INDIANA & MICHIGAN ELECTRIC COMPANY DONALD C. COOK NUCLEAR PLANT

MAINTENANCE DEPARTMENT CONTROLLED DOCUMENT COPY NO.

PROCEDURE COVER SHEET

Procedure I	No.	**1MHP2	140	.082	.005
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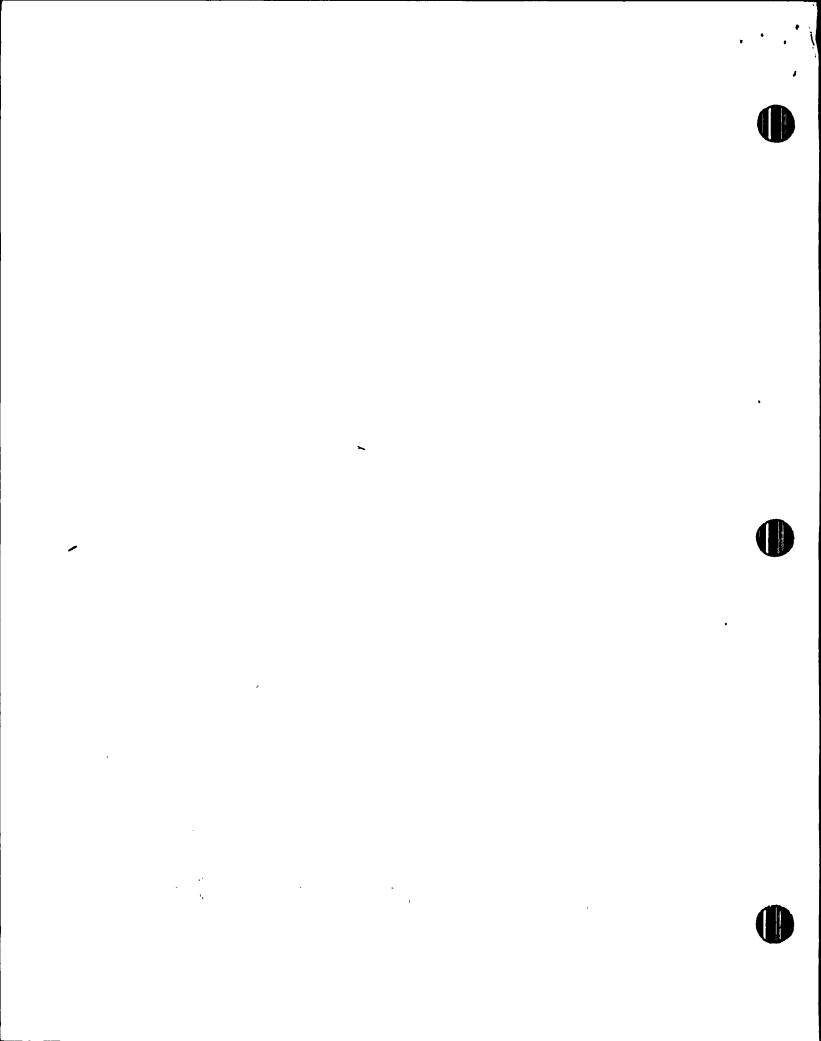
Revision No. 0

TITLE MAINTENANCE PROCEDURE FOR REPOWERING CONTAINMENT VALVES

SCOPE OF REVISION



SIGNATURES		REVISION	NUMBER	
****	ORIGINAL		<u> </u>	
PREPARED BY	Dmmco.			
DEPARTMENT HEAD APPROVAL	PHates			
INTERFACING DEPARTMENT HEAD CONCURRENCE	Mahron N/A			
QUALITY ASSURANCE SUPERVISOR APPROVAL	meller			
PLANT NUCLEAR SAFETY COMMITTEE	M4#19/1	gA0613011	3 860606	<u>, </u>
PLANT MANAGER APPROVAL	Mad	PDR ADOC	3 840406 K 05000315 PDR)
APPROVAL DATE	5/22/86			bi .
EFFECTIVE DATE	5/29/86	•		



LIST OF EFFECTIVE PAGES

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INDIANA & MICHIGAN ELECTRIC COMPANY DONALD C. COOK NUCLEAR PLANT

1.0 TITLE Maintenanence Procedure for Repowering Containment Valves

2.0 OBJECTIVE

2.1 This procedure provides instructions for the installation of temporary power feeds to the following in-containment motor operated valves:

IMO-110	ICM-129
IMO-120	ICM-111
IMO-130	NMO-151
IMO-140	NMO-152
IMO-128	NMO-153

It is intended for use when the power cables for these valves have been fire damaged, resulting in a loss of operability of these valves.

3.0 REFERENCES

- 3.1 Equipment Control-Clearance Permit System PMI-2110.
- 3.2 Plant Safety Manual, General Safety G.9.
- 3.3 Maintenance Procedure 12MHP5021.082.006.
- 3.4 10CFR50, Appendix R, Section III, L.5.
- 3.5 Control of Special Tools and Measuring and Test Equipment, MHI-5060.

4.0 PRECAUTIONS

- 4.1 Calibrated tools or measuring and test equipment shall not be used in a manner that would invalidate its calibration.
- 4.2 Fire doors and security doors will be required to remain open during implementation of this procedure. Appropriate fire watches and security guards must be posted while these doors remain open.

5.0 LIMITATIONS

- 5.1 The Maintenance Supervisor assigned the work is responsible for ensuring that the controlled copy of this procedure is the latest revision and includes all applicable approved change sheets.
- 5.2 The Maintenance Supervisor assigned the work is responsible for ensuring that the controlled copy of this procedure is maintained at the work site, if not in a radiological controlled area, and that required data is entered in the controlled copy. If the work to be performed is in a radiological controlled area, the controlled copy shall be maintained in the Supervisor's office and a controlled working copy shall be available at the job site.

NOTE: When a controlled working copy is being used at the work site, data should be entered as best as practical.

- 5.3 All steps which will not be performed, based on the scope of the work, shall be indicated by "N/A" in the appropriate signoff blank and initialed by the Maintenance Supervisor assigned the work, along with an explanation of why the step was not performed.
- 5.4 Section 7.0 of this procedure need not be performed in sequence. Steps within each Subsection shall be performed in sequence.
- 5.5 Attachments No. 1 thru 9 must be completed for Lifted Wires and Electrical Jumpers. Multiple copies of these Attachments may be used.
- 5.6 It is assumed that the equipment required by this procedure is available. Additionally, use of equipment required from the opposite (unaffected) unit should not impair the safe continued operation or shutdown of that unit.

0.0	INITIAL CONL	TITIONS	i ·		
6.1	Maint.	Supv.	the breaker t	th assistance from (to be used for a ter the breaker I.D.	
		•	Breaker I.D.		
			Performed By	Date	
			NOTE. Minim	m breaker size 500	Should be

fed from either bus 21A, B, C or D.

NOTE:

C & I Procedure **1THP6030.IMP.305 has been prepared to provide temporary control for these valves. Implementation of this section shall be co-ordinated with the

implementation of the C & I procedure.

7.1 Temporary Power Feed

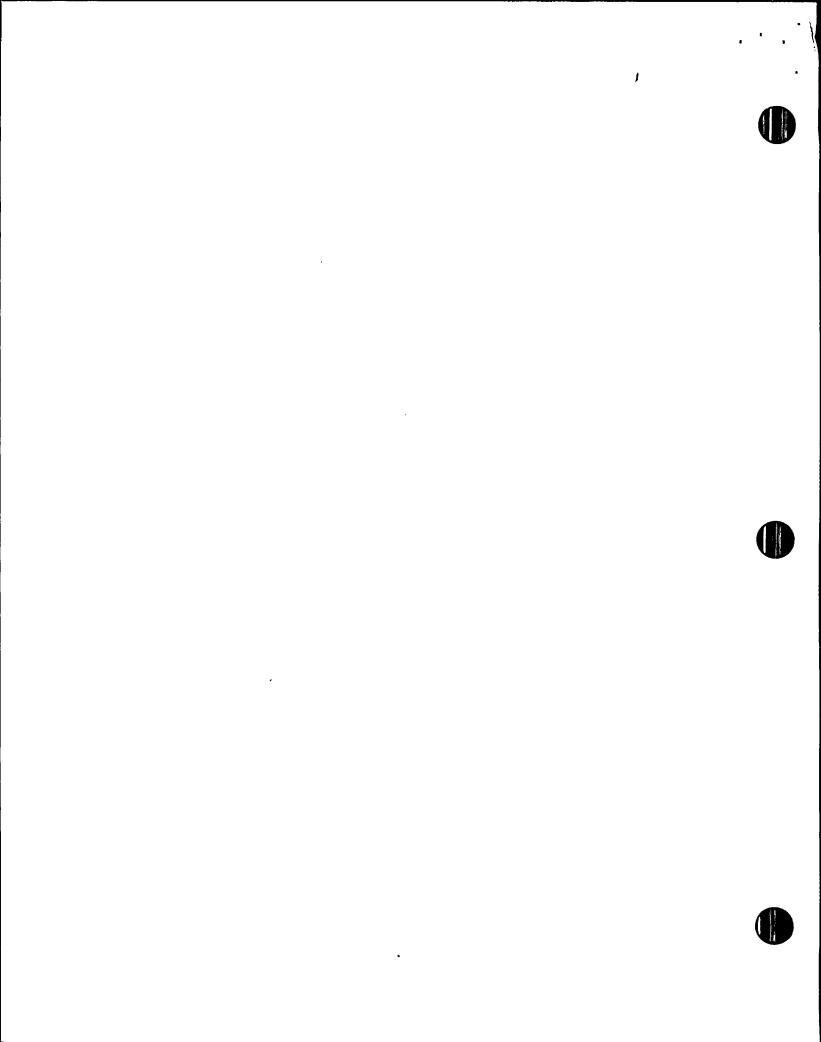
This section may be performed in parallel with the section for the first MCC to be powered.

