

PRAIRIE ISLAND NUCLEAR
GENERATING PLANT
NORTHERN STATES POWER COMPANY

EMERGENCY PLAN IMPLEMENTING
PROCEDURES

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Supt. Rad Protection

TITLE:

EMERGENCY PLAN
IMPLEMENTING PROCEDURES
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PRAIRIE ISLAND NUCLEAR GENERATING PLANT NORTHERN STATES POWER COMPANY	EMERGENCY PLAN IMPLEMENTING PROCEDURES
	Number: F3-5 Rev: 4
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Reviewed By: <i>D.A. Schuelke</i> Supt. Rad Protection	TITLE:
Approved By: <i>E.J. Watt 6-15-82</i> Plant Manager	EMERGENCY NOTIFICATIONS
OC#: <u>552</u>	

1.0 PURPOSE

This instruction delineates the notification procedures to be used during emergency conditions, defines the various emergency communications systems available at the plant, (primary and backup), and provides the necessary operating instructions for their proper use.

2.0 APPLICABILITY

This instruction SHALL apply to all Radiological Emergency Coordinators, Shift Supervisors, Emergency Directors and Shift Emergency Communicators.

3.0 PRECAUTIONS

- 3.1 Always speak in a clear, distinct voice.
- 3.2 Make messages as short and concise as possible.
- 3.3 Always have the information repeated if it was not completely understood.

4.0 PROCEDURE4.1 Shift Emergency Communicator (SEC) Responsibilities:

- 4.1.1 Report to the Control Room
- 4.1.2 Complete the "Emergency Notification Report Form", Figure 1, with assistance from the Emergency Director or Shift Supervisor.
- 4.1.3 Upon completion of the "Emergency Notification Report Form", report to the communications area of the Technical Support Center.

- 4.1.4 Request the telephone switchboard operator to transfer control of the switchboard to the TSC and request that individual to report to the TSC to control the switchboard until relieved by a backup communicator, or the emergency situation is terminated.

NOTE: Refer to Figure 8, NSP Emergency Operating Center Phone Index for specific telephone number locations.

- 4.1.5 Initiate and complete the notifications of state, local, and NSP personnel as listed on the Emergency Notification Call List, Figure 3 or Figure 4 as follows:

- (a) For a Notification of Unusual Event, use Figure 3.
- (b) For an Alert, Site Area, or General Emergency, use Figure 4.

- 4.1.6 Request local offsite support as deemed necessary. Coordinate these notifications with the control room. See Figure 7, "Supplemental Call List" for local support telephone numbers.

- 4.1.7 If the emergency has been reclassified, (i.e., escalated, down-graded, or terminated) complete the Emergency Classification Change, Figure 2, and complete the notifications of offsite authorities as follows:

- (a) For a termination from a Notification of Unusual Event, use Figure 3.
- (b) For any classification change, use Figure 4.

- 4.1.8 When the EOF becomes activated, transfer control of Offsite Notifications to the EOF.

4.2 Radiological Emergency Coordinator (REC) Responsibilities:

- 4.2.1 Complete the Emergency Notification Followup Report Form, Figure 5.

NOTE: This form does not need to be completed in its entirety prior to transmitting data to offsite authorities.

- 4.2.2 Periodically update the Minnesota Department of Health and the Wisconsin Division of Radiation Protection with the information as recorded on Figure 5, the "Emergency Notification Followup Report Form".

NOTE: When the Nearsite EOF is activated, updates to the Minnesota Department of Health and Wisconsin Division of Radiation Protection will be handled by EOF personnel.

- 4.2.3 Periodically, update the NRC with the information as recorded on Figure 5, the "Emergency Notification Followup Report Form". The Health Physics Network (HPN) should be used for the NRC notification.

FIGURE 1
INITIAL EMERGENCY NOTIFICATION REPORT

Verify that the organization/person called is correct prior to relaying emergency information.

THIS IS _____, SHIFT EMERGENCY COMMUNICATOR AT THE
(Name)
PRAIRIE ISLAND NUCLEAR GENERATING PLANT.

WE HAVE DECLARED A(N) _____ AT _____ HOURS.
(Emergency Class) (Time)

Pick one of the following:

- WE HAVE NOT HAD A RADIOACTIVE RELEASE.
- WE HAVE HAD A(N) _____ RADIOACTIVE RELEASE.
(Liquid or Airborne)

ATMOSPHERIC CONDITIONS AT THE PRESENT TIME ARE AS FOLLOWS:

WIND DIRECTION IS FROM THE _____ AT _____ MPH.
(Direction) (Speed)

THE AFFECTED SECTOR(S) IS(ARE) _____
(List sector(s) by letter designation)

THE PROTECTIVE ACTION RECOMMENDED AT THIS TIME IS:

- NONE
- SHELTER IN _____ SECTORS OUT TO _____ MILES
- SHELTER IN _____ SECTORS OUT TO _____ MILES
- EVACUATE IN _____ SECTORS OUT TO _____ MILES
- EVACUATE IN _____ SECTORS OUT TO _____ MILES
- ACTIVATE THE PUBLIC NOTIFICATION SYSTEM

Give a brief description of the emergency.

EXAMPLE ONLY
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CURRENT REVISION

PLEASE RELAY THIS INFORMATION TO YOUR EMERGENCY ORGANIZATION PERSONNEL.

Emergency Director Approval _____
Name/Date

Shift Emergency Communicator _____
Name/Date

FIGURE 2
EMERGENCY CLASSIFICATION CHANGE

Verify that the organization/person called is correct prior to relaying emergency information.

THIS IS _____, SHIFT EMERGENCY COMMUNICATOR AT THE
(Name)
PRAIRIE ISLAND NUCLEAR GENERATING PLANT.

WE HAVE RE-CLASSIFIED THE EVENT AND Escalated
 Down-graded
 The Event May Be Terminated

TO A(N): (Pick one below if escalated or down-graded is checked)

- Notification of Unusual Event
- Alert
- Site Area Emergency
- General Emergency

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CURRENT REVISION

AT _____ HOURS
(Time)

Meteorological Conditions: Wind Velocity _____

Wind Direction (From): _____ Degrees Temperature _____ °C

Atmospheric Stability Class _____ Form of Precipitation _____

Give a brief description of the emergency:

PLEASE RELAY THIS INFORMATION TO YOUR EMERGENCY ORGANIZATION PERSONNEL.

Emergency Director _____
Name/Date

Shift Emergency Communicator _____
Name/Date

FIGURE 3
EMERGENCY NOTIFICATION CALL LIST FOR A
NOTIFICATION OF UNUSUAL EVENT

GENERAL INSTRUCTIONS

- (1) The Shift Emergency Communicator SHALL make notifications to the individuals and organizations listed on this Emergency Call List.
- (2) Contact each organization or individual using the contact information listed in this Attachment.
- (3) For those notifications made by telephone, make the call as follows:

NOTE: All required contacts contained in this checklist have pre-programmed telephone numbers on the Touch-A-Matic dialers. Alternate or backup telephone numbers must be manually dialed.

