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NINE MILE POINT NUCLEAR STATION UNIT #2

OPERATING PROCEDURE

PROCEDURE NO. N2-OP-75

STATION LIGHTING SYSTEM

APPROVALS	SIGNATURES	DATE AND INITIALS REVISION 0	REVISION 1	REVISION 2
Superintendent Operations NMP Unit #2 M.D. Jones	M.D Jones	5/19/86	8/24/86 MDJ	
Station Superintendent NMP Unit #2 R.B. Abbott	RB Abbott	5/19/86 RBA	8/24/86 RBA	
General Superintendent Nuclear Generation T.J. Perkins	TJ Perkins	5/19/86 RBA for	8/25/86 TJP	

FOR INFORMATION ONLY

Summary of Pages

Revision 1 (Effective 8/25/86)

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1	May, 1986
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12	May, 1987 (TCN-1)
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9	December 1987 (TCN-3)
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Periodic Review, 8/12/88, no change
Periodic Review (8/31/90) No Change

This procedure supersedes N2-TOP-75, rev. 01

NIAGARA MOHAWK POWER CORPORATION

THIS PROCEDURE NOT TO BE USED AFTER August 1992
SUBJECT TO PERIODIC REVIEW.

STATION LIGHTING SYSTEM

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Exide 75KVA UPS 1.560-50004A
P.O. No. NMP2-E035A

N2-OP-75

STATION LIGHTING SYSTEM

A. TECHNICAL SPECIFICATION

N/A

B. SYSTEM DESCRIPTION

The Station Lighting System (System #75) consists of four subsystems:

Normal Lighting System
Essential Lighting System
Egress Lighting System
Emergency Lighting System

Through these subsystems, sufficient lighting is provided in all areas of the station, indoors and outdoors, under all design conditions of Plant Operation. Station lighting is a redundant system as there are three power supplies independent of each other supplying the Normal, Emergency and Essential lighting subsystems. Egress lighting is fed from the Essential lighting subsystem. If the normal lighting subsystem were to fail completely, critical areas of the plant would still be supplied with lighting by the Essential and Emergency lighting subsystems. If the Normal and Essential lighting subsystems were to fail completely, critical areas of the plant would still be supplied by the Emergency lighting subsystem.

The Normal lighting subsystem typically supplies lighting to non-critical areas of the plant in the following fashion. Power is fed from a normal 600V Load Center to a Main Lighting and Receptacles Distribution Panel which in turn feeds Local Lighting Sub-Panels through 600 to 208/120 volt 3 phase lighting transformers as required. These Local Lighting Sub-Panels feed light fixtures and duplex receptacles in the area of the panel. There are three exceptions to the aforementioned power scheme in which power is fed to Local Lighting Sub-Panels from a 600v Motor Control Center via a 600 to 208/120 volt three phase transformer. All lighting panels and their power supplies are listed in Table II.

The Essential lighting subsystem is fed from two Uninterruptible Power Supplies (UPS) via two main lighting panels. The UPS's (2VBB-UPS1C and 2VBB-UPS1D), located on elevation 237' in the Normal Switchgear Building are normally fed from a normal 600 volt load center via a main distribution panel and transformer. They have an alternate power supply from a 600 volt stub bus via a transformer and a backup power supply from the station normal 125 volt D.C. batteries. The two main lighting panels fed by the UPS's supply local Essential lighting throughout the critical areas of the plant. Some of these sub-panels supply circuits used solely to feed Egress lighting fixtures and these circuits are run separately from all other circuits.

B. SYSTEM DESCRIPTION (Cont.)

The Emergency Lighting Subsystem is powered from Division I, II and III power supplies. The Emergency lighting supplied from Division I and II is powered from a 600 volt emergency load center via a 600 volt emergency main distribution panel through transformers to the local Emergency lighting sub-panels. The Emergency lighting sub-panel powered from Division III is fed from a 600 volt emergency motor control Center (MCC) via a transformer. The emergency lighting system supplies lighting in critical areas of the plant. During normal plant operation, lighting in critical areas of the plant is supplied concurrently by Normal, Essential and Emergency lighting. In these areas, the Essential and Emergency lighting fixtures are interleaved so that light from each source is balanced.