Steps in this section need not be performed sequentially, provided safety measures are observed.

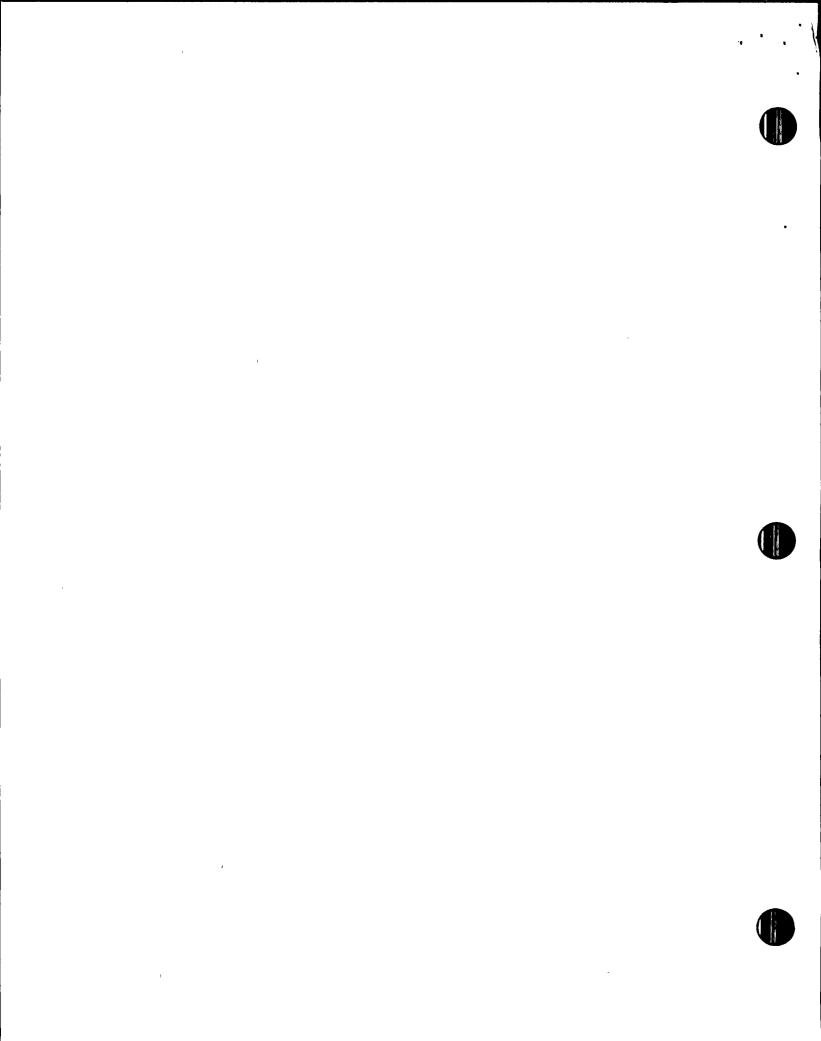
7.1.1	Maint. Mech.	Request Operations to open and tag the temporary feed breaker identified in Step 6.1 with a Striped Tag clearance.
7.1.2	Maint. Mech.	Verify the temporary feed breaker has been opened and tagged, and the output side of the breaker is de-energized.
7.1.3	Maint. Mech.	Disconnect the power cables from the output side of the temporary feed breaker. Signoff on Attachment No. 9. Attach Temporary Modification I.D. Tags.
7.1.4	Maint. Supv.	Verify the power cables have been properly lifted from the temporary feed breaker. Signoff on Attachment No. 9.
7.1.5	Maint. Mech.	NOTE: This may require running the cable thru fire doors, security doors, and/or penetrations. Firewatches and guards shall be posted as needed. Penetrations shall be repaired per applicable sections of **12MHP5021.001.031.
•		Route a 3 phase power cable from the temporary feed breaker to the E.S.S. MCC area in the Unit 1 4-KV switchgear room. The cable must be able to reach each of the 4 MCC's listed under 7.0.
7.1.6	Maint. Mech.	Make-up lugs on the cable ends per applicable sections of 12MHP5021.082.006.
7.1.7	Maint. Mech.	Make the connection at the temporary feed breaker and attach a phase rotation meter to the MCC end of the cable.
7.1.8	Maint. Mech.	Request Operations to close the temporary feed breaker to power up the meter and determine the phasing of the cable. A 1-2-3 phase connection should produce a clockwise rotation on the meter. Mark the cable for

future reference.

7.1.9	Maint. Mech.	Request Operations to open th breaker. Remove the phase ro	e temporary feed tation meter.
7.2	MCC EZC-A (IMO-140	& NMO-151)	
7.2.1	Maint. Mech.	Verify breaker 11A3 has been tagged, and MCC EZC-A is de-e	
7.2.2	Maint. Mech.	Remove cover(s) from the inco	ming feeder
7.2.3	Maint. Mech.	NOTE: MCC EZC-A has two incoboth supplied from breaker 11	
		Disconnect the feeder cables in the MCC. Enter data and s Attachment No. 1. Attach Tem Modification I.D. Tags.	ign-off on
7.2.4	Maint. Supv.	Verify the feeders have been Sign-off on Attachment No. 1.	
7.2.5	Maint. Mech.	Connect the temporary power of buses using applicable section 12MHP5021.082.006. Take care proper phasing.	ns of
		Attach Temporary Modification Enter data and sign-off on At	I.D. Tags. tachment No. 2.
7.2.6	Maint. Supv.	Verify the temporary power feinstalled. Sign-off on Attac	ed is properly hment No. 2.
7.2.7	Maint. Mech.	Transfer control of the strip on the temporary feed breaker Striped Tag permission slip.	
	The following step control wiring modi	is to be implemented when C & ifications for the first valve	I has completed to be operated:
7.2.8	Maint. Supv.	Jointly notify the S.S. that MCC EZC-A are complete.	modifications to
		Maint. Supv.	Date
		C & I Supv.	Date
		S.S.	Date