- a. When the party answers, read the text of the Initial Notification Report Form.
 - b. Note the name of the individual contacted and the time of the contact.
- (4) For those notifications made by NAWAS, transmit only the information as specified in this procedure. Specific plant data, as specified on the Initial Notification Report Form, will be available to those authorities when they call back for a verification.
 - (5) Proceed to the next party on the call-list.
 - (6) If a party cannot be contacted in two attempts, use alternate or backup communication channels. If a party still cannot be reached, consider other means such as dispatching a courier, relay through another party or similar actions.
 - (7) If the parties call back for further information, note the time and the name of the individuals.
 - (8) If a party not specified on the call list requests information, refer the party to the NSP Communications Department or to the local emergency services organization in his/her community, as appropriate.

EXAMPLE ONLY
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FIGURE 3 (Continued)
EMERGENCY NOTIFICATION CALL LIST FOR A
NOTIFICATION OF UNUSUAL EVENT

NOTIFICATIONS

- (1) Notify the Minnesota Division of Emergency Services.
 Deleted (Ask for the Duty Officer)

Contact Person	Time	Initial Notification- SEC INITIALS	Verification- SEC Initials
-------------------	------	--	-------------------------------

NOTE: (1) This notification shall be made within 15 minutes of declaration of emergency class.
 (2) If NO verification is received within 30 minutes, contact the state again.
 (3) If the telephone system malfunctions, attempt to relay emergency notifications to the DES via the NSP system dispatcher.

- (2) Using the NAWAS network, notify the Wisconsin authorities in accordance with the following procedure:

- a. Pick up the NAWAS set, press the talk button and say:

"THIS IS PRAIRIE ISLAND NUCLEAR PLANT CALLING WISCONSIN WARNING CENTER ONE, WEST CENTRAL WARNING CENTER AND PIERCE COUNTY WARNING CENTER, ACKNOWLEDGE."

- b. When warning center one, west central warning center and Pierce County warning centers acknowledge, press the talk switch and say:

"PRAIRIE ISLAND NUCLEAR PLANT IS EXPERIENCING A NOTIFICATION OF UNUSUAL EVENT.
 RELAY THIS INFORMATION TO EMERGENCY GOVERNMENT IMMEDIATELY."

Warning Center I

Time	Initial Notification- SEC Initials	Verification SEC Initial
------	--	-----------------------------

West Central Warning
Center

Time	Initial Notification- SEC Initials	Verification SEC Initial
------	--	-----------------------------

Pierce County Warning
Center

Time	Initial Notification- SEC Initials	Verification SEC Initial
------	--	-----------------------------

FIGURE 3 (Continued)
EMERGENCY NOTIFICATION CALL LIST FOR A
NOTIFICATION OF UNUSUAL EVENT

NOTE: (1) This notification SHALL be made within 15 minutes of declaration of emergency class.
(2) If area or county warning centers do not acknowledge, Wisconsin Warning Center I, II or III will ring on the circuit and relay the message to appropriate warning centers.
(3) If the NAWAS System should become disabled, alternate methods of notification to Wisconsin authorities should be attempted, as follows:
(a) Wisc. DEG -- Telephone -- Deleted
(b) West Central Warning Center -- Telephone -- Deleted
(c) Pierce County Deleted
or
Radio - Channel 1

(3) Notify the local authorities by telephone as follows:

(a) GOODHUE COUNTY SHERIFF AT Deleted

Contact	Time	Initial Notification- SEC Initials	Verification SEC Initial
---------	------	---------------------------------------	-----------------------------

NOTES: (1) This notification SHALL be made within 15 minutes of declaration of emergency class.
(2) Alternate means to communicate with the Goodhue County Sheriff is the Radio System - Channel 1.

(b) DAKOTA COUNTY SHERIFF Deleted

Contact	Time	Initial Notification- SEC Initials	Verification SEC Initial
---------	------	---------------------------------------	-----------------------------

EXAMPLE ONLY
USE
CURRENT REVISION

FIGURE 3 (Continued)
EMERGENCY NOTIFICATION CALL LIST FOR A
NOTIFICATION OF UNUSUAL EVENT

NOTES: (1) This notification SHALL be made within 15 minutes of declaration of emergency class.

(2) Alternate means to communicate with the Dakota County Sheriff should be attempted in the following order:

- a. Telephone - Deleted
- b. Radio System - Channel 1
- c. Point-to-Point relay via Goodhue Sheriff.

(4) Notify the Plant Manager (or designee) to inform him of the situation
 Deleted

Person	Time	Initial Notification- SEC Initials	Verification SEC Initials
--------	------	--	------------------------------

(5) Notify the systems dispatcher
 Deleted
 the Hotline (Control Room), or
 the low-band radio link (TSC and Control Room). Time / SEC Initials

(6) Notify one of the NRC Resident Inspectors:

(a) Deleted Time / SEC Initials

OR;

(b) Deleted Time / SEC Initials

(7) Update the Radio Alert Monitor System Message Cassette as follows:

- (a) Make sure that the remote control unit 'MiRe Enable' & 'Transmit Enable' key switches are both off (Green). _____
- (b) Set tape unit selector switch to 'Record Announcement' - insert microphone in tape unit mike jack. _____
- (c) Press tape unit 'Start' switch and record 45 second prepared messages. _____

FIGURE 3 (Continued)
EMERGENCY NOTIFICATION CALL LIST FOR A
NOTIFICATION OF UNUSUAL EVENT

- NOTE: (1) Information to be recorded should include the date, time and unit status.
(2) When recording the message, speak slowly and clearly, about 3 inches from the microphone.

- (d) Set tape unit selector switch to 'Check Announcement' - press 'Start' switch and listen to recording. (Adjust volume to desired level with tape unit 'Monitor Volume' Control.) _____
- (e) Now, remove the message cassette from the tape unit and insert it into the telephone answering unit. _____
- (8) Notify or verify the Control Room has established notification of the NRC Emergency Response Center via the ENS Hotline. _____
- Time / SEC Initials

- NOTES: (1) Notification of NRC required to be made within one hour of event declaration.
- (2) If the ENS Network should become disabled, alternate methods of NRC notification should be attempted in the following order:
- | | |
|---|---------|
| (a) Commercial Telephone System to NRC Operations Center (Via Bethesda Central Office) | Deleted |
| (b) Commercial Telephone System to NRC Operations Center (Via Silver Spring Central Office) | Deleted |
| (c) Health Physics Network to NRC Operations Center | Deleted |
| (d) Commercial Telephone System to NRC Operator (Via Bethesda Central Office) | Deleted |

- (9) Inform the Shift Supervisor of the completion of the notifications. _____
- Time / SEC Initials

CALL LIST COMPLETE: TIME _____
SHIFT EMERGENCY COMMUNICATOR _____

DATE _____
EXAMPLE ONLY
USE
CURRENT REVISION

FIGURE 4
EMERGENCY NOTIFICATION CALL LIST FOR AN
ALERT, SITE AREA, OR GENERAL EMERGENCY

GENERAL INSTRUCTIONS

- (1) The Shift Emergency Communicator SHALL make notifications to the individuals and organizations listed on this Emergency Call List.
- (2) Contact each organization or individual using the contact information listed in this Attachment.
- (3) For those notifications made by telephone, make the call as follows:

NOTE: All required contacts contained in this checklist have pre-programed telephone numbers on the Touch-A-Matic dialers. Alternate or backup telephone numbers must be manually dialed.

