

Northeast Utilities Service Company P.O. Box 270 Hartford, CT 06141-0270 (203) 665-5000

October 23, 1995

Docket No. 50-336 B15403

Re: 10CFR50.90

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

Millstone Nuclear Power Station, Unit No. 2
Additional Information Regarding
Proposed Revision to Technical Specifications
Cycle-Specific A.C. Sources Allowed Outage Time Extension

On October 6, 1995, Northeast Nuclear Energy Company (NNECO) proposed to amend the Millstone Nuclear Power Station, Unit No. 2 Technical Specifications by extending the Allowed Outage Time (AOT) when an offsite circuit is inoperable from the current 72 hours to seven days for the remainder of Cycle 13. (1) This change would avert a Millstone Unit No. 2 shutdown should offsite power obtained from the Millstone Unit No. 1 cross-tie become unavailable for more than 72 hours.

In a telephone conversation on October 12, 1995, the NRC Staff identified the need for the following additional information regarding the proposed revision to the Technical Specifications:

- Description of the scope of work to be performed on the Millstone Unit No. 1 electrical cross-tie equipment, including drawings, an estimate of man-hours for each task, the potential for exceeding the current 72 hour AOT, and the potential for the work to cause an inadvertent loss of normal power to Millstone Unit No. 2;
- Description of any compensatory actions that would enhance the reliability of the other sources of A.C. power to Millstone Unit No. 2 when the Millstone Unit No. 1 cross-tie is unavailable, including restricting work on the 345 kV lines into the Millstone Unit No. 2 switchyard, the Millstone Unit

⁽¹⁾ J. F. Opeka letter to U.S. Nuclear Regulatory Commission, "Millstone Nuclear Power Station, Unit No. 2, Proposed Revision to Technical Specifications Cycle-Specific A.C. Sources Allowed Outage Time Extension," dated Jctober 6, 1995.



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No. 2 reserve station service transformer, and the Millstone Unit No. 2 diesel generators, which can be otherwise postponed;

- Details regarding the dominant sequences affecting overall Millstone Unit No. 2 plant risk when the Millstone Unit No. 1 cross-tie is unavailable.

Attachment 1 to this letter transmits the requested additional information regarding the proposed license amendment as listed above.

Also, NNECO had previously requested that the NRC Staff process and issue the proposed amendment prior to November 5, 1995, when the work on the relevant electrical cross-tie equipment was scheduled to start. Presently, work on the cross-tie equipment has been rescheduled and is not expected to begin prior to November 29, 1995. Accordingly, NRC action on the proposed amendment by November 22, 1995, will provide ample time to avert a potential Millstone Unit No. 2 shutdown should the Millstone Unit No. 1 cross-tie become unavailable for more than 72 hours.

Additionally, NNECO requested that the original proposed change be applicable for the remainder of Millstone Unit No. 2 Cycle 13 (which is currently scheduled to end in May 1997). The NRC staff, however, considers that if the proposed AOT extension to 7 days is approved it should be limited to the immediate need (i.e., the upcoming Millstone Unit No. 1 outage). Accordingly, NNECO agrees to further revise the proposed Technical Specifications change to Section 3.8.1.1 by replacing the words "Except that for Cycle 13 only" with "During the Millstone Unit No. 1 Refueling Outage 15."

In view of the above limitation on the applicability of the proposed AOT extension, NNECO has also revised the proposed change to the Technical Specification BASES section as a footnote to page B 3/4 8-1 which reads as follows:

"A probabilistic safety assessment has examined the affect of extending the allowed outage time to seven (7) days for the electrical cross-tie from Unit 1 to Unit 2 during the Unit 1 Refueling Outage 15. The results show that the increase in risk is acceptable provided that two diesel generators are available."

Attachment 2 to this letter is a copy of the revised marked-up version of the appropriate sections of the current Technical Specifications. Attachment 3 is the retyped Technical Specifications sections.

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It should be emphasized that the additional information provided by this letter and the revised Technical Specifications changes do not alter the content or conclusion of the safety assessment, the environmental consideration or the determination of no significant hazards consideration previously provided in our letter to the Staff of October 6, 1995. Specifically, NNECO has determined that the proposed change does not involve any significant affect on public health and safety.

The following is an amplification to NNECO's commitment B15380.1 Other statements within this letter are provided for information only.

B15403.1 NNECO will limit work on the other sources of A.C. power to Millstone Unit No. 2 when the electrical cross-tie to Millstone Unit No. 1 is unavailable during the upcoming Millstone Unit No. 1 Refueling Outage 15. This includes work on the 345 kV lines, the switchyard, the Millstone Unit No. 2 RSST, and the Millstone Unit No. 2 diesel generators.

If there are any additional questions regarding this submittal, please contact Mr. Mario Robles at (203) 440-2073.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

FOR: J. F. Opeka

Executive Vice President

BY:

E. A. DeBarba Vice President

cc: T. T. Martin, Region I Administrator

G. S. Vissing, NRC Project Manager, Millstone Unit No. 2
P. D. Swetland, Senior Resident Inspector, Millstone Unit Nos. 1, 2, and 3

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Subscribed and sworn to before me

this 23Rd day of Oclober, 1995

Cherry Scheman

Date Commission Expires: 8/31/98

Attachment 1

Millstone Nuclear Power Station, Unit No. 2

Additional Information Regarding
Proposed Revision to Technical Specifications
Cycle-Specific A.C. Sources Allowed Outage Time Extension

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Additional Information Regarding
Proposed Revision to Technical Specifications
Cycle-Specific A.C. Sources Allowed Outage Time Extension

WORK TO BE PERFORMED ON UNIT 1 ELECTRICAL CROSS-TIE EOUIPMENT

Bus 4160-14H is scheduled to be de-energized for 48 hours, beginning November 29, 1995, and ending November 30, 1995. The workscope includes inspecting, cleaning, and testing the buswork and cubicle. Power-Vac circuit breakers from this bus will also be inspected, serviced (i.e., preventative maintenance) and tested. Specific manhours for each task are not relevant.

