



Melvin N. Browne  
Manager, Nuclear Licensing & Operating Experience  
803.345-4141

May 22, 2001  
RC-01-0104

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

Gentlemen:

Subject: VIRGIL C. SUMMER NUCLEAR STATION (VCSNS)  
DOCKET NO. 50/395  
OPERATING LICENSE NO. NPF-12  
TRANSMITTAL OF EMERGENCY PLAN PROCEDURE

In compliance with 10CFR50 Appendix E(V), South Carolina Electric & Gas Company, acting for itself and as agent for South Carolina Public Service Authority, transmits one controlled copy of EPP-104, Revision 5, Change G, "Verification of Communications Operability".

This procedur change is being reissued because a portion of the change was inadvertently left out of the initial issue.

The effectiveness of the Virgil C. Summer Nuclear Station Radiation Emergency Plan is not decreased by the change to this procedure.

Should you have any questions, please contact Mrs. Donna Railey at (803) 345-4107.

Very truly yours,

Melvin N. Browne

DWR/MNB/dr  
Attachments

- c. (Without Attachment unless noted)
  - L. A. Reyes (With 2 Attachments)
  - NRC Resident Inspector
  - W. R. Higgins
  - RTS (O-L-99-0354)
  - RTS (O-C-01-0653)
  - File (810.10-2, RR 6000)
  - DMS (RC-01-0104)

A045

SOUTH CAROLINA ELECTRIC & GAS COMPANY

VIRGIL C. SUMMER NUCLEAR STATION

NUCLEAR OPERATIONS

NUCLEAR OPERATIONS


COPY NO. 157

EMERGENCY PLAN PROCEDURE

EPP-104

VERIFICATION OF COMMUNICATIONS OPERABILITY

REVISION 5

  
DISCIPLINE SUPERVISOR

5/1/97  
DATE

  
APPROVAL AUTHORITY

5/1/97  
DATE

RECORD OF CHANGES

CHANGE LETTER	TYPE CHANGE	APPROVAL DATE	CANCELLATION DATE	CHANGE LETTER	TYPE CHANGE	APPROVAL DATE	CANCELLATION DATE
A	P	09-09-97		E	P	06-05-00	
B	P	09-22-97		F	P	9-26-00	
C	P	11-04-98		G	P	12/19/00	
D	P	12-29-98					

INFORMATION USE

Procedure may Be Performed From Memory.  
User Retains Accountability For Proper Performance.

# NUCLEAR OPERATIONS

## COPY NO. 157

SAP-139  
ATTACHMENT III  
PAGE 1 OF 3  
REVISION 19

### PROCEDURE DEVELOPMENT FORM - A

<b>I. DATE:</b> <u>10-23-00</u> <b>PROC.#</b> <u>EPP-104</u> <b>REV. #</b> <u>5</u> <b>CHG.</b> <u>G</u> <b>COMM. #</b> _____ <b>TITLE:</b> <u>Verification of Communications Operability</u>	
<b>NEW PROC</b> _____ <b>CHANGE</b> <input checked="" type="checkbox"/> <b>PERMANENT</b> <input checked="" type="checkbox"/> <b>REVISION</b> _____ <b>RESTRICTED</b> _____ <b>FROM</b> _____ <b>TO</b> _____	<b>SAFETY RELATED</b> _____ <b>QUALITY RELATED</b> _____ <b>NON-SAFETY RELATED</b> <input checked="" type="checkbox"/>

**II. DESCRIPTION:** Deleted Forward Emerg. Ops. Center from Attachment I-A  
  

REASON FOR CHANGE: SC has discontinued use of the facility and removed reference to the FEOC from their plans as specified in a letter from Mr Ron Osborne with SCEPD to Vic Kalby, dated 8-21-00.

P. Delmartz / R.J. Schwartz  
 Originator Sign/Print

**III. WILL THIS REVISION/CHANGE/NEW PROCEDURE:**

	*YES	NO	N/A
1. Result in significant increased personnel radiation exposure? (ALARA review)	_____	<input checked="" type="checkbox"/>	
2. Result in a release of effluents to the Environment?	_____	<input checked="" type="checkbox"/>	
3. Degrade the effectiveness of the Radiation Emergency Plan?	_____	<input checked="" type="checkbox"/>	
4. Degrade the safeguards effectiveness of the Physical Security, Safeguards Contingency of Training and Qualification Plans?	_____	_____	<input checked="" type="checkbox"/>

\* If any question 1 through 4 is answered "YES", refer to appropriate section of procedure for direction

Required Reviews: Check ALL selections in first 3 columns for SAPs

<input type="checkbox"/> MCHS	<input type="checkbox"/> MNL&OE	<input type="checkbox"/> MPLE	<input type="checkbox"/> GMES	<input type="checkbox"/> CWPS	<input type="checkbox"/> ISEG	<input type="checkbox"/> NOET	<input type="checkbox"/> QC	Other Reviews: <u>GMNS</u> <u>QA</u> Discipline Supervisor <u>10/24/00</u> Date
<input type="checkbox"/> MDE	<input type="checkbox"/> MNPS	<input type="checkbox"/> MPSE	<input type="checkbox"/> GMNPO	<input type="checkbox"/> DE	<input type="checkbox"/> MNTS	<input checked="" type="checkbox"/> NPS	<input checked="" type="checkbox"/> QOR	
<input type="checkbox"/> MHPS	<input type="checkbox"/> MNT	<input type="checkbox"/> MSPD	<input type="checkbox"/> GMNSS	<input type="checkbox"/> FFD	<input type="checkbox"/> MQS	<input type="checkbox"/> NTET	<input type="checkbox"/> RC	
<input type="checkbox"/> MMPR	<input type="checkbox"/> MOPS	<input type="checkbox"/> SAS	<input type="checkbox"/> GMSPD	<input checked="" type="checkbox"/> HPS	<input type="checkbox"/> MPR	<input checked="" type="checkbox"/> OPS	<input type="checkbox"/> RE	
<input type="checkbox"/> MMS	<input type="checkbox"/> MP&S	<input type="checkbox"/> QA	<input type="checkbox"/> CHS	<input type="checkbox"/> ISD	<input type="checkbox"/> NL&OE	<input type="checkbox"/> PSE	<input type="checkbox"/> TU	

**IV. 10CFR50.59 SCREENING REVIEW/SAFETY EVALUATION**  
☐ REQUIRED ☒ EXEMPT ☐ PSRC SUPPORTING DOCUMENT: 10CFR50.54g

**V. TEMPORARY APPROVAL:**  

QUALIFIED REVIEWER _____ DATE _____	QA REVIEW _____ DATE _____
TELECON BY _____	TELECON BY _____
SHIFT SUPERVISOR _____ DATE _____	FINAL APPROVAL REQUIRED BY: DATE _____

**VI. DISCIPLINE SUPERVISOR FINAL REVIEW:**  
  
 PSRC REVIEW PRIOR TO IMPLEMENTATION? YES \_\_\_\_\_ NO ☒  
  
 TRAINING REQUIRED? YES ☒ NO \_\_\_\_\_  
  
 IF YES, PRIOR TO PROCEDURE IMPLEMENTATION? YES \_\_\_\_\_ NO ☒  
  
 P/CAP AFFECTED? YES \_\_\_\_\_ NO ☒  
  
 COMMENTS RESOLVED: [Signature] 11/16/00  
 Discipline Supervisor Date

**VII. P/CAP ACCEPTABLE?**  
 C. YES \_\_\_\_\_ NO N/A Date \_\_\_\_\_  
 N. YES \_\_\_\_\_ NO N/A Date \_\_\_\_\_  
 RESP. MGR. \_\_\_\_\_ Date \_\_\_\_\_

**VIII. FINAL QA REVIEW (As Applicable)**  
N/A Date \_\_\_\_\_  
 QA Concurrence \_\_\_\_\_ Date \_\_\_\_\_

**IX. APPROVAL AUTHORITY:**  
N/A Date \_\_\_\_\_  
 Training Completed \_\_\_\_\_ Date \_\_\_\_\_  
 Procedure Approval/Concurrence [Signature] 11/19/00 Date \_\_\_\_\_

**X. PSRC REVIEW:**

<b>A. REVIEWED BY:</b>  PSRC Chairman _____ Date _____  COMMENTS: YES _____ NO _____	<b>B. PSRC COMMENTS RESOLVED:</b>  Responsible Manager _____ Date _____  PSRC Chairman _____ Date _____
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## NUCLEAR OPERATIONS

COPY NO. 157

SAP-139  
ATTACHMENT III  
PAGE 1 OF 3  
REVISION 19

## PROCEDURE DEVELOPMENT FORM - A

I. DATE: <u>07-26-00</u> PROC.# <u>EPP-104</u> REV.# <u>5</u> CHG. <u>F</u> COMM.# _____	
TITLE: <u>Verification of Communications Operability</u>	
NEW PROC _____	CHANGE <input checked="" type="checkbox"/> PERMANENT <input checked="" type="checkbox"/>
REVISION _____	RESTRICTED _____ FROM _____ TO _____
SAFETY RELATED _____	
QUALITY RELATED _____	
NON-SAFETY RELATED <input checked="" type="checkbox"/>	

II. DESCRIPTION: Add Note 5.3

REASON FOR CHANGE: Ensure sirens are not disabled for maintenance reasons prior to test.

