

PARSONS

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June 10, 1998
Docket No. 50-336
Parsons NUM2-PPNR-1580-L

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

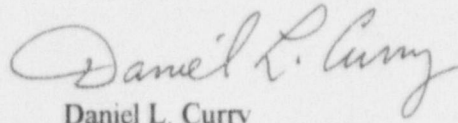
Millstone Nuclear Power Station Unit No. 2
Independent Corrective Action Verification Program (ICAVP)

Gentlemen:

Pursuant to your recent request, attached please find the Millstone Unit 2 ICAVP Bi-Weekly Report for week ending June 5, 1998.

Please call me at (610) 855-2366 if you have any questions.

Sincerely,



Daniel L. Curry
Parsons ICAVP Project Director

DLC:cvb

Attachments 1. Bi-Weekly Report

cc: E. Imbro (2) - USNRC
R. Laudenat - NNECo
J. Fougere - NNECo
Rep. Terry Concannon - NEAC
Project Files

9806160285 980610
PDR ADOCK 05000336
P PDR



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June 10, 1998

Doc. ID: NUM2-PPNU-1579-L

Mr. Richard Laudenat
Northeast Nuclear Energy Company
Millstone Nuclear Power Station Unit 2
P. O. Box 128
Waterford, CT 06385

Re: Millstone Unit 2 ICAVP
Bi-Weekly Progress Report

Dear Mr. Laudenat:

The following represents a bi-weekly progress report for work completed on Millstone Unit 2 ICAVP for the week ending June 5, 1998.

Meetings are planned with the NRC and NNECo this week to discuss the schedule for the remaining recovery activities, ICAVP reviews and NRC audits/inspections in order to develop an integrated plan for completion of Unit 2 ICAVP.

Tier 1 - System Vertical Slice Reviews

- HPSI system discovery complete. Corrective Action Review and DR closeout is ongoing.
- AFW system review is moving forward with recent receipt of new system calculations.
- RRC system review in progress.
- EDG system review in progress.
- Programs associated with EQ, HELB, SBO and Appendix R are on-hold pending receipt of updated information from NNECo.
- Impact of delayed accident reanalysis on Tier 1 systems review is still to be determined.

Tier 2 - Accident Mitigation System Review

- Analysis Review - 29 Design Basis Events (DBEv):
 - 12 DBEv Discovery Complete
 - 3 DBEv Discovery Complete (Back check revised analysis when received)
 - 3 DBEv Discovery Complete (Fuel handling accidents, previously reported as discovery complete, are being reanalyzed by NNECo)
 - 9 DBEv Validations in Progress (Need 4 Revised Analyses)
 - 2 DBEv Validations in Progress (Need Design Inputs and Revised Analysis)
- Design inputs have been received for 11 of the 16 DBEv being reanalyzed by NNECo. Completed analyses have been received for 4 of the 16 DBEv. Two additional analyses are reported as accepted by NNECo during this reporting period. These have been requested by Parsons (RAI-1699).
- NNECo provided a schedule update on June 2, 1998. This status is shown in Appendix B. The schedule for completion of the 5 radiological events is being reevaluated by NNECo.



- Discovery complete date is estimated as 4 weeks following receipt of revised analyses.

Tier 3 - Process Review

- Tier 3 review of change process samples is complete.
- Five additional setpoint change requests are in review due to the identification of 74 additional SCRs in the sample population.
- Review of Vendor Manual upgrade corrective actions has begun and will progress as NNECo completes the upgrades.

Other Activities:

- Phone conferences completed on May 19, 21, 26 and 28, 1998.

Discrepancy Reports

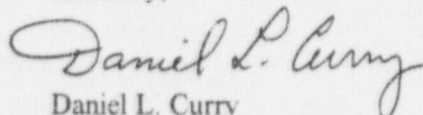
See Attachment A for details

RAI (Status)

A total of 1735 RAI's have been issued. Details of outstanding RAI responses and partial responses are provided on Attachment C.

Should you have any questions on the contents of this progress report, do not hesitate to contact me at (610) 355-2366.