The likelihood for exceeding the 72 hour Allowed Outage Time (AOT) in the Unit 2 Technical Specifications for this bus is considered small. Unit 1 personnel believe that the scheduled works fits within the outage window. In the unlikely event that unanticipated problems arise, personnel from General Electric's Apparatus Service Center will be on-site to help expedite the resolution of these problems.

A review of the work to be performed on bus 14H indicates that there is no potential for causing a Unit 2 loss of normal power (LNP) since no Unit 2 LNP circuitry is located in this area. Drawings showing the 14H bus are also provided herein.

ACTIONS TO ENHANCE RELIFICITY OF A.C. POWER TO UNIT 2

In order to monitor and control the risk of varying plant configurations, Unit 2 has instituted an on-line risk monitoring program. This program quantifies the risk attributed to maintenance and surveillance activities using the Unit 2 probabilistic risk assessment model on a forward-looking weekly basis. On a daily basis, changes to the work schedule are evaluated to account for any changes that may occur during the course of the week. As such, this program will consider maintenance activities on the Unit 1 to Unit 2 cross-tie and will ensure planned maintenance and surveillance activities are carefully managed to minimize plant risk.

When the electrical cross-tie to Millstone Unit No. 1 is unavailable during the upcoming Unit 1 refueling outage 15, NNECO will limit work on the other sources of A.C. power to Unit 2. This includes work on the 345 kV lines, the switchyard, the Unit 2 reserve station service transformer, and the Unit 2 diesel generators. This restriction will be enforced as part of the online maintenance risk monitoring program described above.

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DOMINANT SEQUENCES AFFECTING PLANT RISK WHEN CROSS-TIE UNAVAILABLE

Also provided herein are the dominant sequences associated with requantifying the Unit 2 LNP event tree with A.C. power recovery scenarios modified to reflect the configuration when the Unit 1 cross-tie is unavailable. The increase in the frequency of Core Melt Frequency (CMF) due to an LNP is approximately 10 percent. In other words, with the MP1 cross-tie unavailable, the contribution that an LNP initiating event has to CMF increases from approximately 25 percent of the baseline CMF (3.41E-05 event/year) to 35 percent of the baseline CMF. As shown, the emergency diesel generators and auxiliary fcedwater system are important to these sequences.