Leonard Bouknight      Leonard Bouknight  
 Originator      Sign/Print

III. WILL THIS REVISION/CHANGE/NEW PROCEDURE:
 

	*YES	NO	N/A
1. Result in significant increased personnel radiation exposure? (ALARA review)	_____	<input checked="" type="checkbox"/>	
2. Result in a release of effluents to the Environment?	_____	<input checked="" type="checkbox"/>	
3. Degrade the effectiveness of the Radiation Emergency Plan?	_____	<input checked="" type="checkbox"/>	
4. Degrade the safeguards effectiveness of the Physical Security, Safeguards Contingency of Training and Qualification Plans?	_____	_____	<input checked="" type="checkbox"/>

\* If any question 1 through 4 is answered "YES", refer to appropriate section of procedure for direction

Required Reviews: Check ALL selections in first 3 columns for SAPs
 

( ) MCHS	( ) MNL&OE	( ) MPLE	( ) GMES	( ) CWPS	( ) ISEG	( ) NOET	( ) QC	Other Reviews: Discipline/Supervisor <u>8/29/00</u> Date
( ) MDE	( ) MNPS	( ) MPSE	( ) GMNPO	( ) DE	( ) MNTS	( ) NPS	( ) QR	
( ) MHPS	( ) MNT	( ) MSPD	( ) GMNSS	( ) FFD	( ) MQS	( ) NTET	( ) RC	
( ) MMPR	( ) MOPS	( ) SAS	( ) GMSPD	( ) HPS	( ) MPR	( ) OPS	( ) RE	
( ) MMS	( ) MP&S	( ) QA	( ) CHS	( ) ISD	( ) NL&OE	( ) PSE	( ) TU	

IV. 10CFR50.59 SCREENING REVIEW/SAFETY EVALUATION  
☐ REQUIRED ☒ EXEMPT ☐ PSRC SUPPORTING DOCUMENT: 50.54B

V. TEMPORARY APPROVAL:
 

QUALIFIED REVIEWER _____ DATE _____	QA REVIEW _____ DATE _____
TELECON BY _____	TELECON BY _____
SHIFT SUPERVISOR _____ DATE _____	FINAL APPROVAL REQUIRED BY: DATE _____

VI. DISCIPLINE SUPERVISOR FINAL REVIEW:
 

PSRC REVIEW PRIOR TO IMPLEMENTATION? YES \_\_\_\_\_ NO ☒

TRAINING REQUIRED? YES \_\_\_\_\_ NO ☒

IF YES, PRIOR TO PROCEDURE IMPLEMENTATION? YES \_\_\_\_\_ NO \_\_\_\_\_

P/CAP AFFECTED? YES \_\_\_\_\_ NO ☒

COMMENTS RESOLVED: Discipline Supervisor 9/14/00 Date

VII. P/CAP ACCEPTABLE?  
 C. YES \_\_\_\_\_ NO \_\_\_\_\_ NL&OE \_\_\_\_\_ Date \_\_\_\_\_  
 N. YES \_\_\_\_\_ NO \_\_\_\_\_ RESP. MGR. \_\_\_\_\_ Date \_\_\_\_\_  
 VIII. FINAL QA REVIEW (As Applicable)  
N/A  
 QA Concurrence \_\_\_\_\_ Date \_\_\_\_\_  
 IX. APPROVAL AUTHORITY:  
N/A  
 Training Completed \_\_\_\_\_ Date \_\_\_\_\_  
 Procedure Approval/Concurrence 9/26/00 Date \_\_\_\_\_

X. PSRC REVIEW:
 

A. REVIEWED BY: PSRC Chairman _____ Date _____ COMMENTS: YES _____ NO _____	B. PSRC COMMENTS RESOLVED: Responsible Manager _____ Date _____ PSRC Chairman _____ Date _____
---	--

NUCLEAR OPERATIONS  
COPY NO. 157

**SAP-139**  
**ATTACHMENT IV**  
**PAGE 1 OF 3**  
**REVISION 18**

# PROCEDURE DEVELOPMENT FORM - A

I. DATE: <u>03/01/00</u>		PROC.# <u>EPP-104</u>		REV.# <u>5</u>		CHG. <u>E</u>		COMM.# _____																	
TITLE: <u>Verification of Communications Operability</u>																									
NEW PROC _____		CHANGE <input checked="" type="checkbox"/>		PERMANENT <input checked="" type="checkbox"/>		SAFETY RELATED _____																			
REVISION _____		RESTRICTED _____		FROM _____ TO _____		QUALITY RELATED _____																			
						NON-SAFETY RELATED <input checked="" type="checkbox"/>																			
II. DESCRIPTION: <u>1) Change step 5.2.7.C and Att. 1-D to read Plant Radiation Alarms.</u> <u>2) Change 5.3.3.L.4.a and 5.3.3.J.10.a to 25 MWR.</u> <u>3) Delete from Att. 1-B Item # 2, F.2 "LEA Radio".</u> REASON FOR CHANGE: <u>1) Clarify which alarms will be heard during test.</u> <u>2) To give siren repairs a higher priority MWR.</u> <u>3) Replaced by new radio channels to Newberry and Fairfield Conventions</u>																									
III. WILL THIS REVISION/CHANGE/NEW PROCEDURE: <table border="0" style="width:100%;"> <tr> <td>1. Result in significant increased personnel radiation exposure? (ALARA review)</td> <td>YES _____</td> <td>NO <input checked="" type="checkbox"/></td> <td>N/A _____</td> </tr> <tr> <td>2. Result in a release of effluents to the Environment?</td> <td>_____</td> <td><input checked="" type="checkbox"/></td> <td>_____</td> </tr> <tr> <td>3. Degrade the effectiveness of the Radiation Emergency Plan?</td> <td>_____</td> <td><input checked="" type="checkbox"/></td> <td>_____</td> </tr> <tr> <td>4. Degrade the safeguards effectiveness of the Physical Security, Safeguards Contingency of Training and Qualification Plans?</td> <td>_____</td> <td><input checked="" type="checkbox"/></td> <td>_____</td> </tr> </table>				1. Result in significant increased personnel radiation exposure? (ALARA review)	YES _____	NO <input checked="" type="checkbox"/>	N/A _____	2. Result in a release of effluents to the Environment?	_____	<input checked="" type="checkbox"/>	_____	3. Degrade the effectiveness of the Radiation Emergency Plan?	_____	<input checked="" type="checkbox"/>	_____	4. Degrade the safeguards effectiveness of the Physical Security, Safeguards Contingency of Training and Qualification Plans?	_____	<input checked="" type="checkbox"/>	_____	* If any question 1 through 4 is answered "YES", refer to appropriate section of procedure for direction.					
1. Result in significant increased personnel radiation exposure? (ALARA review)	YES _____	NO <input checked="" type="checkbox"/>	N/A _____																						
2. Result in a release of effluents to the Environment?	_____	<input checked="" type="checkbox"/>	_____																						
3. Degrade the effectiveness of the Radiation Emergency Plan?	_____	<input checked="" type="checkbox"/>	_____																						
4. Degrade the safeguards effectiveness of the Physical Security, Safeguards Contingency of Training and Qualification Plans?	_____	<input checked="" type="checkbox"/>	_____																						
REQUESTED REVIEW AND COMMENT: ( ) MOPS ( ) MHPS ( ) GMNPO ( ) QA ( ) TU ( ) ISD ( ) _____ ( ) MMS ( ) MDE ( ) GMES ( ) QC ( ) CHS ( ) RC ( ) _____ ( ) MQS ( ) MNT ( ) GMNSS ( ) SAS ( ) RPS ( ) _____ ( ) MPSE ( ) MNL&OE ( ) GMSPD ( ) MNTS ( ) PSE ( ) _____ ( ) MCHS ( ) MNPS ( ) OPS ( ) NPS ( ) DE ( ) _____				REQUESTED REVIEW: <u>[Signature]</u> 3/2/00 Discipline Supervisor Date																					
IV. 10CFR50.59 SCREENING REVIEW/SAFETY EVALUATION <input type="checkbox"/> REQUIRED <input checked="" type="checkbox"/> EXEMPT <input type="checkbox"/> PSRC SUPPORTING DOCUMENT: _____																									
V. TEMPORARY APPROVAL: QUALIFIED REVIEWER _____ DATE _____ TELECON BY _____ SHIFT SUPERVISOR _____ DATE _____																									
VI. DISCIPLINE SUPERVISOR FINAL REVIEW: PSRC REVIEW PRIOR TO IMPLEMENTATION? YES _____ NO <input checked="" type="checkbox"/> TRAINING REQUIRED? YES _____ NO <input checked="" type="checkbox"/> IF YES, PRIOR TO PROCEDURE IMPLEMENTATION? YES _____ NO _____ PIC/AP AFFECTED? YES _____ NO <input checked="" type="checkbox"/> COMMENTS RESOLVED: <u>Amended 15-9-00</u> Discipline Supervisor Date					VII. PIC/AP ACCEPTABLE? C. YES _____ NO <input checked="" type="checkbox"/> N. YES _____ NO <input checked="" type="checkbox"/> RESP. MGR. _____ Date																				
					VIII. FINAL QA REVIEW (As Applicable) <u>NA</u> QA Concurrence _____ Date																				
					IX. APPROVAL AUTHORITY: <u>NA</u> Training Completed _____ Date <u>[Signature]</u> 6/5/00 Procedure Approval/Concurrence Date																				
X. PSRC REVIEW: A. REVIEWED BY: PSRC Chairman _____ Date COMMENTS: YES _____ NO _____																									
					B. PSRC COMMENTS RESOLVED: Responsible Manager _____ Date PSRC Chairman _____ Date																				

**NUCLEAR OPERATIONS**  
**COPY NO. 157**

SAP-139  
ATTACHMENT IV  
PAGE 1 OF 3  
REVISION 18

**PROCEDURE DEVELOPMENT FORM - A**

I. DATE: <u>11-30-98</u> PROC.# <u>EPP-104</u> REV.# <u>5</u> CHG. <u>D</u> COMM.# _____	
TITLE: <u>Verification of Communications Operability</u>	
NEW PROC _____	CHANGE <input checked="" type="checkbox"/> PERMANENT <input checked="" type="checkbox"/>
REVISION _____	RESTRICTED _____ FROM _____ TO _____
SAFETY RELATED _____	
QUALITY RELATED _____	
NON-SAFETY RELATED <input checked="" type="checkbox"/>	

II. DESCRIPTION: ① Change Ref 2.B from EPP-001 to NL-122 ② Sections 5.3.1.I.1, 5.3.2.F.1 and 5.3.3.K.1 changed EPP-001 to NL-122.

