

0230

**NORTHEAST UTILITIES**



THE CONNECTICUT LIGHT AND POWER COMPANY  
WESTERN MASSACHUSETTS LIGHTING COMPANY  
NEW ENGLAND WATER POWER COMPANY  
NORTHEAST UTILITIES SERVICE COMPANY  
NORTHEAST UTILITIES GAS SERVICE COMPANY

General Offices • Seiden Street, Berlin, Connecticut

P.O. BOX 270  
HARTFORD, CONNECTICUT 06141-0270  
(203) 665-5000

*Letter  
Ray F.*

December 11, 1991

Docket No. 50-336  
A09945

Re: Employee Concerns

Mr. Charles W. Hehl, Director  
Division of Reactor Projects  
U.S. Nuclear Regulatory Commission  
Region I  
475 Allendale Road  
King of Prussia, PA 19406

Dear Mr. Hehl:

Millstone Nuclear Power Station, Unit No. 2  
RI-91-A-0238

We have completed our review of identified issues concerning activities at Millstone Station. As requested in your transmittal letter of October 16, 1991, our responses do not contain any personal privacy, proprietary, or safeguards information. The material contained in these responses may be released to the public and placed in the NRC Public Document Room at your discretion. The NRC transmittal letter and our responses have received controlled and limited distribution on a "need-to-know" basis during the preparation of these responses. An additional two weeks in which to respond to these issues was granted in a telephone conversation with the Region I Staff on November 25, 1991.

**ISSUE 04:**

"On or about August 29, 1991, surveillance SP 2404AW for the RBCCW liquid radiation monitor RM-6038 could not be performed as written due to procedure/data sheet conflicts. More important, the calculated detector sensitivity and its linearity value were out of tolerance, as were seven other monitor channels."

**REQUEST:**

"Please discuss the validity of the above assertion, and actions taken to correct any deficiencies. If deficiencies are found to be of a generic nature, please notify us of the corrective actions you have taken to prevent recurrence. Please provide us with an assessment of the safety significance of any identified deficiencies."

**RESPONSE:**

This assertion is correct. We were made aware of the concern at the time the calibration was attempted when an Instrumentation and Controls (I&C) techni-

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Mr. Charles W. Hehl  
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cian identified problems in performing the surveillance as it was written. The procedure was revised to address the concerns of the individual and, following consultation with our Radiological Assessment Branch (RAB), a detector response linearity specification was removed from the data sheet. The calibration was successfully completed using the revised procedure and data sheet.

The calibration at issue uses three sources (designated 'A', 'B' and 'C') in the course of a calibration. Additional review following successful completion of the surveillance concluded that the 'B' source used in the calibration was weak enough to have resulted in the abnormal responses noted during the calibration. The Chemistry Department has since manufactured a new Cesium 137 source at the request of the I&C Department.

A second issue involved sensitivity and linearity abnormalities found during the calibration. As specified in Revision 2 of SP 2404AW, the I&C Supervisor and an RAB scientist were contacted for review of these calibration abnormalities. The supervisor and scientist concurred that the sensitivity calculation (on the 'B' test source) was not of concern, and the linearity value, while out of the desired range, did not invalidate the calibration and was acceptable as is.

There are no significant safety or generic concerns associated with these issues in that the techniques and procedures employed resulted in valid calibrations and fully functional equipment.

#### ISSUE 05:

"There appeared to be no acceptance criteria for Procedure 2404AW, Revision 2, although Revisions 0 and 1 had acceptance criteria. The review process did not identify this omission."

#### REQUEST:

"Please discuss the validity of the above assertion, and actions taken to correct any deficiencies. If deficiencies are found to be of a generic nature, please notify us of the corrective actions you have taken to prevent recurrence. Please provide us with an assessment of the safety significance of any identified deficiencies."

#### RESPONSE:

Acceptance criteria were present on the data sheet, but the words "Acceptance Criteria" were omitted. The surveillance procedure at issue (SP 2404AW) was revised as part of the procedure upgrade process in the Millstone Unit No. 2 I&C Department. During the upgrade, the data sheets were retyped and the 'Acceptance Criteria' notation and asterisk contained in Revision 1 were inadvertently omitted from Revision 2. The designation of required values and tolerances was present on the revised data sheet, but the acceptance designation indicators were not. The person responsible for the procedure and an independent reviewer did not find the error during the review process.

Mr. Charles W. Hehl  
A09945/Page 3  
December 11, 1991

When we were informed of this concern during performance of the surveillance in August 1991, the work was stopped and the procedure and data sheets were revised. The surveillance was successfully completed using the revised documents.

We find no safety significance to this omission since all of the required data, tolerances, and procedural steps were intact, and the data sheet would not have been accepted by the Operations Department had the procedure been completed with out-of-specification readings.

There is a potential for generic concern in that the independent and owner reviews of a procedure missed an important characteristic. A review within the I&C Department of all existing radiation monitor Technical Specification-required procedures has found that Acceptance Criteria are present on all associated data sheets. This review indicates that this specific problem is isolated. As a local action to prevent recurrence, the department manager and supervisors will be conducting training of all department personnel to stress the importance of thorough reviews at every step of the procedure revision process.

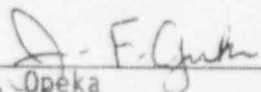
As an offshoot of our continuing procedure upgrade process, staffing is under way for a broad-based action to address the generic issue of procedure adequacy. Initiated by the Station Director, the Procedure Upgrade Project will ensure that procedures undergo a thorough review as well as a validation and verification process prior to being submitted for approval by the appropriate operating review committee.

After our review and evaluation of these issues, we find that these issues did not present any indication of a compromise of nuclear safety.

We appreciate the opportunity to respond and explain the basis of our actions. Please contact my staff if there are further questions on any of these matters.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

  
\_\_\_\_\_  
J. F. Opeka  
Executive Vice President

cc: W. J. Raymond, Senior Resident Inspector, Millstone Unit Nos. 1, 2, and 3  
E. C. Wenzinger, Chief, Project Branch No. 4, Division of Reactor Projects  
E. M. Kelly, Chief, Reactor Projects Section 4A  
J. T. Shedlosky, U.S. Nuclear Regulatory Commission, Millstone

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ENCLOSURE

*Issue 238-04*

On or about August 29, 1991, surveillance SP 2404AW for the RBCCW liquid radiation monitor RM-6038 could not be performed as written due to procedure/data sheet conflicts. More important, the calculated detector sensitivity and its linearity value were out of tolerance, as were seven other monitor channels.

*Issue 238-05*

There appeared to be no acceptance criteria for Procedure 2404AW, Revision 2, although Revisions 0 and 1 had acceptance criteria. The review process did not identify this omission.

*Request*

Please discuss the validity of the above assertions, and actions taken to correct any deficiencies. If deficiencies are found to be of a generic nature, please notify us of the corrective actions you have taken to prevent recurrence. Please provide us with an assessment of the safety significance of any identified deficiencies.

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## ALLEGATION RECEIPT REPORT

Date/Time

Received: APRIL 4, 1992  
1100Allegation No. RI-91-A-0238 (update)  
(leave blank)

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

## Confidentiality:

Was it requested?

Yes ☐ No ☐

Was it initially granted?

Yes ☐ No ☐

Was it finally granted by the allegation panel

Yes ☐ No ☐Does a confidentiality agreement need to be sent  
to allegor?Yes ☐ No ☐

Has a confidentiality agreement been signed?

Yes ☐ No ☐

Memo documenting why it was granted is attached?

Yes ☐ No ☐

Allegor's

Employer: NORTHEASTPosition/Title: ENGINEERINGUTILITIESSUPERVISORFacility: MILSTONE UNIT 2Docket No.: 50-356(Allegation Summary (brief description of concern(s): NRC ANALYSIS  
OF IN-CORE NUCLEAR INSTRUMENT  
SURVEILLANCE WAS IN ERRORNumber of Concerns: 1

Employee Receiving Allegation: \_\_\_\_\_

(first two initials and last name)

Type of Regulated Activity (a) ☒ Reactor  
(b) ☐ Vendor  
(c) ☐ Materials(d) ☐ Safeguards  
(e) ☐ Other: \_\_\_\_\_  
(Specify)

Materials License No. (if applicable): \_\_\_\_\_

Functional Area(s): ☒ (a) Operations  
☐ (b) Construction  
☐ (c) Safeguards  
☐ (d) Transportation☐ (e) Emergency Preparedness  
☐ (f) On-site Health and Safety  
☐ (g) Offsite Health and Safety  
☐ (h) Other: \_\_\_\_\_

5/16/92

Page 1 of 2

Detailed Description of Allegation: Alleger STATED  
THAT A RECENT NORTHEAST UTILITIES  
REVIEW OF THE MILLSTONE UNIT 2 IN-POLE  
INSTRUMENT REVEALED TECHNICAL DEFICIENCIES  
WITHIN THE METHODS USED FOR SURVEILLANCE  
TESTING. Alleger WAS NOT AWARE  
OF THE SPECIFIC NATURE OF THESE  
DEFICIENCIES.

Alleger WAS AWARE OF AN NRC  
REVIEW, DOCUMENTED WITHIN A RESIDENT  
REPORT WHICH ADDRESSED THE SAME ISSUES.  
THESE WERE ADDRESSED IN RESPONSE TO  
AN ALLEGATION. Alleger STATED  
THAT THE NRC REVIEW WHICH ~~THE~~ DID  
NOT IDENTIFY TECHNICAL DEFICIENCIES,  
WAS IN ERROR.

RECORD OF ALLEGATION PANEL DECISIONS

SITE: Millsstone PANEL ATTENDEES:  
ALLEGATION NO.: RI-91-A-0238 Chairman - Shankman  
DATE: 8 APR 92 (Panel No. 1 2 3 4 (5)) Branch Chief -  
PRIORITY: High Medium (Low) Section Chief (AOC) - Kelly  
SAFETY SIGNIFICANCE: Yes (No) Unkn Sr. Allegation Coord (SAC) Fuhrmeister  
CONCURRENCE TO CLOSEOUT: ~~DD~~ ~~BC~~ ~~SG~~ OI Representative -  
CONFIDENTIALITY GRANTED: Yes (No) (Other) Bankley, Trapp, Shadlosky (r)  
(See Allegation Receipt Report)  
IS THERE A HARASSMENT/DISCRIMINATION ISSUE: Yes (No)  
IF YES,  
1) has the individual been informed of the DOL process and the need to file a complaint within 30 days Yes No  
2) has the individual filed a complaint with DOL Yes No  
3) has a letter been sent to the complainant seeking any safety concerns Yes No  
IS A CHILLING EFFECT LETTER WARRANTED: Yes No  
IF YES, HAS IT BEEN SENT Yes No  
HAS THE LICENSEE RESPONDED TO THE CHILLING EFFECT LETTER: Yes No  
ACTION: provided in last letter. RESP ECD

2) Send TIA response and IR writeup to DEP 30 APR 92  
allegor, ask for feedback on what the problems  
with it are

3) \_\_\_\_\_  
4) \_\_\_\_\_  
5) \_\_\_\_\_

NOTES: no new information provided, no need to reopen  
the file

5/16/92



# 0241

MEMO

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NE-83-R-178  
September 26, 1983

TO: E. J. Hrocza  
Station Superintendent, Millstone

FROM: M. V. Bonaca *Mario V. Bonaca*  
Systems Manager, Reactor Engineering

SUBJECT: Emergency Core Cooling System Operability Requirements

REFERENCE: M. S. Kai memo NE-83-SAB-145 (Rev. 2) to S. E. Scace dated 9/19/83

The MUSCO Safety Analysis Branch Transient Analysis and LOCA Sections have reviewed existing requirements for Emergency Core Cooling System (ECCS) operability during all modes of plant operation. This review was conducted for the three Millstone units and Connecticut Yankee. Based on this evaluation, current technical specification requirements for the Millstone units are considered adequate with a few exceptions. These items are summarized below for each plant and are addressed in detail in the referenced memo (attached). The purpose of this memo is to forward recommended changes to NNECO that will resolve the concerns that have been raised. The recommended changes should have no significant impact on plant operation. It is requested that NNECO provide a response by December 31, 1983, addressing disposition of these concerns. For clarification or amplification of the concerns and recommendations, please contact S. E. Scace (X5544).

