MOISTHEAST UTILITIES



P.O. BOX 270 HARTFORD, CONNECTICUT 06101 (203) 666-6911

72



February 19, 1981

Docket Nos. 50-213 50-245 50-336 A01531

Mr. Boyce H. Grier, Director Region I Office of Inspection and Enforcement U. S. Nuclear Regulatory Commission 631 Park Avenue King of Prussia, PA 19406

- References: (1) B. H. Grier letter to W. G. Counsil, dated January 27, 1981, transmitting I&E Bulletin No. 81-01.
 - (2) D. G. Eisenhut letter to All Power Reactor Licensees (except SEP licensees), dated November 20, 1980.

Gentlemen:

Maddam Neck Plant Millstone Nuclear Power Station, Unit Nos. 1 and 2 I&E Bulletin No. 81-01, Mechanical Snubbers

In Reference (1), the NRC Staff provided the Connecticut Yankee Atomic Power Company (CYAPCO) and Northeast Nuclear Energy Company (NNECO) with a description of failures of mechanical snubbers supplied by International Nuclear Safeguards Corporation (INC) and Pacific Scientific Company. As described in Reference (1), the failures are caused by oxidation of the snubber internals resulting in a frozen condition preventing normal operation. Reference (1) requested that CYAPCO and NNECO take certain actions to determine the condition of the mechanical snubbers, specifically those manufactured by INC, at the Haddam Neck Plant and Millstone Unit Nos. 1 and 2.

In addition to Reference (1), the NRC Staff had previously requested NNECO to propose Technical Specifications for the inservice inspection of mechanical snubbers at Millstone Unit No. 2. This request was forwarded to NNECO in Reference (2) and was indicated to be not applicable to the SEP plants. The model Technical Specifications included in Reference (2) include provisions for visual and manual testing very nearly identical to that of the Reference (1) Bulletin.

810402033

CYAPCO and NNECO intend to utilize certain aspects of the visual and manual inspections described in Reference (2) to respond to the requirements of Reference (1). The approach which CYAPCO and NNECO are pursuing to fully and adequately respond to the Reference (1) requests is discussed below:

 The visual inspections of the INC mechanical snubbers as well as mechanical snubbers manufactured by other vendors required by Item 1a, 2a, and 3b of Reference (1) will be conducted. In addition, the visual examinations will verify the following:

that there are no visible indications of damage or impaired operability

attachments to the foundation or supporting structure are secure

 Manual inspection to verify snubber freedom of movement required by Items 1a, 2a, and 3b will be conducted. NNECO and CYAPCO have determined that the intent of the manual test required by the Bulletin can be satisfied through the performance of a "twist" test.

A twist test is accomplished by rotating the variable length strut of the snubber unit through a small angle with respect to the snubber unit (see attached figure). Successful completion of such a twisting motion demonstrates that the snubber internals are not frozen and are free to move as designed.

Performance of the twist test does not require removal of the snubber from the system, and, therefore, no Technical Specification Action Statements are invoked. By avoiding Technical Specification Action Statements as well as performing the testing on snubbers in-situ, expeditious completion of the manual testing required by Reference (1) is facilitated.

Based on our engineering evaluations and discussions with Staff members from both the NEC Office of Nuclear Reactor Regulations and Inspection and Enforcement, CYAPCO and NNECO conclude that the twist test satisfies the intent of the manual testing required by Reference (1).

In the event movement cannot be induced in a mechanical snubber with a twist test, CYAPCO and NNECO intend to perform a stroke test in place for that particular snubber to ensure operability.

3. CYAPCO and NNECO have determined that it will not be possible to comply with the operability testing requirements of Item 1b of Reference (1) for the accessible INC mechanical snubbers at the Haddam Neck Plant and Millstone Unit No. 2. The operability testing required by Item 1b of Reference (1) requires removal of the snubbers from the system and sending them off-site for testing.

It is estimated that this process would take approximately three to four weeks to complete.

As the Haddam Neck Plant and Millstone Unit No. 2 are currently in Mode 1, the operability testing on the accessible snubbers cannot be completed within the constraints of Technical Specification Action Statements. As such, CYAPCO and NNECO only intend to perform operability tests on those INC mechanical snubbers currently in storage at the Haddam Neck Plant and Millstone Unit No. 2, at this time.

Operability testing of the required representative sample of the accessible INC mechanical snubbers will be performed during the first outage of greater than thirty (30) days duration, and no later than the next refueling outage.

Operability testing of a representative sample of inaccessible INC mechanical snubbers will be completed prior to start-up from the next scheduled refueling outage for both the Haddam Neck Plant and Millstone Unit No. 2 unless inspections of inaccessible snubbers are dictated as a result of the accessible snubber inspections.

In summary, the following actions will be undertaken by CYAPCO and NNECO to respond to I&E Bulletin No. 81-01 for the Haddam Neck Plant and Millstone Unit Nos. 1 and 2:

Haddam Neck Plant - Millstone Unit No. 2

Item la

A visual and manual inspection program will be performed as described above within thirty days of the date of issuance of Reference (1).

Item 1b

Operability testing will be performed on all INC mechanical snubbers in storage. Operability testing on a representative sample of accessible INC mechanical snubbers will be completed during the first outage of greater than thirty (30) days duration. Operability tests on the snubbers in storage will not be completed within the time constraints of Item 1 of Reference (1). NNECO will provide the results of the operability tests on the snubbers in storage when they become available.

Item 2a

A visual and manual inspection program will be conducted on all inaccessible INC mechanical snubbers during an outage of greater than thirty (30) days duration.

Item 2b

Operability testing of a representative sample of inaccessible INC mechanical snubbers will be completed prior to start-up from the next scheduled refueling outage.

Item 3

Visual and manual inspections, as described above, of mechanical snubbers produced by other manufacturers will be completed prior to start-up from the next refueling outage for the Haddam Neck Plant. Future inspections of all snubbers at Millstone Unit No. 2 will be conducted in accordance with the Technical Specifications to be proposed in fulfillment of the Reference (2) request.

Millstone Unit No. 1

The following actions will be completed at Millstone Unit No. 1 prior to start-up from the current refueling outage.

Item 1a, 2a, 3b

A visual inspection and manual stroke test in place of all mechanical snubbers except those which have been examined and tested pursuant to Items 1c, 2c, and 3c of Reference (1).

Item 1b, 2b

Operability testing, as described in Reference (1), of a representative sample of INC mechanical snubbers from both accessible and inaccessible locations.

CYAPCO and NNECO have determined that the approach outlined above is prudent and responsive to the requirements of I&E Bulletin No. 81-01. We respectfully request concurrance with the program described herein, such that the effort to respond can begin and proceed expeditiously.

Our Staff remains available to discuss any of the aspects of the mechanical snubber inspection program described herein.

Very truly yours,

CONNECTIONT MANKEE ATOMIC POWER COMPANY NORTHEAST NUCLEAR ENERGY COMAPNY

W. G. Counsil Senior Vice President

W. F. Fee Executive Vice President



1

. .

TYPICAL SECTION

. .

2.1