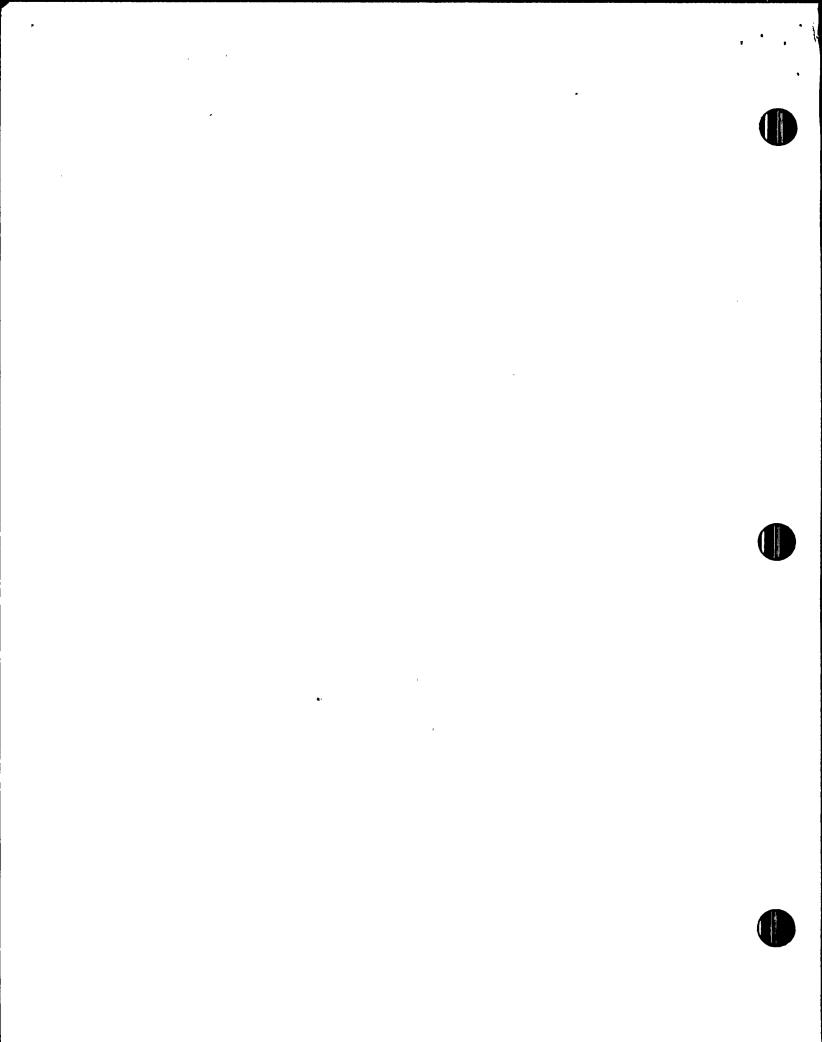
		s are to be implemented after all valves s MCC are closed or opened.
7:2.9	Maint. Mech.	Regain control of the striped tag clearance on the temporary feed breaker and request Operations to open the breaker.
7.2.10	Maint. Mech.	Verify the temporary feed breaker has been opened and tagged, and MCC EZC-A is de-energized.
7.2.11	Maint. Mech.	Disconnect the temporary feeder from the buses in the MCC. Remove temporary I.D. tags. Sign-off on Attachment No. 2.
7.2.12	Maint. Supv.	Verify the temporary feeder has been properly removed from MCC EZC-A. Sign-off on Attachment No. 2.
7.3	MCC EZC-B (IMO-120,	IMO-128, & NMO-152)
7.3.1	Maint. Mech.	Verify breaker 11B2 has been racked out and tagged, and MCC EZC-B is de-energized.
7.3.2	Maint. Mech.	Remove cover(s) from the incoming feeder compartments.
7.3.3	Maint. Mech.	Disconnect the feeder cables from the buses in the MCC. Enter data and sign-off on Attachment No. 3. Attach Temporary Modification I.D. Tags.
7.3.4	Maint. Supv.	Verify the feeders have been properly lifted. Sign-off on Attachment No. 3.
7.3.5	Maint Mech.	Connect the temporary power cable to the buses using applicable sections of 12MHP5021.082.006. Take care to achieve proper phasing.
		Attach Temporary Modification I.D. Tags. Enter data and sign-off on Attachment No. 4.
7.3.6	Maint. Supv.	Verify the temporary power feed is properly installed. Sign-off on Attachment No. 4.
7.3.7	Maint. Mech.	Transfer control of the Striped Tag Clearance on the temporary feed breaker to C&I via a Striped Tag Permission Slip.



The following step is to be implemented when C & I has completed control wiring modifications for the first valve to be operated:

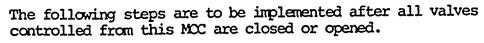
7.3.8	Maint. Supv.	Jointly notify the S.S. that MCC EZC-B are complete.	modifications to
	•	Maint. Supv.	Date
		C & I Supv.	Date
		S.S.	Date
	The following steps controlled from thi	are to be implemented after a s MCC are closed or opened.	ll valves
7.3.9	Maint. Mech.	Regain control of the Striped on the temporary feed breaker Operations to open the breaker	and request
7.3.10	Maint. Mech.	Verify the temporary feed breopened and tagged, and MCC EZ de-energized.	aker has been C-B is
7.3.11	Maint. Mech.	Disconnect the temporary feed buses in the MCC. Remove tem tags. Sign-off on Attachment	porary I.D.
7.3.12	Maint. Supv.	Verify the temporary feeder h removed from MCC EZC-B. Sign Attachment No. 4.	
7.4	MCC EZC-C (IMO-110,	ICM-129, & ICM-111)	
7.4.1	Maint. Mech.	Verify breaker 11C6 has been tagged, and MCC EZC-C is de-e	
7.4.2	Maint. Mech.	Remove cover(s) from the incocompartment(s).	ming feeder
7.4.3	Maint. Mech.	Disconnect the feeder cables in the MCC. Enter data and s Attachment No. 5. Attach Tem Modification I.D. Tags.	sign-off on
7.4.4	Maint. Supv.	Verify the feeders have been Sign-off on Attachment No. 5.	

7.4.5	Maint. Mech.	Connect the temporary power cable to the buses using applicable sections of 12MHP5021.082.006. Take care to achieve proper phasing.
		Attach Temporary Modification I.D. Tags. Enter data and sign-off on Attachment No. 6.
7.4.6	Maint. Supv.	Verify the temporary power feed is properly installed. Sign-off on Attachment No. 6.
7.4.7	Maint. Mech.	Transfer control of the Striped Tag Clearance on the temporary feed breaker to C&I via a Striped Tag Permission Slip.
	The following step control wiring modi	is to be implemented when C & I has completed fications for the first valve to be operated:
7.4.8	Maint. Supv.	Jointly notify the S.S. that modifications to MCC EZC-C are complete.
		Maint. Supv. Date
		C & I Supv. Date
		S.S. Date
	The following steps controlled from this	s are to be implemented after all valves is MCC are closed or opened.
7.4.9	Maint. Mech.	Regain control of the Striped Tag Clearance on the temporary feed breaker and request Operations to open the breaker.
7.4.10	Maint. Mech.	Verify the temporary feed breaker has been opened and tagged, and MCC EZC-C is de-energized.
7.4.11	Maint. Mech.	Disconnect the temporary feeder from the buses in the MCC. Remove temporary I.D. tags. Sign-off on Attachment No. 6.
7.4.12	Maint. Supv.	Verify the temporary feeder has been properly removed from the MCC EZC-C. Sign-off on Attachment No. 6.



7.5 MCC EZC-D (IMO-130 & NMO-153)

Step No.	To Be Performed By	Action	
7.5.1	Maint. Mech.	Verify breaker 11D6 has been tagged, and MCC EZC-D is de-	
7.5.2	Maint. Mech.	Remove cover(s) from the incompartment(s).	coming feeder
7.5.3	Maint. Mech.	Disconnect the feeder cables in the MCC. Enter data and Attachment No. 7. Attach Te Modification I.D. Tags.	sign-off on
7.5.4	Maint. Supv.	Verify the feeders have been Sign-off on Attachment No. 7	
7.5.5	Maint. Mech.	Connect the temporary power buses using applicable section 12MHP5021.082.006. Take can proper phasing.	ions of
		Attach Temporary Modification Enter data and sign-off on A	on I.D. Tags. Attachment No. 8.
7.5.6	Maint. Supv.	Verify the temporary power installed. Sign-off on Atta	feed is properly achment No. 8.
7.5.7	Maint. Mech.	Transfer control of the Stri on the temporary feed breake Striped Tag Permission Slip	ers to C&I via a
·	The following step control wiring modi	is to be implemented when C & fications for the first valve	I has completed to be operated:
7.5.8	Maint. Supv.	Jointly notify the S.S. that MCC EZC-D are complete.	t modifications to
		Maint. Supv.	Date
		C & I Supv.	Date
		S.S.	Date



7.5.9	Maint. Mech.	Regain control of the Striped Tag Clearance on the temporary feed breaker and request Operations to open the breaker.
7.5.10	Maint. Mech.	Verify the temporary feed breaker has been opened and tagged, and MCC EZC-D is de-energized.
7.5.11	Maint. Mech.	Disconnect the temporary feeder from the buses in the MCC. Remove temporary I.D. tags. Sign-off on Attachment No. 8.
7.5.12	Maint. Supv.	Verify the temporary feeder has been properly removed from MCC EZC-D. Sign-off on Attachment No. 8.

8.0 RESTORATION

8.1 MCC EZC-A

8.1.1	Maint. Mech.	Visually inspect the power feed to MCC EZC-A.
		If any damage is found, proceed directly to
		Step 8.1.3. Note any observations.

Notes:	

8.1.2 Maint. Mech.

Perform a megger on the power cable per MHP5022.082.002.

If the megger is unacceptable, contact Maint. Supv. for resolution.

If the megger is acceptable, proceed directly to Step 8.1.6.

