

TABLE 3.7-1b

SAFETY RELATED MECHANICAL SNUBBERS*

| MILLSTONE-UNIT 2 | HANGER NO. (1) | SYSTEM, LOCATION AND ELEVATION | ACCESSIBLE | HIGH | ESPECIALLY | APPLICABLE MODES (3) | ACTION |
|-----------------------|----------------|--------------------------------|--------------------------|------------------------------|---------------------------------|----------------------|--------|
| | | | OR INACCESSIBLE (A or I) | RADIATION ZONE** (Yes or No) | DIFFICULT TO REMOVE (Yes or No) | | |
| | 60017 | FW-E.0/23.0/39 | A | No | No | 1, 2, 3(2) | 2 |
| | 60245 | RHV-18N/26F/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 |
| 3/4 7-29 | 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 |
| Amendment No. 11, 5 6 | 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 |
| | 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 |

TABLE 3.7-1b (Continued)

SAFETY RELATED MECHANICAL SNUBBERS*

| MILLSTONE-UNIT 2 | HANGER NO. (1) | SYSTEM, LOCATION AND ELEVATION | ACCESSIBLE | HIGH | ESPECIALLY | APPLICABLE MODES (3) | ACTION |
|----------------------|----------------|--------------------------------|--------------------------|------------------------------|---------------------------------|----------------------|--------|
| | | | OR INACCESSIBLE (A or I) | RADIATION ZONE** (Yes or No) | DIFFICULT TO REMOVE (Yes or No) | | |
| | 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 |
| | 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 |
| 3/4 7-29a | 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 |
| | 410049 | RCS-8N/18E/15 | I | Yes | No | 1, 2, 3, 4 | 1 |
| Amendment No. 11, 96 | 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 |
| | 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 |

TABLE 3.7-1b (Continued)

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 |
|----------------|--------------------------------|-------------------------------------|-----------------------------------|--------------------------------------------|----------------------|--------|
| 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 |
| 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 |

MILLSTONE-UNIT 2

3/4 7-29b

Amendment No. 11, 56

TABLE 3.7-1b (Continued)

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 |
|----------------|--------------------------------|-------------------------------------|-----------------------------------|--------------------------------------------|----------------------|--------|
| 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 |
| 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 |

MILLSTONE-UNIT 2

3/4 7-29c

Amendment No. 11, 96

TABLE 3.7-1b (Continued)

SAFETY RELATED MECHANICAL SNIIBBERS*

| MILLSTONE-UNIT 2 | 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) | | |
| | 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 |
| | 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 |
| 3/4 7-29d | 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 |
| Amendment No. 77, 98 | 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 |

TABLE 3.7-1b (Continued)

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 |
|------------------------|--------------------------------|-------------------------------------|-----------------------------------|--------------------------------------------|----------------------|--------|
| 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 |
| 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 |
| FSKM32012 D.P. 152 | CVCS-15S/18W/-6 | I | Yes | No | 1, 2, 3, 4 | 1 |

MILLSTONE-UNIT 2

3/4 7-29e

Amendment No. 77, 9 6

TABLE 3.7-1b (Continued)

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 |
|-----------------------|--------------------------------|-------------------------------------|-----------------------------------|--------------------------------------------|----------------------|--------|
| 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 or deleted without prior License Amendment to Table 3.7-1b provided that a revision to Table 3.7-1b is included with the next License Amendment request. In lieu of any other report required by Specification 6.9.1. at least 15 days prior to the deletion of any listed snubber, a Special Report shall be prepared and submitted to the Commission in accordance with Specification 6.9.2 evaluating the safety significance of the proposed snubber removal.
- ** Modifications to this column due to changes in high radiation areas may be made without prior License Amendment provided that a revision to Table 3.7-1b is included with the next License Amendment request.

Tables 3.7-1a and 3.7.1b (Continued)

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 3.0.3 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 3.0.3 are not applicable.

*An engineering evaluation of systems or components supported by inoperable snubber(s) shall be performed per Specification 4.7.8.1.c within 72 hours for each ACTION.

#An engineering evaluation may be performed for the purposes of declaring the affected system operable with the inoperable snubber, provided a prompt report is submitted pursuant to Specification 6.9.1.8.i and the snubber is repaired at the next outage of sufficient duration prior to or during the next scheduled refueling.

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TABLE 4.7-3

SNUBBER VISUAL INSPECTION SCHEDULENUMBER OF SNUBBERS FOUND INOPERABLE
DURING INSPECTION INTERVAL*

0
1
2
3 or 4
5, 6 or 7
-
>8

SUBSEQUENT VISUAL INSPECTION
INTERVAL**#

18 months + 25%
12 months + 25%
6 months + 25%
124 days + 25%
62 days + 25%
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

BASES

3/4.7.7 SEALED SOURCE CONTAMINATION

The limitations on sealed source removable contamination ensure that the total body or individual organ irradiation does not exceed allowable limits in the event of ingestion or inhalation of the source material. The limitations on removable contamination for sources requiring leak testing, including alpha emitters, is based on 10 CFR 70.39(c) limits for plutonium. Leakage of sources excluded from the requirements of this specification represent less than one maximum permissible body burden for total body irradiation if the source material is inhaled or ingested.

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 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, 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. Due to the size and location of the steam generator hydraulic snubbers, regular removal and testing as specified for hydraulic and mechanical snubbers would represent a significant undertaking during each refueling outage. As such, these snubbers have been treated separately and are tested and refurbished as a group in accordance with the manufacturer's recommended preventative maintenance program.

PLANT SYSTEMS

BASES

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 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.

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.

3/4.7.9 FIRE SUPPRESSION SYSTEMS

The OPERABILITY of the fire suppression system ensures that adequate fire suppression capability is available to confine and extinguish fires occurring in any portion of the facility where safety related equipment is located. The fire suppression system consists of the water system, spray and/or sprinklers and fire hose stations. The collective capability of the fire suppression systems is adequate to minimize potential damage to safety related equipment and is a major element in the facility fire protection program.

In the event that portions of the fire suppression systems are inoperable, alternate backup fire fighting equipment is required to be made available in the affected areas until the inoperable equipment is restored to service.

PLANT SYSTEMS

BASES

In the event the fire suppression water system becomes inoperable, immediate corrective measures must be taken since this system provides the major fire suppression capability of the plant. The requirement for a twenty-four hour report to the Commission provides for prompt evaluation of the acceptability of the corrective measures to provide adequate fire suppression capability for the continued protection of the nuclear plant.

3/4.7.10 PENETRATION FIRE BARRIERS

The functional integrity of the penetration fire barriers ensures that fires will be confined or adequately retarded from spreading to adjacent portions of the facility. This design feature minimizes the possibility of a single fire rapidly involving several areas of the facility prior to detection and extinguishment. The penetration fire barriers are a passive element in the facility fire protection program and are subject to periodic inspections.

During periods of time when the barriers are not functional, a continuous fire watch is required to be maintained in the vicinity of the affected barrier until the barrier is restored to functional status.