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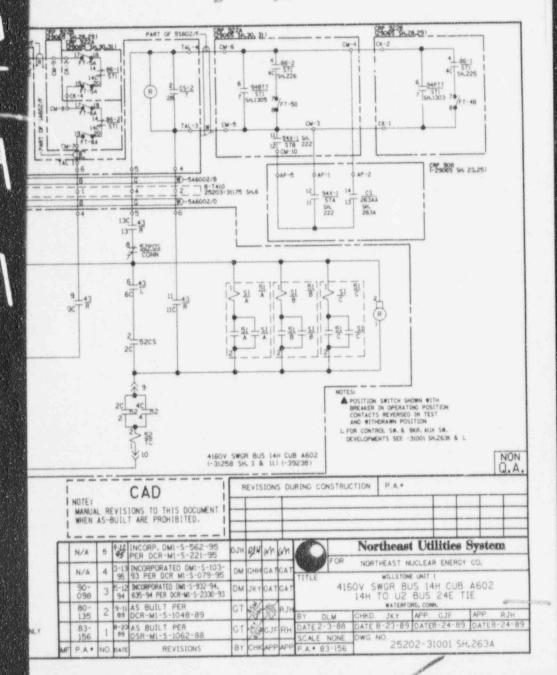
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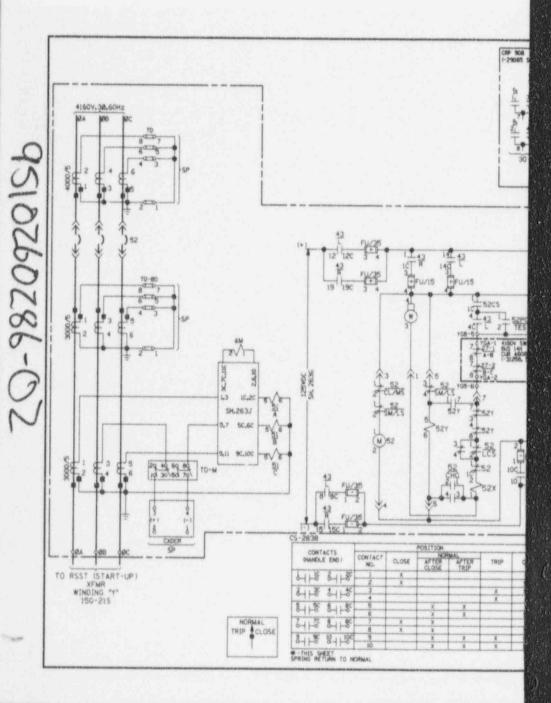
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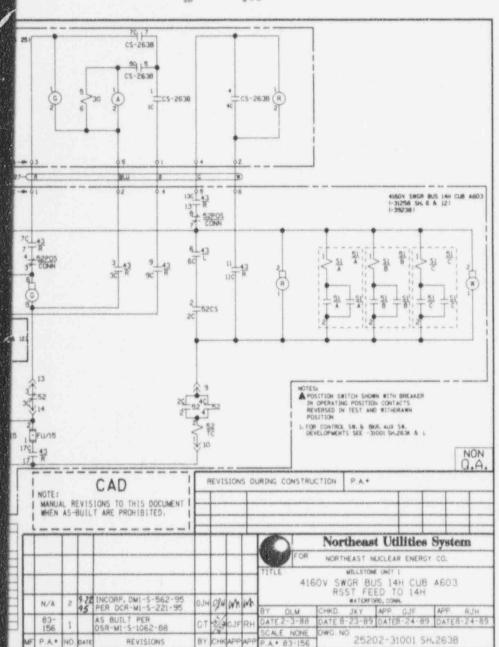
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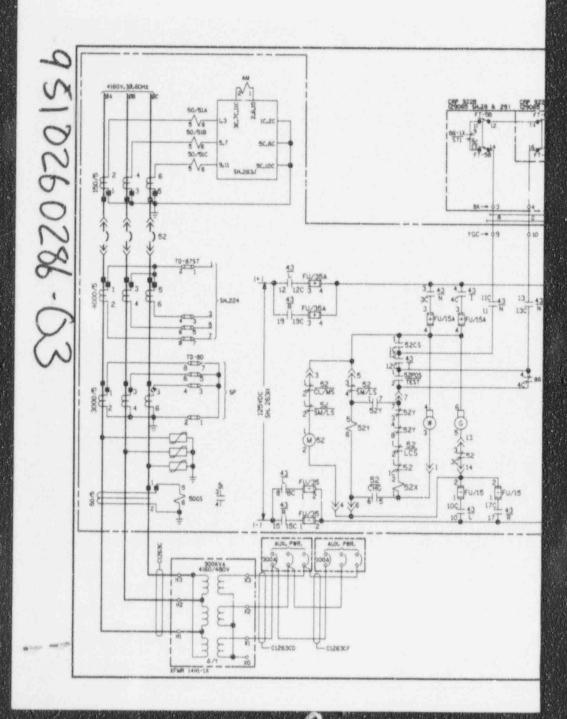
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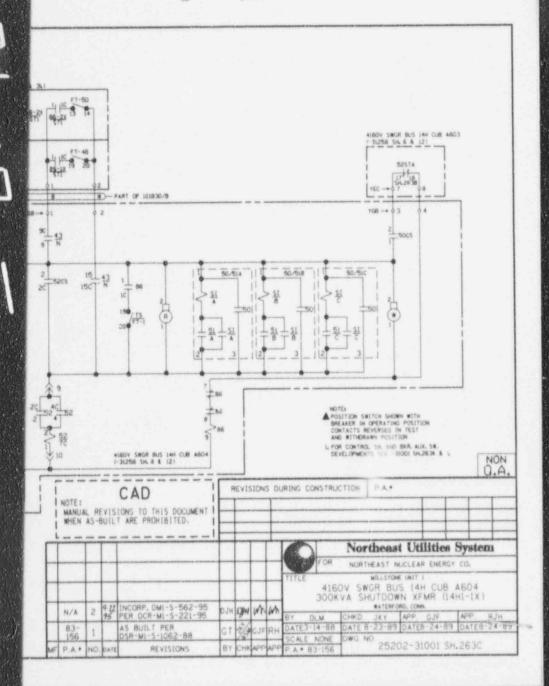


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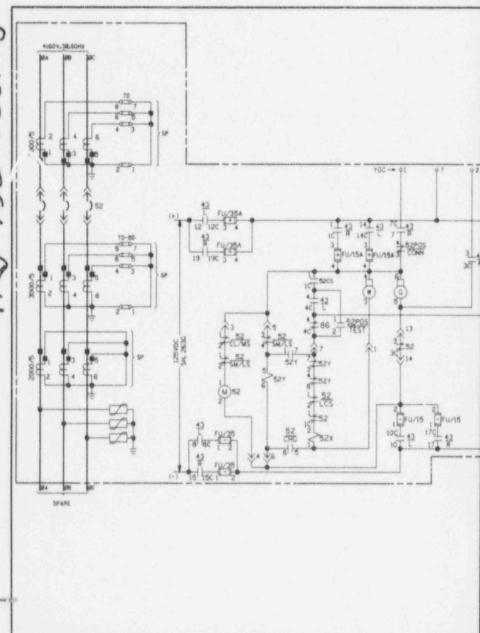




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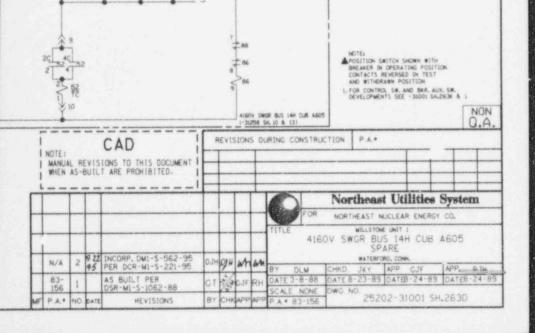


