

MODIFICATION AND ADDITIONS INSTRUCTION

M2AI-7

ELECTRICAL PENETRATION SPLICING, CABLE SPLICING  
AND CABLE REPAIR INSTRUCTIONSPrepared By: Lynn CowanRevised By: C. R. BrimerSubmitted By: *C. R. Brimer*  
SupervisorPORC Review: 3/3/81 up 3/3/80  
DateApproved By: *John R. Bell*  
SuperintendentDate Approved: 3/4/80

Rev. No.	Date	Revised Pages
0	11/8/79	All
1	3/4/80	Revised 1, 2, 18 19, 41, 44, 45
<del>2</del>	<del>3/4/80</del>	<del>Added 50-56</del> <del>"TITLE CHANGE"</del>

The last page of this instruction is Number

1C	Plant Master File
	Superintendent
	Assistant Superintendent (Oper.)
1U	Assistant Superintendent (Maint.)
	Administrative Supervisor
	Maintenance Supervisor (M)
1U	Assistant Maintenance Supervisor (M)
1C	Maintenance Supervisor (E)
1C	Assistant Maintenance Supervisor (E)
	Maintenance Supervisor (I)
	Results Supervisor
	Operations Supervisor
1C	Quality Assurance Supervisor
	Health Physics
	Public Safety Services Supv.
	Chief Storekeeper
	Preop Test Program Coordinator
1C	Outage Director
	Chemical Engineer
	Radiochem Laboratory
	Instrument Shop
	Reactor Engineer
	Instrument Engineer
	Mechanical Engineer
	Staff Industrial Engineer
1C	Training Center Coordinator
	PSO - Chickamauga Engrg Unit - SNP
	Public Safety Services - SNP
	Shift Engineer's Office
	Unit Control Room
	QA&A Rep. - SNP
	Health Physics Laboratory
1U	Chief, Nuclear Generation Branch
1U	P Prod Central Office File
1U	Superintendent, WBNP
	Superintendent, BFNP
	Superintendent, BENP
1U	EN DES - NEB NEG
	Supv., NPHPS ROB, MS
	NRC-IE:II
	Power Security Officer, 604 PRB-C
	Nuclear Materials Coordinator
	Manager, OP-QA&A Staff
1U	P Prod Plant Eng. Branch
1C	NSRS, 309 GB-K
	Technical Support Center
1C	Asst. Outage Director
* 1U	Outage Director, Watts Bar

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Cable No. \_\_\_\_\_  
# Conductors \_\_\_\_\_  
Splice Location \_\_\_\_\_

Inspected per  
Attachments  
\_ 1 \_ 2 \_ 3 \_ 4  
I certify that splice  
meets requirements of  
this procedure

\_\_\_\_\_  
Inspector      Date  
\_\_\_\_\_  
Engineer

Splice Performed By  
\_\_\_\_\_  
Electrician  
\_\_\_\_\_  
Electrician  
\_\_\_\_\_  
Foreman

Cable No. \_\_\_\_\_  
# Conductors \_\_\_\_\_  
Splice Location \_\_\_\_\_

Inspected per  
Attachments  
\_ 1 \_ 2 \_ 3 \_ 4  
I certify that splice  
meets requirements of  
this procedure

\_\_\_\_\_  
Inspector      Date  
\_\_\_\_\_  
Engineer

Splice Performed By  
\_\_\_\_\_  
Electrician  
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Electrician  
\_\_\_\_\_  
Foreman

Cable No. \_\_\_\_\_  
# Conductors \_\_\_\_\_  
Splice Location \_\_\_\_\_

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\_\_\_\_\_  
Inspector      Date  
\_\_\_\_\_  
Engineer

Splice Performed By  
\_\_\_\_\_  
Electrician  
\_\_\_\_\_  
Electrician  
\_\_\_\_\_  
Foreman

Cable No. \_\_\_\_\_  
# Conductors \_\_\_\_\_  
Splice Location \_\_\_\_\_

Inspected Per  
Attachments  
\_ 1 \_ 2 \_ 3 \_ 4  
I certify that splice  
meets requirements of  
procedure

\_\_\_\_\_  
Inspector      Date  
\_\_\_\_\_  
Engineer

Splice Performed By  
\_\_\_\_\_  
Electrician  
\_\_\_\_\_  
Electrician  
\_\_\_\_\_  
Foreman

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Cable No. \_\_\_\_\_  
# Conductors \_\_\_\_\_  
Splice Location \_\_\_\_\_

