1650 CALVERT CLIFFS PARKWAY • LUSBY, MARYLAND 20657-4702

GEORGE C. CREEL
VICE PRESIDENT
NUCLEAR ENERGY
(410) 260-4455

April 17, 1992

U. S. Nuclear Regulatory Commission
Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT: Calvert Cliffs Nuclear Power Plant
             Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318
             Off-site Communication System

Gentlemen:

This letter is to advise you of a change to off-site communications at Calvert Cliffs Nuclear Power Plant (CCNPP). This change does not affect communications between any Company facilities.

Our current response to 10 CFR Part 50, Appendix E, Section IV.E.9 for off-site communications consists of an automatic ringdown telephone system connecting the Control Room, Technical Support Center, and Emergency Operations Facility, with the five State and local agency Emergency Operations Centers (Maryland Emergency Management Agency, Maryland Department of the Environment, Calvert County, Dorchester County, and St. Mary's County). The system is described in Attachment 6 of Emergency Response Plan Implementation Procedure (ERPIP) 5.1, Communications Equipment. Enclosure (1) to this letter shows the existing system.

In August of 1991, a new emergency response telephone system was introduced: Dedicated Off-site Agency phone. Enclosure (2) provides a pictorial of the Dedicated Off-site Agency phone. Enclosure (3) provides a technical description of the system. The Dedicated Off-site Agency phone utilizes the CCNPP telephone system and fully satisfies 10 CFR Part 50, Appendix E requirements for an off-site communications system. Highlights include redundant processing units, backup AC power, backup battery power, increased number of telephone lines, automatic call route selection, Baltimore Gas and Electric Company owned equipment, simplified maintenance, improved audio quality, and greater user options.

Training on Speed Dial was completed April 10, 1992. The system has been tested in two drills and was used in the 1991 graded exercise. It is our intention to revise ERPIP 5.1, Communications Equipment, on May 18, 1992, to reflect the Dedicated Off-site Agency phone. Effective with this revision, the off-site Automatic Ringdown Telephone will be deactivated.

Communications are addressed in the Emergency Response Plan, under Part 5, Facilities and Equipment, Section II. The Plan does not require a revision subsequent to this change. With the revision to ERPIP 5.1, the plan will continue to meet the standards addressed in 10 CFR 50.47(b) and the requirements of 10 CFR Part 50, Appendix E, Section IV.

Please direct any questions on this matter to:

> Mr. Thomas E. Forgette
> Supervisor - Emergency Planning
> (410) 260-4996

Very truly yours,

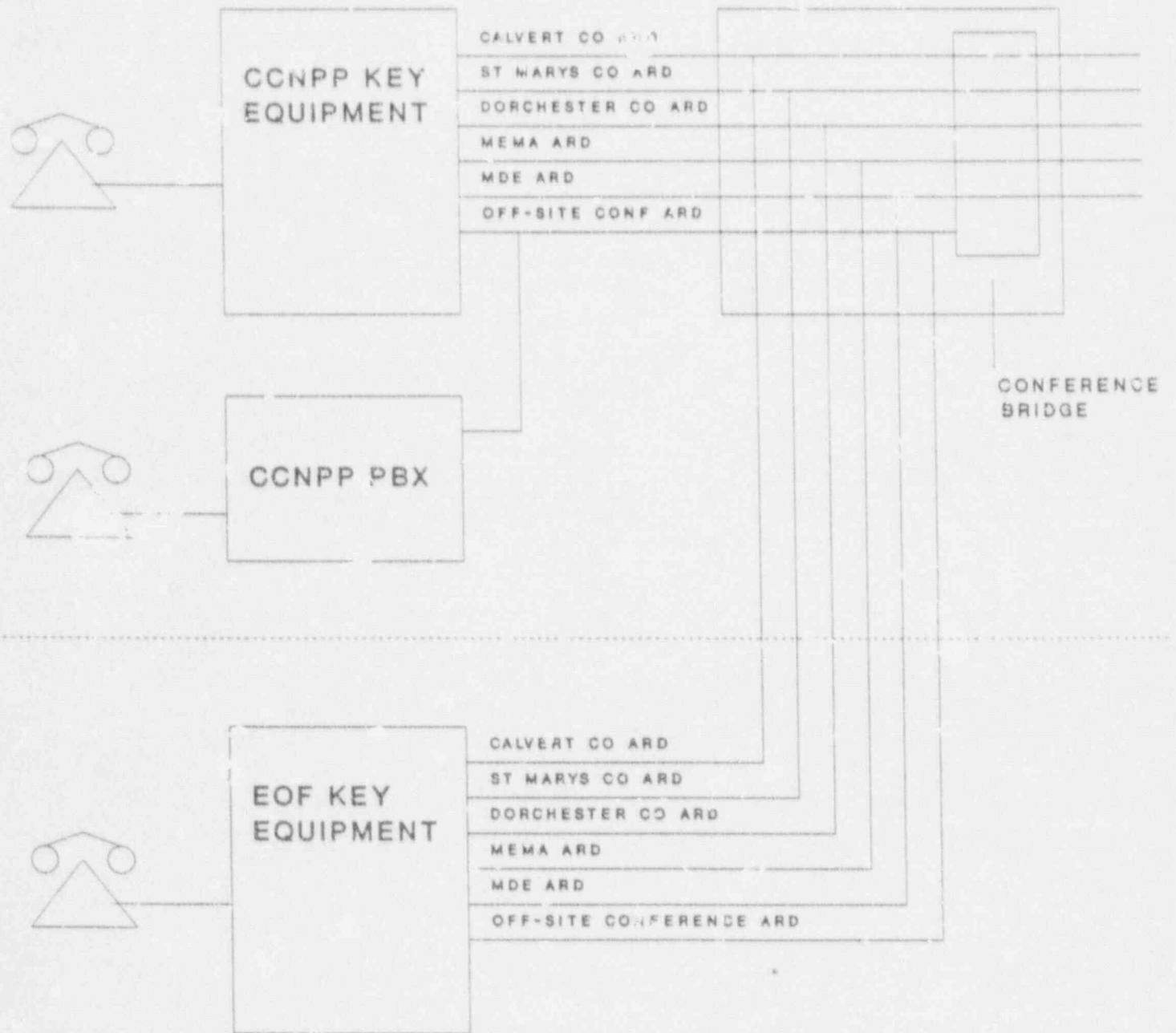GCC/TEF/REF/jft/bjd

Enclosures

cc: D. A. Brune, Esquire
       J. E. Silberg, Esquire
       R. A. Capra, NRC
       D. G. McDonald, Jr., NRC
       T. T. Martin, NRC
       P. R. Wilson, NRC
       R. I. McLean, DNR
       J. H. Walter, PSC

OFF-SITE AUTOMATIC RINGDOWN PHONE SYSTEM

CALVERT COUNTY
(OFF-SITE AUTOMATIC RINGDOWN SYSTEM)

TELEPHONE
EQUIPMENT RM

TELEPHONE CLOSET

C&P ARD CIRCUIT
6PLNT432

FROM CCNPP/EOF

911 KEY
EQUIP

DESK
SPEAKER

DIALELS
DESK PHONE

AT&T TELEPHONE
CONSOLES

EMERGENCY OPERATIONS
CENTER

911 CENTER

COMPANION
SPEAKERPHONE

DIALESS
DESK PHONE

CHIEF OF EMERGENCY
MANAGEMENT OFFICE
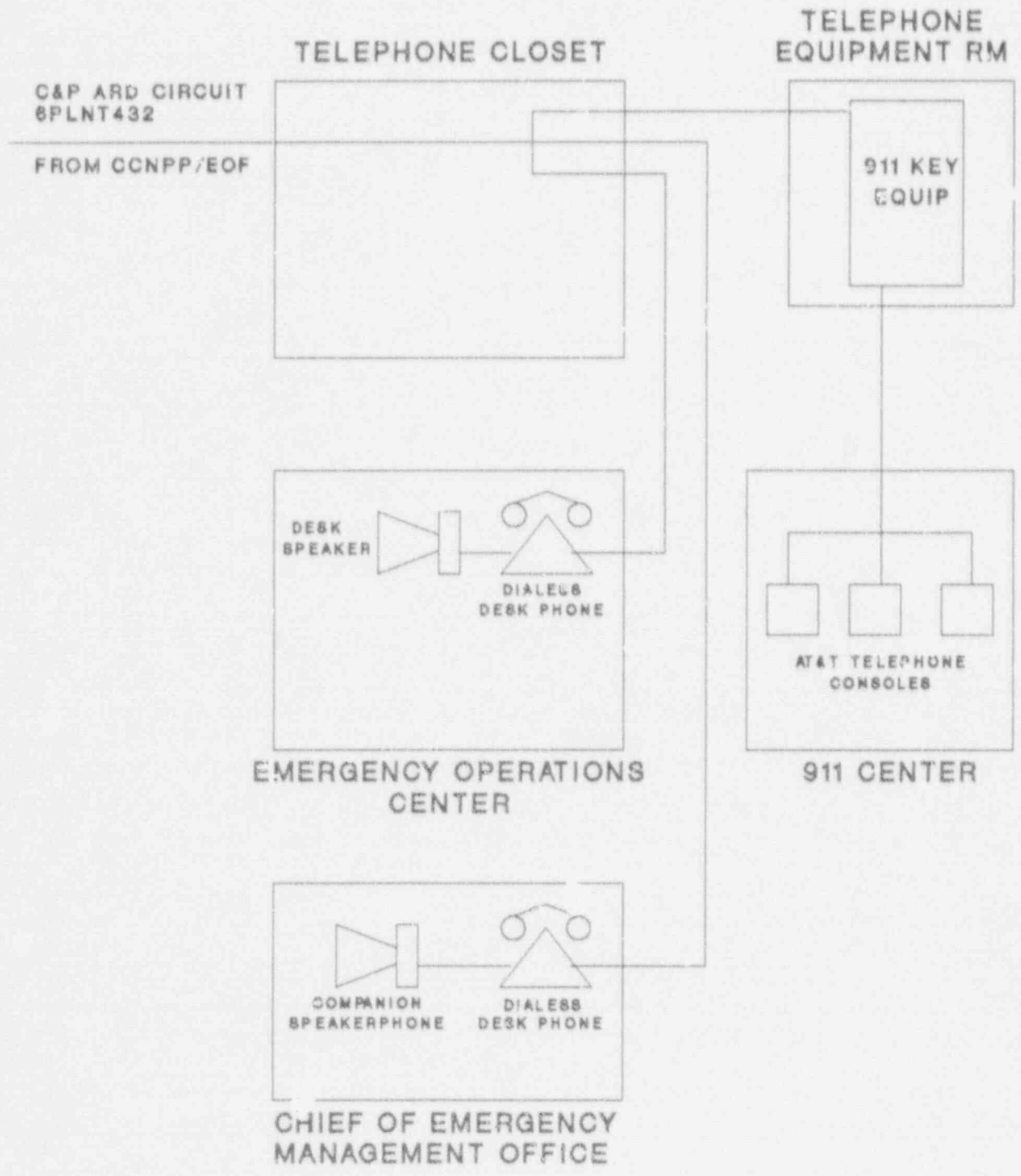
ST MARYS COUNTY
(OFF-SITE AUTOMATIC RINGDOWN PHONE SYSTEM)

