REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8405100010 DOC.DATE: 84/05/01 NOTARIZED: NO DOCKET #
FACIL:50-220 Nine Mile Point Nuclear Station, Unit 1, Niagara Powe 05000220
AUTH.NAME AUTHOR AFFILIATION
MANGAN,C.V. Niagara Mohawk Power Corp.
RECIP.NAME RECIPIENT AFFILIATION
VASSALLO,D.B. Operating Reactors Branch 2

SUBJECT: Forwards addl clarifying info re emergency response facilities,per 840103 response to NUREG-0737,Suppl 1.

DISTRIBUTION CODE: A046S COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 8
TITLE: OR Submittal: TMI Action Plan Rqmt NUREG-0737 & NUREG-0660

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	NRR ORB2 BC 01	7	7			
INTERNAL:	ELD/HDS3	1	0	IE/DEPER DIR 33	1	1
	IE/DEPER/EPB	3	3	IE/DEPER/IRB	1	1
	NRR ERICKSON,P	1	1	NRR PAULSON,W.	1	1
	NRR/DHFS DEPY29	1	1	NRR/DL DIR 14	1	1
	NRR/DL/ORAB 18	3	3	NRR/DSI/ADRS 27	1	1
	NRR/DSI/AEB	1	1	NRR/DSI/ASB	1	1
	NRR/DSI/RAB	1	1	NRR/DST DIR 30	1	1
	REG FILE 04	1	1	RGN1	1	1
EXTERNAL:	ACRS 34	10	10	LPDR 03	1	1
	NRC PDR 02	1	1	NSIC 05	1	1
	NTIS	1	1			

TOTAL NUMBER OF COPIES REQUIRED: LTTR 41 ENCL 40

[illegible]

[illegible]

[illegible]

NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

May 1, 1984

Director of Nuclear Reactor Regulation
Attention: Mr. Domenic B. Vassallo, Chief
Operating Reactors Branch No. 2
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63

Dear Mr. Vassallo:

In response to Supplement 1 to NUREG-0737, our January 3, 1984 letter provided information regarding the Nine Mile Point Emergency Response Facilities. Pursuant to discussions with members of your staff, additional clarifying information is presented herein.

Sincerely,

NIAGARA MOHAWK POWER CORPORATION

C. V. Mangan
Vice President
Nuclear Engineering and Licensing

CVM/BDW:slw

A046
1/1

ADDITIONAL CLARIFYING INFORMATION REGARDING NINE MILE POINT UNIT 1 EMERGENCY RESPONSE FACILITIES

Niagara Mohawk Power Corporation
May 1, 1984

Introduction

Niagara Mohawk's January 3, 1984 letter indicated that the design of the Technical Support Center power supply and the habitability of the Technical Support Center were undergoing additional review. The results of that review are provided herein. Also provided is additional information regarding the Technical Support Center communication system and an implementation schedule for the Emergency Operations Facility currently under construction. This additional information was requested by members of the Nuclear Regulatory Commission's staff during discussions regarding the Nine Mile Point Unit 1 Emergency Response Facilities.

Technical Support Center

Power Supply

As noted in Niagara Mohawk's January 3, 1984 letter, the Technical Support Center is not provided with a diesel generator backup power supply. The Technical Support Center is supplied with power from Power Board 14, which can be fed from either the main station transformer or redundant off-site power supplies. This provides a reliable source of power to the Technical Support Center and is in agreement with the guidance of Section 2.8 of NUREG-0696. The reliability of the off-site power supply is discussed in detail in Niagara Mohawk's December 22, 1983 submittal.

Habitability

The habitability of the Nine Mile Point Unit 1 Technical Support Center was evaluated for loss of coolant and main steam line break accident scenarios. The results of that evaluation indicated that doses would be below the guideline of 5 Rem whole body or its equivalent. Niagara Mohawk is currently in the process of verifying the assumptions used in the evaluation. Therefore, the evaluation results are not considered final. Any significant changes will be reported to the Nuclear Regulatory Commission.