#### Millstone 1

The existing technical specifications allow operation with both core spray systems inoperable for up to 7 days. This time period is not consistent with current standard technical specification action statements and should be reduced. Although there is another low pressure ECCS system (LPCI), no time period of any length is currently justifiable with no core spray systems operable. Further, use of the core spray system has been assumed in the post-accident hydrogen control evaluation that was used to justify not installing hydrogen recombiners in Millstone 1. Therefore, it is recommended that specification 3.5.A.3 be eliminated.

5/168



NEUMAN

## Millstone 2

Millstone 2 Technical Specifications governing ECCS equipment availability are modeled after the Combustion Engineering standard technical specifications (CE STS). As such, there are no requirements to maintain Low Pressure Safety Injection (LPSI) or Safety Injection Tank (SIT) operability below 1750 PSIA in Modes 3-4. There is a requirement to maintain operability of one High Pressure Safety Injection (HPSI) pump during the above plant conditions.

The reference memo points out that ECCS equipment requirements to mitigate a LOCA is dependent upon decay heat, system pressure and break flow rate. For certain LOCA break sizes, HPSI alone will not be sufficient to provide core protection, even at pressures below 1750 PSIA. Consequently, it is prudent to assure availability of low pressure safety injection (both LPSI and SIT) during operating conditions below 1750 PSIA.

Since the Millstone 2 LPSI system is utilized for shutdown cooling, it is necessary to make the LPSI system inoperable below 1750 PSIA to align it to the shutdown cooling mode, equalize boron in the piping, and heat the system prior to initiation. Therefore, the LPSI system cannot be maintained fully "operable" in terms of the strict technical specification definition. However, availability of a LPSI Pump and shutdown cooling heat exchanger for post-accident long term cooling is considered essential. In addition, SIT's should not be isolated until well below 1750 PSIA. 600 PSIA is recommended to provide protection but still give margin for isolation to preclude inadvertent discharge into the reactor coolant system. This will provide the necessary ECCS equipment availability in Modes 3 (<1750 PSIA) and 4.

Specifically, additions recommended for ECCS equipment availability are as follows:

1. Mode 3 (<1750 PSIA), Mode 4  
One LPSI pump, one shutdown cooling heat exchanger, and a flow path from the RWST available with the capability of manual injection to the RCS.
2. Mode 3,4 ( $600 < P < 1750$  PSIA)  
All SIT's available



NE-572474

It is recommended that these changes be implemented administratively (incorporate into operating procedures) rather than by a change to the technical specifications at this time. Since the changes recommended above provide additional equipment availability requirements beyond the CE STS, the MUSCO Safety Analysis Branch will discuss ECCS equipment availability in Modes 3 and 4 with CE. A recommendation (if any) on possible technical specification changes will follow resolution of this item with CE.

### Millstone 3

The Millstone 3 technical specifications will be based on the Westinghouse standard technical specifications. Since the Westinghouse STS have requirements for availability of a RHR Pump and heat exchanger in Modes 3 and 4 (RHR is equivalent to shutdown cooling), and requires operability of SIT's for RCS pressure >1000 PSIA, the concerns discussed above for Millstone 2 are adequately addressed for Millstone 3. No changes are therefore recommended.

SES/MVB/kkv

attachment

cc:	R. T. Harris	w/o
	S. E. Scace	w/o
	J. A. Blaisdell	w/o
	L. W. Ward	w/o
	M. S. Kai	w/o
	M. P. Hills	w/o
	J. F. Opeka	w/o
	J. J. Kelley	
	W. V. Romberg	

DATE: 10-2-83 CONTROLLED ROUTING - ACTION REQUIRED NUMBER: 5127  
 TITLE: ECCS Openability Requirements

ACTION AS- SIGNAL TO	ACT. PRIOR. CODE CODE	DATE	COMMENTS
F.D.R.	1 B	12-20-83	
J.J.R.	1 B	12-20-83	
J.O.C.	info		
J.J.R.			
S.H.R.			
S.J.G.			
S.C.L.			
F.D.D.	LED		

1. Take appropriate action and prepare written reply to General for your signature.
2. Take appropriate action and provide written reply to me.
3. Review, take appropriate action and provide required information to (\*) assigned person.
4. Consolidate comments, take appropriate action and prepare written reply to \_\_\_\_\_ for \_\_\_\_\_ signature.
5. Follow project to completion. Provide timely progress report.
6. Review document and incorporate into appropriate station/unit procedures.
7. Letter/Memo to \_\_\_\_\_ for \_\_\_\_\_ signature requesting reply in writing within \_\_\_\_\_ days addressing:
  - a.) Cause of problem.
  - b.) Corrective action taken to correct problem.
  - c.) Corrective action taken to prevent recurrence of problem.
  - d.) Completion dates for items b) a-d c).
8. Milestone person preparing response should establish contact with WUSCo Nuclear Operations and IT (if common assignment) personnel promptly. Work together to minimize difference between units and stations.
9. Review for applicability to your unit or area of responsibility.

INSTRUCTIONS:

#### PRIORITY CODE LISTING - CP'S

PRIORITY CODE	ASSIGNMENT CRITERIA	DATE CHANGE	EXTENSION OR'd BY	CLOSURE OR'd BY
A	Highest Priority - Normally assigned to items associated with immediate personnel or nuclear safety, or items that <u>must</u> be accomplished by due date.	Extensions usually cannot be granted for these items.	SS	SS
B	High Priority - Normally assigned to items associated with a high likelihood of affecting plant reliability, audits (CA, SHRB, ANI, INPO, NRC, etc.), NRC's regulatory bodies, items where immediate cost savings may be achievable or long term personnel nuclear safety items.	Very reluctant to grant extensions. Any request for extensions should be via a CP Activity Sheet plus a typed formal memo to the originating authority for the Station Superintendent's signature stating reasons and a new proposed completion date.	SS	SS
C	Normal Priority - Station Superintendent discretionary items.	Extensions granted via normal CP Activity Sheet.	SS	SS
D	Lower Priority - Station Superintendent discretionary items.	Extensions granted via normal CP Activity Sheet.	SSS/US (*)	SS
E	Routine - Items that are of a routine nature.	Extensions granted via normal CP Activity Sheet.	SSS/US (*)	SSS/US (*)
F	Tracking item only.	Extensions granted via normal CP Activity Sheet.	SSS/US (*)	SSS/US (*)

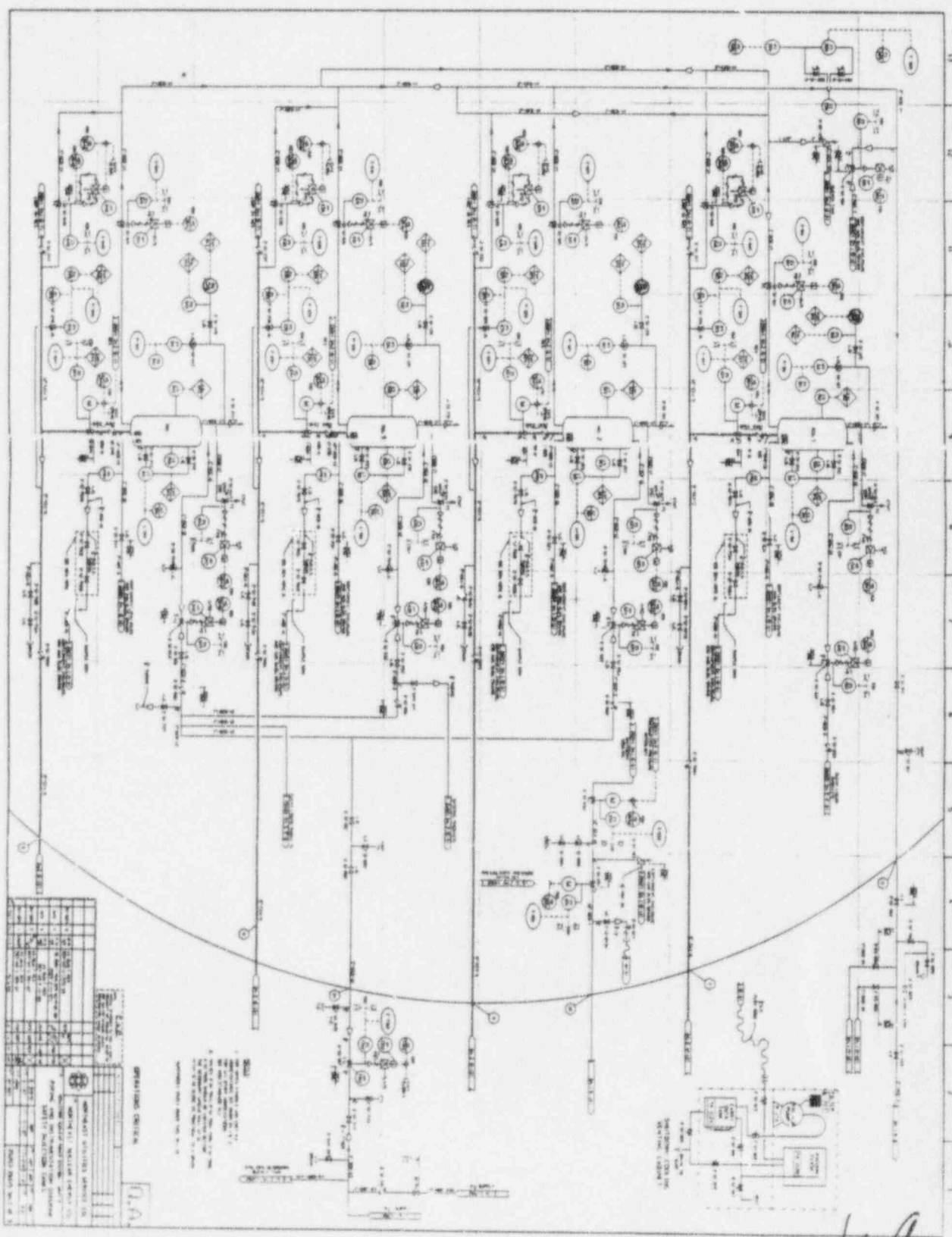
(\*) Unless directed otherwise by the Station Superintendent.

SS: Station Superintendent, SSS: Station Services Superintendent, US: Unit Superintendent

Revised May 1983

#0241

143



5/16/90

SAMPLE RECORD OF ALLEGATION PANEL DECISIONS

SITE: Millsboro

ALLEGATION NO.: R2-91-A-0291

DATE: 11 SEP 91 (Panel No. 1 2 3 4 5)

PRIORITY: High Medium Low

SAFETY SIGNIFICANCE: Yes No Unkn

CONCURRENCE

TO CLOSEOUT: DD BC SC

CONFIDENTIALITY GRANTED: Yes No

(See Allegation Receipt Report)

IS THERE A HARASSMENT/DISCRIMINATION

ISSUE:

Yes No

IF YES,

1) has the individual been informed of the DOL  
process and the need to file a complaint within 30 days

Yes No

2) has the individual filed a complaint  
with DOL

Yes No

3) has a letter been sent to the complainant seeking  
any safety concerns

Yes No

IS A CHILLING EFFECT LETTER WARRANTED:

Yes No

IF YES, HAS IT BEEN SENT

Yes No

HAS THE LICENSEE RESPONDED TO THE CHILLING  
EFFECT LETTER:

Yes No

ACTION:

1) Turnover to licensee, since already working on issue

2) Inspect residents to determine if switches perform any  
safety function

3) \_\_\_\_\_

4) \_\_\_\_\_

5) \_\_\_\_\_

NOTES: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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PANEL ATTENDEES:

Chairman - Hehl

Branch Chief - \_\_\_\_\_

Section Chief (AOC) - Kelly

Sr. Allegation Coord (SAC) Fuhrmeister

OI Representative - \_\_\_\_\_

(Other) Shedlosky (T) Anderson

Ronovan (026) Irish (026)



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ENCLOSURE

File No. RI-91-A-0241:

It was alleged that there were several problems associated with the Safety Injection Tank pressure switches, PS-313, PS-323, PS-333, PS-343, presently installed at Millstone Unit 2.