Sincerely,



Daniel L. Curry
Project Director

DLC/cvb
Attachment

cc: J. Fougere
E. Imbro (USNRC)
E. A. Blocher
M. J. Akins
J. L. Caldwell
W. L. Dobson
R. T. Glaviano
J. F. Hilbish
Project Records

Attachment A to June 5, 1998 Bi-weekly Report

Discrepancy Report Summary and Status

- 608 Preliminary DR Numbers issued by Parsons
- 488 Preliminary DRs approved of which 15 determined to be invalid
- 132 Responses received to date from NU
 - 37 DRs **CLOSED**
 - 62 DRs **OPEN**
 - 33 DRs **IN-PROGRESS** (Awaiting revised response from NU on 2 DR's)
- Of the 37 Valid and **Closed** Discrepancies resolutions
 - 16 **Confirmed Discrepancies**
 - 12 **Previously Identified** by NNECo
 - 9 **Non-discrepant** Conditions
- Of the 16 Confirmed Discrepancies
 - 0 - Level 1
 - 0 - Level 2
 - 0 - Level 3
 - 16 - Level 4

Attachment B: Tier-2 AMSR Validation Open Items

(Status as of 6/05/98)

This attachment lists information needed to complete validation of the Critical Design Characteristics associated with the FSAR Chapter 14 Accident Analyses.

Preliminary Discrepancy Reports - Provide completion schedule and closure package for the listed DRs.

DR-027	Encl Bldg Ventilation System	(NNECo response received. Parsons review in progress)
DR-033	HPSI Flow	
DR-045	Deborator During Startup	
DR-202	MSSV Accumulation	(NNECo response received. Parsons review in progress)
DR-205	Pressurizer Safety Valve Accumulation	
DR-313	RPS RC Low Flow Trip Setpoint	(NNECo response received. Parsons review in progress)
DR-412	Containment Purge Supply Air Flow Deficit	

NNECo Identified Items - Provide completion schedule and closure package for the listed items.

Note: the listed items may have related UIRs, CRs, etc.

UIR-288	RCS Pressure Uncertainty
UIR-929	Pressurizer Level
UIR-2601	Containment Purge Flow Rate Used In Fuel Handling Accident Analysis
UIR-3198	Containment Purge Isolation Time Assumed for Fuel Handling Accident

Revised FSAR Chapter 14 Analyses - The below table lists events being reanalyzed by NNECo and identifies information needs to complete the Tier-2 validation. RAIs will be submitted upon NNECo acceptance of the revised analyses.

Event	Design Inputs	NNECo Accept Analysis (ECD)	Revised Analysis
14.1.3 Increase in Steam Flow	27 Feb 98 R	15 Jun 98	RAI (later)
14.1.5 Main Steam Line Break (RCS Analysis)	27 Feb 98 R	15 Jun 98	RAI (later)
14.2.1 Loss of External Load	27 Feb 98 R	Complete	23 Mar 98 R
14.2.4 Closure of Main Steam Isolation Valve	27 Feb 98 R	Complete	23 Mar 98 R
14.2.7 Loss of Normal Feedwater Flow	27 Feb 98 R	5 Jun 98	RAI (later)
14.4.1 Startup Rod Withdrawal Accident	24 Mar 98 R	Complete	RAI-1699
14.4.6 CVCS Malfunction Causing RCS Deborator	28 Apr 98 R	Complete	RAI-1699
14.6.5.1 Large Break LOCA (RCS Analysis)	28 Apr 98 R	31 Aug 98	RAI (later)
14.6.5.2 Small Break LOCA	28 Apr 98 R	17 Jul 98	RAI (later)
14.6.3 Steam Generator Tube Rupture	RAI-1115	12 Jun 98	RAI (later)
14.7.4.2.1 Fuel Handling Accident in Spent Fuel Pool	RAI-1573	31 Jul 98	RAI (later)
14.7.4.2.2 Fuel Handling Accident in Containment	RAI-1573	31 Jul 98	RAI (later)
14.7.5 Spent Fuel Cask Drop	RAI-1573	31 Jul 98	RAI (later)
14.8.2.1 Containment Analysis (MSLB)	Received	Complete	6 Mar 98 R
(14.8.2.1) Containment High Press Trip During MSLB	28 Apr 98 R	15 May 98	RAI (later)
14.8.2.2 Containment Analysis (LOCA)	Received	Complete	6 Mar 98 R
14.8.4 Radiological - Design Basis Accident	RAI-1573	31 Jul 98	RAI (later)
RC Pump Coastdown Curve	24 Mar 98 R	1 May 98	RAI (later)

