

Calvert Cliffs

ERPIP 5.1
Rev. 9

50-317

COMMUNICATIONS

I. PURPOSE

Describe emergency communications and equipment operation.

II. DISCUSSION

Plant communications consist of eight independent systems:

- A. Public Address
- B. Dimension Telephone
- C. Sound Powered Telephone
- D. Microwave Telephone
- E. Radio Telephone
- F. Dedicated Telephone
- G. LNG Hotline
- H. NRC Hotlines

III. SYSTEM DESCRIPTION

A. Public Address

Description

Provides in-plant communication and emergency alarm. Powered by

Instrument Bus. Five channels:

- Channel 1 - reserved for Operations personnel.
- Channel 2 - Open
- Channel 3 - Open
- Channels 4 & 5 - reserved for communications between emergency centers during emergencies.

8306270164 830615
PDR ADCK 05000317
F PDR

IE-35

Location

Plant and warehouse areas.

Use

Lift receiver. Select a channel. Press page button to activate public address. Release button.

- NOTE -

Control Room uses high volume override when sounding plant emergency alarm.

B. Dimension Telephone

Description

Powered from plant. Calls routed through Prince Frederick, Baltimore or Annapolis exchanges.

Location

Plant and warehouse areas.

Use

Routine. Refer to Demension Dialing Instructions card.

C. Sound Powered Phones

Description

Hardwired network. Provides communications between Operations, Maintenance, Fire Brigade personnel and Control Room.

Location

Control Room, Technical Support Center (TSC), Emergency Control Center (ECC) and numerous locations throughout plant.

Use

Head sets are carried to location. Unscrew receptical cap and plug in headset. Speak loudly into microphone.

D. MICROWAVE TELEPHONE

Description

Provides direct communication between CCNPP and System Operator (Load Dispatcher) via BG&E owned microwave system.

Location

Control Room-SCRO desk.

Switchyard Control House.

Use

Lift receiver to contact System Operator.

ALL - Call feature - SCRO's desk microwave phone emits beeping sound and red light flashes; lift receiver, push both buttons to acknowledge call.

E. RADIO TELEPHONE

Description

VHF radio system consists of base stations, control units, mobile/portable units.

Provides communications between radiological monitoring teams and emergency centers.

Provides auxiliary communications with State, County and BG&E emergency facilities.

Provides pager recall for certain CCNPP personnel.

Location


Plant: Control Room, ECC, Alternate ECC, Central Alarm Station (CAS), Secondary Alarm Station (SAS), several plant vehicles.

Off-site: Media Communications Center (MCC), Division of Radiation Control (DRC), Maryland Emergency Management (MEM&CDA), Calvert Emergency Operations Center (EOC), St. Mary's EOC, Dorchester EOC.

Use

CONTROL UNIT - Choose desired channel and mode (Attachment 1.) Lift handset. Press handset button to transmit; release to receive. See Attachment 2 for headset use.

MOBILE (vehicle mounted) - Select channel 1, code 1. Press PVT. button. Lift microphone. Press microphone button to transmit; release to receive.

PORTABLE - Select channel 1. Place toggle switch to  position. Set squelch. Press button on side of unit or on extension microphone to transmit; release to receive.

PAGER RECALL - See Attachment 3.

F. DEDICATED TELEPHONE SYSTEM (HOT LINES)

Description

Provides direct, non-delay communications between on-site and off-site emergency facilities. Utilizes private C&P telephone lines.

Location

On-site: Control Room, TSC, ECC, Alternate ECC, OSC.

Off-site: MCC, MEM&CDA, DRC, Calvert EOC, St. Mary's EOC, Dorchester EOC.

Use

Press button marked with initials of location you wish to contact. Lift receiver (normal ringing may not be heard.) Conference button allows simultaneous conversations with non-BG&E off-site facilities.