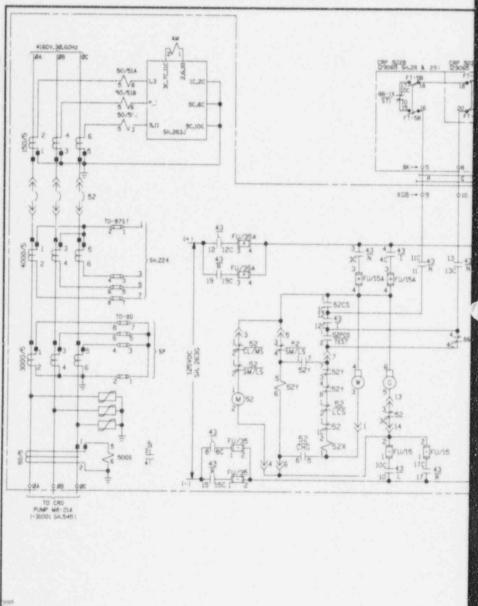
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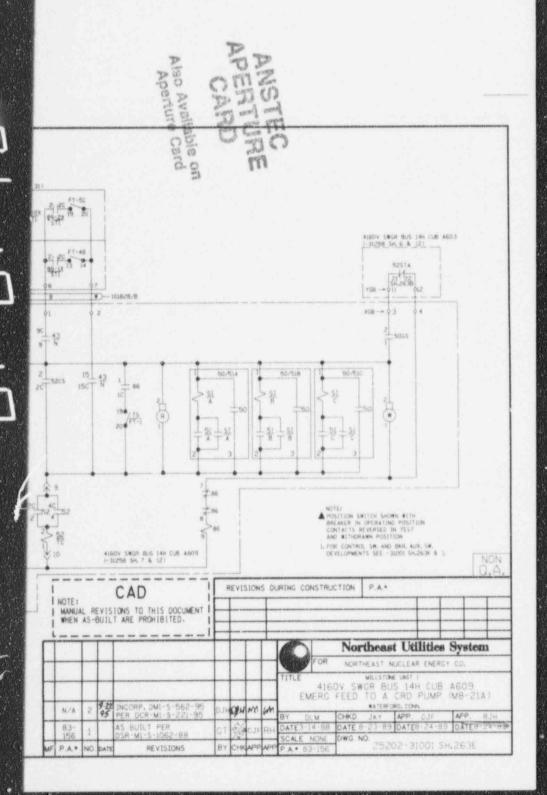


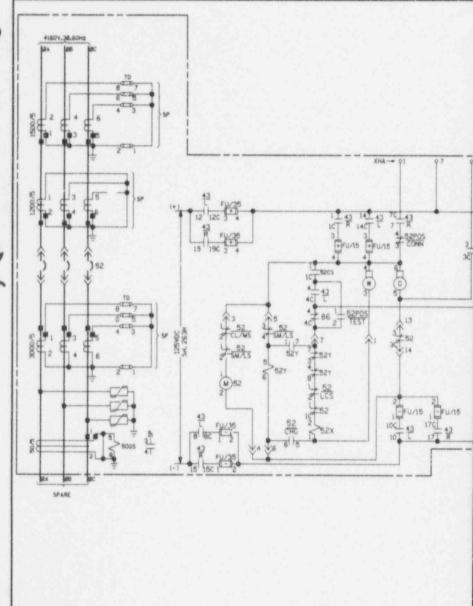


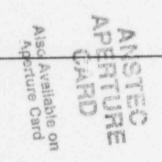
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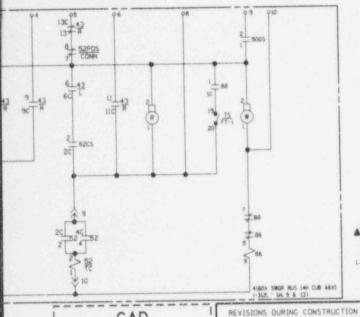