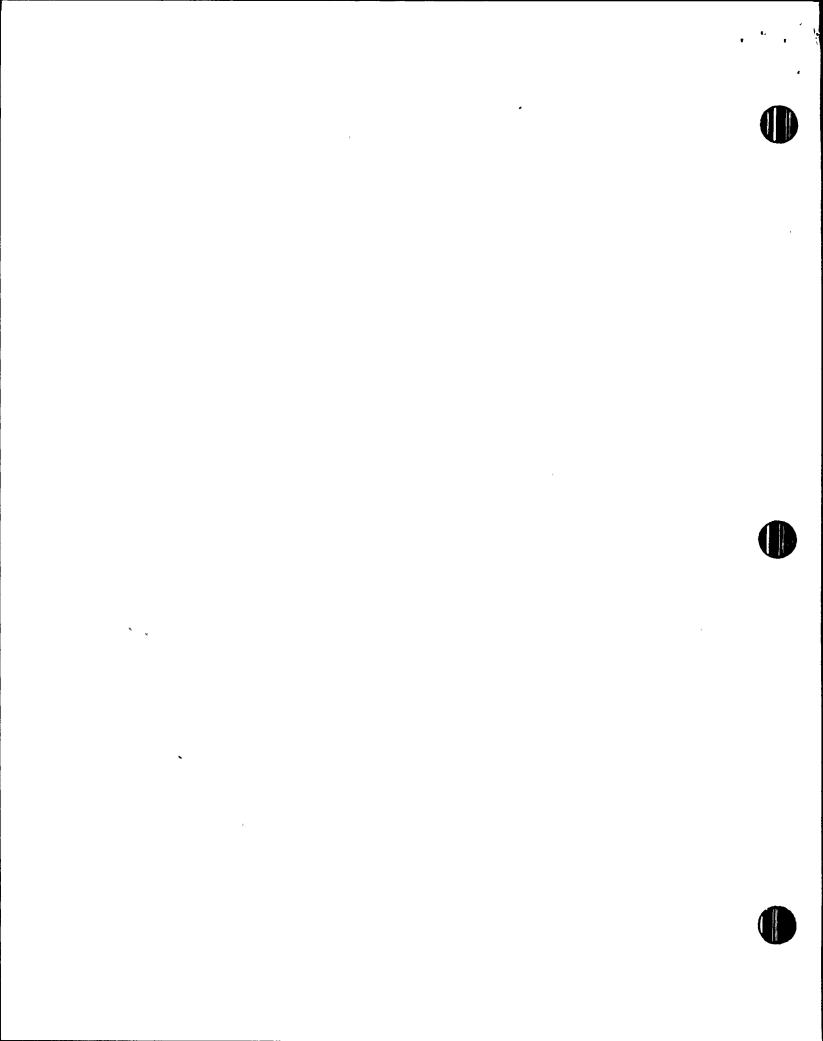
Megger Serial No. Calib. Date/Due Date

8.1.3 Maint. Mech.

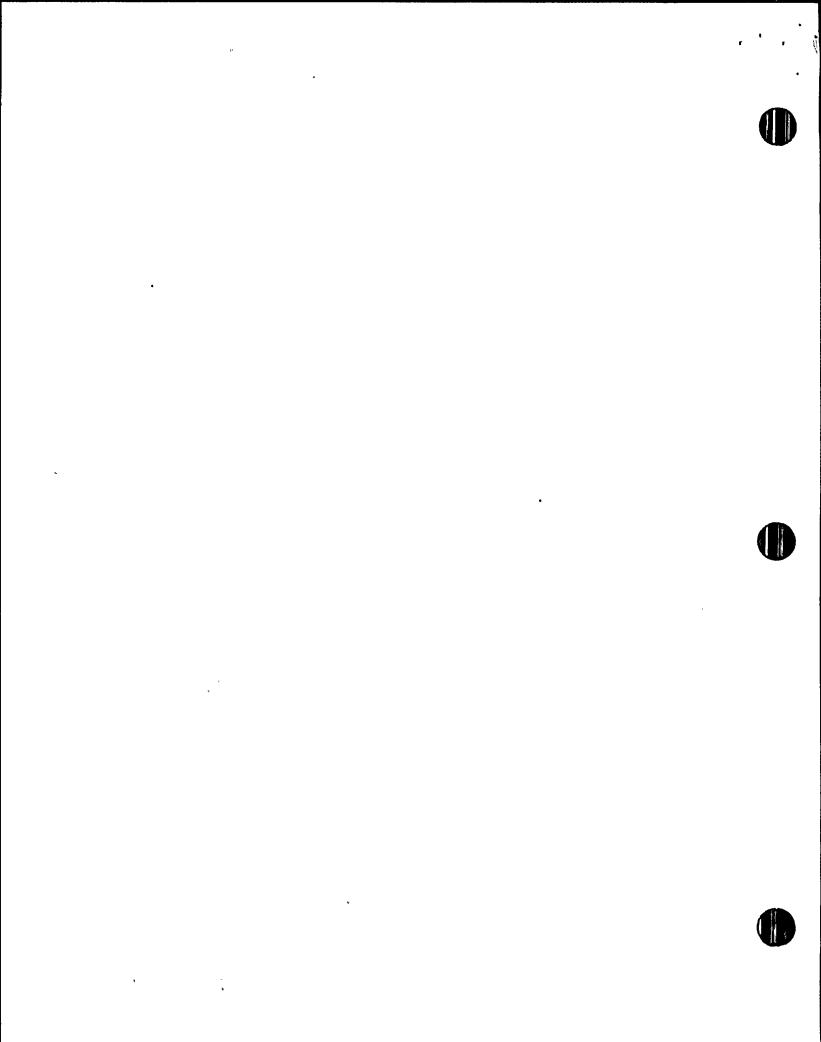
Remove the damaged cable and pull new cable per 12MHP5021.082.004.

8.1.4 Maint. Mech.

Install lugs on the new cable per 12MHP5021.082.006.