- a. When the party answers, read the text of the Initial Notification Report Form.
 - b. Note the name of the individual contacted and the time of the contact.
- (4) For those notifications made by NAWAS, transmit only the information as specified in this procedure. Specific plant data, as specified on the Initial Notification Report Form, will be available to those authorities when they call back for a verification.
 - (5) Proceed to the next party on the call-list.
 - (6) If a party cannot be contacted in two attempts, use alternate or backup communication channels. If a party still cannot be reached, consider other means such as dispatching a courier, relay through another party or similar actions.
 - (7) If the parties call back for further information, note the time and the name of the individuals.
 - (8) If a party not specified on the call list requests information, refer the party to the NSP Communications Department or to the local emergency services organization in his/her community, as appropriate.

EXAMPLE ONLY
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FIGURE 4 (Continued)
EMERGENCY NOTIFICATION CALL LIST FOR AN
ALERT, SITE AREA, OR GENERAL EMERGENCY

NOTIFICATIONS

- (1) Notify the Minnesota Division of Emergency Services.
Deleted (Ask for the Duty Officer)

<u>Contact Person</u>	<u>Time</u>	<u>Initial Notification- SEC INITIALS</u>	<u>Verification- SEC Initials</u>
---------------------------	-------------	---	---------------------------------------

NOTE: (1) This notification shall be made within 15 minutes of declaration of emergency class.
(2) If NO verification is received within 30 minutes, contact the state again.
(3) If the telephone system malfunctions, attempt to relay emergency notifications to the DES via the NSP system dispatcher.

- (2) Using the NAWAS network, notify the Wisconsin authorities in accordance with the following procedure:

- a. Pick up the NAWAS set, press the talk button and say:

"THIS IS PRAIRIE ISLAND NUCLEAR PLANT CALLING WISCONSIN WARNING CENTER ONE, WEST CENTRAL WARNING CENTER AND PIERCE COUNTY WARNING CENTER, ACKNOWLEDGE."

- b. When Warning Center One, West Central Warning Center and Pierce County Warning Centers acknowledge, press the talk switch and say:

"PRAIRIE ISLAND NUCLEAR PLANT IS EXPERIENCING A(N) (Pick the correct class):

ALERT, or
SITE AREA EMERGENCY, or
GENERAL EMERGENCY

RELAY THIS INFORMATION TO EMERGENCY GOVERNMENT IMMEDIATELY."

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FIGURE 4 (Continued)
EMERGENCY NOTIFICATION CALL LIST FOR AN
ALERT, SITE AREA, OR GENERAL EMERGENCY

(b) DAKOTA COUNTY SHERIFF AT Deleted

Contact	Time	Initial Notification- SEC Initials	Verification SEC Initial
---------	------	--	-----------------------------

NOTES: (1) This notification SHALL be made within 15 minutes of declaration of emergency class.

(2) Alternate means to communicate with the Dakota County Sheriff should be attempted in the following order:

- a. Telephone - Deleted
- b. Radio System - Channel 1
- c. Point-to-Point relay via Goodhue Sheriff.

NOTE: IF THE EMERGENCY RESPONSE ORGANIZATION HAS PREVIOUSLY BEEN ACTIVATED BY THIS CHECKLIST, THE FOLLOWING STEPS NEED NOT BE COMPLETED FOR FURTHER ESCALATIONS.

(4) Notify the Plant Manager (or designee) to inform him of the situation
 Deleted

Person	Time	Initial Notification- SEC Initials	Verification SEC Initials
--------	------	--	------------------------------

(5) Notify the systems dispatcher
 telephone line Deleted
 the Hotline (Control Room), or
 the low-band radio link (TSC and Control Room).
 Time / SEC Initials

(6) Notify one of the NRC Resident Inspectors:

(a) Deleted
 Time / SEC Initials

OR;

(b) Deleted

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FIGURE 4 (Continued)
EMERGENCY NOTIFICATION CALL LIST FOR AN
ALERT, SITE AREA, OR GENERAL EMERGENCY

(7) Activate the Emergency Response Organization as follows:

(a) Normal Work Hours

- (1) Verify announcement to report to emergency response centers is made over public address system. _____
- (2) Contact the PI Training Center by telephone --- Deleted

NOTE: Alternate numbers should be attempted in the following order Deleted

- (3) Contact the Nuclear Technical Services Group by Deleted

NOTE: Alternate numbers should be attempted in the following order: Deleted

(b) Off-Normal Work Hours

- (1) Insert the pre-recorded tape designated "ERO Callout" into the tape unit. _____
- (2) Set the tape unit selector switch to "Answer". _____
- (3) Turn the message transmitter control unit "Transmit Enable" key switch to the ON position. The red "XMIT" lamp should light. _____
- (4) Enter Code 06 on the encoder unit and press "P". _____

NOTE: Several seconds after the last tone is heard, the tape will be transmitted 3 times - then the unit will shut off.

- (5) Verify proper operation of the radio alert monitor system by acknowledging that the TSC Radio Alert Monitor did activate. If not, repeat steps (1) through (4).

EXAMPLE ONLY
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INDEPENDENT DIVISION

FIGURE 4 (Continued)

EMERGENCY NOTIFICATION CALL LIST FOR AN
ALERT, SITE AREA, OR GENERAL EMERGENCY

- (6) If the radio alert system failed to function after 2 attempts, use the Emergency Organization Call List, Figure 5 and call all Emergency Organization Members by telephone. _____
- (7) When the transmission has ended, turn the "Transmit Enable" key switch to the OFF position. _____
- (8) Remove the message cassette from the tape unit. _____
- (8) Notify the Local Residents as follows:
 - (a) Insert the pre-recorded tape designated "Local Notifications" into the tape unit. _____
 - (b) Set the tape unit selector switch to "Answer". _____
 - (c) Turn the message transmitter control unit "Transmit Enable" key switch to the ON position. The red "XMIT" lamp should light. _____
 - (d) Enter Code 01 on the encoder unit and press "P". _____

NOTE: Several seconds after the last tone is heard, the tape will be transmitted 3 times - then the unit will shut off.

- (e) Verify proper operation of the radio alert monitor system by acknowledging that the TSC Radio Alert Monitor did activate. If not, repeat steps (a) through (d). _____
- (f) If the Radio Alert System failed to function after 2 attempts, attempt to notify one of the following local residents by telephone:
 - Ms. Rebecca Childs -- Deleted
 - or;
 - Ms. Mira Childs -- Deleted
- (g) When the transmission has ended, turn the "Transmit Enable" key switch to the OFF position. _____
- (h) Remove the message cassette from the tape unit and insert it into the telephone answering unit. _____

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FIGURE 4 (Continued)

EMERGENCY NOTIFICATION CALL LIST FOR AN
ALERT, SITE AREA, OR GENERAL EMERGENCY

- (9) During Off Normal Work Hours ONLY,

NOTIFY THE NSP RED WING SERVICE CENTER BY TELEPHONE
(Deleted) AND REQUEST THE NSP ON-CALL TROUBLE SHOOTER
REPORT TO THE NSP RED WING SERVICE CENTER TO UNLOCK
THE FACILITIES FOR THE NSP RADIATION SURVEY TEAMS.

_____/_____
Time /SEC INITIALS

- (10) Notify or verify the Control Room has established
notification of the NRC Emergency Response Center
via the ENS Hotline.