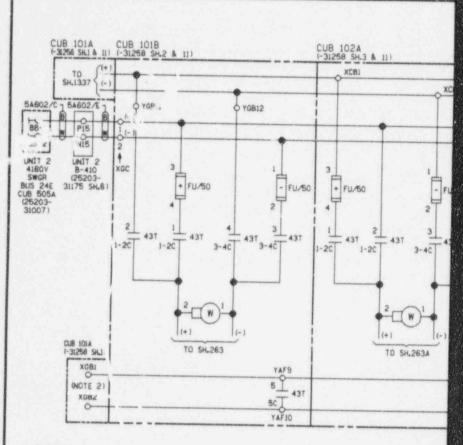


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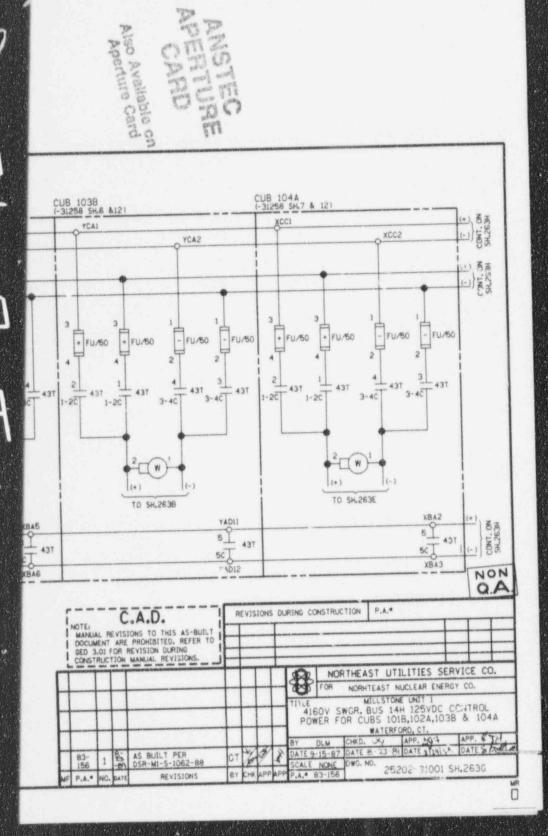
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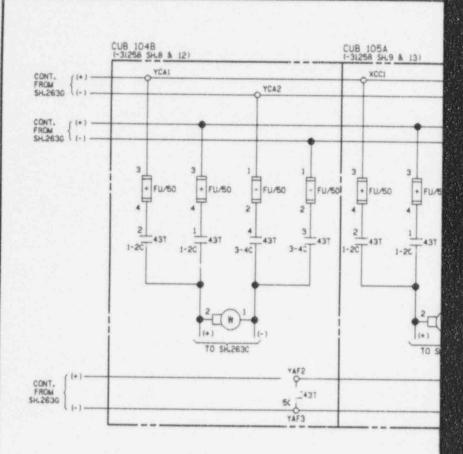
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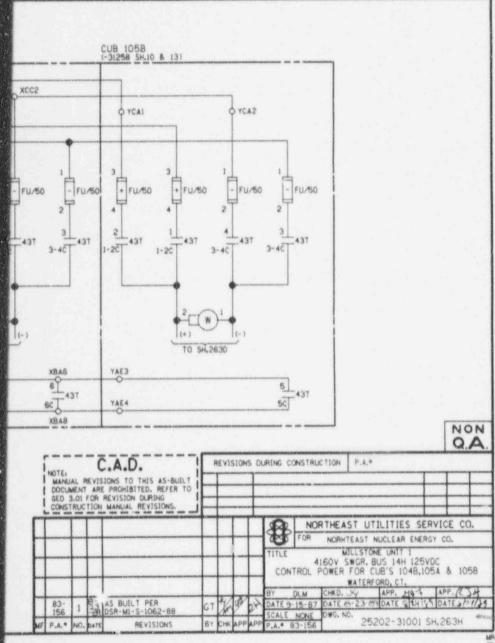
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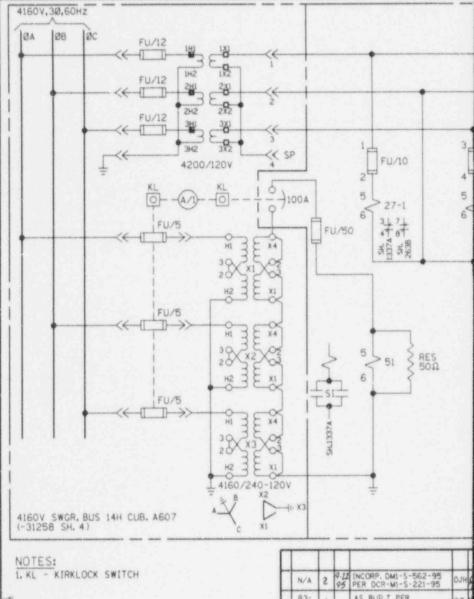


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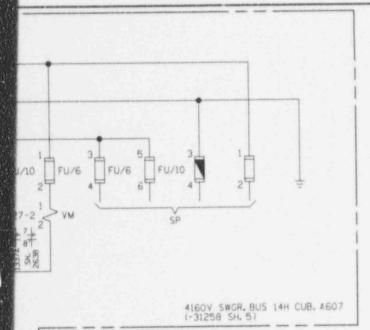