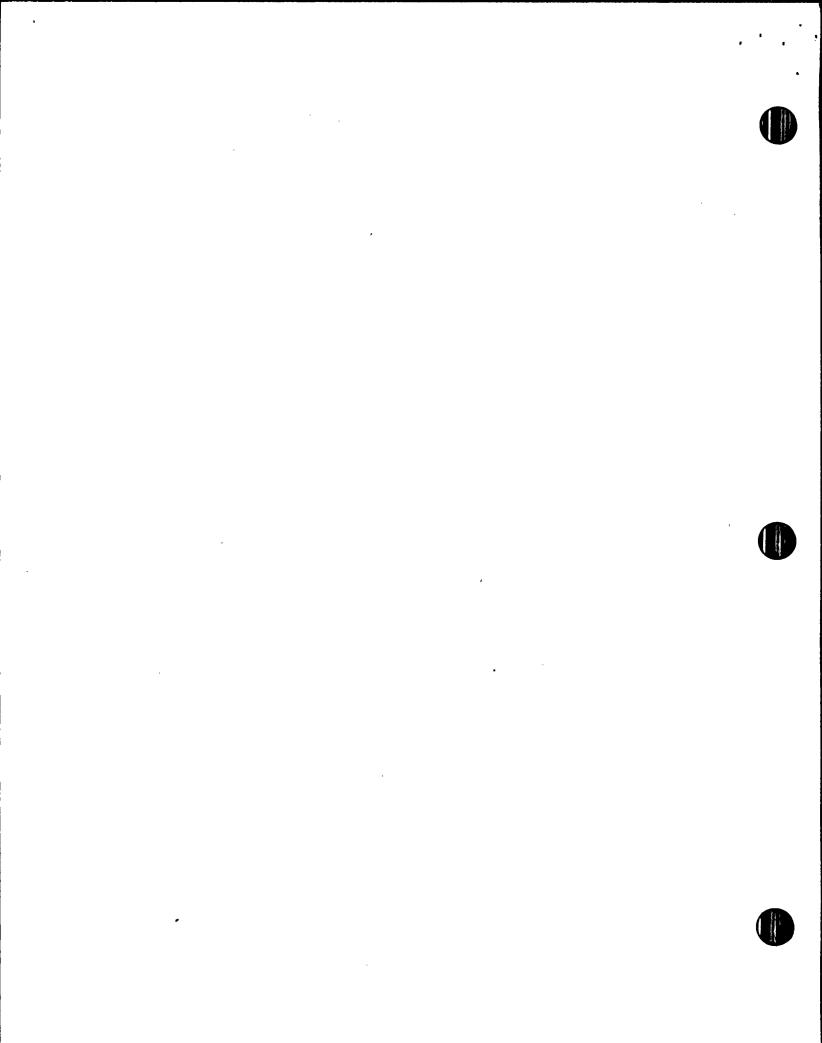


8.1.5	Maint. Mech.	Perform a megger on the new MHP5022.082.002.	cable per
		Megger Serial No. Cal	lib. Date/Due Date
8.1.6	Maint. Mech.	Verify breaker 11A3 is racked and MCC EZC-A is de-energized	
8.1.7	Maint. Mech.	Terminate power feeds at bre 12MHP 5-21.082.006, if new o	eaker 11A3 per cable was pulled.
8.1.8	Maint. Mech.	Terminate power feeds at the proper phasing is maintained 12MHP5021.082.006. Remove tags. Sign-off on Attachmen	d, per temporary I.D.
8.1.9	Maint. Supv.	Verify power feed is propert the MCC. Sign-off on Attack	
8.1.10	Maint. Supv.	Verify all lifted leads have re-terminated and all electrone been removed, and all Tempor I.D. Tags have been removed. Attachments No. 1 and No. 2.	rical jumpers have rary Modification . Sign-off on
8.1.11	Maint. Supv.	Notify the Shift Supervisor feeds to MCC EZC-A are resta	that normal power ored.
		Performed By	Date
	•	s.s.	Date
8.2	MCC EZC-B		u.
8.2.1	Maint. Mech.	Visually inspect the power : If any damage is found, pro- Step 8.2.3. Note any observ	ceed directly to
		Notes:	
			
			

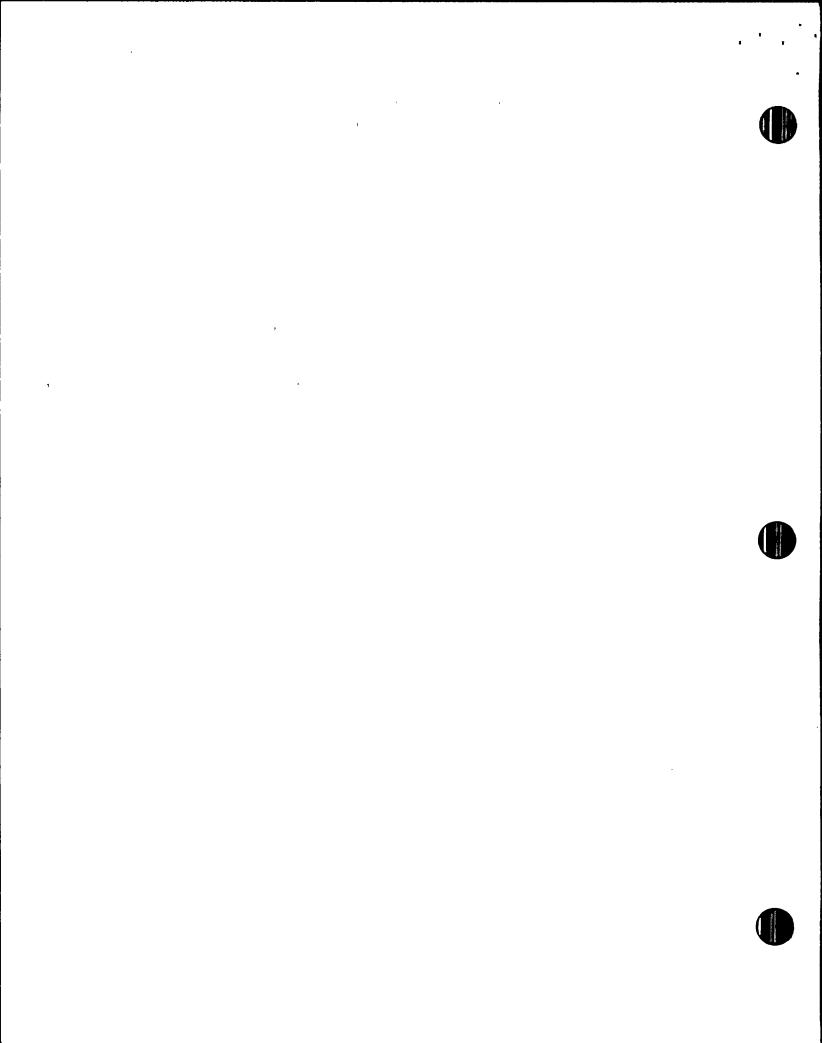


8.2.2	Maint. Mech.	Perform a megger on the power cable per MHP5022.082.002.
		If the megger is unacceptable, contact Maint. Supv. for resolution.
		If the megger is acceptable, proceed directly to Step 8.2.6.
		•
	ı	Megger Serial No. Calib. Date/Due Date
8.2.3	Maint. Mech.	Remove the damaged cable and pull new cable per 12MHP5021.082.004.
8.2.4	Maint. Mech.	Install lugs on the new cable per 12MHP5021.082.006.
8.2.5	Maint. Mech.	Perform a megger on the new cable per MHP5022.082.002.
	•	
		Megger Serial No. Calib. Date/Due Date
8.2.6	Maint. Mech.	Verify breaker 11B2 is racked out and tagged, and MCC EZC-B is de-energized.
8.2.7	Maint. Mech.	Terminate power feeds at breaker 11B2 per 12MHP5021.082.006, if new cable was pulled.
8.2.8	Maint. Mech.	Terminate power feeds at the MCC, ensuring proper phasing is maintained, per 12MHP5021.082.006. Remove temporary I.D. Tags. Sign-off on Attachment No. 3.
8.2.9	Maint. Supv.	Verify power feed is properly terminated at the MCC. Sign-off on Attachment No. 3.
8.2.10	Maint. Supv.	Verify all lifted leads have been properly re-terminated and all electrical jumpers have been removed, and all Temporary Modification I.D. Tags have been removed. Sign-off on Attachments No. 3 and No. 4.
8.2.11	Maint. Supv.	Notify the Shift Supervisor that normal power feed to MCC EZC-B is restored.
		Performed By Date
		S.S. Date

8.3	MCC EZC-C	
8.3.1	Maint. Mech.	Visually inspect the power feed to MCC EZC-C. If any damage is found, proceed directly to Step 8.3.3. Note any observations.
		Notes:
8.3.2	Maint. Mech.	Perform a megger on the power cable per MHP5022.082.002.
		If the megger is unacceptable, contact Maint. Supv. for resolution.
		If the megger is acceptable, proceed directly to Step 8.3.6.
		Megger Serial No. Calib. Date/Due Date
		,
8.3.3	Maint. Mech.	Remove the damaged cable and pull new cable per 12MHP5021.082.004.
8.3.4	Maint. Mech.	Install lugs on the new cable per 12MHP5021.082.006.
8.3.5	Maint. Mech.	Perform a megger on the new cable per MHP5022.082.002.
		Megger Serial No. Calib. Date/Due Date
		Megger Serial No. Calib. Date/Due Date
8.3.6	Maint. Mech.	Verify breaker 11C6 is racked out and tagged, and MCC EZC-A is de-energized.
8.3.7	Maint. Mech.	Terminate power feeds at breaker 11C6 per 12MHP5021.082.006, if new cable was pulled.
8.3.8	Maint Mech.	Terminate power feeds at the MCC, ensuring proper phasing is maintained, per 12MHP5021.082.006. Remove temporary I.D. Tags. Sign-off on Attachment No. 5.
8.3.9	Maint. Supv.	Verify power feed is properly terminated at the MCC. Sign-off on Attachment No. 5.



8.4.7	Maint. Mech.	Terminate power feeds at breaker 11D6 per 12MHP5021.082.006, if new cable was pulled.
8.4.8	Maint. Mech.	Terminate power feeds at the MCC, ensuring proper phasing is maintained, per 12MHP5021.082.006. Remove temporary I.D. Tags. Sign-off on Attachment No. 7.
8.4.9	Maint. Supv.	Verify power feed is properly terminated at the MCC. Sign-off on Attachment No. 7.
8.4.10	Maint. Supv.	Verify all lifted leads have been properly re-terminated and all electrical jumpers have been removed, and all Temporary Modification I.D. Tags have been removed. Sign-off on Attachments No. 7 and No. 8.
8.4.11	Maint. Supv.	Notify the Shift Supervisor that normal power feed to MCC EZC-D is restored.
		Performed By Date
	1	
		S.S. Date
8.5	Temporary Feed	<u>Breaker</u>
8.5.1	Maint. Mech.	Verify the breaker is opened and tagged, and the output side of the breaker is de-energized.
8.5.2	Maint. Mech.	Determinate the temporary power feed at the breaker.
8.5.3	Maint. Mech.	Reterminate the power cables to the output side of the breaker per applicable sections of 12MHP5021.082.006. Remove temporary I.D. tags. Signoff on Attachment No. 9.
8.5.4	Maint. Supv.	Verify the power cables are properly terminated at the breaker. Signoff on Attachment No. 9.
8.5.5	Maint. Supv.	Verify all lifted leads have been properly re-terminated and all Temporary Modification I.D. Tags have been removed. Signoff on
		Attachment No. 9.