_____/_____
Time /SEC INITIALS

- NOTES: (1) Notification of NRC required to be made within
one hour of event declaration.
- (2) If the ENS Network should become disabled, alternate
methods of NRC notification should be attempted in
the following order:
- | | |
|---|---------|
| (a) Commercial Telephone System
to NRC Operations Center
(Via Bethesda Central Office) | Deleted |
| (b) Commercial Telephone System
to NRC Operations Center
(Via Silver Spring Central Office) | Deleted |
| (c) Health Physics Network to
NRC Operations Center | Deleted |
| (d) Commercial Telephone System
to NRC Operator
(Via Bethesda Central Office) | Deleted |

- (11) Notify American Nuclear Insurers (ANI) by Telephone -
Deleted

_____/_____
Time /SEC Initials

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NOTES: (1) During Normal Office Hours (8:00 a.m. - 4:00 p.m.), this number will be answered by a receptionist who will transfer the call to an appropriate individual.

(2) During Off Normal Office Hours, an answering machine will intercept the call and notify a designated ANI Staff Member. Please leave your name, company, and telephone number. The ANI member will return the call to obtain further information.

(12) Inform the Emergency Director of the completion of the notifications.

Time / SEC Initials

CALL LIST COMPLETE: TIME _____ DATE _____

SHIFT EMERGENCY COMMUNICATOR _____

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FIGURE 5
EMERGENCY ORGANIZATION CALL LIST

INSTRUCTIONS

- (1) This call list SHALL be used to activate the ONSITE Emergency Response Organization during off-normal work hours, should the Radio Alert Monitor System Fail.
- (2) Use the following notification guidelines:
 - (a) Contact each individual in the order shown;
 - (b) When the individual answers, request that individual to report to the plant;
 - (c) Proceed to the next individual on the call list;
 - (d) If an individual cannot be contacted in two attempts, bypass that individual and proceed down the list. After the other notifications are complete, re-attempt to contact any bypassed individuals.

NOTIFICATIONS

Plant Management (OC Members)

Deleted

Radiation Protection Group

Deleted

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FIGURE 5
EMERGENCY ORGANIZATION CALL LIST

Radiation Protection Group (Continued)

Deleted

Maintenance/Electricians

Deleted

I & C Group

Deleted

Engineers

Deleted

EOF Coordinator

Deleted

COMPLETED: DATE _____ TIME _____

SHIFT EMERGENCY COMMUNICATOR _____

FIGURE 6
EMERGENCY NOTIFICATION FOLLOWUP MESSAGE*

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Date _____

Sample Time _____ AM/PM

1. Location of incident: Prairie Island

2. Class of emergency: _____

3. Type of actual or projected release: () airborne
 () waterborne
 () surface spill

4. Height of release: () ground level

Relative _____ %	Noble Gases _____ uCi/sec
Quantity: _____ %	Iodines _____ uCi/sec
_____ %	Particulates _____ uCi/sec

Estimated quantity of radioactive material released or being released: _____ curies

5. Meteorological Conditions: Wind Velocity _____ mph

Wind Direction (from): _____ degrees Temperature _____ °C

Atmospheric Stability Class _____ Form of precipitation _____

6. Release is expected to continue for _____ hours.

7. Projected	Whole Body	Thyroid	Sectors Affected
dose rates: S.B. _____	mrem/hr _____	mrem/hr _____	_____
2 miles _____	mrem/hr _____	mrem/hr _____	_____
5 miles _____	mrem/hr _____	mrem/hr _____	_____
10 miles _____	mrem/hr _____	mrem/hr _____	_____
Project S.B. _____	mrem _____	mrem _____	_____
integrated 2 miles _____	mrem _____	mrem _____	_____
dose at: 5 miles _____	mrem _____	mrem _____	_____
10 miles _____	mrem _____	mrem _____	_____

*Complete as much of the form as information availability and time allows.
 All blanks need not be completed.

FIGURE 6 (Continued)
EMERGENCY NOTIFICATION FOLLOWUP MESSAGE*

8. Survey Results

TIME	SURVEY POINT	READING
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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- 9. Estimate of any surface radioactive contamination: _____ dpm/100 cm²
- 10. Chemical and physical form of released material: _____
- 11. Emergency response actions underway: _____

- 12. For liquid release to the river, estimate release volume, release activity and estimated time for concentration to reach public water:

- 13. Recommended emergency actions, including protective actions:

- 14. Request for any needed support by offsite organizations:

- 15. Prognosis for worsening or termination of event based on plant information:

Emergency Director

FIGURE 7
SUPPLEMENTAL CALL LIST

	<u>OFFICE</u>	<u>HOME</u>
<u>MINNESOTA DEPARTMENT OF HEALTH</u>	Deleted	
Alice Dolezal		Deleted
William Breitenstein		Deleted
Tom Hensch		Deleted
Bruce Denny		Deleted
Dr. R. DeRoos		Deleted
Dr. George Petterson		Deleted
<u>WISCONSIN DIVISION OF HEALTH, RAD. PROT. SECTION</u>	Deleted	
Lawrence J. McDonnell, Chief		Deleted
<u>LOCAL SUPPORT SERVICES</u>		
Goodhue County Civil Defense Director	Deleted	
Red Wing Civil Defense Director	Deleted	
Red Wing Police Department	Deleted	
Red Wing Fire Department	Deleted	
St. John's Hospital, Red Wing	Deleted	
Ambulance Service, Red Wing	Deleted	
<u>OTHER PERSONNEL AND AGENCIES</u>		
Dept. of Energy (Radiological Assistance)	Deleted	
Chicago, Milwaukee, St. Paul and Pacific Railroad (Telegraph Operator - LaCrosse, WI.) (Trainmaster)	Deleted	
Burlington, Northern Incorporated Railroad (Dispatcher, Cicero, IL.)	Deleted	
U.S. Coast Guard, Auxiliary, Ft. Snelling	Deleted	
U.S. Coast Guard, St. Louis Office	Deleted	
U.S. Coast Guard, Marine Safety Office, St. Paul	Deleted	

FIGURE 7 (Continued)
SUPPLEMENTAL CALL LIST

WESTINGHOUSE

NOTE: Inform one Westinghouse contact, using the list in the order shown. Be prepared to discuss as many facts as are available at the time of the call and identify a cognizant individual to provide continuing communications and updates to Westinghouse.