REASON FOR CHANGE: There is no longer an EAL in EPP-001 associated with EWSS operability. EWSS inoperability requires a 1 hr report to the NRC in accordance with NL-122. R-J. Schwartz R.J. Schwartz

Originator \_\_\_\_\_ Sign/Print \_\_\_\_\_

III. WILL THIS REVISION/CHANGE/NEW PROCEDURE:

	*YES	NO	N/A
1. Result in significant increased personnel radiation exposure? (ALARA review)	_____	<input checked="" type="checkbox"/>	_____
2. Result in a release of effluents to the Environment?	_____	<input checked="" type="checkbox"/>	_____
3. Degrade the effectiveness of the Radiation Emergency Plan?	_____	<input checked="" type="checkbox"/>	_____
4. Degrade the safeguards effectiveness of the Physical Security, Safeguards Contingency of Training and Qualification Plans?	_____	_____	<input checked="" type="checkbox"/>

\* If any question 1 through 4 is answered "YES", refer to appropriate section of procedure for direction.

REQUIRED REVIEW AND COMMENT:

( ) MOPS ( ) MHPS ( ) GMNPO ( ) QA ( ) TU ( ) ISD	REQUESTED REVIEWS: <u>QA</u>
( ) MMS ( ) MDE ( ) GMES ( ) QC ( ) CHS ( ) RC	<u>GMNPS</u>
( ) MQS ( ) MNT ( ) GMNPS ( ) SAS ( ) THPS	<u>Conc</u>
( ) MPSE ( ) MNL&OE ( ) GMSPD ( ) MNTS ( ) PSE	( ) _____
( ) MCHS ( ) MNPS ( ) OPS ( ) NPS ( ) DE	( ) _____

Discipline Supervisor \_\_\_\_\_ Date 11/30/98

IV. 10CFR50.59 SCREENING REVIEW/SAFETY EVALUATION

☐ REQUIRED ☒ EXEMPT ☐ PSRC SUPPORTING DOCUMENT: 10CFR50.54g

Discipline Supervisor Concurrence \_\_\_\_\_

V. TEMPORARY APPROVAL:

QUALIFIED REVIEWER _____ DATE _____	QA REVIEW _____ DATE _____
TELECON BY _____	TELECON BY _____
SHIFT SUPERVISOR _____ DATE _____	FINAL APPROVAL REQUIRED BY: DATE _____

VI. DISCIPLINE SUPERVISOR FINAL REVIEW:

PSRC REVIEW PRIOR TO IMPLEMENTATION? YES \_\_\_\_\_ NO ☒

TRAINING REQUIRED? YES \_\_\_\_\_ NO ☒

IF YES, PRIOR TO PROCEDURE IMPLEMENTATION? YES \_\_\_\_\_ NO \_\_\_\_\_

P/CAP AFFECTED? YES \_\_\_\_\_ NO ☒

COMMENTS RESOLVED: R.J. Schwartz for V.J. Kelley 12-23-98

Discipline Supervisor \_\_\_\_\_ Date \_\_\_\_\_

VII. P/CAP ACCEPTABLE?

C. YES _____ NO <u>N/A</u>	Date _____
N. YES _____ NO <u>N/A</u>	Date _____

VIII. FINAL QA REVIEW (As Applicable)

N/A Date \_\_\_\_\_

QA Concurrence \_\_\_\_\_ Date \_\_\_\_\_

IX. APPROVAL AUTHORITY:

N/A Date \_\_\_\_\_

Training Completed \_\_\_\_\_ Date \_\_\_\_\_

Procedure Approval/Concurrence S.A. Paul Date 12/29/98

X. PSRC REVIEW:

A. REVIEWED BY:

PSRC Chairman \_\_\_\_\_ Date \_\_\_\_\_

COMMENTS: YES \_\_\_\_\_ NO \_\_\_\_\_

B. PSRC COMMENTS RESOLVED:

Responsible Manager \_\_\_\_\_ Date \_\_\_\_\_

PSRC Chairman \_\_\_\_\_ Date \_\_\_\_\_

**NUCLEAR OPERATIONS**  
**COPY NO. 157**

SAP-139  
 ATTACHMENT IV  
 PAGE 1 OF 3  
 REVISION 18

**PROCEDURE DEVELOPMENT FORM - A**

<b>I. DATE:</b> <u>10/6/98</u> <b>PROC.#</b> <u>EPP-164</u> <b>REV.#</b> <u>5</u> <b>CHG.</b> <u>C</u> <b>COMM.#</b> _____	
<b>TITLE:</b> <u>VERIFICATION OF COMMUNICATIONS OPERABILITY</u>	
<b>NEW PROC</b> _____ <b>CHANGE</b> <u>X</u> <b>PERMANENT</b> <u>X</u> <b>REVISION</b> _____ <b>RESTRICTED</b> _____ <b>FROM</b> _____ <b>TO</b> _____	<b>SAFETY RELATED</b> _____ <b>QUALITY RELATED</b> _____ <b>NON-SAFETY RELATED</b> <u>X</u>

<b>II. DESCRIPTION:</b> <u>ATT. 1-E REFLECT NEW LOCATIONS OF COMMUNICATIONS EQUIPMENT IN THE BACK-UP EOF</u> <b>REASON FOR CHANGE:</b> <u>RELOCATION OF THE BACK-UP EOF</u>	
<u>CM Counts</u> Originator                      Sign/Print	

<b>III. WILL THIS REVISION/CHANGE/NEW PROCEDURE:</b>	<b>*YES</b> <b>NO</b> <b>N/A</b>
1. Result in significant increased personnel radiation exposure? (ALARA review)	_____ <u>X</u> _____
2. Result in a release of effluents to the Environment?	_____ <u>X</u> _____
3. Degrade the effectiveness of the Radiation Emergency Plan?	_____ <u>X</u> _____
4. Degrade the safeguards effectiveness of the Physical Security, Safeguards Contingency of Training and Qualification Plans?	_____ _____ <u>X</u>
* If any question 1 through 4 is answered "YES", refer to appropriate section of procedure for direction.	
<b>REQUIRED REVIEW AND COMMENT:</b> <input checked="" type="checkbox"/> MOPS <input checked="" type="checkbox"/> MHPS <input type="checkbox"/> GMNPO <input type="checkbox"/> QA <input type="checkbox"/> TU <input type="checkbox"/> ISD <input type="checkbox"/> _____ <input type="checkbox"/> MMS <input type="checkbox"/> MDE <input type="checkbox"/> GMES <input type="checkbox"/> QC <input type="checkbox"/> CHS <input type="checkbox"/> RC <input type="checkbox"/> _____ <input type="checkbox"/> MQS <input type="checkbox"/> MNT <input type="checkbox"/> GMNSS <input type="checkbox"/> SAS <input type="checkbox"/> HPS <input checked="" type="checkbox"/> _____ <input type="checkbox"/> MPSE <input type="checkbox"/> MNL&OE <input type="checkbox"/> GMSPD <input type="checkbox"/> MNTS <input type="checkbox"/> PSE <input type="checkbox"/> _____ <input type="checkbox"/> MCHS <input type="checkbox"/> MNPS <input type="checkbox"/> OPS <input checked="" type="checkbox"/> NPS <input type="checkbox"/> DE <input type="checkbox"/> _____	<b>REQUESTED REVIEWS:</b> <u>John Kelly</u> <u>10/6/98</u> Discipline Supervisor                      Date

<b>IV. 10CFR50.59 SCREENING REVIEW/SAFETY EVALUATION</b> <input type="checkbox"/> REQUIRED <input checked="" type="checkbox"/> EXEMPT <input type="checkbox"/> PSRC <b>SUPPORTING DOCUMENT:</b> <u>10CFR50.54(g)</u>	<u>John Kelly</u> Discipline Supervisor Concurrence
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<b>V. TEMPORARY APPROVAL:</b>	
<b>QUALIFIED REVIEWER</b> _____ <b>DATE</b> <u>N/A</u> <b>TELECON BY</b> _____ <b>SHIFT SUPERVISOR</b> _____ <b>DATE</b> _____	<b>QA REVIEW</b> _____ <b>DATE</b> _____ <b>TELECON BY</b> _____ <b>FINAL APPROVAL REQUIRED BY:</b> <b>DATE</b> _____