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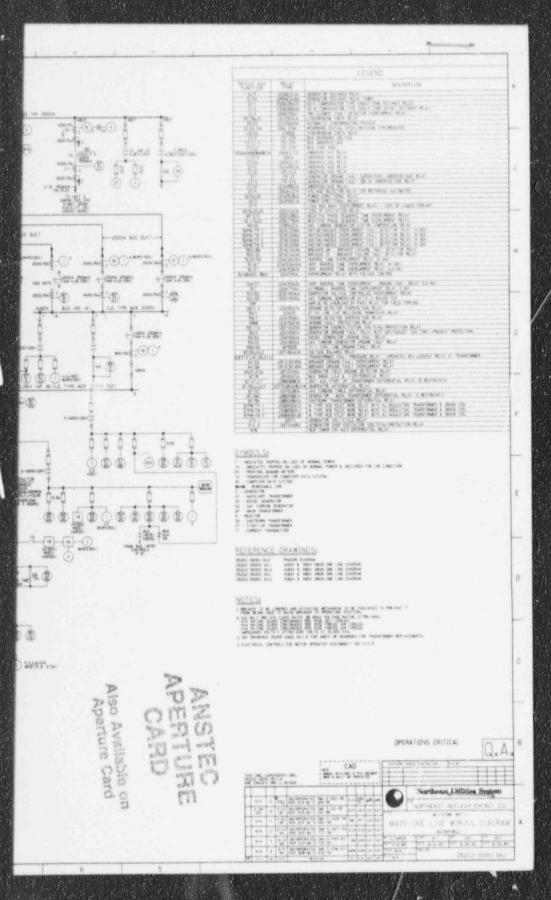
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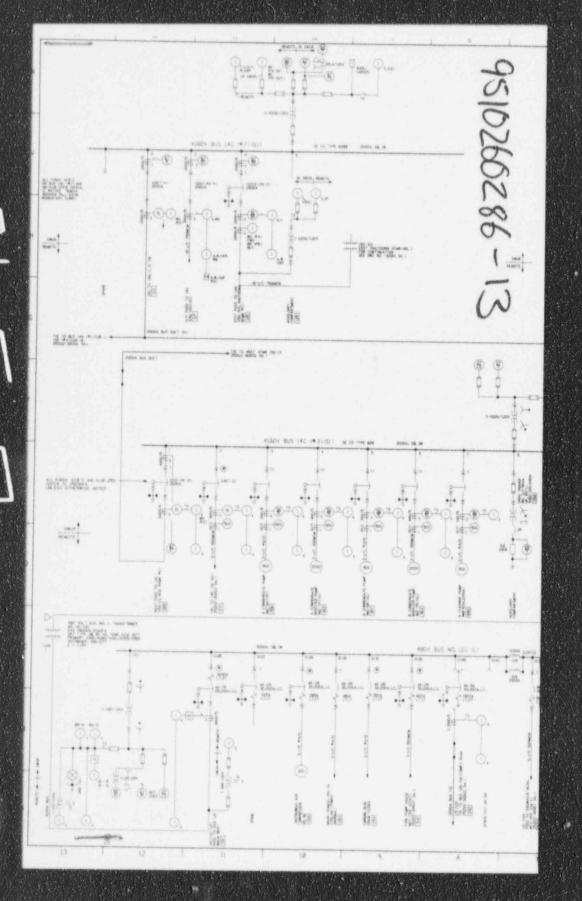
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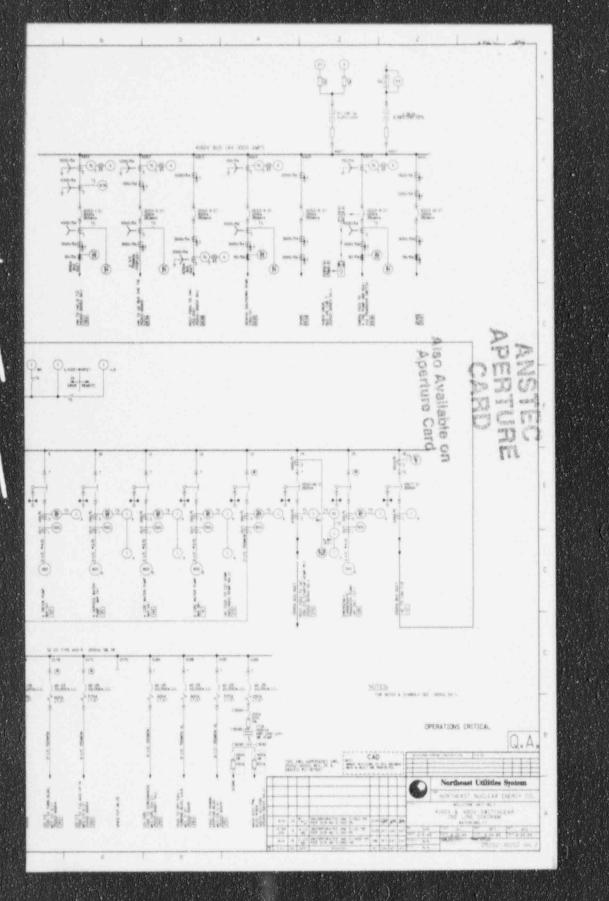
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TEH1	TEH	3.918-07	3.1 TO LOSS OF NORMAL POWER INITIATING EVENT AMCODGEPLTKI <pre></pre>
TEH1	TER	3.81E-07	3.1 T8 LOSS OF NORMAL POWER INITIATING EVENT AMODDCAFLTJI <module> D/G 15G-12U FAULTS FMODMOBDELCB <module>md Pump 98 FAILS TO DELIVER FQ1QXOP4 SD AFW PUMP P4 IS 0.0.S. FOR MAINT.</module></module>
TER1	TES	3.348-07	2.6 T8 LOSS OF NORMAL FOMER IDITIATING EVENT AMODDGAFLIJI <module> D/G 15G-12D FAULTS FMODSDPDELD <module> SD PUMP FAILS TO DEL AFW TO HEADERS FP90K09B AFW HD PUMP 9B IS C.O.S. DUE TO MAINT.</module></module>
TERI	TRE	3.342-07	2.8 T8 LOSS OF NORMAL POWER INITIATING EVENT AMODDCBPLTKI <module> D/G 15G-130 PAGLYS FMODSDPDELD <module> SD PUMP FAILS TO DEL AFW TO HEADERS FP9QK09A AFW MD PUMP 9A IS 0.0.5. DUE TO MAINT.</module></module>
7EH1	RET	2.732-07	2.3 T8 LOSS OF NORMAL POWER INITIATING EVENT FMODCCPHDRG (MODULE) CCFs OF THE COMMON INJECTION HEADER VALVES OABAFIND COCNITIVE ERROR TO INITIATE BLEED AND FEED/LHP INITIATOR
TEGH1	TEGH	2.628-07	2.2 T8 LOSS OF NORMAL POWER INITIATING EVENT ACRECS4 RECOVERY OF AC POWER IN 54 MINUTES AMODECPLEPHAB < module> COMMON CAUSE PAILURE OF AC POWER GIVEN AN LMP FMODSDPDELD < MODULE> SD PUMP FAILS TO DEL APW TO READERS
TEH1	TER	2.37€-07	2.0 T8 LOSS OF BORMAL POWER INITIATING EVENT AMODDGAFLIJI <module> D/G 15G-12V FAULTS FP9QXO9B AFW MD PUMP 98 IS 0.0.9. DUE TO MAINT. FQ1PXCP4 COGNITIVE ERROR FOR OPS. FAILING TO INIT. SD PUMP.</module>
TER1	TER	2.376-07	2.0 T8 LOSS OF BORMAL POWER INITIATING EVENT AMOODGBFLIKI <module> D/G 15G-13U FAULTS FF9QX09A AFW MD PUMP 9A IS 0.0.S. DUE TO MAINT. FQ1PMCP4 CWITIVE ERROR FOR OPS. FAILING TO INIT. SD PUMP.</module>