TELEPHONE ROOM

C&P ARD CIRCUIT
6PLNT433

FROM CCNPP/EOF

911 KEY
EQUIPMENT

AT&T TELEPHONE CONSOLES

COMMUNICATIONS RM

DESK
SPEAKER

DIALESS
DESK PHONE

EMERGENCY OPERATIONS
CONFERENCE RM
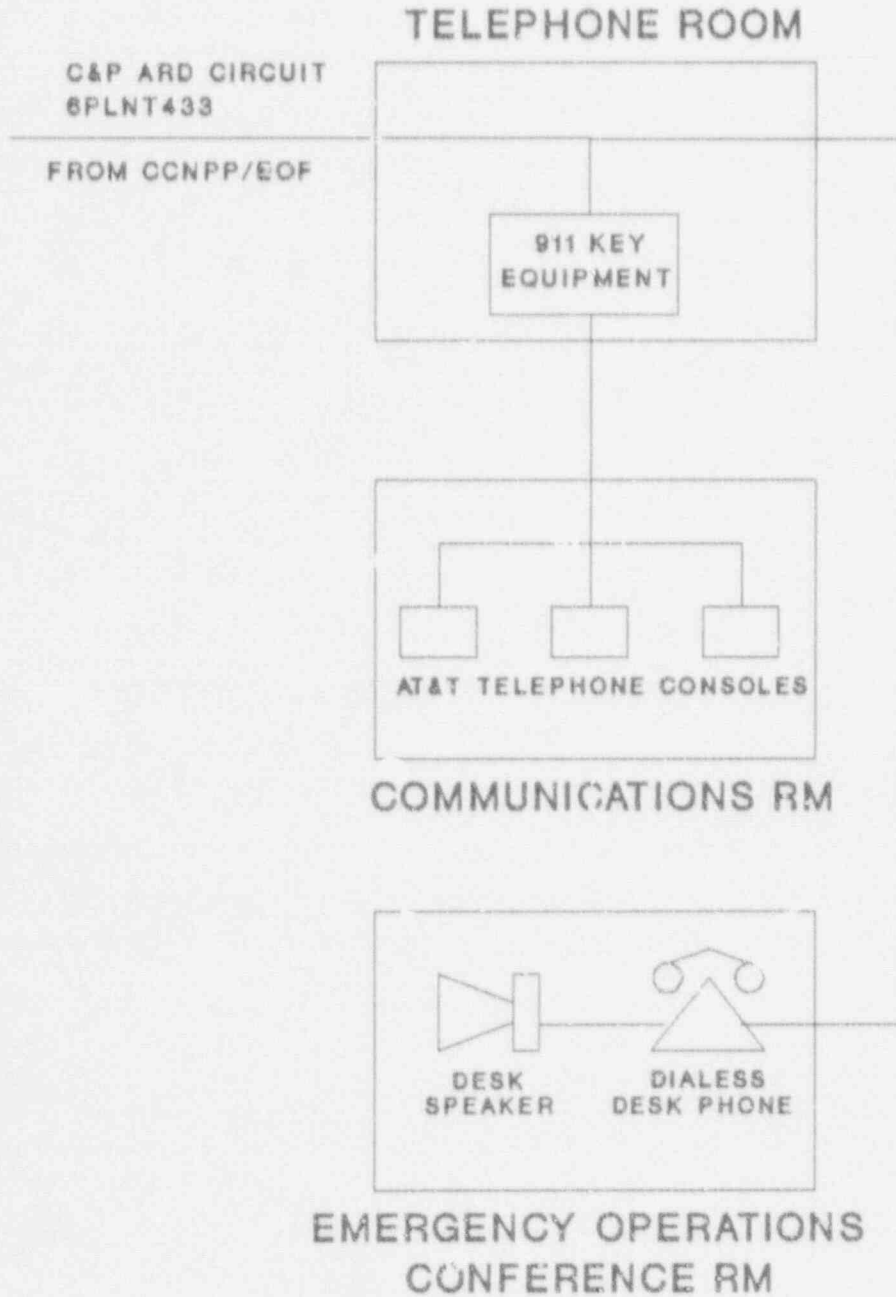
DORCHESTER COUNTY
(OFF-SITE AUTOMATIC RINGDOWN PHONE SYSTEM)

COURTHOUSE
TELEPHONE RM

C&P ARD CIRCUIT
6PLNT434

FROM CCNPP/EOF

DIALESS
DESK PHONE

CONFERENCE RM

DESK
SPEAKER

DIALESS
DESK PHONE

ADMINISTRATIVE OFFICE

CAMBRIDGE CITY POLICE
TELEPHONE ROOM

46RTNA47

AT&T KEY
EQUIPMENT

911 CENTER

PHONE
SOLES

30 BUTTON
KEY PHONE

MEMA
(OFF-SITE AUTOMATIC RINGDOWN PHONE SYSTEM)

STATE POLICE

C&P ARD CIRCUIT
6PLNT431

FROM CCNPP/EOF

DIALESS
DESK PHONE

TELEPHONE ROOM (RM 3)