Note: R = Documents received by Parsons on indicated date

OPEN RAIs WITH DUE DATES OF 5-22-98 OR EARLIER
DATA DATE 6-10-98

Tag	Rev	Sys	Tier	Title(s)	Issued	Client Com Date	Receipt Date	Release Status	Type of Docs Requested
"PARTIAL" RAIs OLDER THAN 2 WEEKS									
RAI-1004	2	MULT	T1	CALCS AS LISTED		01/23/98	05/01/98	PART	5
RAI-1046	4	CAR	T1	TO FACILITATE CORRECTIVE ACTION PROCESS CONCERNING UIR'S		02/10/98	04/22/98	PART	1
RAI-1054	1	HPSI	T1	B31.7- ASME SECT. III CODES RECONCILIATION CALC.		02/10/98	04/27/98	PART	5
RAI-1065	11	CAR	T1	COPY OF LISTED FSAR-MP2-CR & NOSE PACKAGES		02/13/98	05/07/98	PART	1
RAI-1083	7	MULT	T1	CALCS, EWR'S, ETC. AS LISTED		02/19/98	04/30/98	PART	5,9,7
RAI-1105	5	MULT	T1	LISTED INFO RELATED TO ENV. QUAL PROGRAM		02/19/98	03/31/98	PART	EQ
RAI-1115	4	MULT	T2	QA APPROVED DESIGN INPUTS AND COMPLETED ACCIDENT		02/25/98	04/27/98	PART	FSAR
RAI-1125	2	MULT	T1	DOC FOR SEIS CLASS I COMP ASSOCIATED W/ENCLOSURE BLDG VENT		02/25/98	04/15/98	PART	9
RAI-1240	1	CAR	T1	CR-M2-97-0461, PTSR 2-7-97, TRMCR 97-2-4		03/23/98	03/26/98	PART	FSARCR
RAI-1314	1	MULT	T2	PROCEDURES AND/OR ACCEPTANCE CRITERIA AS LISTED		04/09/98	04/30/98	PART	4
RAI-1339	1	AFW	T1	LISTED DOCS PROCURED WITH SP-M2-EE-0001		04/15/98	05/11/98	PART	8
RAI-1420	1	EDG	T1	PROVIDE LISTED INFO FOR PDCR 2-051-95		04/24/98	05/15/98	PART	5,10,8
RAI-1498	2	CAR	T1	SP-EE-362, EOP 2530, CALCS 88-032-00958 GE, REV 2,		05/11/98		PART	5
RAI-9001	1	MULT	WDN	DWGS 25203-34004, -34032 SHT 1, 2+			12/11/97	PART	DWGS
"RR" RAIs OLDER THAN 2 WEEKS									
RAI-1293	0	EDG	T1	SEIS COMPONENTS ASSOCIATED WITH EDG AS LISTED	03/27/98	04/03/98		RR	9
RAI-1336	0	AFW	T1	DOCS PERTAINING TO SEIS QUAL FOR COMPONENT	04/08/98	04/15/98		RR	5
RAI-1367	0	MULT	T1	DOCUMENTATION THAT ANSWERS LISTED QUESTIONS FOR	04/13/98	05/01/98		RR	4
RAI-0921	0	AFW	T1	REV TO CALC. 2-074-86-0827GP OR REPLACEMENT PIPE STRESS ANAL	12/15/97	12/22/97		RR	5
RAI-1087	0	AFW	T1	IDENTIFY TECH(PROUREMENT) SPECS AND VENDOR DOCS	02/12/98	02/19/98		RR	10
RAI-1223	0	EDG	T1	APPLICABLE POS & EQUIV. EVAL FOR LISTED PDCRS	03/13/98	03/20/98		RR	7
RAI-1375	0	CAR	T1	REF. CR M2-97-2751- NEW PROCED. TESTING MAN START OF AUX FW	04/15/98	04/21/98		RR	1
RAI-1405	0	MULT	T1	PROVIDE ITEMS AS LISTED FOR ENCL. BLDG I&C	04/16/98	04/23/98		RR	8
RAI-1414	0	CAR	T1	CR M2-97-2834- DC-1, ATTACH 6 OR DC-3, ATTACH 12 TO	04/21/98	04/28/98		RR	7
RAI-1440	0	MULT	T1	PROVIDE LISTED INFO FOR DAMPERS 2-AC-1, -3, -57	04/21/98	04/30/98		RR	9
RAI-1452	0	MULT	T1	ALL AVAIL DOCS PERTAINING TO SEIS QUAL OF LISTED COMPONENTS	04/27/98	05/04/98		RR	9
RAI-1466	0	EDG	T1	DOCS PERTAINING TO SEIS QUAL OF COMPONENTS. 2-HV-251, -252,	04/28/98	05/12/98		RR	5
RAI-1471	0	EDG	T1	CALCS FOR LISTED SEIS DUCT SUPTS FOR ENCL BLDG FILTRA SYS,	04/30/98	05/07/98		RR	2
RAI-1480	0	AFW	T1	PROCEDURE SP 2671	05/01/98	05/08/98		RR	9
RAI-1483	0	MULT	T1	PROVIDE ALL DOC PERTAINING TO SEIS QUAL OF	05/04/98	05/11/98		RR	CORRES
RAI-1489	0	MULT	T1	PROVIDE ALL DOC PERTAINING TO SEIS QUAL OF	05/06/98	05/13/98		RR	5
RAI-1499	0	AFW	T1	DOCUMENTS AS LISTED	05/06/98	05/13/98		RR	5
RAI-1517	0	MULT	T1	ALL DOCS PERTAINING TO SEIS QUAL OF LISTED COMPONENTS	05/07/98	05/14/98		RR	7,10
RAI-1520	0	AFW	T1	PROVIDE VERIFICATION TO CLASS 1E QUAL	05/07/98	05/14/98		RR	MEPL,PO
RAI-1523	0	MULT	T1	DOCUMENTS AS LISTED FOR ATWS	05/12/98	05/19/98		RR	MEPL
RAI-1526	0	MULT	T1	DOCS AS LISTED FOR ATWS	05/12/98	05/19/98		RR	EW
RAI-1540	0	AFW	T1	MEPL EVAL, MFG, TYPE, MODEL & PO FOR	05/13/98	05/20/98		RR	CORRES
RAI-1543	0	MULT	T1	REF. CR-M2-97-2320- EWR M2-97-118 & SUPT DOC, AR THAT WILL	05/13/98	05/20/98		RR	7
RAI-1552	0	AFW	T1	MEMO M297023-034, RESULTS OF PL-7 REVIEW PROVIDING VERIF	05/13/98	05/20/98		RR	5
RAI-1553	0	CAR	T1	PDCR MP2-90-059, GEN TEST PROCED PT 1410/21410/31410. REV 3	05/13/98	05/20/98		RR	5
RAI-1558	0	AFW	T1	ALL DOCS PERTAINING TO SEIS QUAL OF T078 AND T711	05/13/98	05/20/98		RR	5
RAI-1560	0	MULT	T1	ALL DOCS PERTAINING TO SEIS QUAL OF SOLENOID VLVS	05/13/98	05/20/98		RR	5