See May 1			10/4
TECH1	TECH	1.998-07	1.6 T8 LOSS OF NORMAL POWER INITIATING EVENT ACREC54 RECOVERY OF AC POWER IN 54 MINUTES AMODDGAPLTJI cmodule D/G 15G-12U FAULTS AMODDGAPLTKI cmodule D/G 15G-13U FAULTS FMODSDPDELD cmodule SD PUMP FAILS TO DEL APW TO READERS
TECH1	TECH	1.86E-07	1.5 T9 LOSS OF NORMAL POWER INITIATING EVENT ACRECS9 RECOVERY OF AC POWER IN 54 MINUTES AMODECEPLIEFJKAB CMODULE> COMMON CAUSE FAILURE OF AC POWER GIVEN AN INP FQIPMCP4 GRITIVE FRROR FOR OPS. FAILING TO INIT, SD FUMP.
TEHI	TES	1.75E-07	1.4 T8 LOSS OF NORMAL POWER INITIATING EVENT AMODDCEPLIKI (module) D/G 15G-130 FAULTS FMODMDADELCA (MOBULE) MD PUMP TRAIN A FAILS TO DELIVER FQ1PXOP4 OF FAILS TO PLACE THE 3D PUMP TRAIN IN SERVICE-PROC. ERRORS.
TER1	TEE	1.75E-07	1.4 T8 LOSS OF NORMAL POWER INITIATING EVENT AMODDGAFLIJI <pre></pre>
TEGRI	TECH	1.69E-C?	1.4 TO LOSS OF BORNAL POWER INITIATING EVENT ACREC54 RECOVERY OF AC POWER IN 54 MINUTES AMODCCPLMPJNAB <module> COMMON CAUSE FAILURE OF AC POWER GIVEN AN LMP FQIQXOP4 SD AFW PUMP P4 IS O.O.S. FOR MAINT.</module>
TEHI	TER	1.432-07	1.2 T8 LOSS OF BORMAL POWER INITIATING EVENT AMCODGAFLTJI <modwle> D/G 15G-12U FAGLTS FMODCCPEDRG <module> CCFs OF THE COMMON INJECTION READER VALVES</module></modwle>
TEBL	TER	1.438-07	1.2 T8 LOSS OF NORMAL POWER INITIATING EVENT AMODDGBFLTKI <module> D/G 15G-13U FAULTS FMCOCCFEDRG <mcdule> CCFs OF THE COMMON INJECTION SEADER VALVES</mcdule></module>
TECH1	TECH	1.61E-07	1.2 TO LOSS OF BORMAL POWER INITIATING EVENT ACREC54 RECOVERY OF AC POWER IN 54 MINUTES ANODDGAPITJI (module) D/G 15G-12U FAULTS ANODDGRFITKI (module) D/C 15G-13U FAULTS PQ1PXCP4 COGNITIVE ERROR FOR OPS. FAILING TO INIT. SD PUMP.
TECHI	TECH	1.28E-07	1.1 T8 LOSS OF NORMAL POWER INITIATING EVENT ACRECS4 RECOVERY OF AC POWER IN 54 MINUTES AMODDGAPLTJI cmodule D/G 15G-12U FAULTS AMODDGBFLTKI cmodule D/G 15G-13U FAULTS FQ1QXOP4 SD AFW POMP P4 IS 0.C.S. FOR MAINT.
TEH1	TES	1.202-07	1.0 T8 LOSS OF NORMAL POWER INITIATING EVENT ADSQX13U DIESEL GENERATOR 15G-13U OUT OF SERVICE DUE TO MAINTENANCE FMODMDADELCA (MODULE) MD PUMP TRAIN A FAILS TO DELIVER FMODSDPDELD (MODULE) SD PUMP FAILS TO DEL AFM TO HEADERS
TERI	TEE	1.20E-07	1.0 T6 LOSS OF MORMAL POWER INITIATING EVENT ADQUATED DIESRL GENERATOR LSG-120 OUT OF SERVICE DUE TO MAINTENANCE FMOONDBDELCB (MODULE)MD PUMP 98 FAILS TO DELIVER PHODSDPDELD (MODULE) SD PUMP FAILS TO DEL AFW TO HEADERS
TEAL	TER	9.92E-08	AMODDGAFLIJI (module> D/G 15G-12U FAULTS FP9QX09B AFW HD PUMP 9B IS 0.0.6. BUE TO MAIST. FQ1PX0P4 OF FAILS TO PLACE THE SD PUMP TRAIN IN SERVICE-PROC. ERRORS.
TEE1	TRH	9.928-08	8 78 LOSS OF NORMAL POWER INITIATING EVENT AMODDGBFLINI (module) D/C 15G-130 FAULTS FP9QX09A AFE MD POMP 9A IS 0.G.S. DUE TO MAINT. FQ1PXOP4 OF FAILS TO PLACE THE SD POMP TRAIN IN SERVICE-PROC. ERRORS.
TIGLI	TIGL	8.54E-08	ACRECI3 ADGOMIZU ADGOMIZU ANODDEPITKI AN
TLGLI	TIGL	8.54E-08	.7 TO LOSS OF BORMAL POWER INITIATING EVENT

