

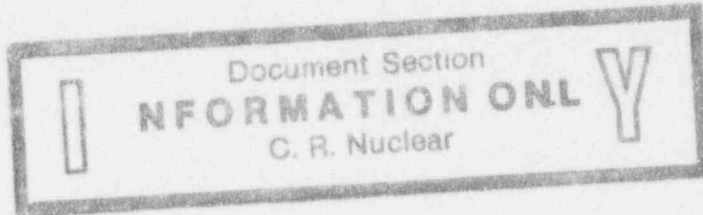
LOSS OF NNI-Y

1.0 ENTRY CONDITIONS

IF a loss of NNI-Y AC or DC power exists
THEN use this procedure.

2.0 IMMEDIATE ACTIONS

There are no immediate actions for this procedure.



This Procedure Addresses Safety Related Components		
Approved by MNPO	<i>Gregory Wilson</i>	Date <u>3/18/94</u>
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LONNIY

3.0 FOLLOW-UP ACTIONS

ACTIONS

DETAILS

Note

Control board instrumentation may be verified with the Redundant Instrument Panel during performance of this procedure.

3.1 — Stabilize the plant with valid instruments

1. — Valid instruments include:

- o RCS Press / RC-158-PI2
- o RCS Press / RC-159-PI2
- o FDW Flow / SP-8A-FIR1
- o Turb Hdr / SP-10A-PIR1
- o Tave / RC-12-TAI
- o A DH Flow / DH-1-FI1
- o B DH Flow / DH-1-FI3-1
- o PZR Level / RC-1-LIR1
- o PZR Level / RC-1-LIR3

2. — Position instrument selector switches to the NNI X powered instrument

3.2 — Verify SASS modules swapped to the alternate channel

o A red trip light on the SASS module indicates that the channel has swapped to the alternate instrument

3.3 — Control RCS PRESS based on plant conditions, using:

- o PZR Heaters
- o PZR Spray
- o PORV

o Auto RCS PRESS control is unaffected

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3.0 FOLLOW-UP ACTIONS (CONT'D)

ACTIONS

DETAILS

3.4 — Maintain PZR level ≥ 50 ".

- o Makeup control (MUV-31) is unaffected.
- o IF NNI-Y AC is NOT energized, THEN Letdown flow control (MUV-51) will fail to 50%.
- o IF MUV-51 is failed, THEN Letdown flow may be reduced by using MUV-50 or MUV-49.

IF MUV-49 will NOT close, THEN close ALL letdown cooler outlet isolation valves:

- MUV-40, MUHE-1A,
- MUV-41, MUHE-1B,
- MUV-505, MUHE-1C.

3.5 — Ensure both Condensate Pump controllers are selected to "HAND" and manually control condensate flow with the individual pump controllers.

IF Condensate Pump controllers are NOT energized, THEN ensure the following:

- o VBDP-3 Bkr #38 is closed.
- o $\pm 24V$ DC Backup Power Supply, located in NNI Cabinet 3 Row 11, is energized, Top Row.

3.6 — Notify SOTA, if available, of plant conditions.

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3.0 FOLLOW-UP ACTIONS (CONT'D)

ACTIONS

DETAILS

3.7 — Determine the status of
NNI-Y DC power.

- o Observe the 4 power supply monitor lights located in NNI Cabinet 7, Row 3, Module 15.
- o NNI-Y DC power is energized if at least 1 POS and 1 NEG light is lit.

3.8 — Refer to Enclosure 2 for
unreliable instrumentation.

3.9 — Ensure the conditions
maintained by the affected
interlocks are not
exceeded.

Refer to Enclosure 1.

3.10 — WHEN restoring power to
NNI-Y,
THEN GO TO OP-501,
Reactor Non-Nuclear
Instrumentation beginning
with Step 4.2.1.