The Egress lighting subsystem consists of light fixtures installed at exit doors of plant buildings that lead from the building to walkways and roadways. Egress lighting is also installed along routes to key exit doors to indicate the exit path. These are wall-mounted, single or twin, re-chargeable battery operated lights plugged into nearby 120 volt duplex receptacles. Relays inside each unit keep the batteries charged so that if the normal lighting subsystem were to fail, the unit would provide supplementary lighting for approximately eight hours. When power is restored, these lights go out and their unit placed in the charge mode.

C. PLANT OPERATING REQUIREMENTS

1.0 Systems

1.1 13.8 KV/4160 V/600 V AC Power Distribution, N2-OP-71.

1.2 Normal D.C. Distribution N2-OP-73A.

1.3 Standby & Emergency A.C. Distribution System, N2-OP-72.

D. PRECAUTIONS

1.0 All fixtures in the battery rooms and decontamination areas should be enclosed and gasketed.

2.0 All fixtures in the diesel fuel oil pump areas, lube oil storage area and main lube oil sump room should be explosion proof.

3.0 Extended service incandescent lamps should be used in all high radiation areas.

4.0 Lamps and associated equipment containing mercury are prohibited from use in the nuclear fuel storage and handling areas, reactor coolant system areas, primary containment and certain areas of the radwaste spaces.

5.0 Do not work on UPS Output bus without shutting off normal, alternate and back up (DC Power) to the Unit.

5.1 Following a simulated - LOCA Signal for testing, Reactor Building and Drywell lighting can be restored by reclosing 2EJS*US1-5A once LOCA Signal has cleared. TCN-4

6.0 Do not open UPS CB #5 on alternate supply transformer with A27 CB 1 and A27-Switch #1 closed. (The A27 Panel is inside the UPS.)

7.0 Applicable Safety precautions as outlined in the NMPC Accident Prevention Rules apply.

E. START-UP PROCEDURE 1

1.0 Close or verify closed all breakers as per the electrical lineup in Table II.

2.0 In addition to the breakers listed in Table II, close or verify closed all main breakers in the main distribution panels and local lighting panels.

2.1 Refer to N2-OP-71 to check the normal function of 2VBB-UPS1C and UPS1D. 1

3.0 All Normal, Emergency and Essential lighting should now be energized with all breakers lined up per Table II. (Essential lighting is now off UPS inverter power.)

F. NORMAL OPERATION

1.0 If the lights are found to be out in a local area, locate the local lighting panel for that area and insure that all breakers are closed. If the breaker is tripped and won't reset, determine and correct the cause of the problem.

G. SHUTDOWN PROCEDURE

1.0 The station lighting is normally energized whether the plant is operating at 100% power or shutdown. Lighting in various areas of the plant will sometimes be de-energized for maintenance or other abnormal evolutions. To de-energize lighting in a specific area simply locate the local lighting panel (see references) and open the desired breaker. 1

2.0 If the shutdown is after a UPS failure and the alternate source is already supplying the UPS loads, record all alarms and switch positions on the UPS. See N2-OP-71 for operation of UPS. 1

H. OFF NORMAL PROCEDURES

1.0 In case of smoke, fire, electrical shorts or other circumstances that would damage the UPS, shut it down as follows:

a. Place the transfer switch into "BYPASS" position.

b. Open the battery breaker (CB #2).

c. Open the AC input breaker (CB #1).

2.1 Refer to N2-OP-71 to check the normal function of 2VBB-UPS1C and UPS1D. 1

TABLE II

SYSTEM POWER SUPPLY LINEUP

COMPONENT NO.	COMPONENT DESCRIPTION	POWER SUPPLY Bus Number	Cubicle/ Breaker	NORMAL POSITION	ACTUAL POSITION	INITIALS/ DATE	REMARKS
2LAT-PNL100	600V Normal Lighting Distr. Panel	2NJS-US1	9C	Closed			
2LAT-PNLN02	208/120V Normal Lighting Local Panel	2LAT-PNL100	CKT 13	Closed			
2LAT-PNLN04	208/120V Normal Lighting Local Panel	2LAT-PNL100	CKT 14	Closed			
2LAT-PNLN06	208/120V Normal Lighting Local Panel	2LAT-PNL100	CKT19	Closed			
2LAT-PNLN08	208/120V Normal Lighting Local Panel	2LAT-PNL100	CKT2	Closed			
2LAT-PNLN09	208/120V Normal Lighting Local Panel	2LAT-PNL100	CKT2	Closed			
2LAW-PNLN01	208/120V Normal Lighting Local Panel	2LAT-PNL100	CKT7	Closed			
2LAW-PNLN02	208/120V Normal Lighting Local Panel	2LAT-PNL100	CKT7	Closed			
2LAX-PNLN01	208/120V Normal Lighting Local Panel	2LAT-PNL100	CKT20	Closed			