- (1) The pressure switches are the wrong range.
- (2) Millstone Unit 2 does not have the correct vendor technical manual for the pressure switches presently installed.
- (3) A customer assistant for the manufacturer of the pressure switches stated that the pressure switches were not designed for nuclear application.
- (4) The temperature range indicated on the existing vendor technical manual is -30° to +160°, which does not appear to be a proper range for equipment installed inside containment on the Safety Injection Tank.
- (5) A customer assistant for the manufacturer of the pressure switches stated that the pressure switches would not operate correctly outside their proper operating range, which was stated to be 60 to 225 PSIG. The pressure switches installed in Millstone Unit 2 have a trip set point of 245 PSIG, which is outside this operating range.

Request:

Please provide your review of the above issues. If the above information is valid, notify us of the corrective actions you have taken to prevent reoccurrence. Also, provide us with an assessment of the safety significance of any identified deficiencies, including generic considerations.

Enclosure Page 1

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ALLEGATION MANAGEMENT SYSTEM

ALLEGATION NUMBER - RI-91-A-0241

RUN DATE: 10/17/91

DOCKET/FACILITY/UNIT: 05000336 / MILLSTONE 2

/ 2  
/  
/  
/

DOCKET/FACILITY/UNIT: /

DOCKET/FACILITY/UNIT: /

DOCKET/FACILITY/UNIT: /

ACTIVITY TYPES - REACTOR

MATERIAL LICENSES -

FUNCTIONAL AREAS - OPERATIONS

DESCRIPTION - NUMEROUS PROBLEMS EXIST WITH SIT PRESSURE SWITCHES: RANGE  
IS WRONG, INCORRECT TECH MANUAL, MANUFACTURER SAYS NOT FOR  
NUCLEAR APPLICATIONS, WRONG TEMPERATURE RATING, VENDOR SAYS  
CONCERNS - WON'T CORRECTLY AT SET PRESSURE

5

SOURCE - LICENSEE EMPLOYEE

CONFIDENT - NO

RECEIVED - 910906 BY - DA DEMPSEY

/ RI

ACTION OFFICE CONTACT - EM KELLY

- (FTS)346-5183

SAFETY SIGNIFICANCE - NO

BOARD NOTIFICATION - NO

STATUS - OPEN

SCHED COMPLETION - 920430

DATE CLOSED -

ALLEGATION SUBSTANTIATED -

ALLEGER NOTIFIED -

OI ACTION - OI REPORT NUMBER -

REMARKS - RECEIVED IN RESIDENT OFFICE VIA MEMORANDA. PANELED 11SEP91.

SUPPORT OFFICE: RPS-4A

ACTION PENDING: REFER TO LICENSEE (DRP)

DOCUMENTATION:

ALLEGER LAST CONTACTED: 11SEP91

REFERENCE:

KEYWORD: SIT, PRESSURE SWITCH

ENTERED SYSTEM - 910919 CLOSED SYSTEM -

RECORD CHANGED - 910919

9/17/

1141  
from the desk of

GENE KELLY

1/28/92

FILE: 81-A-241

Although originally intended by the  
Allegston Panel on 8/11/91 to be  
refined (by letter) to NCI, this  
issue was not sent in writing.

However, it was verbally discussed  
with NCI representatives, who had  
been working with the concern  
prior to NRC's receipt of the  
allegation on 8/6/91.

Per a discussion with Bill Hehl  
(OHL Div. Dir. & Panel Chair) last week,  
we decided not to send formal 3/1/92

Docket Number: 50-336  
File Number: RI-91-A-0241

Northeast Nuclear Energy Company  
ATTN: Mr. John F. Opeka  
Executive Vice President - Nuclear  
P.O. Box 270  
Hartford, Connecticut 06141-0270

Dear Mr. Opeka:

The U.S. Nuclear Regulatory Commission recently received information concerning activities at the Millstone Unit 2. The details are enclosed for your review and followup.

We request that the results of your review and disposition of these matters be submitted to Region I within 30 days of the date of receipt of this letter. We request that your response contain no personal privacy, proprietary, or safeguards information so it can be released to the public and placed in the NRC Public Document Room. If necessary, such information shall be contained in a separate attachment which will be withheld from public disclosure. The affidavit required by 10 CFR 2.790(b) must accompany your response if proprietary information is included. Please refer to file number RI-91-A-0241 when providing your response.

The enclosure to this letter should be controlled and distribution limited to personnel with a "need to know" until your investigation of the concern has been completed and reviewed by NRC Region I. The enclosure to this letter is considered Exempt from Public Disclosure in accordance with Title 10, Code of Federal Regulations, Part 2.790(a). However, a copy of this letter excluding the enclosure will be placed in the NRC Public Document room.

The response requested by this letter and the accompanying enclosure are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, PL 96-511.

Your cooperation in this matter is appreciated. We will gladly discuss any questions you have concerning this information.

Sincerely,

Charles W. Hehl, Director  
Division of Reactor Projects

Cancel  
Turnover -  
We are already  
inspecting  
issue  
15 SEP

Northeast Nuclear Energy Company ~~Chippewa~~ Northeast Nuclear Energy Company2

Enclosure: 10 CFR 2.790(a) Information  
Issues and Requests

cc w/o encl:

Public Document Room (PDR)

Local Public Document Room (LPDR)

State of Connecticut

bcc /w encl:

Allegation File: RI-91-A-0241

E. Conner's files

W. Raymond/T. Shedlosky

Contractor's office files (Meeker)

concurrences:

RI:DRP

Barkley

1/15/92

RI:DRP

Kelly

1/16/92

RI:DRP

Wenzinger

1/16/92





02:13:33

MASTER HOST B

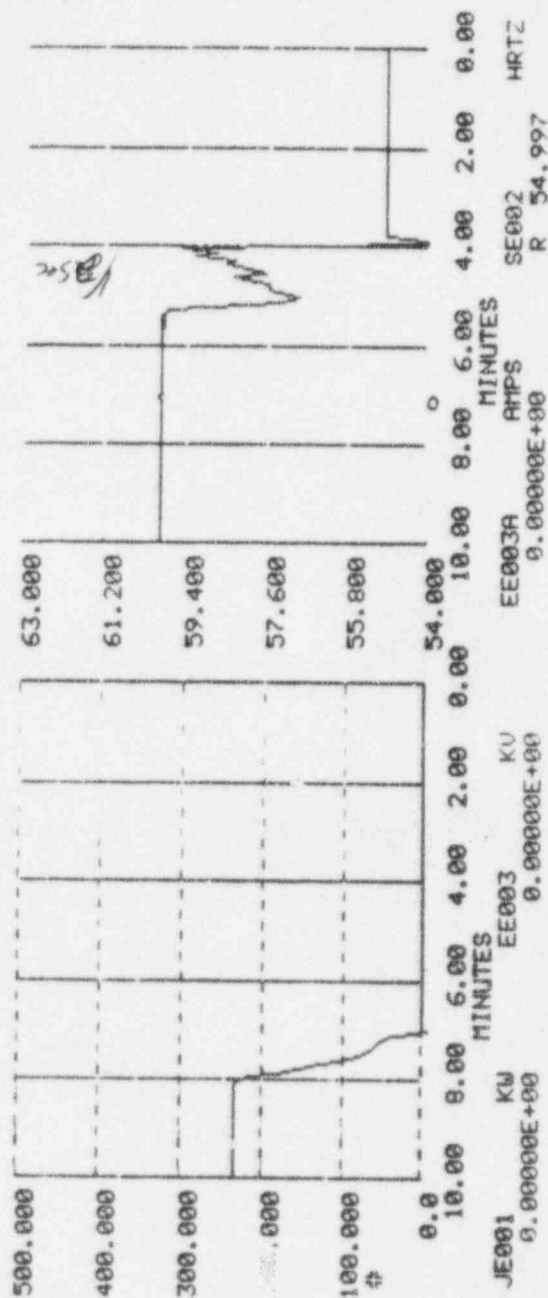
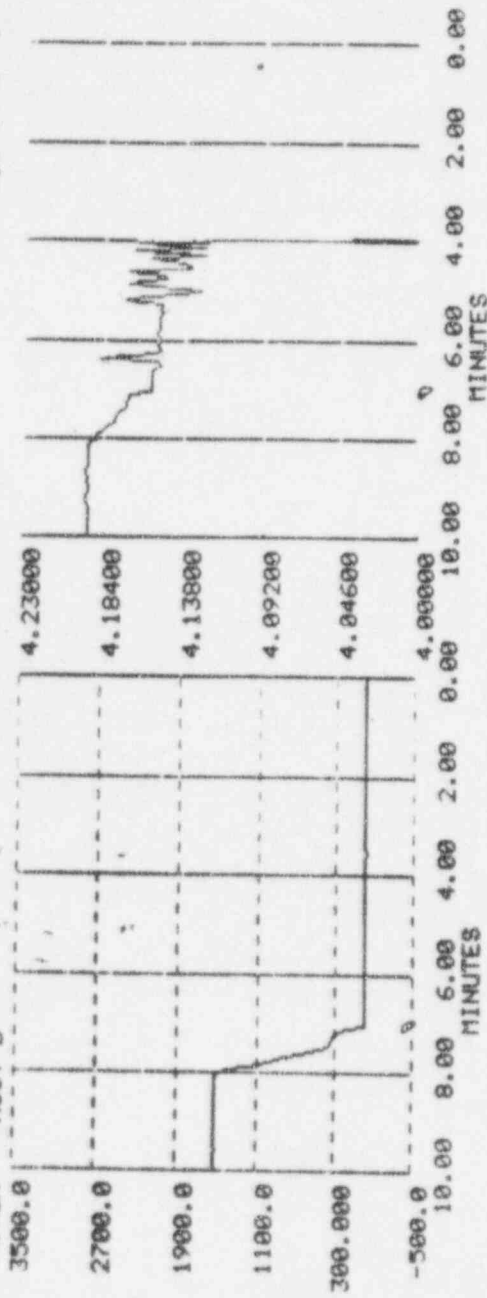
3500.0

VISUAL TREND 4

as defined by CRT OPS5

0P55T4 04-SEP-91

Page 1 of 1



Archive data plotted @ 02:12:54, sampled 00:05, offscale low

11:28 Secured A D/G

\*\*\*\*\* No abnormalities observed during run or on instrumented test points.

August 6, 1991

04:18 Start and run "B" D/G for normal surveillance.

06:48 Secure "B" D/G

\*\*\*\*\* No abnormalities noted

17:08 Start and run "A" D/G

19:46 Secure D/G

\*\*\*\*\* No abnormalities noted

August 14, 1991

09:00 Started "A" D/G and run in accordance with troubleshooting plan. Reference AWO M2-91-07648.

11:21 Secured "A" D/G

\*\*\*\*\* No abnormalities observed during run or on instrumented test points.

AUGUST 16, 91

16:30

August 20, 1991

09:34 Started "A" D/G and run in accordance with troubleshooting plan. Reference AWO M2-91-07648.

11:58 Secured "A" D/G

\*\*\*\*\* No abnormalities observed during run or on instrumented test points.

August 21, 1991

8/21-09:10 Started "A" D/G. Synchronized, and loaded to 1300KW. Ran diesel through load changes (inc. to 2100KW, dec. to 1400). No erratic operations.

8/21-11:28 Secured "A" D/G after a successful run.