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Enclosure 1

Interlocks Affected by a Loss of NNI-Y

<u>INTERLOCK</u>	<u>DC DE-ENERGIZED</u>	<u>AC DE-ENERGIZED</u>
MUV-112, MAKE-UP TANK LOW-LOW LEVEL INTERLOCK	Disabled if Y Transmitter selected (will not transfer upon LOW-LOW MUT level)	Disabled if Y Transmitter selected (will not transfer upon LOW-LOW MUT level)
PORV (LOW POSITION)	Disabled (will not Auto open)	Disabled (will not Auto open)

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Enclosure 2

Unreliable Instrumentation Due to a Loss of NNI-Y DC Power

UNRELIABLE INSTRUMENT	TITLE
	<u>ICS Panel</u>
RC-5A-TI2 RC-5B-TI2 RC-7B-TAI RC-14-FIR RC-14B-FI SP-7B-FI	Loop A NR T _c Loop B NR T _c Loop B T _c RCS Total ^{ave} Flow Loop B RCS Flow Loop B S/U FW Flow
	<u>TGF Panel</u>
SP-4B-TI SP-4B-TIR (B)	B Main Stm Temp B Main Stm Temp
	<u>PSA Panel</u>
CD-101-LI MU-2-PI MU-4-FI MU-5-TI MU-18-DPI SF-1-LI1 SF-1-LI2	Hotwell Level MUP Disch Press Letdown Flow Letdown Temp Postfilter DP SF Pool A Level SF Pool B Level
	<u>ES Panel</u>
BS-1-FI2 CF-1-PI2 CF-1-PI4 CF-2-LI2 CF-2-LI4 DH-2-TI2 DH-6-TI2 DH-1-FI2 MU-23-FI4 MU-23-FI3	B RB Spray Flow A CFT Press B CFT Press A CFT Level B CFT Level B DH Cooler Outlet Temp B DH Suction Temp B DHP Flow Loop A1 WR HPI Flow Loop B2 WR HPI Flow

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Enclosure 2

Unreliable Instrumentation Due to a Loss of NNI-Y DC Power

UNRELIABLE INSTRUMENT

TITLE

UNRELIABLE INSTRUMENT	TITLE
	<u>Redundant Instrument Panel</u>
DH-1-FI7	B DHP Flow
MU-4-FI1	Letdown Flow
MU-14-LI2	MUT Level
MU-24-FI2	Makeup Flow
RC-1-LI4	PZR Level
RC-2-TI2	PZR Temp
RC-3B-PI2	RCS Press WR
RC-4A-TI4	Loop A WR T _h
RC-4B-TI4	Loop B WR T _h
RC-5A-TI4	Loop A WR T _c
RC-5B-TI4	Loop B WR T _c
RC-131-PI1	RCS Press LR
SP-1A-LI5	A OTSG S/U Level
SP-1B-LI4	B OTSG S/U Level
SP-1A-LI7	A OTSG Oper Level
SP-1B-LI7	B OTSG Oper Level
SP-6A-PI4	A OTSG Press
SP-6B-PI4	B OTSG Press
SP-7B-FI1	Loop B S/U FW Flow
SP-8A-FI2	Loop A MFW Flow
SP-8B-FI2	Loop B MFW Flow

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Enclosure 2

Unreliable Instrumentation Due to a Loss of NNI-Y AC Power

UNRELIABLE INSTRUMENTTITLE

<u>UNRELIABLE INSTRUMENT</u>	<u>TITLE</u>
	<u>ICS Panel</u>
RC-5A-TI2	Loop A NR T _c
RC-5B-TI2	Loop B NR T _c
	<u>TGF Panel</u>
SP-4B-TI	B Main Stm Temp
SP-4B-TIR (B)	B Main Stm Temp
	<u>PSA Panel</u>
MU-2-PI	MUP Disch Press
MU-4-FI	Letdown Flow
MU-5-TI	Letdown Temp
MU-18-DPI	Postfilter DP
RC-131-PI	RCS Press LR
SF-1-LI1	SF Pool A Level
SF-1-LI2	SF Pool B Level
	<u>ES Panel</u>
BS-1-FI2	B RB Spray Flow
CF-1-PI2	A CFT Press
CF-1-PI4	B CFT Press
CF-2-LI2	A CFT Level
CF-2-LI4	B CFT Level
DH-1-FI2	B DHP Flow
DH-2-TI2	B DH Cooler Outlet Temp
DH-6-TI2	B DH Suction Temp
	<u>Redundant Instrument Panel</u>
MU-4-FI1	Letdown Flow
RC-4A-TI4	Loop A WR T _h
RC-5A-TI4	Loop A WR T _h
RC-131-PI1	RCS Press LR
SP-1A-LI7	A OTSG Oper Level
SP-1B-LI7	B OTSG Oper Level
SP-6A-PI4	A OTSG Press
SP-6B-PI4	B OTSG Press
SP-8A-FI2	Loop A MFW Flow
SP-8B-FI2	Loop B MFW Flow