4-LINE PHONE

DUTY OFFICER DESK

DIALESS
WALL PHONE
PUSH-TO-TALK
HANDSET

COMMUNICATIONS RM (RM 2)

4-LINE PHONE

TELETYPE ROOM

DIALESS
DESK PHONE
PUSH-TO-TALK
HANDSET

DESK
SPEAKER

OPERATIONS ROOM (RM 4)

MD DEPT OF ENVIRONMENT
(OFF-SITE AUTOMATIC RINGDOWN PHONE SYSTEM)

C&P ARD CIRCUIT
6PLNT446

FROM CCNPP/EOF

TELEPHONE
ROOM

TELEPHONE
CLOSET

RADIOLOGICAL HEALTH
COMMUNICATIONS ROOM
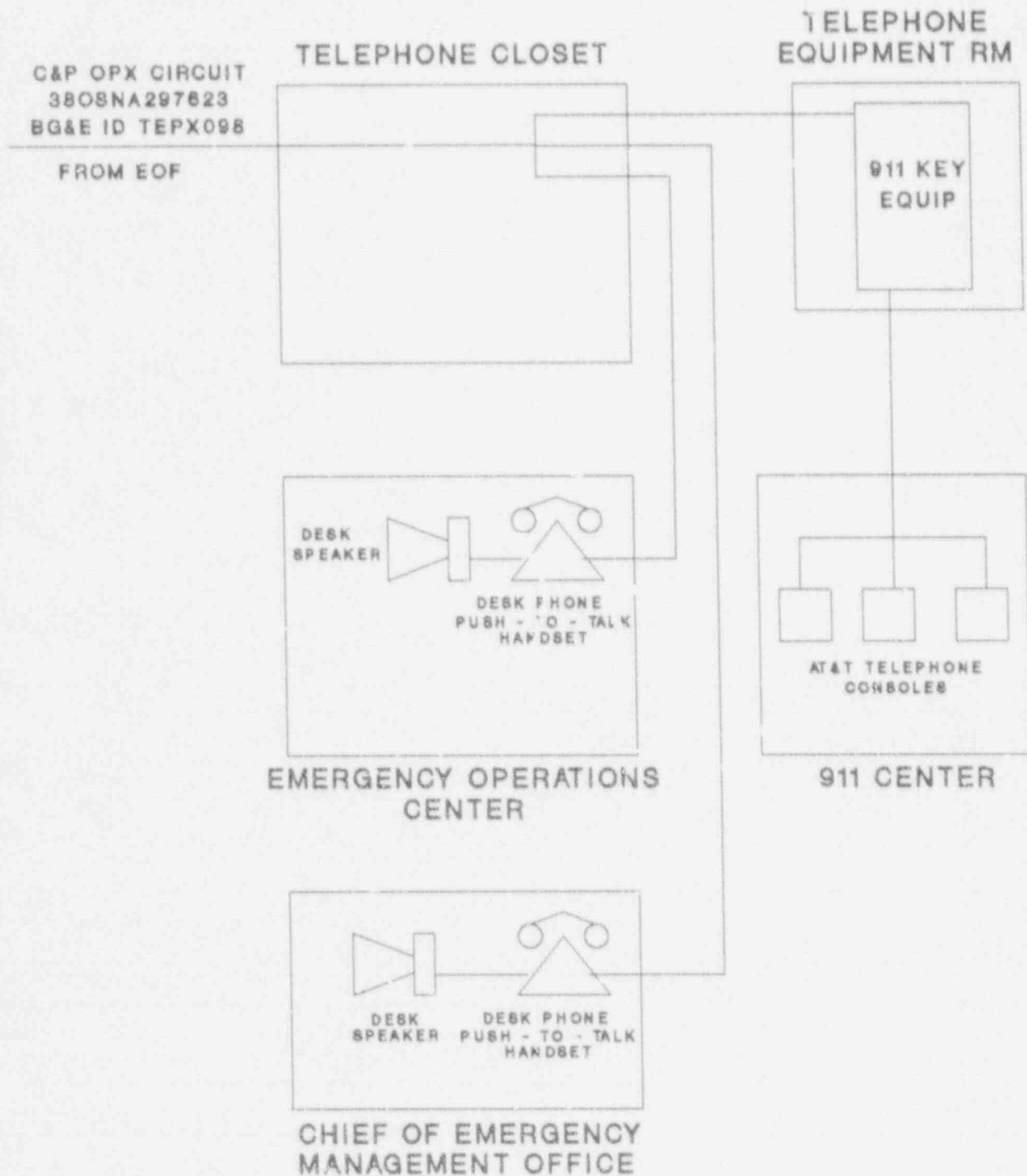
DIALESS
DESK PHONE
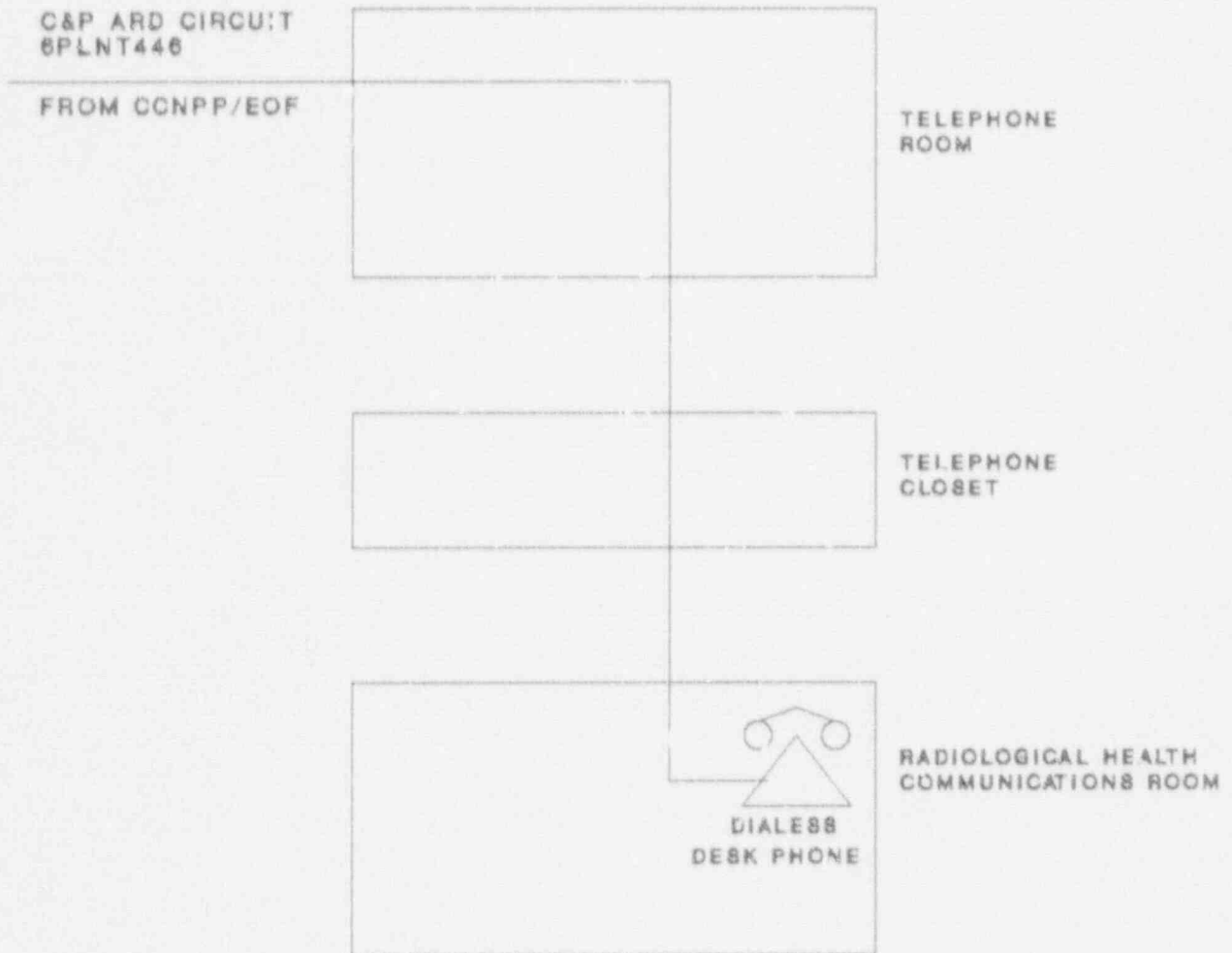
DEDICATED OFF-SITE AGENCY PHONE SYSTEM
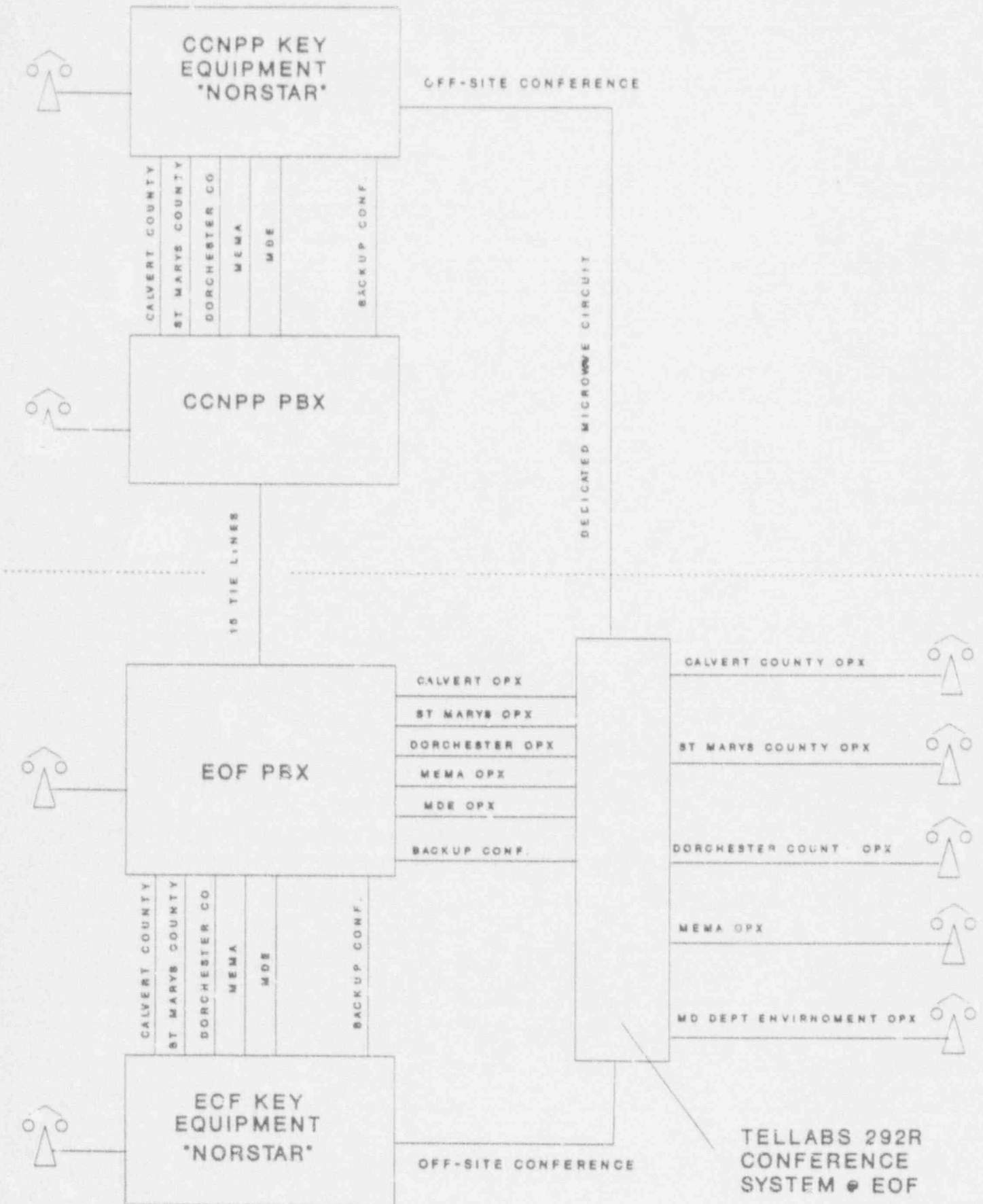
CALVERT COUNTY
(DEDICATED OFF-SITE AGENCY PHONE SYSTEM)