G. LNG - (COVE POINT) - HOT LINE

Description

Allows Cove Point Liquid Natural Gas (LNG) terminal to notify CCNPP Control Room of LNG related problems.

Location

Control Room (SCRO desk.)

Use

Lift receiver when light on phone illuminates. Monitor message.

H. NRC HOT LINES

Description

Provides CCNPP and on-site NRC personnel direct communications with NRC. Consists of two dedicated telephone systems:

- Emergency Notification System (ENS)
- Health Physics Network (HPN)

Location (ENS)

Contact

S T A T I O N	A	Control Room
	B	Shift Supervisor's Office
	C	Emergency Control Center (ECC)
	D	Alternate Emergency Control Center
	E	Technical Support Center
	F	NRC Resident Office

Nuclear
Regulatory
Commission
(NRC)

USE

Lift receiver (no ringing is heard).

Location (HPN)

Contact

S E L E C T I O N	A	Chemistry Lab Area (69' El.)
	B	Emergency Control Center
	C	Alternate ECC
	D	NRC Resident Office

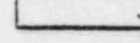
Dial 22



NRC:

Headquarters

Dial 23



NRC:

Region I

USE

Lift receiver. Dial 22 to contact NRC Headquarters.

Dial 23 to contact NRC Region I Office.

ATTACHMENT 1
CONTROL UNITS

Frequency 153.44 MHz

Mode		
Channel 3	Code 1	→
KNAL 814	KNAL 813	
		Mobile Monitoring Teams (KA 3644)
		Division of Radiation Control (KA 3644)
		Mobile Labs (KA 3644)
		Media Communications Center (KNAL 811)

Mode		
Channel 3	Code 2	→
KNAL 814	KNAL 813	
		Calvert EOC (KXH 549)
		St. Mary's EOC (KNAL 815)
		Dorchester EOC (KNAL 812)
		Maryland Emerg Mgt & CDA (KNAL 816)

Mode		
Channel 3	Clear	→
KNAL 814	KNAL 813	
		Pager recall (Must use pager encoder)

Frequency 153.605 MHz

Channel 2	→	Electric Systems Operator
KVD 795		BG&E Nuclear Security (Aux)

Frequency 153.665 MHz

Channel 1	→	Fire Brigade
WXD 211		BG&E Nuclear Security (including S-100, mobile command vehicle)

- NOTE -

Code 1, Code 2, and Clear buttons only affect Channel 3.

ATTACHMENT 2
RADIO HEADSET USE*

1. Remove headset from blue vinyl case.
2. Select ear piece. Attach to headset (ear pieces located in vinyl case with headset.)
3. Plug headset into receptacle under table ledge and don headpiece.
4. Adjust headset receptacle volume switch to comfortable level.

- NOTE -

Accomplished this while listening to radio transmissions or background noise. Radio control unit volume does not affect headset.

5. Transmit by depressing foot pedal (has wire attached to it). Red "transmit" light on console will illuminate when transmitting.

- NOTE -

Handset cannot be used for transmitting when headset is utilized.

* Control unit in Control Room not equipped for headset.

ATTACHMENT 3

PAGER ENCODER USE

1. Select channel 3, clear mode, on radio control unit.
2. Turn encoder power switch to AC (located on rear of encoder).
3. Enter two digit radio code. (Codes in ERPIP Appendix A.1, Page 2)
4. Push "P" button on encoder.
5. When "talk" light illuminates, give message (if any) by depressing radio handset button and speaking into receiver.
6. Press and hold "T" button for messages longer than 10 seconds.

ERPIP 5.1 REVIEW/APPROVAL

[illegible]

CALVERT CLIFFS NUCLEAR POWER PLANT
EMERGENCY RESPONSE PLAN
IMPLEMENTATION PROCEDURES

LIST OF EFFECTIVE PAGES ____

PAGE NUMBER

REVISION

1	9
2	9
3	9
4	9
5	9
6	9

ATTACHMENT

1	9
2	9
3	9