8/21 17:02 Started "A" D/G. Synchronized, and loaded to 1350KW. Ran diesel through load change (inc. to 2100KW). After 45 minutes of operating at 2100KW the load drifted to 3200KW. *Diff OPS DRG LOAD AT GOV.*

18:04 *NOTE: SEE GRAPH ATTACHED (B) FOR FOLLOWING OPERATIONS*  
"A" D/G load (KW) pegged high at 3500KW. Operator opened output breaker. Engine continued to run.

9Hachment  
"B"

18:06 Tried to synchronize "A" D/G, and reload. But, speed was erratic which made it difficult. After synch, load jumped to 1500KW, and when the operator tried to reduce it the load fell to 600KW. A wide load swing cause the breaker to trip on reverse power.

Attach  
"B"  
conf.

18:07 "A" D/G breaker tripped a reverse power. AS THE RESULT OF THIS TRIP WAS NOT ANTICIPATED BY THE TEST PLAN

18:24 Started "B" D/G. Synchronized, and loaded to 1350KW. Ran diesel through load change (inc. to 2100KW). No erratic operations.

20:44 "B" D/G secured.

22:58 Started "A" D/G. Synchronized, and loaded to 1350KW. Varied load for engineering evaluations.

should this be  
"decreased"

~~Woodward Governor representative present for observation. Ran for 2 HR. Twice during the run the load was lowered from 2200KW to 2100KW. THESE OPERATIONS WERE ANTICIPATED IN ACCORDANCE WITH TEST PLAN~~

23:00 Increased load to 1350KW. Held steady load (no severe oscillations, only normal oscillations of 25 to 50 KW).

23:08 Increased load to 2100KW. Load drifted up to 2200KW, and the operator lowered it to 2100KW.

NOTE: CRASH C FOR FOLLOWING TWO HOURS

23:39 Load inc. to 2200KW

NOTE: CRASH C

2100KW

23:40 Operator reduced load back to 2100. Load drifted back up (by 01:08 it was back to 2200KW).

Attach  
"C"

#### August 22, 1991

01:09 Reduced load to 1400KW.

01:15 Secured "A" D/G. After breaker open frequency oscillations were 60.1 to 60.2 HZ. Adjusted the local speed controls to dampen these oscillations.

ADJUSTED

03:15 Started "B" D/G. Synchronized, and loaded to 1400KW. Ran diesel through load change (inc. to 2100KW). No erratic operations.

03:45 Secured "B" D/G.

10:02 Started "B" D/G. Synchronized, and loaded to 1300KW. Ran diesel through load change (inc. to 2100KW). No erratic operations.

11:26 "B" D/G shutdown.

13:45 Started "A" D/G. Synchronized, and loaded to

SAMPLE RECORD OF ALLEGATION PANEL DECISIONS

SITE: Millsstone  
ALLEGATION NO.: R7-91-A-0242  
DATE: 6 SEP 91 (Panel No. D2 3 4 5)  
PRIORITY: High Medium Low  
SAFETY SIGNIFICANCE: Yes No Unkn  
CONCURRENCE  
TO CLOSEOUT: DD BC SC  
CONFIDENTIALITY GRANTED: Yes No  
(See Allegation Receipt Report)

PANEL ATTENDEES:  
Chairman - Wiggins  
Branch Chief -  
Section Chief (AOC) - Kelly  
Sr. Allegation Coord (SAC) Fuhrman  
OI Representative -  
(Other) Raymond Mahighorst  
Shedlosky Lanning

IS THERE A HARASSMENT/DISCRIMINATION  
ISSUE:

Yes No

IF YES,

- 1) has the individual been informed of the DOL  
process and the need to file a complaint within 30 days
- 2) has the individual filed a complaint  
with DOL
- 3) has a letter been sent to the complainant seeking  
any safety concerns

Yes No

Yes No

Yes No

IS A CHILLING EFFECT LETTER WARRANTED:

Yes No

IF YES, HAS IT BEEN SENT

Yes No

HAS THE LICENSEE RESPONDED TO THE CHILLING  
EFFECT LETTER:

Yes No

ACTION:

- 1) Issue 1: call Keenan, ask where going with test equipment and usage
- 2) Issue 2: close respond that quals meet requirements and  
site calls in vendor reps if personnel not qualified for work
- 3) Issue 3: Inspect - to determine what was per that procedure  
through the review process
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

NOTES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5/17/94

# ALLEGATION MANAGEMENT SYSTEM

ALLEGATION NUMBER - RI-91-A-0242

RUN DATE: 10/17/91

DOCKET/FACILITY/UNIT: 05000336 / MILESTONE 2  
DOCKET/FACILITY/UNIT: /  
DOCKET/FACILITY/UNIT: /  
DOCKET/FACILITY/UNIT: /

/ 2  
/  
/  
/

ACTIVITY TYPES - REACTOR

MATERIAL LICENSES -

FUNCTIONAL AREAS - OPERATIONS

DESCRIPTION - 1) TEST EQUIPMENT IS BEING USED WHICH ADVERSELY AFFECTS THE  
OPERATION OF THE DIESEL GENERATOR, AND COULD DAMAGE EQUIPT.  
2) TESTS AND MAINTENANCE ARE BEING PERFORMED BY STATION PER-  
CONCERNS - 3) SONNEL WHO LACK SPECIFIC KNOWLEDGE REQUIRED  
3) ON-SITE SAFETY COMMITTEE REVIEW OF A PROCEDURE FOR THE  
DIESEL WAS SUPERFICIAL

SOURCE - CONTRACTOR EMPLOYEE

CONFIDENT - NO

RECEIVED - 910905 BY - JT SHEDLOSKEY

/ RI

ACTION OFFICE CONTACT - EM KELLY

- (FTS)346-5183

SAFETY SIGNIFICANCE - UNKNOWN BOARD NOTIFICATION - NO

STATUS - OPEN SCHED COMPLETION - 920430 DATE CLOSED -

ALLEGATION SUBSTANTIATED -

ALLEGOR NOTIFIED -

OI ACTION - OI REPORT NUMBER -

REMARKS - RECEIVED IN RESIDENT OFFICE FROM VENDOR REP. PANEL MET  
6SEP91.

SUPPORT OFFICE: RPS-4A

ACTION PENDING: INSPECT PROCEDURE REVIEW (DRP)

DOCUMENTATION:

ALLEGOR LAST CONTACTED: 5SEP91

REFERENCE:

KEYWORD: EDG, DIESEL, PROCEDURE

ENTERED SYSTEM - 910919 CLOSED SYSTEM -

RECORD CHANGED - 910919

5/17/91



SAMPLE RECORD OF ALLEGATION PANEL DECISIONS

SITE: Millsstone 2  
ALLEGATION NO.: R1-91-A-0243  
DATE: 18 Sep 91 (Panel No. 2 3 4 5)  
PRIORITY: High Medium Low  
SAFETY SIGNIFICANCE: Yes No Unkn  
CONCURRENCE  
TO CLOSEOUT: DD BC SC  
CONFIDENTIALITY GRANTED: Yes No  
(See Allegation Receipt Report)

PANEL ATTENDEES:  
Chairman - Giggins  
Branch Chief -  
Section Chief (AOC) - Kelly  
Sr. Allegation Coord (SAC) Fuhrmeister  
OI Representative -  
(Other) Kottan Conner (T)

IS THERE A HARASSMENT/DISCRIMINATION  
ISSUE:

Yes No

IF YES,

- 1) has the individual been informed of the DOL  
process and the need to file a complaint within 30 days
- 2) has the individual filed a complaint  
with DOL
- 3) has a letter been sent to the complainant seeking  
any safety concerns

Yes No

Yes No

Yes No

IS A CHILLING EFFECT LETTER WARRANTED:

Yes No

IF YES, HAS IT BEEN SENT

Yes No

HAS THE LICENSEE RESPONDED TO THE CHILLING  
EFFECT LETTER:

Yes No

ACTION:

1) turnover to licensee issue of procedural control RPS-4A

- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

NOTES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5/176

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ENCLOSURE

Issue 91-243:

During the performance of SP-2404AV, it was noted that copies of form OP 2383C-1, "Alarm Setpoint Control," were not forwarded to the Engineering Department for review on two occasions as required by procedure OP 2383C, "Radiation Monitor Setpoint Control". Specifically, the alarm setpoint changes for RM 6038, the Reactor Building Closed Cooling Water Monitor, which occurred on May 11, 1991 and July 8, 1991 were not forwarded to Engineering Department as required. In fact, the last change made to the setpoint for RM 6038 which was reviewed occurred on February 2, 1991.

Request:

Please provide your review of the above assertion. If the above conditions are valid, notify us of the corrective actions you have taken to prevent recurrence. Also, provide us with an assessment of the safety significance of any identified deficiencies, including any potentially generic considerations.

~~LIMITED DISTRIBUTION - NOT FOR PUBLIC DISCLOSURE~~

8/90  
GJ/JRSEISMIC MONITORING PROBLEMS

NOTE: PROBLEMS FOUND WHILE TROUBLESHOOTING ITEMS  
THAT DID NOT PASS FUNCTIONAL TEST.

8/14 SMP-1 TRACE WAS OFF EDGE OF CHART PAPER ALTHOUGH  
THE DESIRED 2.5 VOLTS WAS COMING FROM THE  
PLAY BACK CARDS — FOUND COMPENSATOR  
BOARD THROWING OFF VOLTAGE BY 30mv.

8/14 SMP-1 PLAYBACK UNIT NOT MOVING TAPE. — UNIT  
WAS SO DIRTY THAT NO SPRING PRESSURE  
WAS APPLIED TO THE CAPSTAN. — CLEANED  
A.V.U. LUBRICATED TRANSPORT MECHANISM.  
TRIED NOCLUBE. DIDN'T WORK! USED LIGHT  
OIL.

8/15 NE-4448 ① PEN WAY PAST 2.5 VOLTS ON CHART PAPER.  
② GLITCH (—) APPROX. EACH INCH ON CHART  
PAPER —

FOUND RECORDER TOO SLOW. (1000 HZ TAPE  
READING 2800 HZ) ADJUSTED SPEED WHICH  
CORRECTED SPAN PROBLEM & IN. REMOVED GLITCH  
PROBLEM. RECORDER SHOULD BE REPLACED  
SOON.

8/15 NL 97. RECORDER SEIZED WHILE TROUBLESHOOTING  
OTHER PROBLEMS — NEEDED TO REPLACE RECORDER.

8/16 — REPLACED RECORDER ... NEW RECORDER  
DIDN'T WORK! OUT OF SPARES

M2-90-8320 8/30 REPLACED CAPSTAN DRIVE MOTOR (P/N 100985)

8/16 NE-9450 — TRACE LOOKS TERRIBLE DUE TO  
RECORDER PROBLEMS (MNI)

TO ADJUSTMENTS. —

RECORDER NEEDS TO BE REPLACED.

M2-90-8320 — REPLACED CAPSTAN DRIVE MOTOR  
P/N 100985

SPECIAL ORDER FROM KINEMATICS. RELIEVED  
TWO. USED TWO. NO MORE SPARES.

NP9448 (CONT) THROUGH DISCUSSION WITH GEORGE SPABULL OF KINEMATICS, THE FOLLOWING INFO WAS PASSED ON.

- ① TRIGGER LEADS SHOULD BE REVERSED TO VERIFY BOTH SIDES OF ELECTRONIC AMPLIFIER OPERATIONAL. THIS IS A BACK-UP FEATURE AND ACCORDING TO GEORGE WOULD BE GOOD TO CHECK OUT
- ② PERFORM 'NATURAL FREQUENCY' & 'DAMPING' MEASUREMENTS DURING CALIBRATION.

GEORGE IS SENDING INFORMATION TO ASSIST US IN THE STEP WRITINGS FOR <sup>THE</sup> ABOVE ITEMS.

Ray Schlicher 4/4/89

NE 9448  
72-90-0035  
G/JR

REPLACED ACCELEROMETER AFTER BAD BELL CURVE WAS FOUND DURING FUNCTIONAL TEST.