NOTE: Last letter in 3-letter system code designates building panel will serve.
EXAMPLE: LAT - Turbine Building LAC - Control Building LAN - Radwaste Building LAX - Aux. Boiler Building
LAR - Reactor Building LAW - Screenwell Building LAD - Diesel Gen. Bldg. LAZ - Aux. Services Bldg. S.

TABLE II

SYSTEM POWER SUPPLY LINEUP

COMPONENT NO.	COMPONENT DESCRIPTION	POWER SUPPLY Bus Number	Cubicle/ Breaker	NORMAL POSITION	ACTUAL POSITION	INITIALS/ DATE	REMARKS
2LAZ-PNLN01	208/120V Normal Lighting Local Panel	2LAT-PNL100	CKT25	Closed			
2LAR-PNL200	600V Normal Lighting Distr. Panel	2EJS*US1	5A	Closed			TCN-2
2LAR-PNLN01	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT1	Closed			
2LAR-PNLN02	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT1	Closed			
2LAR-PNLN03	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT2	Closed			
2LAR-PNLN04	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT2	Closed			
2LAR-PNLN05	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT7	Closed			
2LAR-PNLN06	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT7	Closed			
2LAR-PNLN07	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT8	Closed			
2LAR-PNLN08	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT8	Closed			
2LAR-PNLN09	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT13	Closed			

TABLE II

SYSTEM POWER SUPPLY LINEUP

COMPONENT NO.	COMPONENT DESCRIPTION	POWER SUPPLY Bus Number	Cubicle/ Breaker	NORMAL POSITION	ACTUAL POSITION	INITIALS/ DATE	REMARKS
2LAR-PNLN10	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT13	Closed			
2LAR-PNLN11	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT14	Closed			
2LAR-PNLN12	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT19	Closed			
2LAR-PNLN13	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT20	Closed			
2LAR-PNLN15	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT25	Closed			
2LAR-PNLN16	208/120V Normal Lighting Local Panel	2LAR-PNL200	CKT26	Closed			
2LAT-PNL300	600V Normal Lighting Distr. Panel	2NJS-US3	12B	Closed			
2LAT-PNLN01	208/120V Normal Lighting Local Panel	2LAT-PNL300	CKT1	Closed			
2LAT-PNLN03	208/120V Normal Lighting Local Panel	2LAT-PNL300	CKT2	Closed			
2LAT-PNLN05	208/120V Normal Lighting Local Panel	2LAT-PNL300	CKT7	Closed			
2LAT-PNLN07	208/120V Normal Lighting Local Panel	2LAT-PNL300	CKT8	Closed			

TABLE II

SYSTEM POWER SUPPLY LINEUP

COMPONENT NO.	COMPONENT DESCRIPTION	POWER SUPPLY Bus Number	Cubicle/ Breaker	NORMAL POSITION	ACTUAL POSITION	INITIALS/ DATE	REMARKS
2LAT-PNLN10	208/120V Normal Lighting Local Panel	2LAT-PNL300	CKT13	Closed			
2LAT-PNLN11	208/120V Normal Lighting Local Panel	2LAT-PNL300	CKT14	Closed			
2LAT-PNLN12	208/120V Normal Lighting Local Panel	2LAT-PNL300	CKT19	Closed			
2LAK-PNLN04	208/120V Normal Lighting Local Panel Chiller Bldg.	2LAT-PNL300	CKT25	Closed			
2LAS-PNL400	600V Normal Lighting Distr. Panel	2NJS-US4	9C	Closed			
2LAC-PNLN01	208/120V Normal Lighting Local Panel	2LAS-PNL400	CKT1	Closed			
2LAC-PNLN02	208/120V Normal Lighting Local Panel	2LAS-PNL400	CKT2	Closed			
2LAC-PNLN03	208/120V Normal Lighting Local Panel	2LAS-PNL400	CKT7	Closed			
2LAC-PNLN04	208/120V Normal Lighting Local Panel	2LAS-PNL400	CKT8	Closed			
2LAC-PNLN05	208/120V Normal Lighting Local Panel	2LAS-PNL400	CKT13	Closed			
2LAC-PNLN06	208/120V Normal Lighting Local Panel	2LAS-PNL400	CKT14	Closed			