8.5.6 Maint. Mech.

NOTE: Any fire barrier which was opened shall be repaired after the cable is removed.

Remove the temporary power feed.

9.0 ACCEPTANCE CRITERIA

- 9.1 Installation of the temporary power feeds shall be considered acceptable provided work is completed per this procedure and the containment valves functioned properly.
- 9.2 Final acceptance shall be achieved upon restoration of the normal power feeds to the MCCs and to the breaker used for the temporary feed breaker.
- 9.3 In the event that jumpers are not removed and/or lifted leads are not restored, a PNSRC evaluation shall be performed and the signoff completed on the appropriate attachment(s).

10.0 DA	ra collection			
10.1 Maint. Supv.		Review entire proce	edure for completeness.	
		Maint. Supv.	Date	_
10.2	Maint. Supt.	Review of entire p	rocedure.	
		Maint. Supt.	Date	_

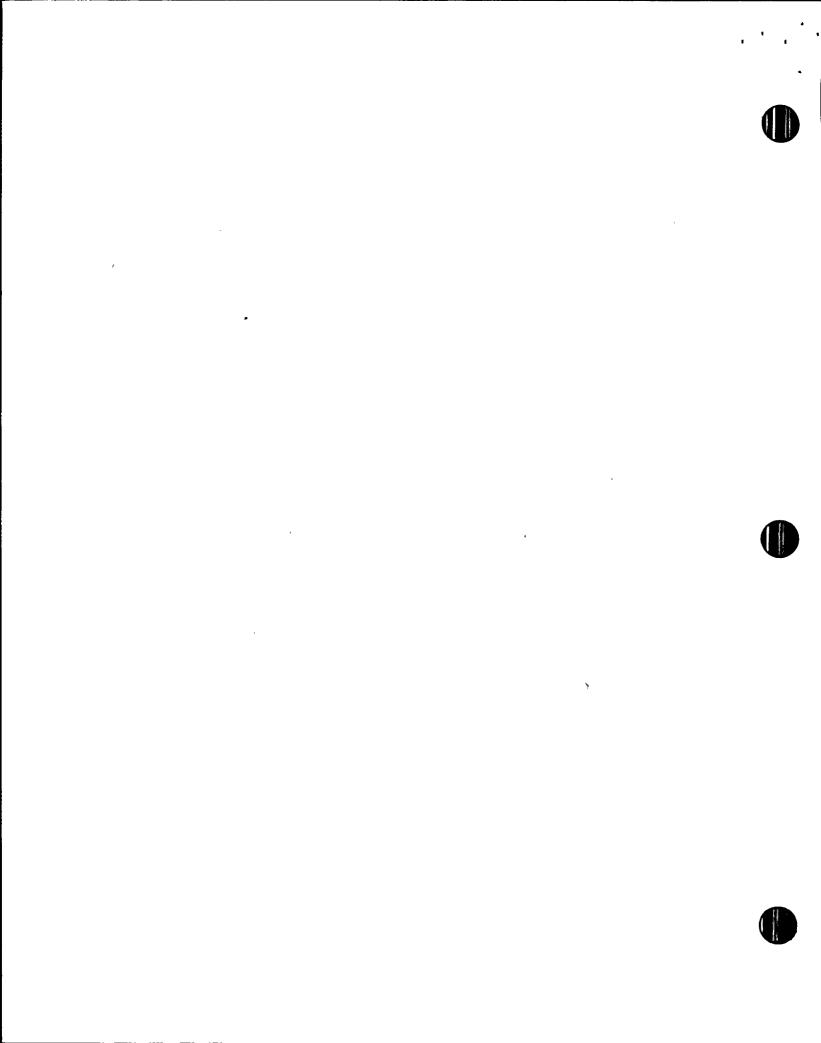
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UNIT: 1

LIFTED WIRE FORM

N	- INTENAL	4CE	DEP	AKIMI	=MI
	ONTROLL				
\sim	OPYNO.				

	: 4KV SWITCHGEAR ROOM T AFFECTED: MCC EZC-A			
7.2.3 & 8.1.8 ITEM #	TERM. BLOCK & TERMINAL # CABLE #	/COMPONENT DESCRIPTION	LIFTED BY DATE	LANDED BY DATE
7.2.4	THE ABOVE WIRES HAVE	BEEN CORRECTLY LIFTED. VERIFIED BY	I	DATE
8.1.9	PARTIAL RESTORATION:	THE FOLLOWING WIRES DESIGN CONFIGURATION		ESTORED TO
•	ITEM #	VERIFIED BY	I	DATE
8.1.10	FINAL RESTORATION:	ALL WIRES WHICH WER RESTORED TO DESIGN (HAVE BEEN REMOVED.	E LIFTED HAVI CONFIGURATION	e been n and all tags
		VERIFIED BY	1	DATE
9.3		L THE LIFTED WIRES HAVE .59 SAFETY EVALUATION H ED BY THE PNSRC PER PMI	as been perfy	ED AND A 10 ORMED AND
	PNSRC REVIEW BY	PNSRC MIG	1	DATE
	IF RESTORED, ATTACH T IF NOT, PLACE THIS FO	HIS FORM TO THE PROCEDU RM IN CONTROL ROOM BOOK	RE OR JOB OR	DER.

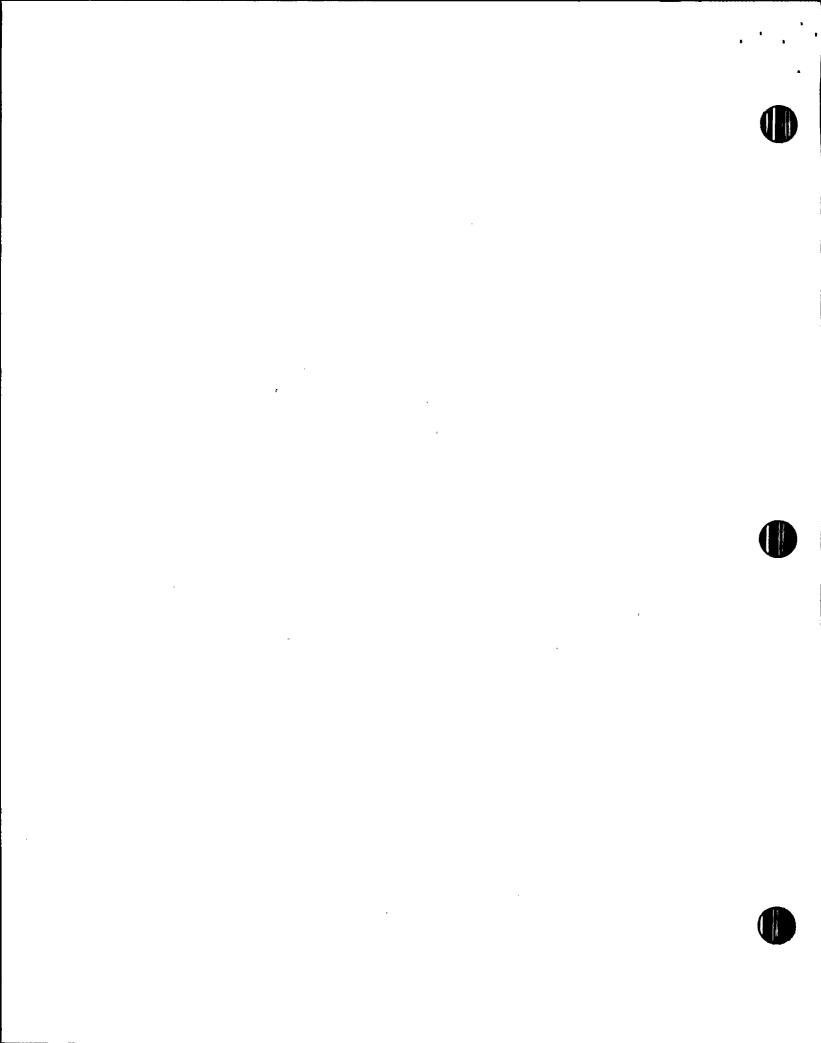


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ELECTRICAL JUMPER FORM

MAINTENANC	E DEPARTMENT
CONTROLLED	
COPY NO.	