NE 9451  
72-90-0036  
G/JR

REPLACED ACCELEROMETER AFTER BAD BELL CURVE WAS FOUND DURING FUNCTIONAL TEST.

A NOTE ON KINEMATRICS PART NUMBERS  
FOR PRINTED WIRING BOARDS

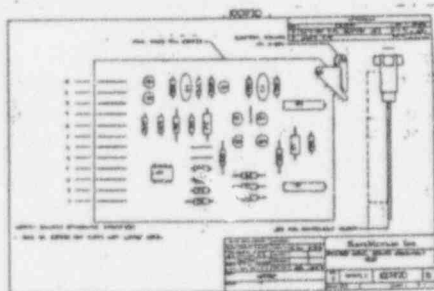
1. A complete printed wiring (circuit) board is defined by an assembly drawing. The part number is the same as the assembly drawing number. Normally, the part number and the assembly drawing number end with the digit 0 or the digit 5.

~~The part number and drawing number of the etched, machined board (without components) are normally two digits greater than the assembly part and drawing numbers.~~

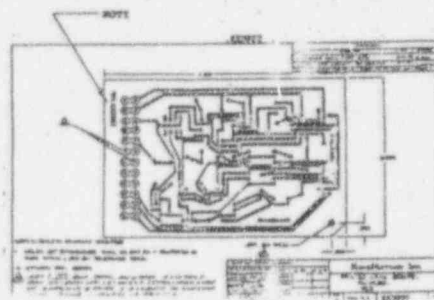
~~Note: The part number etched on the board is of the machined board (not of the assembled board).~~

3. The drawings below show a typical example of a complete assembly (part no. 100920) and a machined board (part no. 100922).

PART NO. 100920



Assembly  
Drawing  
100920



MACHINED  
BOARD  
100922

*W. Rihn*

W. Rihn  
Vice President-Engineering  
November 3, 1981



SMP-1 REWIRED GAIN CIRCUIT TO BRING PLAYBACK  
 72-89-07985 UNIT INTO COMPLIANCE WITH MANUFACTURERS  
 7-21-89 LATEST DESIGN PER KINEMATICS SMP-1  
 G WIRING DIAGRAM, #101001. BASICALLY  
 RESISTOR R5 WAS MOVED FROM ONE SIDE  
 OF POTENTIOMETER R6 TO THE OTHER.  
 THIS ALLOWS THE RECORDER TO BE CALIBRATED  
 FULL SCALE.

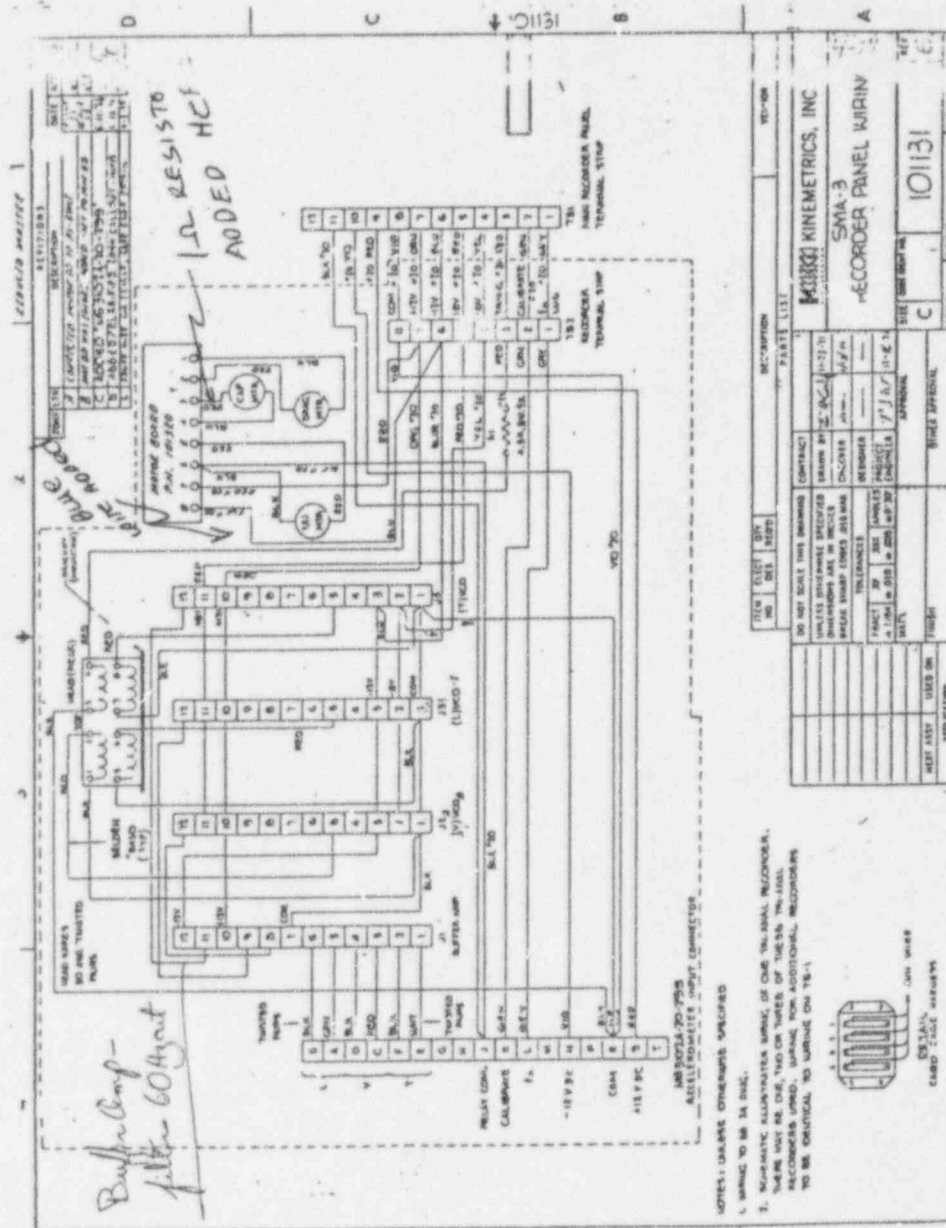
SMP-1  
 72-89-07985 HAD PROBLEM WITH INFO. ON CASSETT GETTING  
 7-21-89 TO THE CHART, & INCLUDING NO TIMING  
 G/DWD MARKS. FOUND ABSENCE OF TIMING AFFECTS  
 ALL 3 CHANNELS. CHANGED TIMING  
 DEMODULATOR BOARD AND SPEED COMPENSATOR  
 BOARD. -  
 ALSO CHECKED L, T, & V DEMODULATOR BOARDS

SMA-3  
 72-89-07985 CHECKED FREQ. OF TIMING SIGNAL - 1024KHz  
 G/D ADJUSTED VCO'S AS NECESSARY TO PROVIDE THE  
 PROPER 1G TILT Amplitude on the playback chart.

16.9451 could not adjust seismic trigger in  
 Don D. transverse direction. - replaced triax trigger  
 Juan D with new one from warehouse. S/N 3517

11E9448 DURING THE (CALIBRATION) MONITORING IN THE 'JULY OF  
 1989, REPAIRS WERE MADE TO THE TRECUM'S INTERCOM  
 75 CIRCUIT BY CHANGING OUT THE COIL WHICH WAS DETERMINED TO  
 BE (OK). ICR 289-154 WAS ORDERED TO ADDRESS THIS  
 REPAIR. TWO TRECUM'S ARE ATTACHED TO THIS NCR  
 AND ALSO TO THE SURVEILLANCE DATA SHEET, ICFORM  
 285CT. A COPY OF THIS SURVEILLANCE WAS PLACED  
 IN THE 11E9448 LOOP FOLDER.

CONT. 196 Ray



8

Kido  
9/19/91E9451  
6/24/89

R. J.

W. D.

PROBLEM: VERY NOISY TRACES WHEN  
TESTING — REPLACED RECORDING  
UNIT.

NEW PROBLEM: NEW UNIT DIDN'T TURN; —  
NOTICED POWER SUPPLY CONNECTIONS  
WERE DIFFERENT ON THE NEW  
MOTOR BOARD P/N 101320, (OLD BOARD P/N 101025)  
MADE CONNECTIONS PER DRAWING #101131,  
HAD TO ADD THE BLUE WIRE BETWEEN  
MOTOR BOARD PIN 8 AND TB2, TERM. 6.

NEW PROBLEM:  $\approx 15$  Hz SINE WAVE ON  
TEST TRACES —

ADDED 1- $\Omega$  RESISTOR BETWEEN  
PIN 3 ON MOTOR BOARD AND  
CAPSTAN MOTOR TO BE CONSISTANT  
WITH WORK PREVIOUSLY PERFORMED  
ON NE-9448

NOTE

TEST EQUIPMENT FOR THE SEISMIC SYSTEM  
IS LOCATED IN THE ALUMINUM FOOT  
LOCKER STORED IN THE ROCKET ROOM.

NEA451

G MC

3-12-91 WIRE CAME OFF RECORDING HEAD  
during functional test. Resoldered  
connection.

SMA-3E

SMP-1

REPLACED BATTERIES

4-11-91

(M2-91-03653)

G BD

\* HILLSTONE UNIT TWO - REWORK REPORT(I&C)  
 LIST OF LOCALIDS & EQUIPMENT DESCRIPTION  
 UNS=U WOS=F TOTAL OF CM AND OT IS =>4  
 FROM 05-01-1989 TO 09-15-1990  
 AS OF 09/19/90

PAGE1

GRAND TOTAL	LOCALID	CM	TYPE OT	EQUIPMENT DESCRIPTION
4	M2AE-8152	2	2	H2 ANALYZER "A" CONTROL MODULE & SENSOR
	M2BA303	0	4	SPENT FUEL POOL AREA R/M AREAS BISTABLES
	M2BRR-6	4	0	BORON RECOVERY HEAT TRACING RECORDER
	M2CPC-B-2	1	3	CORE PROTECTION CALCULATOR 2, RPS-B
	M2CPC-C-1	4	0	CORE PROTECTION CALCULATOR 1, RPS-C
	M2FI-4668	3	1	SERVICE WATER TO HX 169A FLOW INDICATOR
	M2FIR	4	0	FIRE PROTECTION DELUGE/WET SPRINKLER SYSTEM - MISC COMPONENTS
	M2FIS-8997	4	0	RADWASTE VENTILATION RADIATION MONITOR SAMPLE FLOW IND SWITCH
	M2FT-212	3	1	CHARGING HEADER TO REGEN HEAT EXCH X21 FLOW TRANSMITTER
	M2FT-9118	1	3	AERATED WASTE TO CIRC WATER DISCHARGE FLOW
	M2LC-9318A	4	0	CONDENSER PIT "B" SUMP PUMP 39A LEVEL CONTROL SWITCH (EAST)
	M2LI-226	3	1	VOL CONT TANK T5 LEVEL INDICATOR
	M2LS-4590	4	0	TERRY TURBINE STEAM SUPPLY WATER DETECTOR
	M2LV-4126	3	1	2ND STAGE REHEATER DRAIN TANK 1A DUMP TO COND LEVEL VALVE
	M2NE-9448	3	1	SEISMIC MONITOR FOR CMT UPPER WALL +75' ELEVATION
	M2NE-9450	2	2	SEISMIC MONITOR FOR INTAKE STRUCTURE & 14'6" ELEV
	M2NE-9451	3	1	SEISMIC MONITOR FOR FREE FIELD & 14'6"
	M2PI-7302	3	1	FIRE PROTECTION PUMP P82 DISCHARGE PRESSURE INDICATOR
	M2PR-SAF-C	1	3	LINEAR POWER RANGE DRAWER RPS-C
	M2PS-6119A	1	3	RHCCW PUMP P11A SUCTION PRESSURE LO SWITCH
	M2PV-4224	4	0	STEAM GEN #2 DUMP TO ATMOS VALVE POSITIONER
	M2PY-102D3	3	1	PZR PRESS V TO I CONVERTER
	M2RC-100F	3	1	PRESSURIZER SPRAY VALVES POSITIONER
	M2RIC-8168	4	0	STACK GAS EFFLUENT RAD MONITOR CONTROL ROOM PANEL
	M2RIT-4262	0	4	STEAM GENERATOR BLOWDOWN COUNT RATE MODULE
	M2RIT-8123A	1	3	CMT ATMOS PARTICULATE RADIATION INDICATING XMTR CRM
	M2RIT-8262B	1	3	CMT AIR GASEOUS RADIATION CRM
	M2RIT-9799A	2	2	CONTROL ROOM VENTILATION RADIATION MONITOR
	M2RM-4299C	4	0	MAIN STEAM LINE RAD MONITOR LOOP
	M2RM-8123B	1	3	CMT ATMOS GASEOUS RAD MONITOR LOOP
	M2RM-8434A	4	0	RADWASTE VENTILATION EXHAUST RAD MON LOOP
	M2RM-8997	4	0	RADWASTE VENTILATION RADIATION MONITOR LOOP
	M2RM-8998	3	1	RADWASTE VENTILATION RADIATION MONITOR LOOP
	M2RM-9095	3	1	WASTE GAS TO STACK RAD MONITOR LOOP