TABLE II

SYSTEM POWER SUPPLY LINEUP

COMPONENT NO.	COMPONENT DESCRIPTION	POWER SUPPLY Bus Number	Cubicle/ Breaker	NORMAL POSITION	ACTUAL POSITION	INITIALS/ DATE	REMARKS
2LAC-PNLN07	208/120V Normal Lighting Local Panel	2LAS-PNL400	CKT19	Closed			
2LAC-PNLN08	208/120V Normal Lighting Local Panel	2LAS-PNL400	CKT26	Closed			
2LAD-PNLN01	208/120V Normal Lighting Local Panel	2LAS-PNL400	CKT20	Closed			
2LAD-PNLN02	208/120V Normal Lighting Local Panel	2LAS-PNL400	CKT32	Closed			
2LAY-PNLN01	208/120V Normal Lighting Local Panel (Yard Ltg)	2LAS-PNL400	CKT31	Closed			
2LAN-PNL900	600V Normal Lighting Distr. Panel (Yard Ltg)	2NJS-US9	8D	Closed			
2LAN-PNLN01	208/120V Normal Lighting Local Panel	2LAN-PNL900	CKT1	Closed			
2LAN-PNLN02	208/120V Normal Lighting Local Panel	2LAN-PNL900	CKT2	Closed			
2LAK-PNLN02	208/120V Normal Lighting Local Panel (Main Stack)	2NJS-PNL901	CKT31	Closed			
2LAN-PNLN03	208/120V Normal Lighting Local Panel	2LAN-PNL900	CKT7	Closed			
2LAN-PNLN04	208/120V Normal Lighting Local Panel	2LAN-PNL900	CKT8	Closed			

TABLE II

SYSTEM POWER SUPPLY LINEUP

COMPONENT NO.	COMPONENT DESCRIPTION	POWER SUPPLY Bus Number	Cubicle/ Breaker	NORMAL POSITION	ACTUAL POSITION	INITIALS/ DATE	REMARKS
2LAN-PNLN05	208/120V Normal Lighting Local Panel	2LAN-PNL900	CKT13	Closed			
2LAW-PNLN03	208/120V Normal Lighting Local Panel	2LAN-PNL900	CKT14	Closed			
2LAK-PNLN01	208/120V Normal Lighting Local Panel (R.W. Control Room) & (Condensate Storage Tank BLD 261' el.)	2LAN-PNL900	CKT20	Closed			TCN-
2LAC*PNL100A	600V Emergency Lighting Distr. Panel	2EJS*US1	7C	Closed			
2LAC*PNLE01	208/120V Emer. Lighting Local Panel	2LAC*PNL100A	CKT1	Closed			
2LAC*PNLE04	208/120V Emer. Lighting Local Panel	2LAC*PNL100A	CKT2	Closed			
2LAC*PNLE06	208/120V Emer. Lighting Local Panel	2LAC*PNL100A	CKT8	Closed			
2LAC*PNL300B	600V Emergency Lighting Distr. Panel	2EJS*US3	7C	Closed			
2LAC*PNLE02	208/120V Emer. Lighting Local Panel	2LAC*PNL300B	CKT1	Closed			
2LAC*PNLE05	208/120V Emer. Lighting Local Panel	2LAC*PNL300B	CKT2	Closed			
2LAC*PNLE07	208/120V Emer. Lighting Local Panel	2LAC*PNL300B	CKT8	Closed			