<b>VI. DISCIPLINE SUPERVISOR FINAL REVIEW:</b> <b>PSRC REVIEW PRIOR TO IMPLEMENTATION?</b> YES _____ NO <u>✓</u> <b>TRAINING REQUIRED?</b> YES _____ NO <u>✓</u> <b>IF YES, PRIOR TO PROCEDURE IMPLEMENTATION?</b> YES _____ NO _____ <b>P/CAP AFFECTED?</b> YES _____ NO <u>✓</u> <b>COMMENTS RESOLVED:</b> <u>John Kelly</u> <u>10/29/98</u> Discipline Supervisor                      Date	<b>VII. P/CAP ACCEPTABLE?</b> <b>C. YES</b> _____ <b>NO</b> <u>NA</u> <u>1</u> <b>Date</b> _____ NL&OE <b>N. YES</b> _____ <b>NO</b> <u>NA</u> <u>1</u> <b>Date</b> _____ RESP. MGR.
<b>VIII. FINAL QA REVIEW (As Applicable)</b> <b>QA Concurrence</b> _____ <b>Date</b> _____	
<b>IX. APPROVAL AUTHORITY:</b> <u>N/A</u> <u>1</u> <b>Date</b> _____ Training Completed <u>John Kelly</u> <u>11/14/98</u> Procedure Approval/Concurrence                      Date	

<b>X. PSRC REVIEW:</b> <b>A. REVIEWED BY:</b> _____ <b>Date</b> _____ PSRC Chairman <b>COMMENTS:</b> YES _____ NO _____	<b>B. PSRC COMMENTS RESOLVED:</b> _____ <b>Date</b> _____ Responsible Manager _____ <b>Date</b> _____ PSRC Chairman
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# NUCLEAR OPERATIONS

COPY NO. 157

SAP-139  
ATTACHMENT IV  
PAGE 1 OF 3  
REVISION 18

## PROCEDURE DEVELOPMENT FORM - A

I. DATE: <u>09/19/97</u> PROC.# <u>EPP-104</u> REV.# <u>5</u> CHG. <u>B</u> COMM.# _____	
TITLE: <u>Verification of Communications Operability</u>	
NEW PROC _____	CHANGE <input checked="" type="checkbox"/> PERMANENT <input checked="" type="checkbox"/>
REVISION _____	RESTRICTED _____ FROM _____ TO _____
SAFETY RELATED _____	
QUALITY RELATED _____	
NON-SAFETY RELATED <input checked="" type="checkbox"/>	

II. DESCRIPTION: <u>Correct pagination error in change A. Reissued entire procedure</u>	
REASON FOR CHANGE: <u>Information lost d. because of pagination in change A. Personnel Error.</u>	
Originator <u>CM Counts</u>	Sign/Print <u>CM Counts</u>

III. WILL THIS REVISION/CHANGE/NEW PROCEDURE:		*YES	NO	N/A
1. Result in significant increased personnel radiation exposure? (ALARA review)			<input checked="" type="checkbox"/>	
2. Result in a release of effluents to the Environment?			<input checked="" type="checkbox"/>	
3. Degrade the effectiveness of the Radiation Emergency Plan?			<input checked="" type="checkbox"/>	
4. Degrade the safeguards effectiveness of the Physical Security, Safeguards Contingency of Training and Qualification Plans?				<input checked="" type="checkbox"/>
* If any question 1 through 4 is answered "YES", refer to appropriate section of procedure for direction.				
REQUIRED REVIEW AND COMMENT:		REQUESTED REVIEWS:		
( ) MOPS ( ) MHPS ( ) GMNPO ( ) QA ( ) TU ( ) ISD ( ) QA		<u>QA</u>		
( ) MMS ( ) MDE ( ) GMES ( ) QC ( ) CHS ( ) RC <u>GMNPS</u>		<u>GMNPS</u>		
( ) MQS ( ) MNT ( ) GMNPS ( ) SFADC ( ) HPS ( ) _____				
( ) MSCE ( ) MNL&OE ( ) GMSPD ( ) MNTS ( ) SCE ( ) _____				
( ) MCHS ( ) MNPS ( ) OPS ( ) NPS ( ) DE ( ) _____				

IV. 10CFR50.59 SCREENING REVIEW/SAFETY EVALUATION	
<input type="checkbox"/> REQUIRED <input checked="" type="checkbox"/> EXEMPT <input type="checkbox"/> PSRC	SUPPORTING DOCUMENT: <u>10CFR50.54</u>

V. TEMPORARY APPROVAL:	
QUALIFIED REVIEWER _____ DATE _____	QA REVIEW _____ DATE _____
TELECON BY _____	TELECON BY _____
SHIFT SUPERVISOR _____ DATE _____	FINAL APPROVAL REQUIRED BY: DATE _____

VI. DISCIPLINE SUPERVISOR FINAL REVIEW:		VII. P/CAP ACCEPTABLE?	
PSRC REVIEW PRIOR TO IMPLEMENTATION? YES _____ NO <input checked="" type="checkbox"/>		C. YES _____ NO <u>NA</u>	NL&OE _____ Date _____
TRAINING REQUIRED? YES _____ NO <input checked="" type="checkbox"/>		N. YES _____ NO _____	RESP. MGR. _____ Date _____
IF YES, PRIOR TO PROCEDURE IMPLEMENTATION? YES _____ NO _____		VIII. FINAL QA REVIEW (As Applicable)	
P/CAP AFFECTED? YES _____ NO <input checked="" type="checkbox"/>		<u>NA</u>	
COMMENTS RESOLVED: <u>9/22/97</u>		QA Concurrence _____ Date _____	
Discipline Supervisor _____ Date _____		IX. APPROVAL AUTHORITY:	
		Training Completed _____ Date _____	
		Procedure Approval/Concurrence <u>9/22/97</u>	

X. PSRC REVIEW:		B. PSRC COMMENTS RESOLVED:	
A. REVIEWED BY:			
PSRC Chairman _____ Date _____		Responsible Manager _____ Date _____	
COMMENTS: YES _____ NO _____		PSRC Chairman _____ Date _____	

## NUCLEAR OPERATIONS

COPY NO. 157SAP-139  
ATTACHMENT IV  
PAGE 1 OF 3  
REVISION 17

## PROCEDURE DEVELOPMENT FORM - A

I. DATE: <u>8-5-97</u> PROC. # <u>EPP-104</u> REV. # <u>5</u> CHG. <u>A</u> COMM. # _____	
TITLE: <u>VERIFICATION OF COMMUNICATIONS OPERABILITY</u>	
NEW PROC <input type="checkbox"/> CHANGE <input checked="" type="checkbox"/> PERMANENT <input checked="" type="checkbox"/>	SAFETY RELATED <input type="checkbox"/>
REVISION <input type="checkbox"/> RESTRICTED <input type="checkbox"/> FROM _____ TO _____	QUALITY RELATED <input type="checkbox"/>
	NON-SAFETY RELATED <input checked="" type="checkbox"/>
<i>mc 8/23/97</i>	
II. DESCRIPTION: <u>Page i, added Attachment V, Added step 4.16, Added Section 5.10, Added Attachment V, I pg 2 of 2</u> <i>cm 9/18/97</i>	
REASON FOR CHANGE: <u>Provide mechanism to test and document Farings capability of EIS to the State and local governments. QA97001-4</u> <div style="text-align: right;"><i>CM Counts</i> <i>CM Counts</i> Originator Sign/Print</div>	
III. WILL THIS REVISION/CHANGE/NEW PROCEDURE:	
1. Result in significant increased personnel radiation exposure? (ALARA review)	* YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A <input type="checkbox"/>
2. Result in a release of effluents to the Environment?	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
3. Degrade the effectiveness of the Radiation Emergency Plan?	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
4. Degrade the safeguards effectiveness of the Physical Security, Safeguards Contingency or Training and Qualification Plans?	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
* If any question 1 through 4 is answered "YES", refer to appropriate section of procedure for direction.	
REQUIRED REVIEW AND COMMENT:	REQUESTED REVIEWS:
<input checked="" type="checkbox"/> OR (LRS) <input type="checkbox"/> NL&OE <input type="checkbox"/> CHS <input type="checkbox"/> GMNPO <input type="checkbox"/> _____ <input checked="" type="checkbox"/> OPS <input type="checkbox"/> MNTS <input checked="" type="checkbox"/> HPS <input type="checkbox"/> GMES <input type="checkbox"/> _____ <input checked="" type="checkbox"/> QA <input type="checkbox"/> NPS <input type="checkbox"/> SCE <input type="checkbox"/> GMNSS <input type="checkbox"/> _____ <input type="checkbox"/> QC <input type="checkbox"/> TU <input type="checkbox"/> DE <input type="checkbox"/> _____	<input checked="" type="checkbox"/> GMNSS <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____
<i>John Kelly 18-12-97</i> Discipline Supervisor Date	
IV. 10CFR50.59 SCREENING REVIEW/SAFETY EVALUATION	
<input type="checkbox"/> REQUIRED <input checked="" type="checkbox"/> EXEMPT <input checked="" type="checkbox"/> PSRC <i>9/18/97</i> SUPPORTING DOCUMENT: <u>10CFR50.54(g)</u>	
<i>John Kelly</i> Discipline Supervisor concurrence	
V. TEMPORARY APPROVAL:	
QUALIFIED REVIEWER _____ DATE <u>NA</u>	QA REVIEW _____ DATE _____
TELECON BY _____	TELECON BY _____
SHIFT SUPERVISOR _____ DATE _____	FINAL APPROVAL REQUIRED BY: DATE _____
VI. DISCIPLINE SUPERVISOR FINAL REVIEW:	VII. P/CAP ACCEPTABLE?
PSRC REVIEW PRIOR TO IMPLEMENTATION? YES _____ NO <input checked="" type="checkbox"/>	C. YES _____ NO <input checked="" type="checkbox"/> NL&OE _____ Date _____
TRAINING REQUIRED? YES _____ NO <input checked="" type="checkbox"/>	N. YES _____ NO <input checked="" type="checkbox"/> RESP. MGR. _____ Date _____
IF YES, PRIOR TO PROCEDURE IMPLEMENTATION? YES _____ NO _____	VIII. FINAL QA REVIEW (As Applicable)
P/CAP AFFECTED? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	<u>NA</u> QA Concurrence _____ Date _____
COMMENTS RESOLVED: <i>John Kelly 8/28/97</i> Discipline Supervisor Date	IX. APPROVAL AUTHORITY:
TRAINING COMPLETED: <u>NA</u> Discipline Supervisor Date	<i>Stella A. Paul 19/9/97</i> Approval/Concurrence Date
X. PSRC REVIEW:	
A. REVIEWED BY: <u>NA</u>	B. PSRC COMMENTS RESOLVED:
PSRC Chairman _____ Date _____	Responsible Manager _____ Date _____
COMMENTS: YES _____ NO _____	PSRC Chairman _____ Date _____