\* HILLSTONE UNIT TWO - REWORK REPORT(I&C)  
 LIST OF LOCALIDS & EQUIPMENT DESCRIPTION  
 UNS=U WOS=F TOTAL OF CM AND OT IS =>4  
 FROM 05-01-1989 TO 09-15-1990  
 AS OF 09/19/90

PAGE2

GRAND TOTAL	LOCALID	CM	TYPE	OT	EQUIPMENT DESCRIPTION
	M2RPS-A	3		1	RPS PANEL A LOOP (RC05A)
	M2RPS-CIP-A	4		0	CALIBRATION AND INDICATION PANEL, RPS-A
	M2RRS-IND-Y	0		4	REACTOR REGULATING SYSTEM CHANNEL Y POWER INDICATOR
	M2SC-7021	3		1	AMMONIUM HYDROXIDE PUMP STROKE POSITIONER PUMP P-69A
	M2T-111Y	3		1	REACTOR COOLANT LOOP 1A COLD LEG TEMP LOOP
	M2TE-112CD	1		3	REACTOR COOLANT LOOP 1B COLD LEG TEMP RTD
	M2TE-5457	1		3	SG 1 SECONDARY SIDE TEMPERATURE (HANDWAY RTD)
	M2TI-122HD	2		2	REACTOR COOLANT LOOP 2 HOT LEG TEMP INDICATOR
	M2TIC-223	4		0	LETDOWN HEAT EXCH X22 TEMP INDICATING CONTROLLER
	M2UR-7269	4		0	CONDENSATE HDR. CONDUCTIVITY & HYDRAZINE HDR. CONCEN RECORDER
	M2UR-9862	4		0	CIMT PRESSURE & TEMP RECORDER
	M2VM-201	1		3	ACOUSTIC VALVE MONITOR ALARM MODULE FOR 2-RC-201
	M2ZS-201	0		4	ACOUSTIC VALVE MONITOR ACCELEROMETER (2-RC-201)
	M22CNDICIS159	3		1	COND BEHIN 2J OUTLET CONDUCTIVITY ALARM SWITCH
	M2AE-8154	2		3	H2 ANALYZER "B" CONTROL MODULE AND SENSOR
	M2AR-203	3		2	BORONMETER RECORDER
	M2EHC	3		2	MAIN TURBINE ELECTROHYDRAULIC CONTROL SYSTEM
	M2FIS-8132	2		3	STACK GAS SAMPLE FLOW SWITCH
	M2LC-5043A	5		0	FEEDWATER HEATER 6A NORMAL LEVEL CONTROL
	M2LI-208A	5		0	BORIC ACID TANK T8B LEVEL INDICATOR — ON LIST
	M2MET-TOWER	0		5	MET TOWER INSTRUMENTATION (MAINTAINED BY NUSCO)
	M2PR-SAF-A	0		5	LINEAR POWER RANGE DRAWER RPS-A
	M2REED-P/S-A	2		3	REED SWITCH POWER SUPPLY
	M2RR-8132	2		3	STACK GAS PARTICULATE & GASEOUS RAD RECORDER
	M2TU-B-1	3		2	CHANNEL-B TRIP BISTABLE: HIGH POWER
	M2WQM-D	4		1	WATER QUALITY MONITOR (DISCHARGE) LOOP (T6691 & A6693)
	M2WQM-Q	5		0	WATER QUALITY MONITOR (QUARRY CUT) LOOP (T6695 & A6694)
	M22CESPNL07RR	5		0	CPF RADIATION MONITOR RECORDER
	M22CNDFR247	5		0	LIME DILUTION WATER FLOW RECORDER
	M2ATI	6		0	AUTOMATIC TEST INSERTER (ATI MODULE)
	M2AUXLOGIC-A	0		6	AUXILIARY LOGIC DRAWER RPS-A
	M2FIS-8998	6		0	RADWASTE VENTILATION RADIATION MONITOR FLOW IND. SWITCH — ?
	M2FR-9118	1		5	AERATED WASTE TO CIRC WATER DISCHARGE FLOW
	M2RIT-8123B	0		6	CTMT ATMOS GASEOUS RADIATION INDICATING XMTR CRM

\* MILLSTONE UNIT TWO - REWORK REPORT (I&C)  
 LIST OF LOCALIDS & EQUIPMENT DESCRIPTION  
 UNS=U WOS=F TOTAL OF CM AND OT IS =>4  
 FROM 05-01-1989 TO 09-15-1990  
 AS OF 09/19/90

GRAND TOTAL	LOCALID	CM	TYPE	OT	EQUIPMENT DESCRIPTION
					SPENT FUEL POOL RADIATION MONITOR CRM (EAST)
	M2RIT-8156	0		6	CTMT HI RANGE RADIATION CRM (EAST)
	M2RIT-8240	3		3	AERATED LIQUID RADWASTE PROCESS RADIATION MONITOR LOOP
	M2RM-9116	4		2	REACTOR REGULATING SYSTEM CHANNEL X POWER INDICATOR
	M2RRS-IND-X	1		5	WIDE RANGE DRAWER RPS-A
	M2WR-LOG-A	6		0	CARBON MONOXIDE MONITOR ALARM (PORTABLE IN-LINE MONITOR)
	M2COMA-5	5		2	SJAE DISCHARGE TO STACK RAD MON FLOW IND SWITCH
7	M2FIS-5099	4		5	AERATED WASTE FLOW TO CIRC WATER DISCHARGE
	M2FQI-9118	2		5	FEEDWATER HEATER DRAINS & VENTS
	M2HDS	2		5	STACK GAS EFFLUENT RAD MONITOR LOCAL CONTROL PANEL
	M2LIC-8168	6		1	SERVICE WATER PUMP PSC FILTER PRESSURE DIFF SWITCH - ?
	M2PUC-6488	6		1	S.G BLOWDOWN PROCESS RAD MONITOR LOOP
	M2RM-4262	1		6	RECORDER FOR RM-202 & RM-202A <i>FAILED FUEL RM</i>
	M2RR-202	7		0	WATER QUALITY MONITOR (INTAKE) LOOP (T6690 & A6692)
	M2WQM-I	5		2	WIDE RANGE DRAWER RPS-B
	M2WR-LOG-B	6		1	WIDE RANGE DRAWER RPS-C
	M2WR-LOG-C	6		1	COND DEMINS A-G EFFLUENT FLOW RECORDER - <i>on list</i>
	M22CNDFR310	7		0	RADWASTE VENTILATION EXHAUST RAD MON FLOW IND SWITCH <i>Photocopy Page</i>
8	M2FIS-8434	7		1	SPENT FUEL POOL RADIATION MONITOR LOOP (EAST)
	M2RM-8156	4		4	WASTE NEUT SUMP RAD MONITOR LOOP
	M22CNDRM245	5		3	CTMT AIR PARTICULATE RADIATION CRM
9	M2RIT-8262A-	0		9	SPENT FUEL POOL RADIATION MONITOR LOOP (WEST) -
	M2RM-8157	5		4	CTMT ATMOS PARTICULATE & GASEOUS RAD RECORDER
	M2RR-8123-	1		8	CLEAN WASTE DISCH LIQUID RAD MONITOR LOOP
10	M2RM-9049	7		3	CTMT AIR SAMPLE FOR RAD MONITOR FLOW IND SWITCH
11	M2FIS-8123-	7		4	INST AIR DRYERS & FILTERS INSTRUMENTATION
	M2IWS-AIR-C	8		3	STACK GAS GASEOUS RAD MON LOOP
	M2RM-8132B	2		9	CTMT AIR PARTICULATE RADIATION MONITOR LOOP
	M2RM-8262A-	8		3	CTMT AIR RAD MONITOR FLOW INDICATING SWITCH
12	M2FIS-8262-	7		5	ALRW & CLRW RADWASTE PROCESS RADIATION MONITOR SYSTEM - <i>Too Hot?</i>
	M2PIOPS	11		1	CTMT ATMOS PARTICULATE RAD MONITOR LOOP
	M2RM-8123A-	8		4	U2 STACK EFFLUENT RAD MONITOR LOOP (HI RANGE) <i>KAMIN - Detectable</i>
✓ 15	M2RM-8168	6		6	PROCESS RADIATION RECORDER - <i>2C-4</i>
16	M2RJR-9129	12		3	REACTOR PROTECTION SYSTEM CABINETS A-D LOOP
	M2RPS	6		10	

\* MILLSTONE UNIT TWO - REWORK REPORT(I&C)  
 LIST OF LOCALIDS & EQUIPMENT DESCRIPTION  
 UNS=U WOS=F TOTAL OF CM AND OT IS =>4  
 FROM 05-01-1989 TO 09-15-1990  
 AS OF 09/19/90

PAGE4

GRAND TOTAL	LOCALID	CM	TYPE	OT	EQUIPMENT DESCRIPTION
17	M2CMM	16		1	COMMUNICATIONS SYSTEM
✓19	M2METRASCOPE	17		2	METRASCOPE ROD POSITION INDICATION ON C04F
✓20	M2RJR-9373	7		13	PROCESS RADIATION MULTI POINT RECORDER <i>Re 14 Recorders</i>
	M2RM-6038	8		12	RBCCW LIQUID RAD LOOP
45	M2RM-5099	33		12	SJAE DISCHARGE TO STACK RAD MON LOOP <i>New Cards?</i>
49	M2ANN	46		3	ANNUNCIATOR SYSTEM
50	M2OTHER-WORK	12		38	WORK NOT RELATED TO PLANT EQUIPMENT (NO PMMS ID)

To: Terry Arnett

12/7/90

From: Don Grindle

Subject: Top ICR Generating Instruments

The following is a list of the top 17 instruments that generated the most ICR's in the last 5 years.

<u>Instrument(s)</u>		<u>AWO's</u> <i>This year '90</i>	<u># of ICR's</u>	
* 1.	Linear Range NI drawers	1	85	
	2. ✓ CTMT Rad Monitors	33	59	Already used
* 3.	✓ SFP Area Rad Monitors	9	48	
* 4.	✓ RPS CPC's	5	35	
	5. ✓ Rad Monitor Flow Switches		34	Changed May to Photo
	6. S/G LP Block Bistable		28	Already used
* 7.	CTMT Radmonitor Recorders		27	
	8. AVMS		26	Already used
* 9.	RC-14 Radiation Recorders 9129 & 9373	19	25	
	10. Aerated and Clean Liquid Discharge recorders and integrators	PROPS	16	
	11. Water Quality Monitoring		15	Due to be changed
	12. RCS Flow Instruments		13	Working on new Xr
* 13.	PZR Level transmitters		13	
* 14.	RM-B168	18	12	
	15. AE-B154	2	11	
	<del>16. Met Tower</del>		9	
	17. Seismic	8	9	

5/1/80

Unit 2 I&C Memo

December 26, 1990  
MP2-I-1714

To: Terry Arnett

*Bob S.*

From: Bob Salen

Subj: AWO/ICR Overview and Summary

The following information represents an overview of recent AWO and ICR history\* as we discussed at our meeting last week. The listed items were ranked by directly adding the number of AWOs and ICRs and listing from highest to lowest (assuming that each AWO/ICR represents wasted man-hours and faulty equipment performance). This list may be further refined and ranked based on the equipment's function and importance.