Communications

A detailed description of the Emergency Response Facility communications system is contained in Section 7.2 of the Site Emergency Plan (see attachment). Briefly, the system consists of State-of-the-Art telephone and radio equipment. Certain portions of the telephone system are independent of the local system and provide "hotline" connections.

Emergency Operations Facility

Niagara Mohawk's January 3, 1984 letter stated that a new Emergency Operations Facility was under construction. As noted in our February 1, 1984 submittal, Niagara Mohawk intends to have the new Emergency Operations Facility fully equipped and operational no later than December 31, 1985.

Conclusion

Based on the information presented herein and in our January 3, 1984 submittal, Niagara Mohawk considers the Nine Mile Point Unit 1 Technical Support Center to be fully functional and operational at this time. Nuclear Regulatory Commission Inspection Report Number 50-220/83-22 supports this conclusion. Completion of the new Emergency Operations Facility will establish agreement with the guidelines for Emergency Response Facilities.

7.1.8 Oswego County Emergency Operations Center (OCEOC)

The Oswego County Emergency Operations Center is located in the Office of Emergency Preparedness, County Branch Building, Fulton, N.Y. The County Warning Point is located at the Oswego County Sheriff's Office. Communications are available 24 hours per day at this warning point. Upon activation, either by the State Commissioner of Health or the Oswego County Emergency Preparedness Office, communications, planning, and coordination personnel will be available. A representative from NMPC will be dispatched to this facility to act as liaison between the County and the site for a Site Area or General Emergency. 10

7.1.9 State Emergency Operations Center (NYEOC)

The State Emergency Operations Center is located in the substructure of the the Public Security Building, State Office Building Campus, Albany, New York. The State Warning Point communication systems and the Office of Disaster Preparedness are also located in this center. Communication systems operate on an around-the-clock basis. State direction and control of emergency operations will be conducted from this Emergency Operations Center. Field operations will be implemented through the Office of Disaster Preparedness, Central District Office, in Oneida, N.Y. Upon activation, planning and coordination personnel will be available. 10

7.2 COMMUNICATIONS SYSTEMS

The Nine Mile Point communication capabilities include multiple systems and redundancies which ensure the performance of vital functions in transmitting and receiving information throughout the course of an emergency. Figure 7.2 is a block diagram showing the communications systems available and the fundamental communications links. As can be seen on the diagram, multiple communication modes and paths are available for all necessary emergency communications. Systems available at the various emergency facility locations or available for use by response organizations are:

7.2.1 Telephone Systems

10

The telephone system at NMPNS consists of an inplant dial system with connections to the local telephone system. It is also connected to the NMPC system. By dialing appropriate access codes and/or extensions, phones throughout the NMPC system can be reached directly or through a local switchboard operator at the facility being called. Connections to on-site and off-site Emergency Response Centers are available through this system. The main emergency response facilities or organizations which have telephones, either NMPC system or local telephone system, are listed below:

10

- Control Room (Units 1 and 2*)
- Technical Support Center
- Operations Support Center
- Near-Site Emergency Operations Facility
- Alternate (Off-site) Emergency Operations Facility

10

*Unit 2 equipment to be installed in the future

- Joint News Center
- Oswego County Emergency Operations Center
- Oswego County Sheriff's Department (County Warning Point)
- Oswego County Fire Control
- Oswego Hospital
- SUNY Hospital in Syracuse
- U.S. Coast Guard (Oswego Unit)
- New York State Warning Point
- New York State Emergency Operations Center
- NRC
- DOE Brookhaven, N.Y. (FRMAP Team)
- Other Emergency Response Organizations

10

7.2.2 NRC Emergency Notification System (ENS) Hotline

10

This is a separate and completely independent system from the local telephone system. When the telephone is picked up at NMPNS it rings at the NRC Emergency Operations Center in Bethesda, Md. This system is used to provide initial notification of an emergency and continuing emergency information. NMPC facilities at which these telephones are located include:

- Control Room (Units 1 and 2*)
- Technical Support Center
- Near-Site Emergency Operations Facility

10

7.2.3 Radiological Emergency Communications System (RECS)

This is a separate and completely independent system from the local telephone system and is similar to the NRC ENS Hotline. This system is used to provide initial notification of an emergency and continuing emergency information to the State and to Oswego County. Facilities at which these telephones are located include:

10

10

- Control Room (Units 1 and 2*)
- Technical Support Center
- Near-Site Emergency Operations Facility
- Alternate (Off-site) Emergency Operations Facility
- JAFNPP Control Room
- Oswego County Warning Point (Sheriff's Department)
- Oswego County Emergency Operations Center
- NYS Office of Disaster Preparedness (Central District Office)
- NYS Warning Point
- NYS Alternate Warning Point (State Police Communications Center)
- NYS Emergency Operations Center
- NYS Department of Health (Hq. in Albany)

*Unit 2 equipment to be installed in the future

10

- Joint News Center
- Oswego County Emergency Operations Center
- Oswego County Sheriff's Department (County Warning Point)
- Oswego County Fire Control
- Oswego Hospital
- SUNY Hospital in Syracuse
- U.S. Coast Guard (Oswego Unit)
- New York State Warning Point
- New York State Emergency Operations Center
- NRC
- DOE Brookhaven, N.Y. (FRMAP Team)
- Other Emergency Response Organizations

10

7.2.2 NRC Emergency Notification System (ENS) Hotline

10

This is a separate and completely independent system from the local telephone system. When the telephone is picked up at NMPNS it rings at the NRC Emergency Operations Center in Bethesda, Md. This system is used to provide initial notification of an emergency and continuing emergency information. NMPC facilities at which these telephones are located include:

- Control Room (Units 1 and 2*)
- Technical Support Center
- Near-Site Emergency Operations Facility

10

7.2.3 Radiological Emergency Communications System (RECS)

This is a separate and completely independent system from the local telephone system and is similar to the NRC ENS Hotline. This system is used to provide initial notification of an emergency and continuing emergency information to the State and to Oswego County. Facilities at which these telephones are located include:

10

10

- Control Room (Units 1 and 2*)
- Technical Support Center
- Near-Site Emergency Operations Facility
- Alternate (Off-site) Emergency Operations Facility
- JAFNPP Control Room
- Oswego County Warning Point (Sheriff's Department)
- Oswego County Emergency Operations Center
- NYS Office of Disaster Preparedness (Central District Office)
- NYS Warning Point
- NYS Alternate Warning Point (State Police Communications Center)
- NYS Emergency Operations Center
- NYS Department of Health (Hq. in Albany)

*Unit 2 equipment to be installed in the future

10

7.2.4 Site Security Hotline

This is a separate and completely independent system from the local telephone system and is similar to the NRC ENS Hotline. This system is used primarily as a means of immediate notification of a security problem, but can be used to provide notification of other types of emergencies. It can be used as a means of notifying Unit 2 construction site of an emergency at NMPNS or JAFNPP. Facilities at which these telephones are located include: 10

- NMPNS Control Room (Units 1 and 2*) 10
- Unit 1 Security Building
- Unit 2 Security Building
- JAFNPP Control Room
- JAFNPP Security Building

7.2.5 NRC Health Physics Network (HPN)

This telephone system is separate from the local telephone system, but is not a hotline. It connects all power reactors to the NRC and is used to transmit health physics (radiological) data to the NRC during an emergency. NMPC facilities at which these telephones are located include: 10

- Control Room (Units 1 and 2*) 10
- Technical Support Center
- Emergency Operations Facility
- Alternate (Off-site) Emergency Operations Facility

7.2.6 Other Dedicated Telephone Lines

These telephone systems provide direct communication between the points shown. They can be used in any situation but are primarily for emergency use. These systems include:

- NMPNS Control Rooms* to JAFNPP Control Room
- Control Rooms* to Technical Support Center
- Technical Support Center to Corporate Emergency Operations Center
- Technical Support Center to Operations Support Center. Two dedicated lines are provided: one for repair and damage control; the other for radiation protecton personnel.
- Emergency Operations Facility to Technical Support Center. Two dedicated lines are provided: one primarily for command, control and information flow; the other for radiological/meteorological information flow. 10
- Emergency Operations Facility to Corporate Emergency Operations Center

*Unit 2 equipment to be installed in the future

7.2.7 Public Address and Page System

This system (called Gaitronics) is located in the various NMPNS facilities and also has speakers outdoors. It is a normal communications system which can be used by all station personnel. To use it, a person selects page, pages the person required, makes an emergency announcement or requests emergency assistance. By turning off the paging function, a normal conversation can be held on one of the three channels provided.