OPEN RAIs WITH DUE DATES OF 5-22-98 OR EARLIER
DATA DATE 6-10-98

6-11RAI.xls

Tag	Item	Sync	Par	Title(s)	Issued	Comm Due	Date	Status	Requested
RAI-1565	0	MULT	T2	LISTED INFO PERTAINING TO MP-2 MSLB CONTAINMENT ANALYSIS	05/14/98	05/21/98		RR	5
RAI-1568	0	AFW	T1	LATEST REV OF CALC PA84-065-753GE	05/14/98	05/21/98		RR	5
RAI-1569	0	AFW	T1	DOCS ASSOCIATED WITH LISTED INFO REQUESTS	05/14/98	05/21/98		RR	5
RAI-1571	0	AFW	T1	PROVIDE DOC DESIGN BASIS, TECH DESC, RIP, QUAL FOR RESISTORS	05/14/98	05/21/98		RR	DWG
RAI-1572	0	MULT	T3	ORIGINAL NSSS SCOPE OF SUPPLY SAFE RELATED COMPONENTS	05/14/98	05/21/98		RR	DATABASE
RAI-1573	0	MULT	T2	PROVIDE INFO AS LISTED AND DISCUSSED AT MTG ON 5/12/98	05/14/98	05/21/98		RR	FSAR
RAI-1575	0	MULT	T1	COMPARTMENT PRESSURIZATION ANALYSIS AND ALL INFO T-3	05/15/98	05/22/98		RR	5
TOTAL = 48									