**EPP-104, Verification of Communications Operability**  
**Revision 5, Change E**  
**Addendum to 10CFR50.54q Evaluation**  
**Page 1 of 1**

**Description:**

Change step 5.2.7.C and Att. I-D to read "Plant Radiation Alarm".

**Reason for Change:**

Clarify which alarm will be heard during test.

**10CFR50.54q Evaluation**

This change does not affect sections in 10CFR50.47 or 10CFR50 Appendix E. This change is administrative in nature. This change is to clarify that only the Plant Radiation Alarm will be sent over the speaker at the Circulating Water Intake. Therefore, this change does not decrease the effectiveness of the Radiation Emergency Plan. This change does not require further revision of the Radiation Emergency Plan or Emergency Plan Procedures.

**Description:**

Change 3.2.2.L.4.a and 5.3.3.J.10.a to 2S MWR.

**Reason for Change:**

To give siren repairs a higher priority MWR.

**10CFR50.54q Evaluation**

This change does not affect sections in 10CFR50.47 or 10CFR50 Appendix E. This change is administrative in nature. The priority of the repair of sirens is not mentioned in the Radiation Emergency Plan. . Therefore, this change does not decrease the effectiveness of the Radiation Emergency Plan. This change does not require further revision of the Radiation Emergency Plan or Emergency Plan Procedures.

**Description:**

Delete from Att. I-B Item # 2.F.2 "LLEA Radio".

**Reason for Change:**

Radio channels to Newberry and Fairfield Counties replaced this radio.

**10CFR50.54q Evaluation**

Due to the age of this radio it was replaced with radio channels on the 800 mhz radio system.

**10CFR50.54q Evaluation**

This change affects 10CFR50.47(b)(5) and 10CFR50.Appendix E (IV)D. This radio is a backup system to the telephones for the notification of state and local governments. The radio was replaced because of its age and the difficulty in obtaining repair parts. The new channels are part of the current radio system utilized by the site. The radio is not identified in the Radiation Emergency Plan. Therefore, this change does not decrease the effectiveness of the Radiation Emergency Plan. This change does not require further revision of the Radiation Emergency Plan or Emergency Plan Procedures.

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 <u>PURPOSE</u>	1
2.0 <u>REFERENCES</u>	1
3.0 <u>DEFINITIONS</u>	2
4.0 <u>CONDITIONS AND PREREQUISITES</u>	2
5.0 <u>PROCEDURE</u>	3
6.0 <u>RECORDS</u>	16
7.0 <u>REVISION SUMMARY</u>	16

ATTACHMENTS

- Attachment I-A - Verification of Communications Operability (Monthly Test)
- Attachment I-B - Verification of Communications Operability (Quarterly Test)
- Attachment I-C - Verification of Communications Operability (Annual Test)
- Attachment I-D - Verification of Plant Emergency Alarm Warning Lights and Speakers (Quarterly Test)
- Attachment I-E - Verification of Communications Operability - Backup EOF (Quarterly Test)
- Attachment II - Verification of School Monitor Radios (Annual Test)
- Attachment III - Equipment Trouble Report
- Attachment IV - Transient Sign Verification (Annual Test)

## 1.0 PURPOSE

- 1.1 The purpose of this procedure is to provide guidance for verifying that communications designated for use during an emergency are operational.
- 1.2 This procedure provides a method to document the tests of the emergency communications equipment.

## 2.0 REFERENCES

- 2.1 FEMA-43, Standard Guide for the Evaluation of Alert and Notification Systems for Nuclear Power Plants.
- 2.2 NUREG-0654/FEMA REP-1, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.
- CO<sub>6</sub>→ 2.3 10CFR50, Appendix E, IV,E,9 a-d.
- 2.4 10CFR50.72.
- 2.5 EP-100, Virgil C. Summer Nuclear Station Radiation Emergency Plan.
- 2.6 Emergency Planning Telephone Directory.
- 2.7 EMP-170.003, Warning Siren Maintenance.
- 2.8 NL-122, Regulatory Notification and Reporting.
- 2.9 EPP-002, Communications and Notification.
- 2.10 EPP-021, Activation of the Early Warning Siren System (EWSS).
- 2.11 EPP-026, Operation of the Siren Control System.
- 2.12 SAP-143, Preventative Maintenance Program.

Chg D

### 3.0 DEFINITIONS

#### 3.1 Definitions

- 3.1.1 EWSS Annual Operability - The percentage of operability of the Early Warning Siren System (EWSS) for a 12 month period.
- 3.1.2 Percentage of Operability of the EWSS - The total number of sirens tested divided into the number of satisfactory tests, for all tests.

### 4.0 CONDITIONS AND PREREQUISITES

- 4.1 The required frequency for verification of communications (telephone and/or radio, as applicable) operability is as follows:
  - 4.1.1 Monthly tests will be conducted with State and county governments within the 10 mile Plume Emergency Planning Zone (EPZ).
  - 4.1.2 Quarterly tests will be conducted with federal and State agencies within the 50 mile Ingestion EPZ.
  - 4.1.3 Annual tests will be conducted among VCSNS, state and county Emergency Operation Centers and Radiation Monitoring Teams.
- 4.2 The EWSS shall be tested at the following frequency:
  - 4.2.1 A silent test of the EWSS shall be performed at least every 14 days.
  - 4.2.2 A growl test of each siren shall be performed at least monthly, and when preventive maintenance has been performed.
  - 4.2.3 A complete cycle test (full system activation) shall be performed at least annually.
- 4.3 Plant Emergency Alarms shall be tested weekly, normally on the first scheduled workday, satisfactory results will be signified by the approval signatures on the PMTS sheet. There is no requirement for a data sheet.
- CO<sub>3</sub>→4.4 The Plant Emergency Alarm Warning Lights shall be tested quarterly.
- 4.5 School Monitor Radios shall be tested annually.
- NO<sub>1</sub>→ 4.6 When a test is conducted on the DHEC radio, ensure the radios are separated by a distance of at least 15 air miles.
- 4.7 Designated telephone numbers in the Emergency Planning Telephone Directory shall be verified quarterly by the Emergency Services Unit (ESU).

- 4.8 All tests shall be documented in accordance with SAP-143, Preventative Maintenance Program.
- CO<sub>6</sub>→4.9 Communications with the NRC shall be tested monthly in the Control Room, TSC and EOF, as applicable. | Chg  
G
- 4.10 The ESU shall ensure all tests specified in this procedure are performed and documented.
- 4.11 The 75% operability of the EWSS is based on the acceptance criteria for the Public Response Survey conducted during the final acceptance test of the EWSS by the Federal Emergency Management Agency.
- 4.12 The Public Address Speakers at siren locations #9 and #45 are not considered part of the EWSS.
- 4.13 Annual preventative maintenance activities on sirens will be performed in accordance with SAP-143 and EMP-170.003.
- 4.14 EPP-026 Attachment VI provides a list of sirens, siren locations and the company supplying power to the siren.
- 4.15 RTU STATUS indicating a RESTART indicates the RTU had a power fluctuation and has lost the data gathered during a test. This condition does not indicate a failure of the siren to properly sound. A retest shall be done of the siren and the results recorded on the original test documentation.
- 4.16 Communications to the State and local governments via fax using the VCS Emergency Information System (EIS) shall be performed monthly. Test results will be documented using Attachment I-A. | Chg.  
A

## 5.0 PROCEDURE

### 5.1 In-Plant Communications

- 5.1.1 The ESU, or designee, shall perform communications tests and record results on Attachments I-A, I-B, I-C, or I-E.
- 5.1.2 The person performing the test shall verify that the method of communication is operable, as follows:
- A. A ringdown telephone shall contact the party it is intended to reach.
  - B. The all-call function shall simultaneously contact all parties it is intended to reach.
  - C. A normal telephone circuit shall be able to reach the number dialed.

