



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION III  
799 ROOSEVELT ROAD  
GLEN ELLYN, ILLINOIS 60137

CENTRAL FILES *MA/4*

MAR 19 1980

Docket No. 50-263  
Docket No. 50-282  
Docket No. 50-306

Northern States Power Company  
ATTN: Mr. Dennis E. Gilberts  
Vice President  
Power Production and  
System Operation  
414 Nicollet Mall  
Minneapolis, MN 55401

Gentlemen:

Attached to this letter is a copy of the operating instructions and characteristics of the Health Physics network. This telephone is colored red and has either a rotary dial or touch tone capability. It is connected to circuit No. GDA-2064 or GDA-2065. (The GPD circuit Nos. are the OPX dedicated lines.) The code for the Region III office is 23, while the code for Headquarters is 22. Also attached to this letter are stickers for your telephones which contain this information. You must first push the "star" button if you have a touch tone telephone, before you dial 23 or 22. Calls during normal business hours (7:00 a.m. - 4:30 p.m. Central Standard Time) should go to the regional office (23), while calls at other times should go to the Headquarters office, unless you are instructed otherwise. Please note especially, that you will not hear a dial tone when you initiate a call, nor will you hear a ringing after you dial a code. If your call is not answered in approximately one minute, please hang up and dial again.

The purpose of this telephone network is the transmission of health physics information during an incident or abnormal occurrence at your facility. It is also to be used for routine transmission of information requested by this region.

*[Handwritten signature]*  
8004070 378

Northern States Power Company

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MAR 19 1980

If you have any questions about this system, contact Mr. T. H. Essig of this office.

Sincerely,

James C. Keppler  
Director

Attachments: AS stated

cc w/attachments:

Mr. L. R. Eliason, Plant  
Manager

Mr. F. P. Tierney, Jr.,  
Plant Manager

Central Files

Reproduction Unit NRC 20b

PDR

Local PDR

NSIC

TIC

John W. Ferman, Ph.D.,  
Nuclear Engineer, MPCA

OFFICE	RIII	RIII	RIII	RIII	RIII
SURNAME	Greer/pd	Essig	Davis	Norelius	Keppler
DATE	3/4/80		3/6	3/7	3/7

## SYSTEM DESCRIPTION

### GENERAL

The Nuclear Regulatory Commission's Health Physics Network (HPN) connects all Nuclear Power Plants and Fuel Facilities to NRC Regional Offices and to NRC Headquarters Operations Center. Its primary purpose is to support the Health Physics operation during a nuclear incident by providing voice coordination between the affected site, the Regional Office and NRC Headquarters Operations Center. Daily administrative and facsimile traffic will also be sent over the network.

The NRC Headquarters Operations Center, the Regional Office, Power Plants and Fuel Facilities on each circuit are connected on a type of "party line" (see Exhibit on following page). Calling may either be Station to Station, Group, or Broadcast to all stations.

### SYSTEM FEATURES

The HPN provides the following features:

Station to Station Calling - A location may be "called" on an individual basis by dialing the assigned two-digit station code.

Group Calling - a predetermined group on a circuit may be called by dialing the assigned two-digit code. The HPN's group code signals all Resident Inspector telephones on that circuit.

Broadcast - a universal two-digit code which when dialed simultaneously signals all stations on a circuit. This network has a separate code for voice and facsimile broadcast.

Conferencing - the calling party may "conference" stations anytime during the conversation by simply dialing the appropriate code(s). Any number of stations may be added in this manner.

Privacy - This feature is achieved automatically as the desired station code is dialed. It permits only those stations selected by the originator to be included on the call. All other stations are "locked out" and will hear a steady high-pitched tone if they lift their receiver. Privacy is maintained until the originator hangs up.

Circuit Busy Lamp - The Resident Inspector's telephone will be equipped with this lamp to provide a visual indication of circuit availability. The circuit buttons on the telephone at Regional Offices and NRC Headquarters Operations Center will serve the same function.

- Dark lamp - circuit available for use
- Lighted lamp - circuit busy
- Flashing lamp - incoming call

Privacy Override - NRC Headquarters and Regional Offices may seize a circuit by pushing the non-locking privacy override button on their telephone. Operation of the override button places a short burst of high level tone on the circuit, removes the station busy tones and darkens all busy lamps. The overriding party may then place the call. If the overridden parties have not hung up, they are disconnected as the overriding party begins to dial.

INTER-Circuit Switching

The ability to dial from one circuit to another is provided by this feature. This is accomplished by dialing the appropriate interconnect code. An interconnect code is a unique two digit code associated with each circuit, used to gain access to that circuit from other circuits. Specific dialing instructions for this and all other types of calls are explained in Systems Operations. The particular interconnect code for each circuit can be found in the Directories section of this manual.

Error Correction - The HPN includes an error correction feature. A complete explanation of this feature is explained under Systems Operations.

FACSIMILE Transmission - Customer provided facsimile (FAX) machines are located at NRC Headquarters Operations Center, Regional Offices and each Resident Inspector's Office. A switch will be provided allowing the FAX machine to be used on the HPN circuit or commercial circuit.