ST MARYS COUNTY
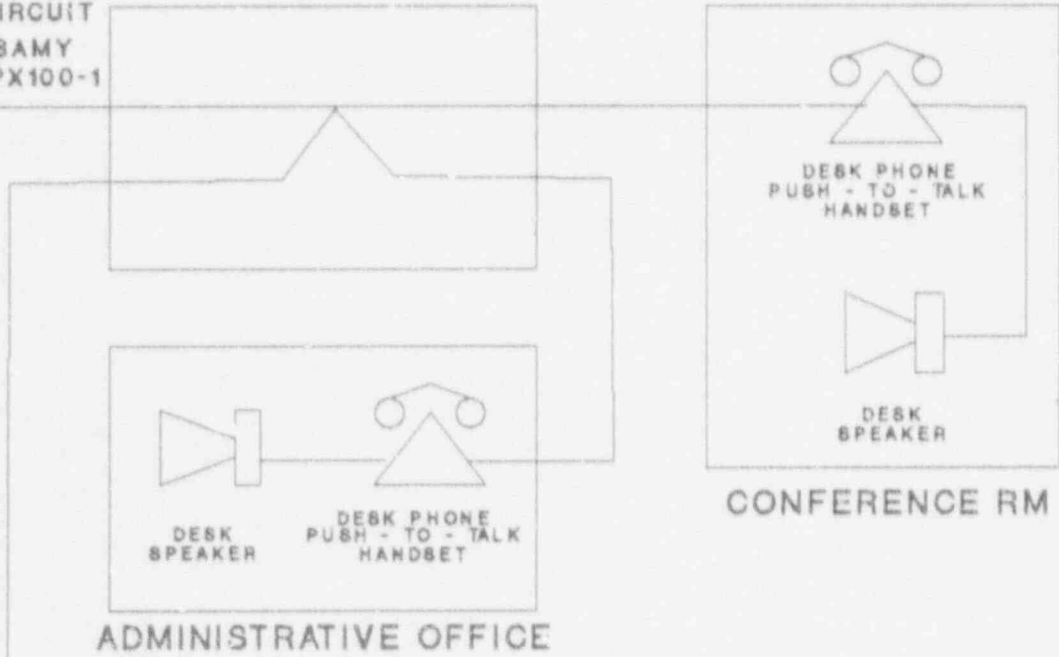## (DEDICATED OFF-SITE AGENCY PHONE SYSTEM)