	<u>Office/Home/HHL</u>
<u>Field Service Manager</u>	
Bob Grim	Deleted
<u>Service Response Manager</u>	
Joe Leblang	Deleted
John Miller	Deleted
<u>Emergency Response Director</u>	
Hank Ruppel	Deleted
<u>Emergency Response Deputy Director</u>	
Ron Lehr	Deleted

FIGURE 8

NSP EMERGENCY OPERATING CENTER PHONE INDEX

1. ASSEMBLY POINTS
 - (a) Screenhouse

Deleted
 - (b) Construction Office Building

Deleted

2. OPERATIONAL SUPPORT CENTER (OSC)
 - (a) Deleted
 - (b) Deleted

3. TECHNICAL SUPPORT CENTER (TSC)
 - (a) NRC Office Area
 - (1) Deleted
 - (2) Deleted
 - (b) Westinghouse & NSP Engineers Area
 - (1) Deleted
 - (2) Deleted
 - (3) Deleted
 - (4) Deleted
 - (5) Deleted
 - (6) Deleted
 - (c) Radiation Protection Area
 - (1) Deleted
 - (2) Deleted
 - (3) Deleted
 - (4) Deleted
 - (5) Deleted
 - (6) Deleted
 - (7) Deleted

FIGURE 8

NSP EMERGENCY OPERATING CENTER PHONE INDEX

(Continued)

(d) Conference Table Area

- (1) Deleted
- (2) Deleted
- (3) Deleted
- (4) Deleted
- (5) Deleted
- (6) Deleted
- (7) Deleted

(e) Communications Area

- (1) Deleted
- (2) Deleted
- (3) Deleted
- (4) Deleted
- (5) Deleted

(f) Status Board Area

- (1) Deleted (Rad. Prot. Status Board)
- (2) Deleted (Plant Status Board)

4. NEAR-SITE EMERGENCY OPERATING FACILITY

(a) Command Center Area

- (1) Deleted
- (2) Deleted
- (3) Deleted

(b) Radiation Protection Support Supervisor Area

- (1) Deleted

(c) Records/Communications Coordinator/Logistics Coordinator Area

- (1) Deleted

(d) State and Local Government Area

- (1) Deleted

(e) Nuclear Regulatory Commission (NRC) Area

- (1) Deleted

FIGURE 8

NSP EMERGENCY OPERATING CENTER PHONE INDEX

(Continued)

(f) Emergency/Recovery Manager Area

- (1) Deleted
- (2) Deleted

(g) EOF Coordinator Area

- (1) Deleted

(h) Offsite Survey Team Area

- (1) Deleted
- (2) Deleted

(i) EOF Media Liaison Area

- (1) Deleted

5. HEADQUARTERS EMERGENCY CENTER (HQEC)

Deleted

Deleted

Deleted

Deleted

ATTACHMENT A

TELEPHONE COMMUNICATIONS NETWORK

I. SITE TELEPHONE COMMUNICATIONS

1. Dimension 2000 PBX

Normal communications are provided by a Dimension 2000 PBX. Three separate Dimension PBX attendant consoles are used in the system. All have identical functions and only one can be operational at a time. For normal business hours, all incoming calls are answered by the receptionist located on the 5th floor of the Administration Building. During backshifts and weekends, the console at the secondary alarm station is activated. The third console, located in the Technical Support Center Communications area, will be activated during emergency plan implementation.

The Dimension System controls approximately 265 main stations and 75 extensions. It is designed with a high degree of fault detection and diagnostic capabilities. Additional reliability is provided by a backup duplicate common control unit. If there are certain PBX failures or power failure, all stations would normally be inoperative. However, automatic operation of transfer relays in the emergency transfer panels bridge preassigned stations directly to the trunk lines. Assigned stations are located in control rooms, shift supervisors office, access control, administrative office, and technical support center. A key switch to manually cut over these preassigned stations is located within the telephone equipment room if the need exists.

Terminated within the Dimension System are 7 trunk lines and 7 tie lines. The trunk lines are [REDACTED] through [REDACTED], of which [REDACTED] is incoming only, while [REDACTED] through [REDACTED] have incoming and outgoing capabilities. The seven two-way tie lines connect the Dimension 2000 PBX to the general office exchange via the NSP microwave relay system.

Normal power for the system is provided by an instrument inverter which in turn is supplied by a diesel backed 480 VAC safeguards motor control center and a 125 VDC station battery. An alternate source is provided by a 5KVA 480/120V transformer supplied by the 480 VAC diesel backed safeguards motor control center.

2. Gai-Tronics Page System

Gai-Tronics paging system is also available and is used to call personnel over the plant and yard speakers as well as to issue plantwide instructions from GTC stations located throughout the plant. This system is tied to the Dimension 2000 PBX, making access to the paging system possible from all telephone

stations on site. Any one station tying up access to the paging system can be overridden with the executive override function from the operators console or the plant manager's office.

3. Phillips M100 Intercom System

Additional communication capability is provided by the Phillips M100 Intercom System. Stations are installed throughout the plant with a two digit number identifying its location.

4. Sound Powered Phone System

Sound powered phones are available for use within the plant and are primarily used for operations and maintenance coordination. Phone jacks are located throughout the Containment, Auxiliary Building, Turbine Building and Control Room.

II. TECHNICAL SUPPORT CENTER (TSC) TELEPHONE COMMUNICATIONS

1. Touch-A-Matic Dialer

The TSC Communications area is equipped with two automatic dialers. They function as a 31 name and number directory with an automatic memory. Numbers are programmed into the memory as labeled on the face plate. Unit #1 is tied to a plant extension and requires that the memory button be depressed twice. The touch of the memory button gains access to an outside line. Once the second dial tone is heard in the receiver, the memory button should be depressed again. This will complete the dialing of the number. Unit #2 is a self contained Touch-A-Matic and is connected directly to an outside line. The memory button needs only to be depressed once to automatically dial the complete number.

Unit #1 has numbers preprogrammed for all the State and County Agencies, plus the EOF Coordinators and Engineers, Maintenance, Electrical, and I&C personnel required for notification procedures. Unit #2 is programmed for Operations Committee members and all the Health Physics personnel.

The last number manually dialed is automatically recorded into the last number dialed position of the directory. Each number in this position is automatically replaced by the number previously manually dialed.

2. Dimension PBX Attendant Console

Located in the communications area, the console once activated has complete control of all incoming communications. The console

is activated by calling the console in operation and instructing them to unplug the handset receiver.

Operating Console on backshifts and weekends - Secondary Alarm Station

Operating Console during normal working hours - Receptionist in Administration Bldg.

The TSC console is then made operational by plugging its handset into the board. At no time should two consoles be operated at the same time.

The console should only be operated by the Shift Emergency Communicator (SEC) or someone designated by the SEC.

3. Stations, Extensions, and Hot Lines

Individual telephone communication from the TSC is provided for by fifteen separate plant stations with six extensions of these stations, four General Office extensions, and four Eau Clair FX lines. Five separate dedicated circuits are also available with points of connection as follows:

1. TSC, EOF & P.I. Control Room - auto ring down
2. TSC, EOF & State Capital - ring on demand
3. TSC, EOF & Red Wing EOC - ring on demand
4. TSC, EOF & HQEC - ring on demand
5. TSC & EOF - auto ring down

The ring on demand hot lines have a small white button located on the side of the telephone. One touch of the button causes a 20 second ringing on the other two points connected to the circuit. When one of the two other points picks up the line, the ringing ceases. The third party can be contacted if necessary by reinitiating the ring cycle. The auto ring down is initiated by picking up the receiver. Ringing ceases when one other point picks up the line.

4. Phillips M100 Intercom

Two stations of the Phillips M100 intercom station are located in the TSC. One is in the Radiation Protection Area while the other is in the communications area.

5. Emergency Notification System (ENS)

The ENS is a leased private line between Prairie Island and the NRC Incident Response Center. The ENS is the primary means for reporting emergencies and other significant events to the NRC/IC Headquarters. When the NRC Operations Center is activated, the ENS becomes the dedicated line to the NRC for the transmission of operational data.

Red phones labeled (GPO 1504) are located in the Control Room and the Technical Support Center. To activate the ENS line, proceed as follows:

- (1) Lift receiver. This causes the telephone console in the Operation Center in Bethesda, Maryland to ring automatically.
- (2) The NRC Duty Officer will answer.
- (3) Calmly identify yourself and give the NRC Duty Officer the required information.
- (4) Designate an individual to maintain continuous communication with the NRC staff member in the Operations Center until the NRC decides that the event has been successfully terminated or additional communication is unnecessary.