TABLE II

SYSTEM POWER SUPPLY LINEUP

COMPONENT NO.	COMPONENT DESCRIPTION	POWER SUPPLY Bus Number	Cubicle/ Breaker	NORMAL POSITION	ACTUAL POSITION	INITIALS/ DATE	REMARKS
2LAH-PNLN01	208/120V Normal Lighting Local Panel (Cooling Tower)	2NHS-MCC013	8BL	Closed			
2LAK-PNLN03	208/120V Normal Lighting Local Panel (Screen House)	2NHS-MCC013	8BR	Closed			
2VBB-UPS1C	600V Normal Feed to Essential Lighting UPS	2LAT-PNL300	Sub Feed BKR	Closed			
2VBB-XD501	Feed Breaker to 2VBB-XD501 (At 2VBB XD501)	2VBB-XD501	BKR1	Closed			
2VBB-UPS1C	600V Alternate Feed to Essential Lighting UPS	2NJS-US5	4B	Closed			
2VBB-UPS1C	125 VDC Backup Feed to Essential Lighting UPS	2BYS-SWG001A	2D	Closed			
2LAT-PNL017	208/120V Essential Lighting Distr. Panel	2LAT-PNL017	Main Bkr	Closed			
2LAX-PNLU01	208/120V Essential Lighting Local Panel	2LAT-PNL017	CKT7	Closed			
2LAR-PNLU02	208/120V Essential Lighting Local Panel	2LAT-PNL017	CKT1	Closed			
2LAT-PNLU02	208/120V Essential Lighting Local Panel	2LAT-PNL017	CKT2	Closed			
2LAT-PNLU04	208/120V Essential Lighting Local Panel	2LAT-PNL017	CKT8	Closed			

TABLE II

SYSTEM POWER SUPPLY LINEUP

COMPONENT NO.	COMPONENT DESCRIPTION	POWER SUPPLY Bus Number	Cubicle/ Breaker	NORMAL POSITION	ACTUAL POSITION	INITIALS/ DATE	REMARKS
2LAT-PNLU05	208/120V Essential Lighting Local Panel	2LAT-PNL017	CKT13	Closed			
2LAN-PNLU01	208/120V Essential Lighting Local Panel	2LAT-PNL017	CKT14	Closed			
2LAW-PNLU01	208/120V Essential Lighting Local Panel	2LAT-PNL017	CKT19	Closed			
2LAR-PNLU05	208/120V Essential Lighting Local Panel	2LAT-PNL017	CKT20	Closed			
2LAR-PNLU01	208/120V Essential Lighting Local Panel	2LAT-PNL017	CKT25	Closed			
2VBS-UPS1D	Alternate Supply to Essential Lighting UPS	2NJS-US6	6C	Closed			
2VBB-XD600	Feed Breaker to 2VBB-XD600 (at 2VBB-XD600)	2VBB-XD600	BKR1	Closed			
2VBB-UPS1D	Normal Supply to Essential Lighting UPS	2NHS-MCC006	8A	Closed			
2VBS-UPS1D	Back-up Supply to Essential Lighting UPS	2BYS-SWG001B	2D	Closed			
2LAS-PNL016	208/120V Essential Lighting Distr. Panel	2LAS-PNL016	Main Bkr	Closed			
2LAC-PNLU01	208/120V Essential Lighting Local Panel	2LAS-PNL016	CKT1	Closed			

TABLE II

SYSTEM POWER SUPPLY LINEUP

COMPONENT NO.	COMPONENT DESCRIPTION	POWER SUPPLY Bus Number	Cubicle/ Breaker	NORMAL POSITION	ACTUAL POSITION	INITIALS/ DATE	REMARKS
2LAT-PNLU03	208/120V Essential Lighting Local Panel	2LAS-PNL016	CKT2	Closed			
2LAC-PNLU03	208/120V Essential Lighting Local Panel	2LAS-PNL016	CKT7	Closed			
2LAT-PNLU01	208/120V Essential Lighting Local Panel	2LAS-PNL016	CKT13	Closed			
2LAR-PNLU03	208/120V Essential Lighting Local Panel	2LAS-PNL016	CKT14	Closed			
2LAR-PNLU04	208/120V Essential Lighting Local Panel	2LAS-PNL016	CKT19	Closed			
2LAC-PNLU02	208/120V Essential Lighting Local Panel	2LAS-PNL016	CKT20	Closed			
2LAC-PNLU04	208/120V Essential Lighting Local Panel	2LAS-PNL016	CKT25	Closed			
2LAR-PNLU06	208/120V Essential Lighting Local Panel	2LAS-PNL016	CKT31	Closed			
2LAC*PNLE03	208/120V Emergency Lighting Local Panel	2EHS*MCC201	10B	Closed			TCF 1