TELEPHONE ROOM

AT&T OPX CIRCUIT
O8NC958765AMY
BG&E ID TEPX099

FROM EOF

911 KEY
EQUIPMENT

AT&T TELEPHONE CONSOLES

COMMUNICATIONS RM

DESK
SPEAKER

DESK PHONE
PUSH - TO - TALK
HANDSET

EMERGENCY OPERATIONS
CONFERENCE RM
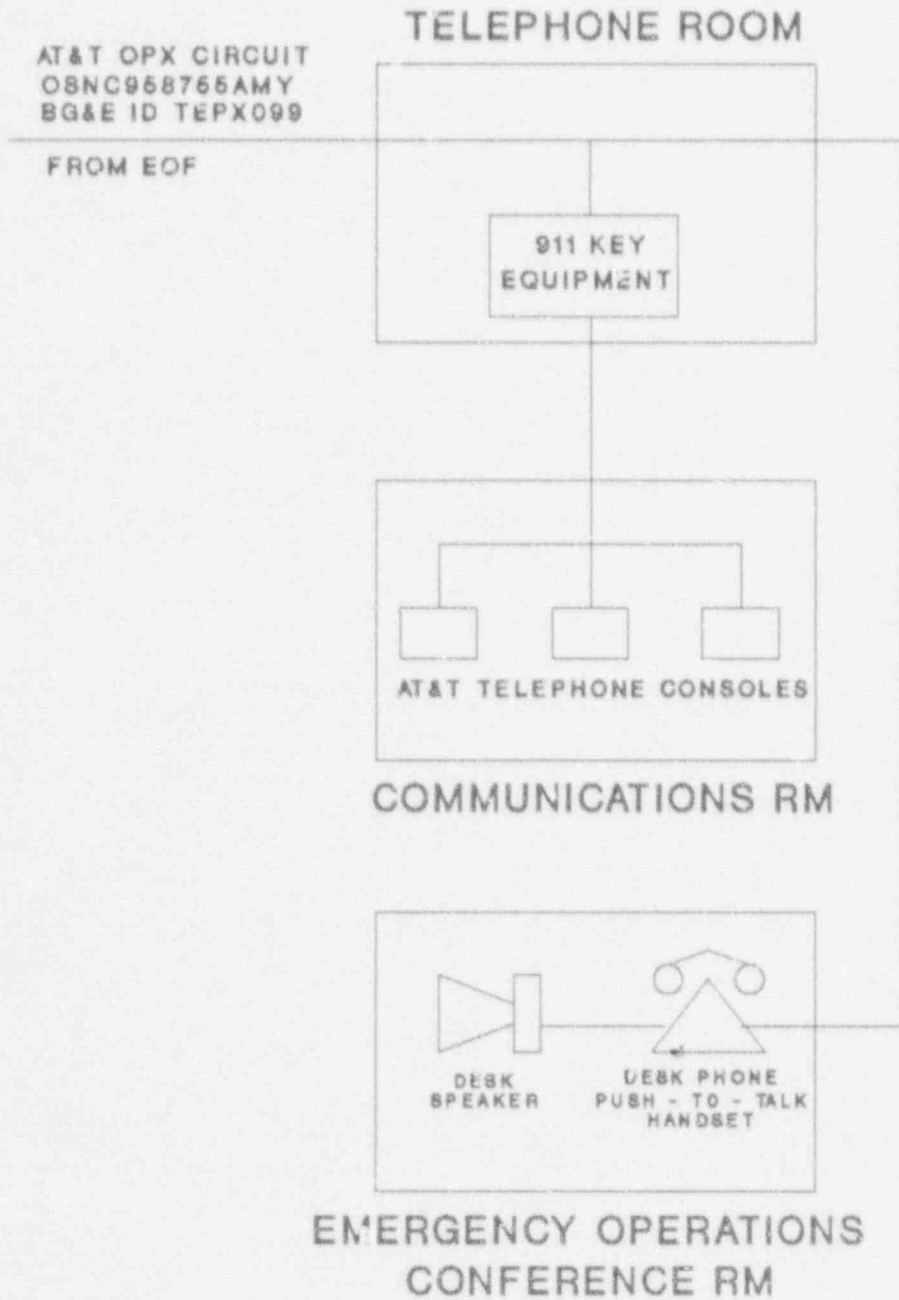
DORCHESTER COUNTY
(DEDICATED OFF-SITE AGENCY PHONE SYSTEM)

COURTHOUSE
TELEPHONE RM

AT&T OPX CIRCUIT
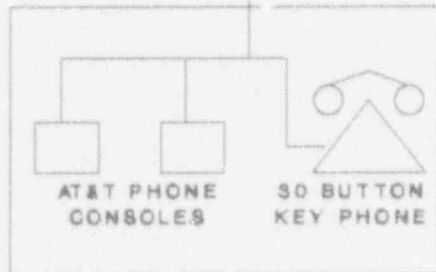OSNC958758AMY
BG&E ID TEPX100-1

FROM EOF

DESK PHONE
PUSH - TO - TALK
HANDSET

DESK
SPEAKER

CONFERENCE RM

DESK
SPEAKER

DESK PHONE
PUSH - TO - TALK
HANDSET

ADMINISTRATIVE OFFICE

CAMBRIDGE CITY POLICE
TELEPHONE ROOM

AT&T KEY
EQUIPMENT

C&P ID#
42CSNA254052

BG&E ID TEPX100-2

911 CENTER

AT&T PHONE
CONSOLES

30 BUTTON
KEY PHONE

MEMA
(DEDICATED OFF-SITE AGENCY PHONE SYSTEM)

STATE POLICE

C&P OPX CIRCUIT
3808NA297822
BG&E ID TEPX101

FROM EOF

WALL PHONE
PUSH - TO - TALK
HANDSET

TELEPHONE ROOM (RM 3)

WALL PHONE
PUSH-TO-TALK
HANDSET

COMMUNICATIONS RM (RM 2)

WALL PHONE
PUSH-TO-TALK
HANDSET

DUTY OFFICER DESK

WALL PHONE
PUSH-TO-TALK
HANDSET

TELETYPE ROOM

DESK PHONE
PUSH-TO-TALK
HANDSET

DESK
SPEAKER

OPERATIONS ROOM (RM 4)

DESK PHONE
PUSH-TO-TALK
HANDSET

DESK
SPEAKER

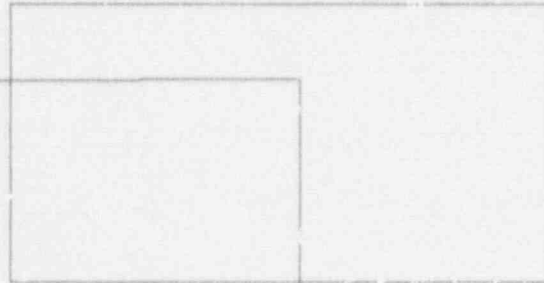DIRECTOR'S OFFICE

MD DEPT OF ENVIRONMENT
(DEDICATED OFF-SITE AGENCY PHONE SYSTEM)