NOTE: If the incident has little potential for impacting the public health and safety, the NRC Duty Officer may only collect relevant information and then terminate the conversation. However, if the event is of a more serious nature, the Duty Officer will maintain an open and continuous line with the site until the matter is resolved.

6. Health Physics Network (HPN)

The Health Physics Network (HPN) is a leased, private line system which connects all the nuclear power plants, the NRC Operations Center, and the NRC Regional Office (Glen Ellyn).

It is primarily intended for use during emergencies and will function as the dedicated line between the Health Physics personnel, the Operations Center in Bethesda, MD and the NRC Regional Office.

In the event of a site emergency, the NRC will activate the HPN. Before NRC Health Physics specialists arrive on site, the NRC Operations Center communicator may request information from plant personnel.

NOTE: The HPN is a restricted network and may not be used by nongovernment employees at any time unless a significant event has to be reported and both the ENS and the commercial telephone lines are out of service.

Extensions for the HPN are at the following locations:

- (1) HP Office
- (2) Technical Support Center
- (3) NRC Resident Inspector's Office

If necessary to use the HPN phone:

- (1) Lift receiver. NO DIAL TONE IS HEARD.
- (2) Dial the required number:

NRC Operations Center
- Region III Office

NOTE: a. There will be audible ringing signal dial tone after dialing the desired code. Ringing is heard at the called station to indicate an incoming call. This ring stops when the telephone is answered or at the end of thirty seconds. You may dial again if the call has not been answered in approximately 30 seconds.

b. 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.

7. National Warning System (NAWAS)

The National Warning System (NAWAS) is a private wire system provided by the Federal Government to disseminate emergency information of a National or International nature. The National Primary input location is the North American Air Defense (NORAD) Command Center in the Cheyenne Mountains, Colorado. There are over 2000 terminals on this system in federal, military and state designated locations.

The Wisconsin Division of Emergency Government (DEG) is responsible for maintaining a 24-hour statewide warning system as part of the National Warning System (NAWAS). The Prairie Island NAWAS is part of the Wisconsin State National Warning System. In Wisconsin, there are three (3) state warning centers. These warning centers have operational control over all terminals serving Wisconsin (including Prairie Island). This system is so designated that only the State Warning Point can communicate with terminals outside of Wisconsin. All terminals within Wisconsin are on a "Party Line" basis, in that any terminal talking on the circuit is heard by all other terminals on the Wisconsin circuit. In Wisconsin, NAWAS terminals are located at all seven district State Patrol Headquarters radio dispatch rooms and Area Emergency Government EOC's, 26 county warning centers, the five nuclear power plants and six U.S. Weather Station Offices. The State Patrol and county warning centers relay to and from the other 46 county non-NAWAS centers by radio.

The Prairie Island NAWAS talks directly to the State Warning Centers, the Weather Station Offices, and to the county sheriffs. The State Warning Centers and the county sheriffs further disseminate information to emergency organizations and personnel by other communications systems.

The state-wide emergency telephone number Deleted is the alternate communications backup for notification to the Wisconsin Division of Emergency Government.

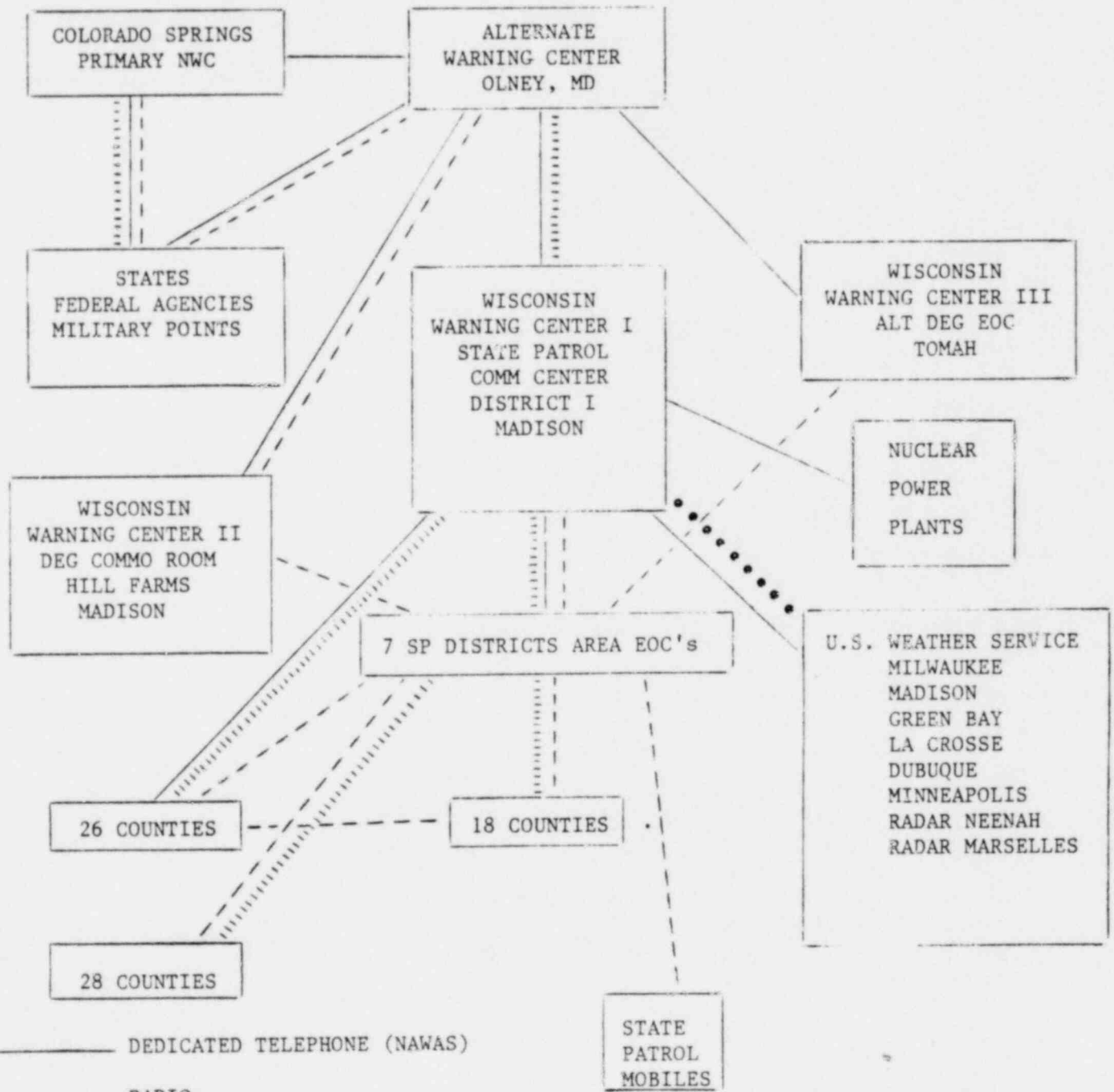
THE FOLLOWING WILL BE USED IN THE EVENT AN INCIDENT AT PRAIRIE ISLAND REQUIRES A RESPONSE FROM STATE AND LOCAL AGENCIES:

- (1) DETERMINE THE CLASS OF EMERGENCY.
- (2) PICK UP THE NAWAS SET, PRESS TALK BUTTON AND SAY:
"THIS IS PRAIRIE ISLAND NUCLEAR PLANT CALLING WISCONSIN WARNING CENTER ONE, WEST CENTRAL AREA WARNING CENTER AND PIERCE COUNTY WARNING CENTER, ACKNOWLEDGE."
- (3) WHEN WARNING CENTER ONE, WEST CENTRAL AREA AND PIERCE COUNTY WARNING CENTERS ACKNOWLEDGE, PRESS TALK SWITCH AND SAY:
"PRAIRIE ISLAND NUCLEAR POWER PLANT IS EXPERIENCING A:
"NOTIFICATION OF UNUSUAL EVENT" (least serious); OR
"ALERT"; OR
"SITE AREA EMERGENCY"; OR
"GENERAL EMERGENCY" (most serious)
"RELAY THIS INFORMATION TO EMERGENCY GOVERNMENT IMMEDIATELY."

- NOTES:
- a) IF AREA OR COUNTY WARNING CENTERS DO NOT ACKNOWLEDGE, WISCONSIN WARNING CENTERS I, II, OR III WILL RING ON THE CIRCUIT AND RELAY THE MESSAGE TO APPROPRIATE WARNING CENTERS.
 - b) DUTY OFFICERS AND EMERGENCY GOVERNMENT OFFICIALS AT STATE AND LOCAL AGENCIES WILL INITIATE RESPONSE IN ACCORDANCE WITH CURRENT PLANS AND SOP'S.

ATTACHMENT A (Continued)

NATIONAL WARNING SYSTEM
(NAWAS)



———— DEDICATED TELEPHONE (NAWAS)

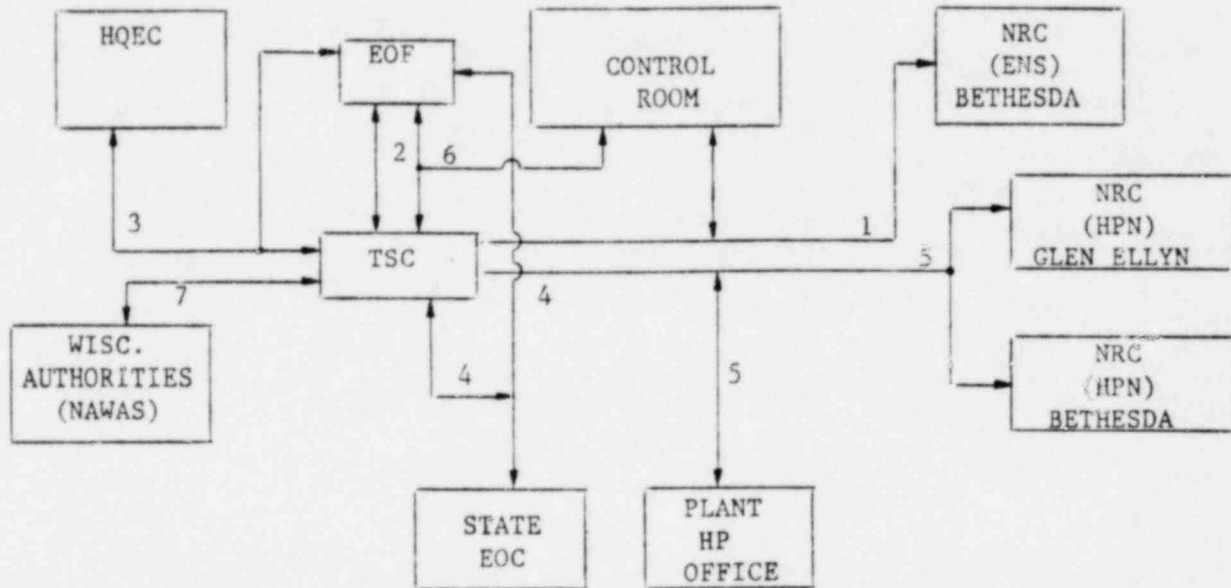
- - - - - RADIO

..... WEATHER TELETYPE

- . - . - . TELETYPE (TIME)

(ALL POINTS, EXCEPT MOBILES, INTERCONNECTED BY COMMERCIAL TELEPHONE)

SUMMARY OF
PRAIRIE ISLAND HOTLINE NETWORK



<u>Number</u>	<u>Name</u>	<u>Station</u>
1	Emergency Notification System (ENS)	Primary means for reporting emergencies and other significant events to the NRC Headquarters in Bethesda, Maryland. ENS phones are located in the Control Room and TSC.
2	TSC - EOF	2 point auto ring between the TSC and EOF. Either station can activate the circuit.
3	TSC - EOF - HQEC	3 point ring on demand between the TSC, EOF, and HQEC. Each station can activate the circuit.
4	TSC - EOF - State EOC	3 point ring on demand between the TSC, EOF, and State EOC. Each station can activate the circuit.
5	Health Physics Network (HPN)	Multiple station line between the TSC, Plant HP Office, NRC Glen Ellyn, & other utilities. This is a two digit ring telephone.
6	TSC - EOF - Control Room	3 point auto ring between TSC, Control Room, and EOF. Any station can activate circuit.
7	TSC - National Warning System (NAWAS)	Dedicated Line to Wisc. Warning Center I, II, and III, Regional Warning Center, and County Warning Center.

ATTACHMENT B
RADIO COMMUNICATIONS NETWORK

I. MOTOROLA RADIO SYSTEM

This radio system is capable of being operated in either a normal (clear-uncoded) mode or in a private (DVP-digital voice protection) mode.

In the clear (DVP-OFF) mode, all communications can be monitored by scanner receivers. In the private (DVP-ON) mode, a standard receiver or scanner cannot monitor your communications. In the 'DVP-ON' mode, the audio quality is degraded due to the encoding/decoding process. This is a normal condition.

1. Motorola Radio Console

Three (*) radio consoles provide the heart of the radio system. They are all identical with respect to function but not appearance. The consoles are located in the Control Room, TSC, and EOF. All contain the same channels and have an intercom feature between the consoles. The control station for the Digital Voice Protection (DVP) is the TSC console. Indication lights on the face of the console give the status of the transmitter/receiver mode, coded or uncoded operation.

Check the status lamp located beside the 'DVP-ON/OFF' switch on the TSC control unit. Operate the 'DVP-ON/OFF' switch slowly through one complete on/off cycle, then operate it as necessary to put the system into the 'DVP-ON' or 'DVP-OFF' mode.

NOTE: The 'DVP-ON/OFF' switch is a momentary spring-return type. Each time you depress the switch, a signal is sent to the remote transmitter turning the DVP system off or on, with the status lamp on the control unit indicating the current transmitter DVP mode. However, if the switch is improperly operated (i.e. twice in succession, very rapidly) the indicator lamp will follow the switch but the actual transmitter status will not change properly, resulting in the transmitter being in the opposite DVP mode to that indicated by the lamp on the TSC console.

All consoles are able to monitor the selected channel as well as the unselected channels. Independent volume controls are provided for both. Frequency 1 and frequency 2 are banded together and are one in the same. Call lights on the verticle portion of the console indicate which channel information is being received on. The second row of channel selection buttons on the TSC console are not connected.