ACRECI3 RECOVERY OF AC POWER IN 13 HOURS (MEAN COFING TIME) ADSOXISO DIESEL GEARRATOR 15G-130 OUT OF SERVICE DUE TO MAINTERABECE AMCODGAFLEJI CHOCOLLE> D/G 15G-120 PANISTES	SSS	TO LOSS OF MORBAL POWER INITIATING EVERY AMEGNICU DIESEL GENERATOR 15G-120 OUT OF SERVICE DUE TO MAINTEMANCE FOLDWORMSDELCE CONTINUE FOR PARTIES TO DELIVER FOLDWORM	LOSS OF ROCKERY RECOVERY NPUKAB CROCKIES	IOSS O	LOSS O	IOSS O	LOSS OF MODELS IN TRAINS IN DEL AFF IN HEADERS LOSS OF MODELS INTITIATING EVENT RECOVERY OF AC PORER IN 54 NINUTES I <pre></pre>	LOSS O	ABSCACT? INSE OF WORKER PARTIES TO DELIVER ABSCACT? FROOMDIDEICS CANDULES OF PRIFE TO DELIVER PROOMDIDEICS CANDULES OF PRIFE TO DELIVER PROOMDIDEICS CANDULES OF PRIFE TO DELIVER PROOFINERS AMONINATES OF DELIVER OF PARTIES TO DELIVER PROPERTY OF THE PARTIES O	5307	LOSS C UDCCFIDING WCI908	COCCENDED VCI 90A LOSS O	FOUNDER OF THE BOOK OF THE CONTROL OF THE TO MAINT. FOUNDED FOR CONTROL ERROR FOR OPE, FALLING TO INIT. SO FUND. THE COST OF WORKEL PORTER INITIATING ENERGY FINCOSOPELICS CHOUNTEND THE 98 FAILS TO DELIVER FINCOSOPELICS CHOUNTEN FORP SA FAILS TO START OR ESPAS EQUIPMENT FAILS
			9	AS IN IN	9	17 ME BI B	N, 12 15 15 15 15 15 15 15 15 15 15 15 15 15	4	*	4		A PER	4
	8.498-08	8.492-08	7.782-08	7.715-08	6.76E-08	6.128-06	5.902-08	5.39E-08	5.398-08	5.23E-08	5.152-08	4.808-08	4.662.08
	H2T	128	TEGH	TER	1251	TER	18CH	121	TER	321	116.8	11.1	EZI
	1681	1281	TEGRI	TEBI	TEHT	1281	TECHI	TERT	7231	TERI	TEBI	TERI	TEHI

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2-2 -2-2 -2-2	21.000	resident 2

TEHI	TES	4.68E-08	.4 TO LOSS OF NORMAL POWER INITIATING EVENT FMODHDADELCA <module> MD PUMP TRAIN A FAILS TO DELIVER FMODSDPDELD <module> SD PUMP PAILS TO DEL APR TO HEADERS FMODDSCRESSES CONTRACTOR OF THE PROPERTY OF THE PR</module></module>
TIGLI	TIGE	4.392-08	WMODPSCFTSHIW <pre>cmodule>SW PUMP SC FAILS TO START OR ESPAS EQUIPMENT FAILS .4 T8</pre>
TEB1	TEN	4.352-08	4 T8 LOSS OF NORMAL POWER INITIATING EVENT AMOD24CLMPI
TECHI	TECH	4.03E-08	ACRECS4 RECOVERY OF AC POWER INITIATING EVENT ACRECS4 RECOVERY OF AC POWER IN 54 MINUTES ADGORALD DIECE: GENERATOR 15G-120 OUT OF SERVICE DUE TO MAINTENANCE AMCODERPLIKI (modula) D/G 15G-130 PAULTS FMODSDPDELD (MODULE) SU PUMP FAILS TO DEL AFW TO SEADERS
TEGHI	TECH	4.03E-08	.3 TO LOSS OF NORMAL POWER INITIATING EVENT ACRECS4 RECOVERY OF AC POWER IN 54 MINUTES ADGORISU DIESEL GENERATOR 15G-13U OUT OF SERVICE DUE TO MAINTERANCE AMODDGAFITJI CMCdwle> D/G 15G-12U FAULTS FNCDSDPDELD CMCDULE> SD PUNP FAILS TO DEL AFW TO BEADERS
TEHI	228	3.95E-08	.3 T6 LOSS OF BORMAL POWER INITIATING EVENT AMOD24CLEFT (modele) FAILURE OF BUS 24C LNP LOGIC FHODMDBDELCB (MODULE) HC PUMP 98 FAILS TO DELIVER FOLOXOP4 SD AFW PUMP P4 IS C.O.S. FOR NAINT.
TLGLI		3.858-08	.3 T8 LOSS OF BORMAL POWER INITIATING EVENT ABZGKCT2 TIE BREAKER 24C-IT-2 FAILS TO OPEN ACREC13 RECOVERY OF AC POWER IN 13 HOURS (MEAN COPIEC TIME) AMODDGEPLTKI Cmodule> D/G 15G-13U FADLTS

TOTAL: 8.67E-06 71,68% of CM Total Prequency 1.21E-05