<u>Component</u>	<u>AWOs</u>	<u>ICRs</u>	<u>Sum</u>	<u>Remarks</u>
RM-8123/ RM-8262	33	59	92	On list to upgrade.
RPS Linear Range Dwrs	1	86	87	ICRs very high, but CMs okay. Unstable?
RJR-9129/ RJR-9373	19	41	60	On list to upgrade
SFP Area R/Ms	9	48	57	
<u>Misc Recorders</u>				
2CNDFR310	7	--	7	
2CNDFR247	5	--	5	
2CESPNL07RR	5	--	5	
RR-202	7	--	7	
AR-203	3	--	3	
RR-8123	<u>1</u>	<u>27</u>	<u>28</u>	
	28	27	55	Upgrade recommended
RM-5099	33	12	50	Upgrade approved
Annunciator System	46	--	46	Typically card problems
RPS CPCs	5	35	40	
RM-8168	16	12	28	

*5/1/81*



PIOPs                    22        --        22        CRT Problems?

AE-8154                2        --        11

Miscellaneous

FIS-8998               6        --        6        Flow control problems  
                                                                         starting in 9/89. Worked  
                                                                         fine prior to that.

RC-100F                3        --        3        Hi Rads - why not an MOV?  
                                                                         Does it really need a  
                                                                         positioner?

\* AWO Data from PMMS rework report (5/1/89 to 9/15/90); ICR  
  data from analysis by Don Grindle.

cc: John Becker  
     Pete Smith  
     Ray Schleicher  
     Rework File  
     ISC File

\* MILLSTONE UNIT TWO - REWORK REPORT(I&C)  
 LIST OF LOCALIDS & EQUIPMENT DESCRIPTION  
 UNS=U WOS=F TOTAL OF CM AND OT IS =>4  
 FROM 05-01-1989 TO 09-15-1990  
 AS OF 09/19/90

PAGE1

GRAND TOTAL	LOCALID	CM	TYPE	OT	EQUIPMENT DESCRIPTION
4	M2AE-8152	2		2	H2 ANALYZER "A" CONTROL MODULE & SENSOR
	M2BA383	0		4	SPENT FUEL POOL AREA R/M AREAS BISTABLES
	M2BRR-6	4		0	BORON RECOVERY HEAT TRACING RECORDER
	M2CPC-B-2	1		3	CORE PROTECTION CALCULATOR 2, RPS-B
	M2CPC-C-1	4		0	CORE PROTECTION CALCULATOR 1, RPS-C
	M2FI-4668	3		1	SERVICE WATER TO HX 169A FLOW INDICATOR
	M2FIR	4		0	FIRE PROTECTION DELUGE/WET SPRINKLER SYSTEM - MISC COMPONENTS
	M2FIS-8997	4		0	RADWASTE VENTILATION RADIATION MONITOR SAMPLE FLOW IND SWITCH
	M2FT-212	3		1	CHARGING HEADER TO REGEN HEAT EXCH X21 FLOW TRANSMITTER
	M2FT-9118	1		3	AERATED WASTE TO CIRC WATER DISCHARGE FLOW
	M2LC-9318A	4		0	CONDENSER PIT "B" SUMP PUMP 39A LEVEL CONTROL SWITCH (EAST)
	M2LI-226	3		1	VOL CONT TANK T5 LEVEL INDICATOR
	M2LS-4510	4		0	TERRY TURBINE STEAM SUPPLY WATER DETECTOR
	M2LV-4126	3		1	2ND STAGE REHEATER DRAIN TANK 1A DUMP TO COND LEVEL VALVE
	M2NE-9448	3		1	SEISMIC MONITOR FOR CTMT UPPER WALL +75' ELEVATION
	M2NE-9450	2		2	SEISMIC MONITOR FOR INTAKE STRUCTURE & 14'6" ELEV
	M2NE-9451	3		1	SEISMIC MONITOR FOR FREE FIELD & 14'6"
	M2PI-7302	3		1	FIRE PROTECTION PUMP P82 DISCHARGE PRESSURE INDICATOR
	M2PR-SAF-C	1		3	LINEAR POWER RANGE DRAWER RPS-C
	M2PS-6119A	1		3	RBCCW PUMP P11A SUCTION PRESSURE LO SWITCH
	M2PV-4224	4		0	STEAM GEN #2 DUMP TO ATMOS VALVE POSITIONER
	M2PY-10203	3		1	PZR PRESS V TO I CONVERTER
	M2RC-100F	3		1	PRESSURIZER SPRAY VALVES POSITIONER
	M2RIC-8168	4		0	STACK GAS EFFLUENT RAD MONITOR CONTROL ROOM PANEL
	M2RIT-4262	0		4	STEAM GENERATOR BLOWDOWN COUNT RATE MODULE
	M2RIT-8123A	1		3	CTMT ATMOS PARTICULATE RADIATION INDICATING XMTA CRM
	M2RIT-82628	1		3	CTMT AIR GASEOUS RADIATION CRM
	M2RIT-9799A	2		2	CONTROL ROOM VENTILATION RADIATION MONITOR
	M2RM-4299C	4		0	MAIN STEAM LINE RAD MONITOR LOOP
	M2RM-8123B	1		3	CTMT ATMOS GASEOUS RAD MONITOR LOOP
	M2RM-8434A	4		0	RADWASTE VENTILATION EXHAUST RAD MON LOOP
	M2RM-8997	4		0	RADWASTE VENTILATION RADIATION MONITOR LOOP
	M2RM-8998	3		1	RADWASTE VENTILATION RADIATION MONITOR LOOP
	M2RM-9995	3		1	WASTE GAS TO STACK RAD MONITOR LOOP

MILLSTONE UNIT TWO - REWORK REPORT(I&C)  
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 AS OF 09/19/90

PAGE2

GRAND TOTAL	LOCALID	CM	TYPE	OT	EQUIPMENT DESCRIPTION
	M2RPS-A	3		1	RPS PANEL A LOOP (RC05A)
	M2RPS-CIP-A	4		0	CALIBRATION AND INDICATION PANEL,RPS-A
	M2RRS-IND-Y	0		4	REACTOR REGULATING SYSTEM CHANNEL Y POWER INDICATOR
	M2SC-7021	3		1	AMMONIUM HYDROXIDE PUMP STROKE POSITIONER PUMP P-69A
	M2T-111Y	3		1	REACTOR COOLANT LOOP 1A COLD LEG TEMP LOOP
	M2TE-112CD	1		3	REACTOR COOLANT LOOP 1B COLD LEG TEMP RTD
	M2TE-5457	1		3	SG 1 SECONDARY SIDE TEMPERATURE (HANDWAY RTD)
	M2TI-122HD	2		2	REACTOR COOLANT LOOP 2 HOT LEG TEMP INDICATOR
	M2TIC-223	4		0	LETODOWN HEAT EXCH X22 TEMP INDICATING CONTROLLER
	M2UR-7269	4		0	CONDENSATE HDR. CONDUCTIVITY & HYDRAZINE HDR. CONCEN RECORDER
	M2UR-9862	4		0	CTMT PRESSURE & TEMP RECORDER
	M2VM-201	1		3	ACOUSTIC VALVE MONITOR ALARM MODULE FOR 2-RC-201
	M2ZS-201	0		4	ACOUSTIC VALVE MONITOR ACCELEROMETER (2-RC-201)
5	M22CNDICIS159	3		1	COND DEMIN 2J OUTLET CONDUCTIVITY ALARM SWITCH
	M2AE-8154	2		3	H2 ANALYZER "B" CONTROL MODULE AND SENSOR
	M2AR-203	3		2	BORONMETER RECORDER
	M2EHC	3		2	MAIN TURBINE ELECTROHYDRAULIC CONTROL SYSTEM
	M2FIS-8132	2		3	STACK GAS SAMPLE FLOW SWITCH
	M2LC-5043A	5		0	FEEDWATER HEATER 6A NORMAL LEVEL CONTROL
	M2LI-208A	5		0	BORIC ACID TANK T8B LEVEL INDICATOR
	M2MET-TOWER	0		5	MET TOWER INSTRUMENTATION (MAINTAINED BY MUSCO)
	M2FR-SAF-A	0		5	LINEAR POWER RANGE DRAWER RPS-A
	M2REED-P/S-A	2		3	REED SWITCH POWER SUPPLY
	M2RR-8132	2		3	STACK GAS PARTICULATE & GASEOUS RAD RECORDER
	M2TU-B-1	3		2	CHANNEL-B TRIP BISTABLE: HIGH POWER
	M2WQM-D	4		1	WATER QUALITY MONITOR (DISCHARGE)LOOP (T6691 & A6693)
	M2WQM-Q	5		0	WATER QUALITY MONITOR (QUARRY CUT) LOOP (T6695 & A6694)
	M22CESPNL07RR	5		0	CPF RADIATION MONITOR RECORDER
	M22CNDFR247	5		0	LIME DILUTION WATER FLOW RECORDER
6	M2ATI	6		0	AUTOMATIC TEST INSERTER (ATI MODULE)
	M2AUXLOGIC-A	0		6	AUXILIARY LOGIC DRAWER RPS-A
	M2FIS-8998	6		0	RADWASTE VENTILATION RADIATION MONITOR FLOW IND. SWITCH
	M2FR-9118	1		5	AERATED WASTE TO CIRC WATER DISCHARGE FLOW
	M2RIT-8123B	3		6	CTMT A7MOS GASEOUS RADIATION INDICATING XMYR CRM

\* HILLSTONE UNIT TWO - REWORK REPORT(I&C)  
 LIST OF LOCALIDS & EQUIPMENT DESCRIPTION  
 UNS=U MOS=F TOTAL OF CM AND OT IS =>4  
 FROM 05-01-1989 TO 09-15-1990  
 AS OF 09/19/90