	: 4KV SWITCHGEAR ROT AFFECTED: MCC EZ		COPYNO	
7 2 11	JUMPER FROM TERMINAL # AND/OR CONTACT LOCATION	TERMINAL # AND/OR	INSTALLED BY DATE	REMOVED BY DATE
•				
7.2.6	THE ABOVE JUMPERS	HAVE BEEN CORRECTLY IN	STALLED.	DATE
7.2.12	PARTIAL RESTORATION	ON: THE FOLLOWING J	UMPERS HAVE BEEN	REMOVED.
	TTEM #	VERIFIED BY	1	DATE
8.1.10	FINAL RESTORATION	: ALL JUMPERS WHICH HAVE BEEN REMOVE DESIGN CONFIGURE	ED AND THE CIRCU	D AND ALL TAGS IT RESTORED TO
		VERIFIED BY		DATE
9.3	50	T ALL THE JUMPERS HAVE 1 .59 SAFETY EVALUATION H THE PNSRC PER PMI-1040	as been performe	
	PNSRC REVIEW BY _	PNSRC 1	MIG	DATE
	IF RESTORED, ATTA	CH THIS FORM TO THE PROS S FORM IN CONTROL ROOM	CEDURE OR JOB OR	



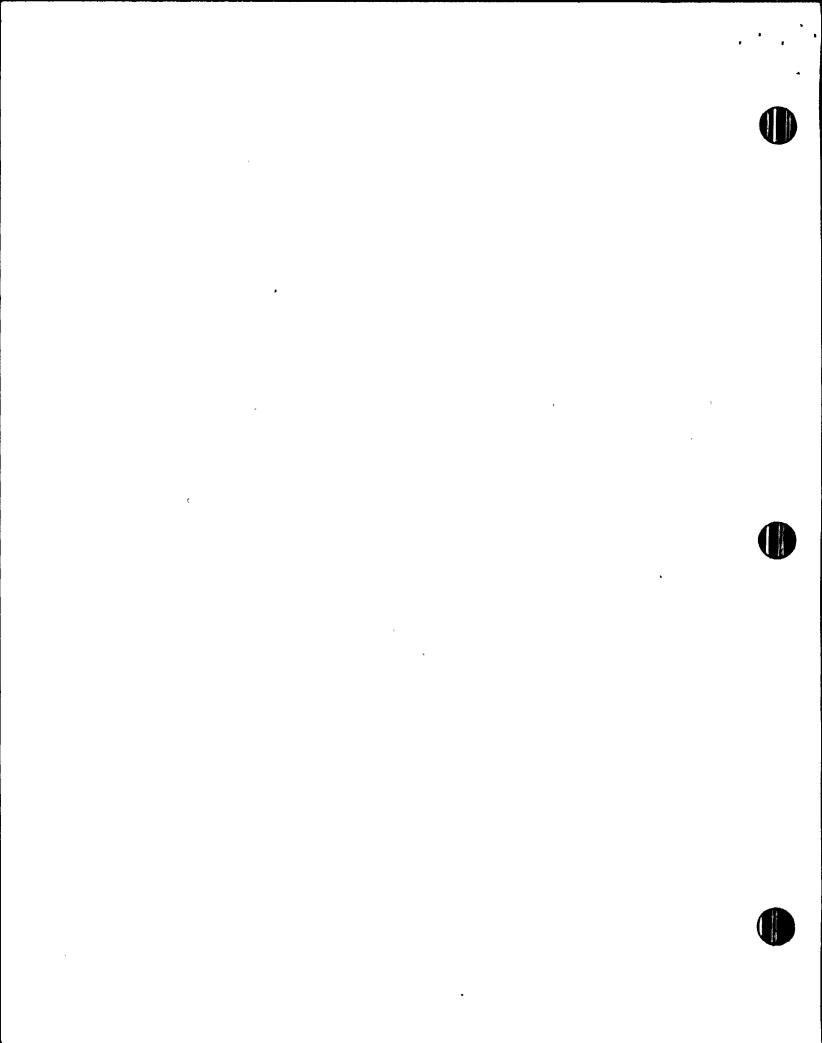
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UNIT: 1

LIFTED	WIRE	FORM
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MAINTENANCE DEPARTMENT CONTROLLED DOCUMENT COPY NO. _____

	: 4KV SWITCHGEAR ROOM T AFFECTED: MCC EZC-I		_	
7.3.3 & 8.2.8 ITEM #	TERM, BLOCK &	#/COMPONENT DESCRIPTION	LIFTED BY DATE	LANDED BY DATE
		ь		····
7.3.4	THE ABOVE WIRES HAV	E BEEN CORRECTLY LIFTED. VERIFIED BY		DATE
8.2.9		: THE FOLLOWING WIRES DESIGN CONFIGURATIO	HAVE BEEN F	
	ITEM #	_ VERIFIED BY		DATE
8.2.10	FINAL RESTORATION:	ALL WIRES WHICH WER RESTORED TO DESIGN HAVE BEEN REMOVED.	E LIFTED HAV CONFIGURATIO	TE BEEN IN AND ALL TAGS
		VERIFIED BY		DATE
9.3	CFR !	ALL THE LIFTED WIRES HAVE 50.59 SAFETY EVALUATION H OVED BY THE PNSRC PER PMI	BEEN RESTOR AS BEEN PERE	ED AND A 10
	PNSRC REVIEW BY	PNSRC MIG		DATE
	IF RESTORED, ATTACH	THIS FORM TO THE PROCEDU	RE OR JOB OF	



UNIT: 1

LOCATION: 4KV SWITCHGEAR ROOM

ELECTRICAL JUMPER FORM

MAINTENANCE DEPARTMENT
COPY NO.

7.3.5 &	JUMPER FROM	JUMPER TO TERMINAL # AND/OR CONTACT LOCATION				
7.3.11	TERMINAL # AND/OR	TERMINAL # AND/OR	INS:	PALLED	REM	OVED
ITEM #	CONTACT LOCATION	CONTACT LOCATION	BA	DATE	BY	DATE
						
						
						
	<u> </u>	· · · · · · · · · · · · · · · · · · ·		······································		
		 				
		**************************************				·
7.3.6	THE ABOVE JUMPERS	HAVE BEEN CORRECTLY INS	STALLED.			
7.3.6	THE ABOVE JUMPERS	HAVE BEEN CORRECTLY INS	STALLED.	D.	ate _	
	ITEM #	VERIFIED BY				
	ITEM #PARTIAL RESTORATION	VERIFIED BY	IMPERS HA	VE BEEN	REMOVE	D.
7.3.6 7.3.12	ITEM #PARTIAL RESTORATION	VERIFIED BY	IMPERS HA	VE BEEN	REMOVE	D.
7.3.12	ITEM # PARTIAL RESTORATION	VERIFIED BY ON: THE FOLLOWING JU VERIFIED BY	IMPERS HI	AVE BEEN	REMOVE	D .
7.3.12	ITEM #PARTIAL RESTORATION	VERIFIED BY ON: THE FOLLOWING JU VERIFIED BY ALL JUMPERS WHICH	IMPERS HA	AVE BEEN DELINER DELIN	REMOVE ATE AND A	D. LL TAG
7.3.12	ITEM # PARTIAL RESTORATION	VERIFIED BY ON: THE FOLLOWING JU VERIFIED BY	IMPERS HA	AVE BEEN DELINER DELIN	REMOVE ATE AND A	D. LL TAG
7.3.12	ITEM # PARTIAL RESTORATION	VERIFIED BY ON: THE FOLLOWING JU VERIFIED BY ALL JUMPERS WHICH HAVE BEEN REMOVED DESIGN CONFIGURA	IMPERS HATCH WERE IN AND THATION.	D. D	REMOVE ATE AND A I REST	D. LL TAG
7.3.12	ITEM # PARTIAL RESTORATION	VERIFIED BY ON: THE FOLLOWING JU VERIFIED BY ALL JUMPERS WHICH HAVE BEEN REMOVE	IMPERS HATCH WERE IN AND THATION.	D. D	REMOVE ATE AND A I REST	D. LL TAG ORED T
7.3.12 3.2.10	ITEM #PARTIAL RESTORATION:	VERIFIED BY ON: THE FOLLOWING JU VERIFIED BY ALL JUMPERS WHICH HAVE BEEN REMOVED DESIGN CONFIGURA VERIFIED BY	IMPERS HA	DE CIRCUIT	REMOVE ATE AND A I REST	D. LL TAG ORED T
7.3.12 3.2.10	PARTIAL RESTORATION: TTEM # FINAL RESTORATION: PNSRC REVIEW: NOT	VERIFIED BY VERIFIED BY VERIFIED BY ALL JUMPERS WHICH HAVE BEEN REMOVED DESIGN CONFIGURA VERIFIED BY CALL THE JUMPERS HAVE BEEN PROVED BEEN PROVED BY	IMPERS HATTON.	DE CIRCUIT	REMOVE ATE AND A I REST	D. LL TAG ORED T
7.3.12 3.2.10	PARTIAL RESTORATION: TTEM # FINAL RESTORATION: PNSRC REVIEW: NOT 50.	VERIFIED BY ON: THE FOLLOWING JU VERIFIED BY ALL JUMPERS WHICH HAVE BEEN REMOVED DESIGN CONFIGURA VERIFIED BY	IMPERS HATCH WERE INTO AND THE ATTION. BEEN REMORANTED FOR THE ATTION OF THE ATTION O	DE CIRCUIT	REMOVE ATE AND A I REST	D. LL TAG ORED T
7.3.12 3.2.10	PARTIAL RESTORATION: TTEM # FINAL RESTORATION: PNSRC REVIEW: NOT 50. BY	VERIFIED BY VERIFIED BY VERIFIED BY ALL JUMPERS WHICH HAVE BEEN REMOVED DESIGN CONFIGURA VERIFIED BY ALL THE JUMPERS HAVE ENDESIGN SAFETY EVALUATION HAVE	IMPERS HATTON. BEEN REMORANCE FOR THE PROPERTY OF THE PROPERT	DESTALLED DE CIRCUIT	ATEAND ATEATEATEA 10 CI AND ATE	LL TAG ORED TO FR PPROVE