C&P OPX CIRCUIT
3808NA297822
BG&E ID TEPX102

FROM EOF

TELEPHONE
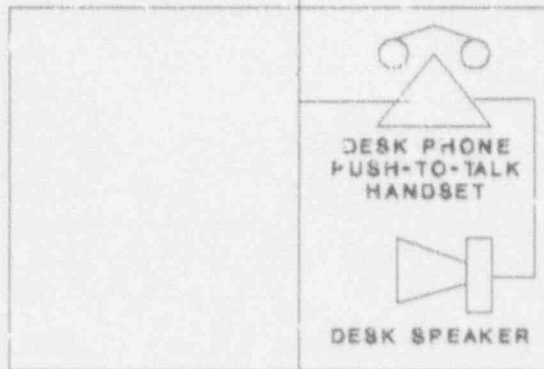ROOM
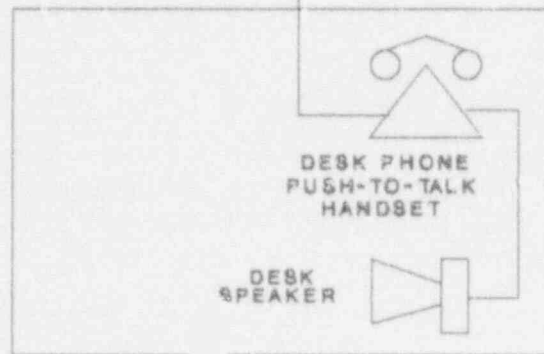
TELEPHONE
CLOSET

DESK PHONE
PUSH-TO-TALK
HANDSET

DESK SPEAKER

RADIOLOGICAL HEALTH
COMMUNICATIONS ROOM

DESK PHONE
PUSH-TO-TALK
HANDSET

DESK
SPEAKER

DIRECTOR'S OFFICE

SECRETARY'S DESK

DEDICATED OFF-SITE AGENCY PHONE SYSTEM
TECHNICAL DESCRIPTION

The Dedicated Off-site Agency Telephone System is designed around a Tellabs 292R Conferencing/Alerting System and dedicated off-premises extension (OPX) circuits to the Off-site Agencies. Several other components are utilized to provide redundancy and ease of operation. Refer to Enclosure (2) system block diagram while reviewing the following description.

The system uses standard point-to-point dedicated OPX circuits that are leased from the local and long distance telephone carriers. These circuits connect the Off-site Agencies to the utility-owned conferencing system at the Emergency Operations Facility (EOF). These circuits are dedicated and have backup power provided by the telephone carriers.

Each Off-site Agency has at least two telephone instruments connected to the incoming OPX circuit. Most of these telephones are single-line telephones with push-to-talk handsets and amplified monitoring speakers. The push-to-talk handsets are used to eliminate background noise and feedback problems. This is especially important in obtaining high quality audio when using the conferencing feature.

The conferencing system at the EOF is a Tellabs 292R Conferencing/Alerting system that is utility owned and maintained. Backup power is provided by the dial telephone -48 volt battery system and by an on-site generator.

An Off-site Conference can activate from two separate ports on the Tellabs 292R. The first port is the "primary" Off-site Conference activation line which can be accessed from the EOF or Calvert Cliffs Nuclear Power Plant (CCNPP). The second port is the backup Off-site Conference activation line which can also activate from the EOF or CCNPP. The circuits are diversely routed.

When an Off-site Conference activates from the EOF or CCNPP, in-progress calls on the Off-site dedicated OPXs are automatically connected to the conference. All the idle Off-site OPXs will ring until answered and then will be connect to the conference. Any unanswered Off-site OPX will continue to ring up to 4 minutes. This ringback tone will not be heard by the conference call, allowing clear messages. The conference terminates when either the EOF or CCNPP disconnects.

During non-conference operation at the EOF, a Northern Telecom Norstar Key Telephone system, a Northern Telecom SL-1 Private Business Exchange (PBX), and the Conference Bridge at the EOF provide one button dialing to each Off-site Agency from the EOF. This equipment is backed up by a -48 volt battery system and an emergency diesel generator at the EOF. This equipment is utility owned and maintained, and provides for any site connected to the conference circuit to call any other site.

During "primary" off-site conference operation at the EOF, the EOF Key Equipment will directly activate the Conference Bridge. During Backup Off-site Conference, the EOF key equipment will route through the EOF PBX to activate the conference bridge.

During non-conference operation at CCNPP, the CCNPP Norstar Electronic Key Telephone System and the CCNPP Northern Telecom SL-1 PBX, and the EOF conference bridge provide one button dialing to each Off-site Agency. The CCNPP key equipment is backed up by a UPS system and emergency diesel generators. The CCNPP PBX is backed up by -48 volt battery system and the emergency diesel generators. This equipment is utility owned and maintained. The CCNPP key equipment activates the CCNPP PBX which routes the calls to the EOF PBX through 15 tie lines divided into 4 separate diversely routed paths.

DEDICATED OFF-SITE AGENCY PHONE SYSTEM
TECHNICAL DESCRIPTION

During "primary" off-site conference at CCNPP, the CCNPP key equipment will activate the conference bridge directly through a microwave link from CCNPP to the EOF. During backup off-site conference, the CCNPP key equipment activates the CCNPP PBX which activates the EOF PBX, initiating the conference call.

Calls to the Off site Agencies and operation of the backup off-site conference are possible directly from the CCNPP dial telephone system (CCNPP PBX) or the EOF dial telephone system (EOF PBX). This feature could be used if the CCNPP electronic key system or EOF electronic key system would ever fail.