Chg.  
B

- D. A radio shall be tested to ensure it is operable.
- E. The Plant Page shall be tested to ensure each set can page and communicate with another set.
- F. The NRC telephones shall be tested to ensure that they contact another telephone with a callback.
- G. A fax machine shall be tested to ensure it can send and receive messages.

Chg  
G

NOTE 5.1.3

Failure of an ENS telephone is a one hour reportable event in accordance with 10CFR50.72.

- 5.1.3 If there is a failure to be able to notify the NRC via the Primary dialing path (70-0-NRC Number) and the Alternate dialing path (9-NRC Number) the Control Room/SS will be notified. The SS (or his designee) shall:
  - A. Notify the NRC Operations Center via cell phone or satellite phone.
  - B. Notify Telecommunications and Emergency Planning Personnel of the failure.
  - C. When the telephone service is restored, notify the NRC Operations Center.
- 5.1.4 The person performing the test shall record the results in the Test Results space on the appropriate attachments. If the test results are unsatisfactory, contact the applicable maintenance group for repair and notify the SS.
- 5.1.5 When the equipment has been repaired, the ESU, or designee, shall test the equipment and document the test.

Chg  
G

CO<sub>3</sub>→5.2 Plant Emergency Alarm Warning Lights and Speakers

- 5.2.1 Announce over Plant Paging System, the weekly Emergency Alarm Test.

- 5.2.2 A weekly test of the Plant Fire Alarm shall be conducted by Operations personnel as follows:
- A. Simultaneously depress both FIRE ALARM buttons on the FIRE AND SECURITY panel (XCP-6040).
  - B. Verify the CONTROL ROOM SPEAKERS MUTED light is illuminated.
  - C. Verify with personnel located in the buildings that the alarm can be heard.
- 5.2.3 A weekly test of the Plant Radiation Alarm shall be conducted by Operations personnel, as follows:
- A. Simultaneously depress both PLANT RADIATION buttons on the FIRE AND SECURITY panel (XCP-6040).
  - B. Verify the CONTROL ROOM SPEAKERS MUTED light is illuminated.
  - C. Verify with personnel located in the buildings that the alarm can be heard.
- 5.2.4 A weekly test of the Reactor Building Evacuation Alarm shall be conducted by Operations personnel, as follows:
- A. Simultaneously depress both REACTOR BLDG. EVACUATION ALARM buttons on the FIRE AND SECURITY panel (XCP-6040).
  - B. Verify that the red flashing warning lights on the 463' Turbine Building or other locations are functional.
  - C. If the Reactor Building is occupied during the test, ensure the alarm is heard.
- 5.2.5 If a Plant Alarm Test is unsatisfactory, promptly notify the ESU and contact Electrical Maintenance to begin repairs.
- 5.2.6 Document the results of the Plant Emergency Alarms on the PMTS sheet. There is no requirement for a data sheet.
- 5.2.7 Quarterly Test of Plant Emergency Alarm Warning Lights and Speakers
- A. Dispatch available Electrical Maintenance personnel to the Circulating Water Intake Structure.

- B. The quarterly test of the Plant Emergency Alarm Warning Lights shall be conducted in conjunction with a weekly Plant Alarms Test by the Operations Department and documented on Attachment I-D.
- C. Station personnel shall verify Plant Radiation Alarm can be heard over the speaker at the Circulating Water Intake Structure and documented on Attachment I-D.

Chg.  
E

CO<sub>5</sub>→ D. Contact Security at the Central Alarm Station

- 1. Instruct them to contact a minimum of 3 security personnel and verify the alarms can be heard throughout the plant.
  - 2. Document the results on Attachment I-D of this procedure. If the alarms cannot be heard in an area(s) of the plant, initiate an MWR for repairs.
- E. If the test is unsatisfactory, promptly notify the ESU and contact Electrical Maintenance to repair.
  - F. Retest of the equipment will be documented on the MWR.

NOTE 5.3

Prior to testing the Early Warning Siren System, ensure the Siren Control System Computer is designated as PRIMARY Mode and the printer is ready to operate. EPP-026, Operation of the Siren Control System provides instructions on changing the Mode.

NOTE 5.3

Prior to testing the Early Warning Siren System, ensure Maintenance Personnel do not have a siren disabled for Preventive Maintenance purposes.

Chg  
F

5.3 Early Warning Siren System

5.3.1 Silent Test

- A. The silent test of the EWSS is the responsibility of the Operations Department.
- B. Obtain the EWSS key from the Control Room Supervisor's Key Box.

- C. Insert the key into the Siren Control Console's SYSTEM Switch in the Control Room and turn the key to the ON position.
- D. Verify the SYSTEM READY Indicator Light is illuminated. The Siren Control Console is now operational.
- E. Place the CALL SELECTOR Switch to ALL CALL.
- F. Press and hold the SILENT TEST button until the light illuminates. It will take a minimum of 3 seconds.
- G. Turn the key to the OFF position and return the key to the Control Room Supervisor's Key Box.
- H. Once the system has completed the Silent Test cycle after approximately 20 minutes, the results of the silent test will be printed at the Siren Control System Computer designated as PRIMARY Mode.
- I. If the percentage of operability for the EWSS is less than 75%, declare the system inoperable and accomplish the following:
  - 1. Refer to NL-122 for reportability requirements.
  - 2. Notify the ESU, who will contact the appropriate group to make repairs.
- J. Notify the ESU of any sirens reporting a failure.
- K. Attach the results to the PMTS and forward to the ESU.
- L. The ESU shall:
  - 1. Review the printout of the test.
  - 2. Record siren(s) failures on Attachment III.
  - 3. Notify the appropriate group to make repairs to any inoperable siren(s) utilizing Attachment III.

Chg  
D

4. If there is an electrical repair, the ESU will generate a plant MWR and forward it to Electrical Maintenance. The following guidance will be used to establish the priority:

- a. 2S -The percentage of siren operability is greater than or equal to 75%. | Chg. E

- b. 1 -The percentage of operability is less than 75%.

5. Update the percentage of operability of the EWSS on the ESU computer network.

M. When a failed siren is repaired, perform a silent test on that siren. If the retest is satisfactory, return the siren to service. Document the retest on Attachment III.

N. Attach Attachment III to the PMTS package, when all retests are complete.

Chg. B

#### 5.3.2 Growl Test

- A. Prior to conducting a Growl Test, ensure the following are notified:

1. SCANA, Public Affairs
2. Control Room Personnel
3. NRC Resident Inspector
4. State Emergency Preparedness Division
5. County Emergency Preparedness Offices
6. Station Switchboard Operator

B. Growl testing of the siren system is the responsibility of the ESU.

C. The tester shall verify operability of each siren by sending a growl test signal using the Siren Control System computer designated as PRIMARY Mode.

D. The results of the growl test will be printed at the Siren Computer System terminal designated as PRIMARY Mode.

CO<sub>1</sub>→ E. Once the test has been completed, the ESU shall:

1. Ascertain the numbers and locations of sirens that failed to operate.
2. Poll the siren(s) that failed to verify the operability status of the siren(s).
3. Record the cause of the failure on the printout.
4. Do a FIELD RTU RESET, as follows:
  - a. Press the F2 key to display the Directory Screen.
  - b. Move the cursor to the FIELD RTU RESET block.
  - c. Press the "1" key.
  - d. Press the ENTER key.
5. If the RTU STATUS indicated a RESTART do a retest of the individual siren. Indicate the results of the retest on the printout.
6. If necessary, correct the siren numbers and percent operability on the printout.
7. Record siren failure(s) on Attachment III.
8. Notify the appropriate group to make repairs to any inoperable siren(s) utilizing Attachment III.
9. If there is an electrical repair, the ESU will generate a plant MWR and forward it to Electrical Maintenance. The following guidance will be used to establish the priority:
  - a. 2S - The percentage of siren operability is greater than or equal to 75%.
  - b. 1 - The percentage of operability is less than 75%.
10. Update the percentage of operability of the EWSS on the ESU computer network.

- F. If the system-wide growl test success percentage for the EWSS is less than 75%, declare the system inoperable and accomplish the following:
  - 1. Notify the SS. The SS should refer to NL-122 for reportability requirements. Chg D
  - 2. Notify the appropriate group to make repairs.
- G. When a failed siren is repaired, perform a growl test on that siren. If the retest is satisfactory, return the siren to service. Document the retest on Attachment III.
- H. Attach Attachment III to the PMTS package, when all retest are complete.

#### 5.3.3. Complete Cycle Test

- A. Prior to conducting a Complete Cycle Test, ensure the following are notified:
  - 1. SCANA, Public Affairs
  - 2. Control Room Personnel
  - 3. NRC Resident Inspector
  - 4. State Emergency Preparedness Division
  - 5. County Emergency Preparedness Offices
  - 6. Station Switchboard Operator
- B. The complete cycle test is the responsibility of the ESU.
- C. Obtain the EWSS key from the Control Room Supervisor's Key Box.
- D. Insert the key into the Siren Control Console's SYSTEM Switch in the Control Room and turn the key to the ON position.
- E. Verify the SYSTEM READY Indicator Light is illuminated. The Siren Control Console is now operational.
- F. Place the CALL SELECTOR Switch to ALL CALL.
- G. Press and hold the ACTIVATE button until the light illuminates. It will take a minimum of 3 seconds.