MAINTENANCE DEPARTMENT

LIFTED WIRE FORM

	: 4KV SWITCHGEAR ROOM T AFFECTED: MCC EZC-C			LLED DOCUMENT
7.4.3 & 8.3.8 ITEM #	TERM. BLOCK & TERMINAL # CABLE #/COMPO	NENT DESCRIPTION	LIFTED BY DATE	LANDED BY DATE
1				
7.4.4	THE ABOVE WIRES HAVE BEEN O	ORRECULY LIFTED.		
7.4.4	ITEM # VERIF	ED BY	1	DATE
8.3.9	PARTIAL RESTORATION: THE	HE FOLLOWING WIRES ESIGN CONFIGURATION		ESTORED TO
	ITEM #VERIF	ED BY		DATE
8.3.10	RI	L WIRES WHICH WER STORED TO DESIGN (AVE BEEN REMOVED.	E LIFTED HAV CONFIGURATIO	E BEEN N AND ALL TAGS
	VERIF	TED BY		DATE
9.3		LIFTED WIRES HAVE FETY EVALUATION HI THE PNSRC PER PMI-	as been perf	ED AND A 10 ORMED AND
	PNSRC REVIEW BY	PNSRC MTG		DATE
	IF RESTORED, ATTACH THIS FO TF NOT. PLACE THIS FORM IN	ORM TO THE PROCEDU	re or job or	

ELECTRICAL JUMPER FORM

UNIT: 1

MAINTENANCE DEPARTMENT
CONTROLLED DOCUMENT
COPYNO.

7.4.5 &	JUMPER FROM	JUMPER TO	TNOT	ATTEN	שונים	€OK JEN
7.4.11	TERMINAL # AND/OR	TERMINAL # AND/OR CONTACT LOCATION	BA	DATE	BY	DATE DATE
IIEM #	CONTACT DOCATION	CONTRACT DOCUMENT				
			· · · · · · · · · · · · · · · · · · ·	 		
 						
		 			 	
				 		
						
					-	
7.4.6	THE ABOVE JUMPERS	HAVE BEEN CORRECTLY IN	STALLED.		<u>-</u>	
7.4.6	THE ABOVE JUMPERS	HAVE BEEN CORRECTLY IN	STALLED.	D	DATE	
	ITEM #	HAVE BEEN CORRECTLY IN VERIFIED BY				
7.4.6 7.4.12	PARTIAL RESTORATION	VERIFIED BY	UMPERS HA	WE BEEN	REMOVE	D.
7.4.12	PARTIAL RESTORATION	VERIFIED BY	UMPERS HA	VE BEEN D NSTALLED	REMOVE DATE DAND A	D. LL TAC
7.4.12	ITEM #PARTIAL RESTORATION #	VERIFIED BY ON: THE FOLLOWING JOURNAL OF THE F	UMPERS HA	VE BEEN D NSTALLED E CIRCUI	REMOVE DATE DAND A TREST	LL TAC
7.4.12 8.3.10	PARTIAL RESTORATION ITEM # FINAL RESTORATION PNSRC REVIEW: NO. 50	VERIFIED BY ON: THE FOLLOWING JOURNAME OF T	UMPERS HACH WERE I ED AND THATION. BEEN REMOAS BEEN F	VE BEEN DINSTALLED E CIRCUI DIVED AND	REMOVE DATE DATE DATE A 10 C	D. ALL TAC ORED T

LIFTED WIRE FORM

UNIT: 1

MAINTENANCE DEPARTMENT
CONTROLLED DOCUMENT
COPYNO.

8.4.8 ITEM #	TERM. BLOCK & TERMINAL #	CABLE #	/COMPONENT I	DESCRIPTION	BY LI	FTED DATE	LA BY	NDED DATE
	-							
		······································						
							*	
	· · · · · · · · · · · · · · · · · · ·							
							-	
				 				
7.5.4	THE ABOVE WIR			FLY LIFTED.			DATE	
8.4.9	PARTIAL RESTO	RATION:		LOWING WIRES		BEEN I	RESTOR	ED TO
	ITEM #		VERIFIED BY				DATE	
8.4.10	FINAL RESTORA	TION:	RESTORE	es which werd o to design (en removed.	E LIF CONFI	TED HAV GURATIO	7E BEE ON AND	N ALL TA
			VERIFIED BY				DATE	
				WIRES HAVE	BEEN	RESTOR	RED AN	D A 10
9.3	PNSRC REVIEW:	CFR 50	.59 SAFETY 1	EVALUATION HANSEC PER PMI-	AS BE		ORMED	AND

ELECTRICAL JUMPER FORM

EQUIPMENT AFFECTED: MCC EZC-D

MAINTENANCE DEPARTMENT CONTROLLED DOCUMENT UNIT: 1 COPYNO. LOCATION: 4KV SWITCHGEAR ROOM

	JUMPER FROM	JUMPER TO TERMINAL # AND/OR	TNICO	AT.T.FD	Mag	רניוניו
7.5.11 TEM #	CONTACT LOCATION	CONTACT LOCATION	BY	DATE	ву	DATE
						
-		_				
		WAR DED CORRECT A	CHALLED.			
7.5.6	THE ABOVE JUMPERS	HAVE BEEN CORRECTLY IN VERIFIED BY	STALLED.	Di	ATE	
7.5.12		ON: THE FOLLOWING J				
7.5.12						
	ITEM #	VERIFIED BY		Di	ATE	
3.4.10	FINAL RESTORATION	: ALL JUMPERS WHI HAVE BEEN REMOV DESIGN CONFIGUR	ED AND TH			
		VERIFIED BY		Di	ATE	
9.3	50	T ALL THE JUMPERS HAVE .59 SAFETY EVALUATION H THE PNSRC PER PMI-1040	as been f	WED AND A	a 10 C AND A	FR PPROVE
	PNSRC REVIEW BY	PNSRC	MIG	D.	ATE	
	IF RESTORED, ATTA	CH THIS FORM TO THE PROS S FORM IN CONTROL ROOM	CEDURE OF			

LIFTED WIRE FORM

MAINTENANCE DEPARTMENT	
CONTROLLED DOCUMENT	
COPY NO	

UNIT: 1 LOCATION: EQUIPMENT AFFECTED:

7.1.3 & 8.5.3 ITEM #	TERM. BLOCK & TERMINAL # CABLE #/COMPONENT DESCRI	LIFTE LIFTEN BY DAY	D LANDED TE BY DATE
7.1.4	THE ABOVE WIRES HAVE BEEN CORRECTLY LITEM # VERIFIED BY	IFTED.	DATE
8.5.4	PARTIAL RESTORATION: THE FOLLOWING DESIGN CONFIG	WIRES HAVE BE FURATION.	EN RESTORED TO
	ITEM # VERIFIED BY		. DATE
8.5.5	FINAL RESTORATION: ALL WIRES WHI RESTORED TO I HAVE BEEN REM	DESIGN CONFIGUR	HAVE BEEN ATION AND ALL TAG
	VERIFIED BY		DATE
9.3	PNSRC REVIEW: NOT ALL THE LIFTED WIRD CFR 50.59 SAFETY EVALUE APPROVED BY THE PNSRC I	ATION HAS BEEN :	
	PNSRC REVIEW BY PNSI	RC MIG	DATE
	IF RESTORED, ATTACH THIS FORM TO THE I		B ORDER.