Inspected per  
Attachments

\_\_ 1 \_\_ 2 \_\_ 3 \_\_ 4

I certify that splice  
meets requirements of  
this procedure

\_\_\_\_\_  
Inspector      Date  
\_\_\_\_\_  
Engineer

Splice Performed By

\_\_\_\_\_  
Electrician

\_\_\_\_\_  
Electrician

\_\_\_\_\_  
Foreman

Cable No. \_\_\_\_\_  
# Conductors \_\_\_\_\_  
Splice Location \_\_\_\_\_

Inspected per  
Attachments

\_\_ 1 \_\_ 2 \_\_ 3 \_\_ 4

I certify that splice  
meets requirements of  
this procedure

\_\_\_\_\_  
Inspector      Date  
\_\_\_\_\_  
Engineer

Splice Performed By

\_\_\_\_\_  
Electrician

\_\_\_\_\_  
Electrician

\_\_\_\_\_  
Foreman

Cable No. \_\_\_\_\_  
# Conductors \_\_\_\_\_  
Splice Location \_\_\_\_\_

Inspected per  
Attachments

\_\_ 1 \_\_ 2 \_\_ 3 \_\_ 4

I certify that splice  
meets requirements of  
procedure

\_\_\_\_\_  
Inspector      Date  
\_\_\_\_\_  
Engineer

Splice Performed By

\_\_\_\_\_  
Electrician

\_\_\_\_\_  
Electrician

\_\_\_\_\_  
Foreman

Cable No. \_\_\_\_\_  
# Conductors \_\_\_\_\_  
Splice Location \_\_\_\_\_

Inspected Per  
Attachments

\_\_ 1 \_\_ 2 \_\_ 3 \_\_ 4

I certify that splice  
meets requirements of  
procedure

\_\_\_\_\_  
Inspector      Date  
\_\_\_\_\_  
Engineer

Splice Performed By

\_\_\_\_\_  
Electrician

\_\_\_\_\_  
Electrician

\_\_\_\_\_  
Foreman

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Workplan \_\_\_\_\_

## CABLE SPLICING

Cable # \_\_\_\_\_

# Conductors/Size \_\_\_\_\_

Splice Location: \_\_\_\_\_

Elev; Column; Tray, Pent or JB

Electricians Performing Splice  
\_\_\_\_\_  
\_\_\_\_\_

Crimping tool # \_\_\_\_\_

Tool Calib Due Date \_\_\_\_\_

Splice Performed per Figure \_\_\_\_\_

Crimps Acceptable per Attachment 4

✓ --Inspector \_\_\_\_\_ / \_\_\_\_\_ Date  
--Designee \_\_\_\_\_

Individual Conductor Sleeve  
Installation Acceptable per Att. 2

✓ --Inspector \_\_\_\_\_ / \_\_\_\_\_ Date  
--Designee \_\_\_\_\_

Outer Sleeve Installation  
Acceptable Per Att. 1 or 2

✓ --Inspector \_\_\_\_\_ / \_\_\_\_\_ Date  
--Designee \_\_\_\_\_

Splice Meets Requirements  
of this Procedure

✓ --Inspector \_\_\_\_\_ / \_\_\_\_\_ Date  
--Designee \_\_\_\_\_

Cable # \_\_\_\_\_

# Conductors/Size \_\_\_\_\_

Splice Location: \_\_\_\_\_

Elev; Column; Tray, Pent or JB

Electricians Performing Splice  
\_\_\_\_\_  
\_\_\_\_\_

Crimping tool # \_\_\_\_\_

Tool Calib Due Date \_\_\_\_\_

Splice Performed per Figure \_\_\_\_\_

Crimps Acceptable per Attachment 4

--Inspector \_\_\_\_\_ / \_\_\_\_\_ Date  
--Designee \_\_\_\_\_

Individual Conductor Sleeve  
Installation Acceptable per Att. 2

--Inspector \_\_\_\_\_ / \_\_\_\_\_ Date  
--Designee \_\_\_\_\_

Outer Sleeve Installation  
Acceptable Per Att. 1 or 2

--Inspector \_\_\_\_\_ / \_\_\_\_\_ Date  
--Designee \_\_\_\_\_

Splice Meets Requirements  
of this Procedure

--Inspector \_\_\_\_\_ / \_\_\_\_\_ Date  
--Designee \_\_\_\_\_

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MR # \_\_\_\_\_

### CABLE JACKET REPAIR

Cable # if Known \_\_\_\_\_

Location of Repair  
(Elev, Column, Tray, Etc) \_\_\_\_\_

Cable repair made  
in accordance with  
Section 6.K of this  
instruction

Inspector / Date  
Designee

Inspector / Date  
Designee

Inspector / Date  
Designee