- H. Turn the key to the OFF position and return the key to the Control Room Supervisor's Key Box.
- I. Once the system has completed the Activation Cycle, an Activation Report will be printed at the Siren Control System Computer designated as PRIMARY.
- J. Once the test has been completed, the ESU shall:
  - 1. Ascertain the numbers and locations of sirens that failed to operate.
  - 2. Poll the siren(s) that failed to verify the operability status of the siren(s).
  - 3. Record the cause of the failure on the printout.
  - 4. Do a FIELD RTU RESET, as follows:
    - a. Press the F2 key to display the Directory Screen.
    - b. Move the cursor to the FIELD RTU RESET block.
    - c. Press the "1" key.
    - d. Press the ENTER key.
  - 5. If the RTU STATUS indicated a RESTART, do a retest of the individual siren. Indicate the results of the retest on the printout.
  - 6. If a siren indicates a failure, personnel may be dispatched to the siren location to interview residents in the immediate area to determine if the siren sounded. The name of the residents shall be recorded with the results of the interview to determine if the siren activated properly.
  - 7. If necessary, correct the siren numbers and percent operability on the printout.
  - 8. Record siren failure(s) on Attachment III.
  - 9. Notify the appropriate group to make repairs to any inoperable siren(s) utilizing Attachment III.

10. If there is an electrical repair, the ESU will generate a plant MWR and forward it to Electrical Maintenance. The following guidance will be used to establish the priority:

a. 2S - The percentage of siren operability is greater than or equal to 75%. | Chg.  
E

b. 1 - The percentage of operability is less than 75%.

11. Update the percentage of operability of the EWSS on the ESU computer network.

K. If the percentage of operability for the EWSS is less than 75%, declare the system inoperable and accomplish the following:

1. Notify the SS. The SS should refer to NL-122 for reportability requirements. | Chg.  
D

2. Notify Electrical Maintenance to make repairs.

L. Update the percentage of operability to the EWSS on the ESU computer network.

M. When a failed siren is repaired, perform a complete cycle test on that siren. If the retest is satisfactory, return the siren to service. Document the retest on Attachment III.

N. Attach Attachment III to the PMTS package, when all retest are complete.

#### 5.4 School Monitor Radios

5.4.1 The ESU is responsible for the verification of operability of the School Monitor Radios.

##### NOTE 5.4.2

Prior to testing, the ESU shall ensure coordination between the station and the schools.

5.4.2 The School Monitor Radios shall be tested annually by the ESU, as follows:

A. Obtain the EWSS key from the Control Room Supervisor's Key Box.

- B. Insert the key into the Siren Control Console's SYSTEM Switch in the Control Room and turn the key to the ON position.
- C. Verify the SYSTEM READY Indicator Light illuminates. It will take a minimum of 3 seconds.
- D. Key the SCHOOL MONITOR MICROPHONE and hold down.
- E. Read the message below into the microphone

This is a Drill! This is a Drill! This is the V. C. Summer Nuclear Station testing the School Monitor Radios. (Repeat)
--

- F. Release the microphone key to deactivate the system.
- G. Turn the key to the OFF position and return the key to the Control Room Supervisor's Key Box.
- H. Document the test on Attachment II by contacting the holders of School Monitor Radios and verifying operability.
- I. If a radio fails to receive the test, contact the appropriate maintenance group to make repairs.
- J. When a failed School Monitor Radio is repaired, perform a test of that radio and return it to service when the test is satisfactorily performed.

## 5.5 Public Address Speakers

- 5.5.1 The ESU is responsible for the verification of operability of the Public Address Speakers.
- 5.5.2 The Public Address Speakers shall be tested quarterly, as follows:
  - A. Ensure personnel are in position to hear the speaker.
  - B. Obtain the EWSS key from the Control Room Supervisor's Key Box.
  - C. Insert the key into the Siren Control Console's SYSTEM Switch in the Control Room and turn the key to the ON position.
  - D. Verify the SYSTEM READY Indicator Light illuminates. It will take a minimum of 3 seconds.
  - E. Key the PUBLIC ADDRESS MICROPHONE and hold down.

- F. Read the message below into the microphone

This is a Drill! This is a Drill! This is the V. C. Summer Nuclear Station testing the Public Address Speakers. (Repeat)
--

- G. Release the microphone key to deactivate the system.
- H. Turn the key to the OFF position and return the key to the Control Room Supervisor's Key Box.
- I. Document the test on Attachment I-B by contacting personnel at the Speakers to learn if they heard the announcement.
- J. If a Speaker is inoperable, notify the appropriate maintenance group to make repairs. If there is an electrical problem, the ESU will generate a plant MWR and forward it to Electrical Maintenance. The priority of the MWR shall be 2S or greater.
- K. When a failed speaker is repaired, perform a test on that speaker and return it to service when the test has been satisfactorily performed.

5.6 Emergency Response Data System (ERDS)

- 5.6.1 A quarterly test of the ERDS shall be performed by the ESU normally on Thursday of the sixth complete week of the quarter.
- 5.6.2 The test shall be coordinated with the NRC Operations Center.
- 5.6.3 The test will demonstrate the ability to:
- A. Establish a link with the ERDS in accordance with EPP-002.
  - B. Transmit all parameters in the plant's ERDS database for two hours.
  - C. Reconnect the ERDS upon a loss of telephone connection.
  - D. Terminate the ERDS link in accordance with EPP-002.
- 5.6.4 Test results shall be documented on the PMTS sheet. If the test results are unsatisfactory, contact the applicable maintenance group for repairs and notify the SS.

5.7 Public Information Brochure

- 5.7.1 An information brochure to the public within the plume exposure pathway shall be published annually.
- 5.7.2 The brochure development will begin in the third quarter of each year and will normally be accomplished by the SCANA Public Affairs Department.
- 5.7.3 This brochure shall be reviewed and approved by the ESU prior to distribution.

NO<sub>2</sub>→5.8 Information for Transient Population

- 5.8.1 Signs located throughout the plume exposure pathway provide the transient population instructions on obtaining local emergency information should an emergency or accident occur.
- 5.8.2 These signs shall be inspected annually for legibility and information, using Attachment IV, which also includes an assessment of the need for signs at additional locations.

5.9 Badge Accountability Printer

- 5.9.1 Request personnel in the Access Portal to send a printout to the TSC Badge Accountability Printer.
- 5.9.2 Verify the printout is legible.

5.10 Emergency Information System (EIS) Communication verification.

- 5.10.1 In conjunction with the monthly test of the ESSX lines or separately, notify the State and local government warning point dispatchers that a test fax will be transmitted to them and they will be called to verify receipt. Document on Attachment I-A page 2 of 2.
- 5.10.2 Generate an Emergency Notification Form using EIS and transmit it using the Initial Notification fax group.
- 5.10.3 Wait four minutes and call the dispatchers either individually or using the group call option in ESSX and verify receipt and legibility. Document on Attachment V.
- 5.10.4 Upon successful completion of this test, stop and restart EIS to clear all data.
- 5.10.5 If any location failed to receive a legible fax, notify the appropriate group for repairs.

- 5.10.6 If EIS faxing capability cannot be repaired by the end of the current shift, notify the duty Shift Supervisor that manual faxing of Emergency Notification Forms must be performed until repairs are effected.
- 5.10.7 When repairs are complete and a successful retest has been performed, notify the duty Shift Supervisor that EIS is repaired and can be used for faxing.

## 6.0 RECORDS

- 6.1 All of the attachments to this procedure will be retained in accordance with the Document Management System (DMS).

## 7.0 REVISION SUMMARY

- 7.1 Added Section 4.15 to define an RTU RESTART and to provide instructions for what to do when one is received. This is being incorporated per letter from Motorola dated April 15, 1997.
- 7.2 Added Step 3, 5 & 6 to Section 5.3.2.E to provide better guidance for the performance of Growl test.
- 7.3 Added Steps 3, 5, 6 & 7 to Section 5.3.3.J to provide better guidance for the performance of the Complete Cycle Test.
- 7.4 Changed the Title Page from "STATION ADMINISTRATIVE" to "EMERGENCY PLAN". This was a typographical mistake from the previous revision.

VERIFICATION OF COMMUNICATIONS OPERABILITY  
(MONTHLY TEST)

ITEM #	EQUIPMENT DESCRIPTION	TEST RESULTS		MINIMUM QUANTITY	COMMENTS
		SAT	UNSAT		
1	A. ESSX Comm.Equip. and Programs in TSC				
	1 - State Emerg. Ops. Center			1	
	2 - Fairfield Co.			1	
	3 - Newberry Co.			1	
	4 - Richland Co.			1	
	5 - Lexington Co.			1	
	6 - State Warning Point			1	
	7 - "All Call"			1	
	B. CR ESSX Telephone			1	
	C. EOF ESSX Telephone			1	
2	NRC Telephones				
	1 - Control Room				
	ENS			1	
	2 - TSC Command Center				
	RSCPL			1	
	ENS			2	
	3 - TSC NRC area				
	PMCPL			1	
	HPN			1	
	5 - EOF Command Center				
	RSCPL			1	
	PMCPL			1	
	ENS			1	
	MCL			1	
	HPN			1	
	6 - EOF NRC Area				
	ENS			1	
	MCL			1	
3	TSC Badge Accountability Printer			1	

Chg  
G

Chg  
A

\*If the test results are unsatisfactory, contact the appropriate maintenance group for repair and notify the Shift Supervisor.