7.2.8 Radio Systems

The NMPC has various radio frequencies assigned to them for their use. NMPNS has radios which can operate on four of these frequencies. Also, additional frequencies are assigned for the sole use of security personnel. For long distance use the signal can be broadcast to a repeater station located on the stack of the Oswego Steam Station located in Oswego. In addition to the NMPC internal networks, NMPNS also has radios which net with the Oswego County Fire Control, the Oswego County Sheriff's Department and Unit 2 construction security personnel. Personnel paging systems (beepers), which alert an individual and also relay a short message, can be used to notify personnel of an emergency. One system is activated through the Station radio network and a second system, used mainly by NMPC for notification of Corporate personnel in the Syracuse Headquarters, is activated via telephone through a radio in Syracuse. The various Emergency Radio networks are shown in Figure 7.3.

7.3 ASSESSMENT FACILITIES AND SYSTEMS

7.3.1 Onsite Assessment Facilities

1) Initially following an emergency, the primary on-site emergency assessment facility is the Control Room. This assessment function will be transferred to the TSC after that on-site facility has been activated. These facilities are described in Section 7.1.1. 10

2) Post accident radiological samples may be analyzed on-site in the NMPNS health physics laboratory located at Unit 1 or the Chemistry and Radioactivity Laboratory located at Unit 2 if background radiation levels permit. These in-plant laboratories has full computer/GeLi gamma spectral, gross beta and gross alpha analysis capabilities.

   In addition to the in-plant health physics laboratories, there is an on-site environmental laboratory used jointly by NMPNS and JAFNPP, located along the JAFNPP's southern restricted area fence, which can be used for post accident radiological sample analyses. This environmental laboratory has full computer/GeLi gamma spectral, gross beta and gross alpha analysis capabilities. 10

7.2.7 Public Address and Page System

This system (called Gaitronics) is located in the various NMPNS facilities and also has speakers outdoors. It is a normal communications system which can be used by all station personnel. To use it, a person selects page, pages the person required, makes an emergency announcement or requests emergency assistance. By turning off the paging function, a normal conversation can be held on one of the three channels provided.

7.2.8 Radio Systems

The NMPC has various radio frequencies assigned to them for their use. NMPNS has radios which can operate on four of these frequencies. Also, additional frequencies are assigned for the sole use of security personnel. For long distance use the signal can be broadcast to a repeater station located on the stack of the Oswego Steam Station located in Oswego. In addition to the NMPC internal networks, NMPNS also has radios which net with the Oswego County Fire Control, the Oswego County Sheriff's Department and Unit 2 construction security personnel. Personnel paging systems (beepers), which alert an individual and also relay a short message, can be used to notify personnel of an emergency. One system is activated through the Station radio network and a second system, used mainly by NMPC for notification of Corporate personnel in the Syracuse Headquarters, is activated via telephone through a radio in Syracuse. The various Emergency Radio networks are shown in Figure 7.3.

7.3 ASSESSMENT FACILITIES AND SYSTEMS

7.3.1 Onsite Assessment Facilities

1) Initially following an emergency, the primary on-site emergency assessment facility is the Control Room. This assessment function will be transferred to the TSC after that on-site facility has been activated. These facilities are described in Section 7.1.1. 10

2) Post accident radiological samples may be analyzed on-site in the NMPNS health physics laboratory located at Unit 1 or the Chemistry and Radioactivity Laboratory located at Unit 2 if background radiation levels permit. These in-plant laboratories has full computer/GeLi gamma spectral, gross beta and gross alpha analysis capabilities.

   In addition to the in-plant health physics laboratories, there is an on-site environmental laboratory used jointly by NMPNS and JAFNPP, located along the JAFNPP's southern restricted area fence, which can be used for post accident radiological sample analyses. This environmental laboratory has full computer/GeLi gamma spectral, gross beta and gross alpha analysis capabilities. 10