## SYSTEM OPERATION

General

As soon as the telephone receiver is lifted, the calling party may dial. NO DIAL TONE IS HEARD.

The calling party does not hear an audible ringing signal after dialing the desired code(s). Ringing is heard at the called station to indicate an incoming call. This ringing stops when the telephone is answered or at the end of thirty seconds. Even though the called telephone stops ringing, it can still be answered since the calling party may be waiting on the circuit. The calling party may, however, dial again if the call has not been answered in approximately 30 seconds.

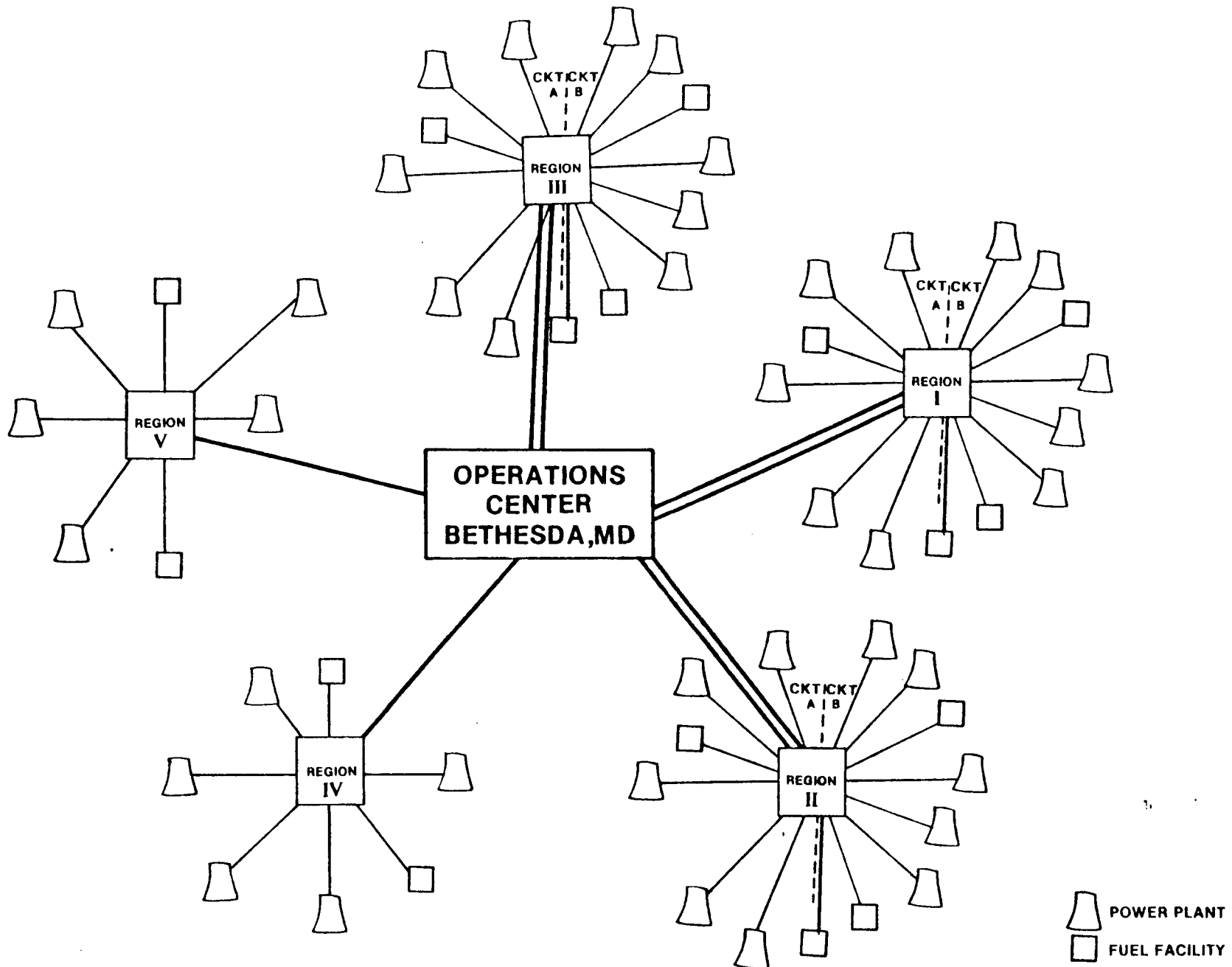
Many locations have more than one telephone associated with a station code. In these cases after one of the telephones is answered, ringing will continue at the others until they are answered or the ringing times out. There is no privacy between telephones sharing the same code. To insure the circuit is not in use, a challenge phrase such as "Circuit busy?" may be required if your telephone has no visual busy indication.

An automatic time-out period of six seconds is provided on the HPN to prevent a tie-up if only one digit has been dialed. This means that the desired code must be dialed within six seconds or the call will not complete.

NRC Headquarters Operations Center and Regional Offices may not use the "HOLD" button on their telephone's HPN circuits. Operation of the "HOLD" button during a call will disconnect the privacy feature.

Before initiating any call on the HPN from a Touch-tone phone an asterisk (\*) must be dialed.

# HEALTH PHYSICS NETWORK



NRC

EXHIBIT