VERIFICATION OF COMMUNICATIONS OPERABILITY  
(MONTHLY TEST)

VERIFICATION OF EIS COMMUNICATIONS

I. Notify the State and local government dispatchers of the test fax:

	NAME	TIME
State Warning Point	_____	_____
Newberry County	_____	_____
Fairfield County	_____	_____
Lexington County	_____	_____
Richland County	_____	_____

II. Generate the ENF and transmit to the Initial Notification fax group:

Time of transmission: \_\_\_\_\_

III. Call the Warning Points and verify receipt of legible faxes:  
(Denote specific problems and corrective actions in the remarks section.)

	LEGIBLE? (YES/NO)	TIME RECEIVED
State Warning Point	_____	_____
Newberry County	_____	_____
Fairfield County	_____	_____
Lexington County	_____	_____
Richland County	_____	_____

Chg.  
A

IV. Remarks:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Satisfactory Test: \_\_\_\_\_

Date: \_\_\_\_\_  
SIGNATURE

VERIFICATION OF COMMUNICATIONS OPERABILITY  
 (QUARTERLY TEST)

ITEM #	EQUIPMENT DESCRIPTION	TEST RESULTS		MINIMUM QUANTITY	COMMENTS
		SAT	UNSAT*		
1	Plant Status Communicator Network				
	A. Control Room			1	
	B. TSC			1	
	C. EOF			1	
2	Technical Support Center				
	A. Engineering Area				
	1 - Telephone Lines			3	
	2 - Plant Page			1	
	B. NRC Area				
	1 - Telephone Lines			3	
	2 - Plant Page			1	
	C. Westinghouse Area				
	1- Telephone Line			1	
	D. Architect/Engineer Area				
	1 - Telephone Line			1	
	E. Command Center				
	1 - Plant Page			1	
	F. Communications Area				
	1 - Telephone Lines			2	
	2- 800 mHz Radio			1	
	3 - Telecopiers			2	
	G. Media Area				
	Telephone			1	
	H. Chemistry/Administration Supervisor Area				
	1 -Telephone Lines			2	
	2 -Plant Page			1	

Chg.  
F

\*If the test results are unsatisfactory, contact the appropriate maintenance group for repair and notify the Shift Supervisor.

VERIFICATION OF COMMUNICATIONS OPERABILITY  
(QUARTERLY TEST)

ITEM #	EQUIPMENT DESCRIPTION	TEST RESULTS		MINIMUM QUANTITY	COMMENTS
		SAT	UNSAT*		
3	Operations Support Center				
	1 -Telephones			3	
	2 -Plant Page			1	
4	CREP Room				
	1 - State and Counties Notification Telephone			1	
	2 - One Telephone Line			1	
5	EOF				
	A Fax			2	
	B. EOF Environmental Base Radio			1	
	C. EOF State (DHEC) Radio Tranceiver			1	
	D. EOF State (EPD) Radio Transceiver			1	
	E Westinghouse Telephone Line			1	
	F. Architect/Engineer Telephone Line			1	
6	Monitoring Team				
	1 - HP Lab Radios			5	
	2 - Environmental Lab Radios			2	
7	Public Address Speakers				
	1 - Speaker #9			1	
	2 - Speaker #45			1	
	3 - School Monitor Radio Transmitter			1	
8	Review Emergency Planning Telephone Directory and Call Tree			N/A	

\*If the test results are unsatisfactory, contact the appropriate maintenance group for repair and notify the Shift Supervisor.

EPP-104  
ATTACHMENT I-C  
PAGE 1 OF 1  
REVISION 5  
PMTS NO. \_\_\_\_\_

VERIFICATION OF COMMUNICATIONS OPERABILITY  
(ANNUAL TEST)

ITEM #	EQUIPMENT DESCRIPTION	TEST RESULTS		MINIMUM QUANTITY	COMMENTS
		SAT	UNSAT*		
1	Fairfield County Emergency Operations Center (EOC)			N/A	
2	Newberry County EOC			N/A	
3	Richland County EOC			N/A	
4	Lexington County EOC			N/A	

\*If the test results are unsatisfactory, contact the appropriate maintenance group for repair and notify the Shift Supervisor.

**VERIFICATION OF  
 PLANT EMERGENCY ALARM WARNING LIGHTS AND SPEAKERS  
 (QUARTERLY TEST)**

ITEM #	EQUIPMENT DESCRIPTION	TEST RESULTS		MINIMUM QUANTITY	COMMENTS
		SAT	UNSAT*		
1	Plant Emergency Alarm Warning Lights				
	A. Diesel Generator Room A			2	
	B. Diesel Generator Room B			2	
	C. Turbine Building 412'			4	
	D. Turbine Building 436'			4	
	E. Turbine Building 463'			1	
	F. Auxiliary Building 485'			1	
	G. Auxiliary Building 388'				
	(1 in each Charging Pump Rm.)			3	
2	Speakers at Circulating Water Intake Structure-(Plant Radiation Alarm only)			1	
3	Contact Security personnel located throughout the plant to verify the plant alarms can be heard in the plant.			3	

Chg  
E

\*If the test results are unsatisfactory, contact the appropriate maintenance group for repair and notify the Shift Supervisor.

VERIFICATION OF COMMUNICATIONS OPERABILITY - BACKUP EOF  
 (QUARTERLY TEST)

ITEM #	EQUIPMENT DESCRIPTION	TEST RESULTS		MINIMUM QUANTITY	COMMENTS
		SAT	UNSAT*		
1	Rooms 1109 and 1110				
	A. Telephone extensions and instruments			9	
	B. ED to OEC Ringdown (931-5552)			1	
	C. ED Briefing (931-5992)			1	
	D. Plant Status Communicator (931-5128)			1	
2	Communicator Room				
	A. Telephone extensions and instruments			2	
	B. Fax extension (ESSX 251-6256) and Machine			1	
	C. ESSX Line (256-6255)				
3	Room 1112				
	A. Telephone extensions and instruments			2	
	B. Fax Extension			1	
4	AP Card Room				
	A. Telephone extensions and instruments			1	

Chg  
C

\*If the test results are unsatisfactory, contact the appropriate maintenance group for repair and notify the Shift Supervisor.

VERIFICATION OF SCHOOL MONITOR RADIOS  
(ANNUAL TEST)

ITEM #	EQUIPMENT DESCRIPTION	TEST RESULTS		MINIMUM QUANTITY	COMMENTS
		SAT	UNSAT*		
1	School Monitor Radios in schools:				
	A. Kelley Miller School			1	
	B. McCrorey Liston School			1	
	C. Pomaria-Garmany School			1	
	D. Little Mountain School			1	
	E. Mid-Carolina High School			1	
	F. Chapin Elementary School			1	
	G. Chapin High School			1	
	H. Chapin Middle School			1	
	I. Mid-Carolina Middle School			1	

\*If the test results are unsatisfactory, contact the appropriate maintenance group for repair and notify the Shift Supervisor.

### EQUIPMENT TROUBLE REPORT

Siren #	Trouble Indicated	Corrective Action	Date of Retest	Results	Initial

Notified Communications Dept. Date \_\_\_\_\_ Signature \_\_\_\_\_

Repair Activities Complete Date \_\_\_\_\_ Signature \_\_\_\_\_

RETURN TO EMERGENCY SERVICES UNIT UPON COMPLETION.

### TRANSIENT SIGN VERIFICATION

ITEM #	EQUIPMENT DESCRIPTION	TEST RESULTS		MINIMUM QUANTITY	COMMENTS
		SAT	UNSAT*		
1	Glenn's 6 to 10 - Hwy 215			1	
2	Tanner's Grocery - Hwy 215 & 99			1	
3	Salem Crossroads Store - Hwy 215 & 34			1	
4	Berley's Store - Hwy 34 & 28			1	
5	Frick's Grocery - Hwy 76 in Lt. Mountain			1	
6	Wicker's Store - Hwy 213			1	
7	Shealy Brothers Store - Pomaria			1	
8	Ray Blair's Store - Blair			1	
9	Overlook Park - Hwy 215			1	
10	Hwy 215 Boat Landing			1	
11	Highway 99 Lake Monticello Boat Landing			1	
12	Entrance to Broad River Water Fowl Area			1	
13	Cannons Creek Boat Landing			1	
14	Highway 99 Causeway			1	
15	Heller's Creek Boat Landing			1	
16	Lake Monticello Sub Impoundment Entrance			1	
17	Pinner's Bridge Primitive Boat Landing			1	
18	Hwy 34 Primitive Boat Landing			1	
19	Offsite Holding Area Signs			9	

c

\*If the test results are unsatisfactory, contact the appropriate maintenance group for repair and notify the Shift Supervisor.

Are additional signs needed at other locations? Yes / No (Circle one). If yes, specify location(s) \_\_\_\_\_

\_\_\_\_\_