PAGE3

GRAND TOTAL	LOCALID	CM	TYPE	OT	EQUIPMENT DESCRIPTION
	M2RIT-8156	0		6	SPENT FUEL POOL RADIATION MONITOR CRM (EAST)
	M2RIT-8248	3		3	CTMT HI RANGE RADIATION CRM (EAST)
	M2RM-9116	4		2	AERATED LIQUID RADWASTE PROCESS RADIATION MONITOR LOOP
	M2RRS-IND-X	1		5	REACTOR REGULATING SYSTEM CHANNEL X POWER INDICATOR
7	M2WR-LOG-A	6		0	WIDE RANGE DRAWER RPS-A
	M2COMA-5	5		2	CARBON MONOXIDE MONITOR ALARM (PORTABLE IN-LINE MONITOR)
	M2FIS-5099	4		3	SJAE DISCHARGE TO STACK RAD MON FLOW IND SWITCH
	M2FGI-9118	2		5	AERATED WASTE FLOW TO CIRC WATER DISCHARGE
	M2HDS	2		5	FEEDWATER HEATER DRAINS & VENTS
	M2LIC-8168	6		1	STACK GAS EFFLUENT RAD MONITOR LOCAL CONTROL PANEL
	M2PDC-6488	6		1	SERVICE WATER PUMP PSC FILTER PRESSURE DIFF SWITCH
	M2RM-4262	1		6	S.G BLOWDOWN PROCESS RAD MONITOR LOOP
	M2RR-202	7		0	RECORDER FOR RM-202 & RM-202A
	M2WQM-I	5		2	WATER QUALITY MONITOR (INTAKE) LOOP (T6690 & A6692)
	M2WR-LOG-B	6		1	WIDE RANGE DRAWER RPS-B
	M2WR-LOG-C	6		1	WIDE RANGE DRAWER RPS-C
8	M22CNDFR310	7		0	COND DEMINS A-G EFFLUENT FLOW RECORDER
	M2FIC-8434	7		1	RADWASTE VENTILATION EXHAUST RAD MON FLOW IND SWITCH
	M2RM-8156	4		4	SPENT FUEL POOL RADIATION MONITOR LOOP (EAST)
	M22CNDRM245	5		3	WASTE NEUT SUMP RAD MONITOR LOOP
9	M2RIT-8262A	0		9	CTMT AIR PARTICULATE RADIATION CRM
	M2RM-8157	5		4	SPENT FUEL POOL RADIATION MONITOR LOOP (WEST)
	M2RR-8123	1		8	CTMT ATMOS PARTICULATE & GASEOUS RAD RECORDER
10	M2RM-9049	7		3	CLEAN WASTE DISCH LIQUID RAD MONITOR LOOP
11	M2FIS-8123	7		4	CTMT AIR SAMPLE FOR RAD MONITOR FLOW IND SWITCH
	M2INS-AIR-C	8		3	INST AIR DRYERS & FILTERS INSTRUMENTATION
	M2RM-8132B	2		9	STACK GAS GASEOUS RAD MON LOOP
	M2RM-8262A	8		3	CTMT AIR PARTICULATE RADIATION MONITOR LOOP
12	M2FIS-8262	7		5	CTMT AIR RAD MONITOR FLOW INDICATING SWITCH
	M2PIOPS	11		1	ALRW & CLRW RADWASTE PROCESS RADIATION MONITOR SYSTEM
	M2RM-8123A	8		4	CTMT ATMOS PARTICULATE RAD MONITOR LOOP
	M2RM-8168	6		6	U2 STACK EFFLUENT RAD MONITOR LOOP (HI RANGE)
15	M2RJR-9129	12		3	PROCESS RADIATION RECORDER
16	M2RPS	6		10	REACTOR PROTECTION SYSTEM CABINETS A-D LOOP

\* MILLSTONE UNIT TWO - REWORK REPORT(I&C)  
 LIST OF LOCALIDS & EQUIPMENT DESCRIPTION  
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 FROM 05-01-1989 TO 09-15-1990  
 AS OF 09/19/90

PAGE4

GRAND TOTAL	LOCALID	CM	TYPE	OT	EQUIPMENT DESCRIPTION
17	M2CMN	16		1	COMMUNICATIONS SYSTEM
19	M2METRASCOPE	17		2	METRASCOPE ROD POSITION INDICATION ON C04F
20	M2RJR-9373	7		13	PROCESS RADIATION MULTI POINT RECORDER
	M2RM-6038	8		12	RBCCM LIQUID RAD LOOP
45	M2RM-5099	33		12	SJAE DISCHARGE TO STACK RAD MON LOOP
49	M2ANN	46		3	ANNUNCIATOR SYSTEM
50	M2OTHER-WORK	12		38	WORK NOT RELATED TO PLANT EQUIPMENT (NO PHMS ID)



SAMPLE RECORD OF ALLEGATION P/ANEL DECISIONS

SITE: Millsstone 2

ALLEGATION NO.: 67-91-A-0244

DATE: 18 Sep 41 (Panel No. 1 2 3 4 5)

PRIORITY: High Medium Low

SAFETY SIGNIFICANCE: Yes No Unkn

CONCURRENCE

TO CLOSEOUT: DD BC SC

CONFIDENTIALITY GRANTED: Yes No

(See Allegation Receipt Report)

IS THERE A HARASSMENT/DISCRIMINATION  
ISSUE: Yes No

IF YES,

1) has the individual been informed of the DOL  
process and the need to file a complaint within 30 days Yes No

2) has the individual filed a complaint  
with DOL Yes No

3) has a letter been sent to the complainant seeking  
any safety concerns Yes No

IS A CHILLING EFFECT LETTER WARRANTED: Yes No

IF YES, HAS IT BEEN SENT Yes No

HAS THE LICENSEE RESPONDED TO THE CHILLING  
EFFECT LETTER: Yes No

PANEL ATTENDEES:

Chairman - Wiggins

Branch Chief - \_\_\_\_\_

Section Chief (AOC) - Kelly

Sr. Allegation Coord (SAC) Fuhrmeister

OI Representative - \_\_\_\_\_

(Other) Ketten Conner (r)

ACTION:

- 1) Inspect, check Awo system for history of unit RA-7A
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

NOTES:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5/18/2

Kido  
158rec'd 9/18/91  
from Terry Arnet  
I - C

PROJECTED REPLACEMENTS	YEAR	1991	1992	1993	1994	1995
WIDE RANGE DRAWER REPLACEMENT	*			300		
LINEAR RANGE DRAWER REPLACEMENT	*			400		
RPSCIP DRAWER REFURB/REPLACE	*			201	391	
CORE PROTECTION CALC. REPLACE	*					
RPS POWER SUPPLY REPLACEMENT	*		50			
ANNUNCIATOR POWER SUPPLY REPLACE	*	100 30				
SPEC 200 POWER SUPP REFURB/REPLACE	*		30	200 50		
SEISMIC MONITOR REPLACEMENT	*					
ESAS BIST/MODULE REPLACEMENT		252	304			
LOOSE PARTS MONITOR REPLACEMENT		503	709			
CONTAINMENT GAS/PART RADMON REPLACE				600	600	500
SJAE RADMON REPLACEMENT		495				
AVMS SENSOR REPLACEMENT	*	50				
GEMAC INDICATOR REPLACEMENT	*	50				
GEMAC CONTROLLER REPLACEMENT	*	50 →				
METRASCOPE REPLACEMENT		150				
HJTC ENHANCEMENTS (TEST BOX)	*		25			
HJTC CABLE REPLACEMENTS	*		300			
RCP SPEED SENSOR REPLACEMENT		50	140			
RPS NOISE PROBLEMS	*			25		
ANNUNCIATOR OPTICAL ISOLATORS	*			10		
DATA COLLECTION SYSTEM RCS RTD's	*		75			
MSR LO LOAD CONTROLLER UPGRADE	*			25		
RCS CORE AND PUMP PDT UPGRADE	*			10		
RBCCW SW TEMP IND UPGRADE	*			10		
RBCCW SW FT UPGRADE/RELOCATE	*			25		
STATOR COOLING PS UPGRADE	*			10 →		
SPF AREA MAINT. JACK	*			10 →		
B.A. EVAP TUBING/LT UPGRADE	*			10 →		
CEDS POWER SUPPLY REPLACEMENT	*	80 →				
FEED WTR HEATER LT UPGRADE	*			25 →		
DRAIN TANK LT UPGRADE	*			10 →		

\* Means planned but not authorized.

TOTAL K\$ 1,710 1,633 1,721 981 500

RCS RTD (22)

5/18/93

Fuhrmeister (1)

7-11-02-15  
0249

ECW  
9/19/91  
2:50 pm

Telecon w/ Conner from Millstone 2

Multiple times have found problems with the seismic monitor recorders.

Have discussed w/ I+C techs. (6)

Techs say several <sup>needed</sup> <sup>get</sup> data from the recorders

Many times the recorders would not start - three to six tries could be needed.

Apparently, data obtained when record does start is written down as "as found"

Monte et al asked if other instruments were treated this way - answer was "no"

The I+C Supervisor, Roy <sup>Schleicher</sup> ~~Schlicher~~ (Schlicher) said he was not aware of this practice

The I+C techs (4) have told the supervisor of this problem.

Jerry Arnet (Unit 2 I+C Planner) - He was aware of the problem.

5/184

Page  
p 2 ELW  
9/19/91  
2:50p

The technicians keep a log of problems experienced with the seismic instr. Mr. Schleicher's signature in the log book states information from the manufacturer, but no indication that he read or made an entry regarding this problem.

The seismic instr are in T/S  
LCO requires special report after 30 day

One PIR found, lo D.C. voltage 4-6 V not 1.0  
(the instr have batteries - have had probs)  
mfg says change bat every 3 yrs  
but no sched replacement.  
battery change

RECORD OF ALLEGATION PANEL DECISIONS

SITE: Millstone 2 PANEL ATTENDEES:  
ALLEGATION NO.: R7-91-A-0299 Chairman - Hehl  
DATE: 13 Nov 91 (Panel No. 1 2 3 4 5) Branch Chief - Ruland  
PRIORITY: High Medium Low Section Chief (AOC) - Barkley  
SAFETY SIGNIFICANCE: Yes No Unkn Sr. Allegation Coord (SAC) Fuhrmeister  
CONCURRENCE TO CLOSEOUT: DD BC SC OI Representative -  
CONFIDENTIALITY GRANTED: Yes No (Other) Blumberg Roberts (c)  
(See Allegation Receipt Report) Shedloski (r)  
IS THERE A HARASSMENT/DISCRIMINATION ISSUE: Yes No  
IF YES,  
1) has the individual been informed of the DOL process and the need to file a complaint within 30 days Yes No  
2) has the individual filed a complaint with DOL Yes No  
3) has a letter been sent to the complainant seeking any safety concerns Yes No  
IS A CHILLING EFFECT LETTER WARRANTED: Yes No  
IF YES, HAS IT BEEN SENT Yes No  
HAS THE LICENSEE RESPONDED TO THE CHILLING EFFECT LETTER: Yes No  
ACTION: RESP ECD

- 1) Have already inspected the issue. Determine whether DRP 27 Nov 91 writeup covers issue of procedure adequacy.
- 2) If not re-review for procedure adequacy. DRP 23 Jan 92

- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

NOTES: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5/1/85



# SAMPLE RECORD OF ALLEGATION PANEL DECISIONS

SITE: Millstone 2

ALLEGATION NO.: RI-91-A-0245

DATE: 18SEP92 (Panel No. 02345)

PRIORITY: High Medium Low

SAFETY SIGNIFICANCE: Yes No Unkn

CONCURRENCE

TO CLOSEOUT: DD BC SC

CONFIDENTIALITY GRANTED: Yes No

(See Allegation Receipt Report)

IS THERE A HARASSMENT/DISCRIMINATION

ISSUE:

Yes No

IF YES,

1) has the individual been informed of the DOL  
process and the need to file a complaint within 30 days

Yes No

2) has the individual filed a complaint  
with DOL

Yes No

3) has a letter been sent to the complainant seeking  
any safety concerns

Yes No

IS A CHILLING EFFECT LETTER WARRANTED:

Yes No

IF YES, HAS IT BEEN SENT

Yes No

HAS THE LICENSEE RESPONDED TO THE CHILLING  
EFFECT LETTER:

Yes No

ACTION:

1) Inspect, and check AWD system for history on units RI-91-A

2) \_\_\_\_\_

3) \_\_\_\_\_

4) \_\_\_\_\_

5) \_\_\_\_\_

NOTES: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5/1/86

# 0245

7 hr minute - p1

purple  
EAD  
9/19/91  
2:50 pm

Telecon w/ Conner from Millstone 2

Multiple times have found problems  
with the seismic monitor recorders:

Have discussed w/ I+C techs. (6)  
Techs say several <sup>needed</sup> <sup>to get</sup> data from  
the recorders

Many times the recorders would not  
start - three to six tries could  
be needed.

Apparently, data obtained when record  
does start is written down as is found

Monte et al asked if other instruments  
were treated this way - answer was "no"

The I+C Supervisor, Ray <sup>Schleicher</sup> ~~Schleicher~~ (Schleicher)  
said he was not aware of this practice

The I+C techs (4) have told the supervisor  
of this problem.

Jerry Arnet (Unit 2 I+C Planner) - He was  
aware of the problem.

5/187