(* EOC Radio Console Proposed for August 82)

8 Channels give communication ability for:

CH1 (60 watt Simplex) Goodhue County EOC - Goodhue County Sheriff's office, Red Wing, MN

Dakota County EOC - Dakota County Sheriff's office, Hastings, MN

Pierce County EOC - Pierce County Sheriff's office, Ellsworth, WI

CH2 (100 watt repeater) - 10 radiation monitoring team portables - F1 or F2.

CH3 (100 watt repeater) - 10 plant portables - F1.

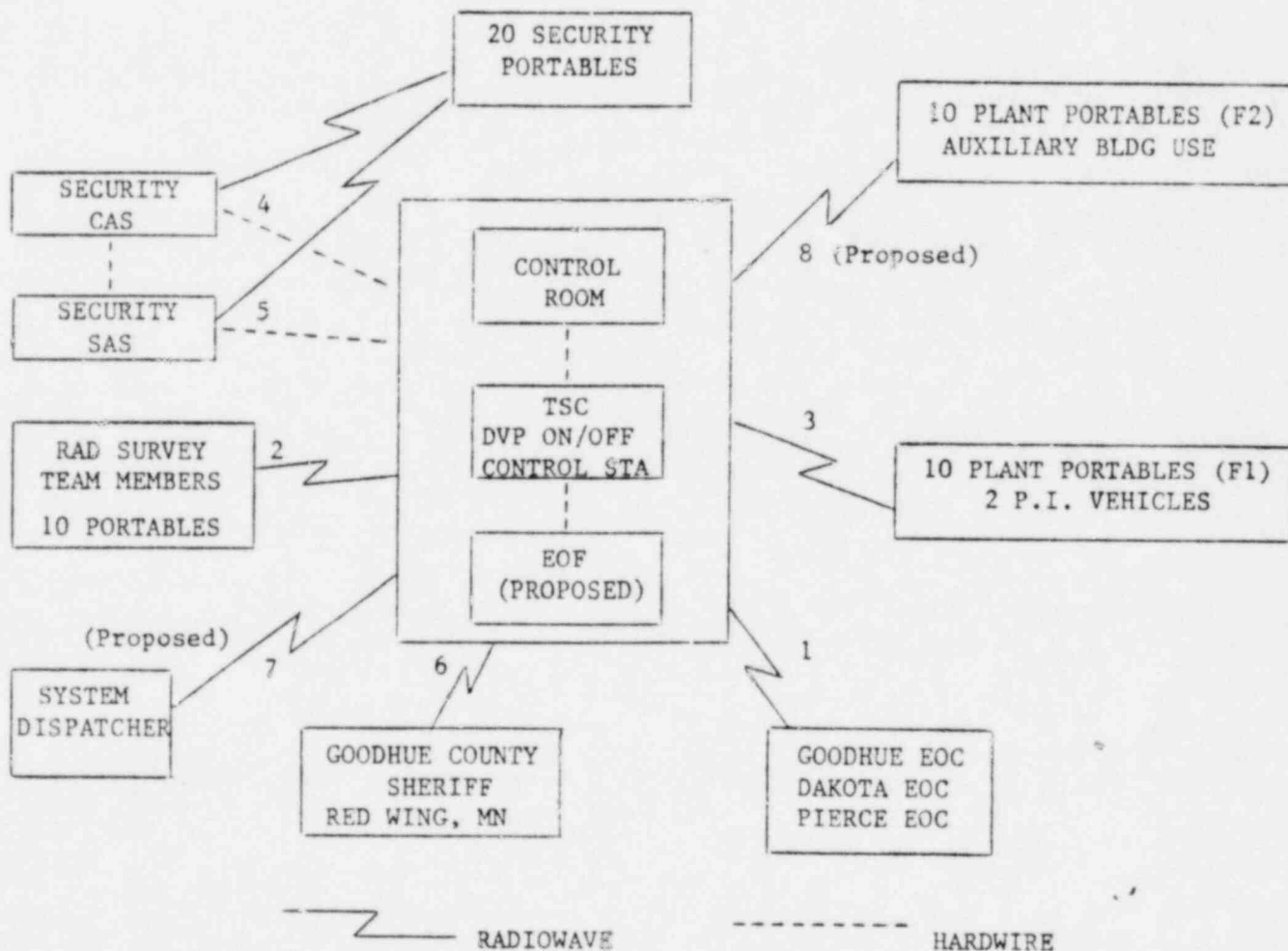
CH4 (60 watt Simplex) - 20 security portables - F1 (primary freq)

CH5 (60 watt Simplex) - 20 security portables - F2 (secondary freq)

CH6 (60 watt Simplex) - Goodhue County Sheriffs office - Red Wing, MN

CH7 - No Assignment

CH8 (12 watt Simplex) - Auxiliary Building (Proposed July 82) F2 of the plant portables.



2. Motorola Portable Handie-Talkie (Model MX350)A. Special Instructions

- (1) Do not separate battery pack from radio. This separation could cause loss of DVP feature and it would have to be recoded. The encoder and instructions are located in the communications area of the TSC if needed.
- (2) Radios may be left in charger after full charge signal (green light) is on. You may leave volume turned "on" in charger; however, you must never transmit while radio is in the charger.
- (3) External antenna jack located on "press to talk" switch side near the top of the radio provides an extended range when an antenna is used with this set. All Radiation Monitoring Team radios are provided with external antennas.
- (4) A compatible headset is available for use with this portable. When connected to the headphone plug (on top of set) the headset earphones and microphone displaces the built in speaker and microphone. This accessory provides noise control when required.

B. Radio Operation





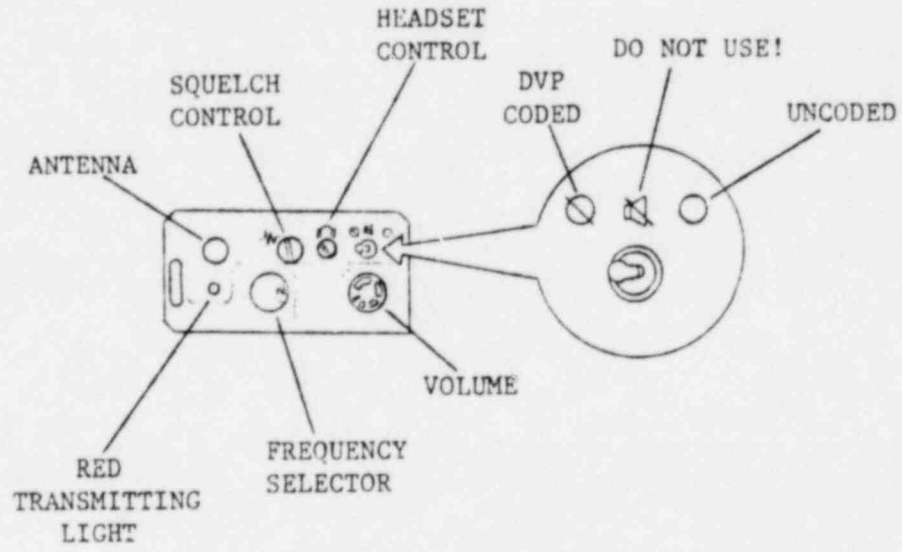
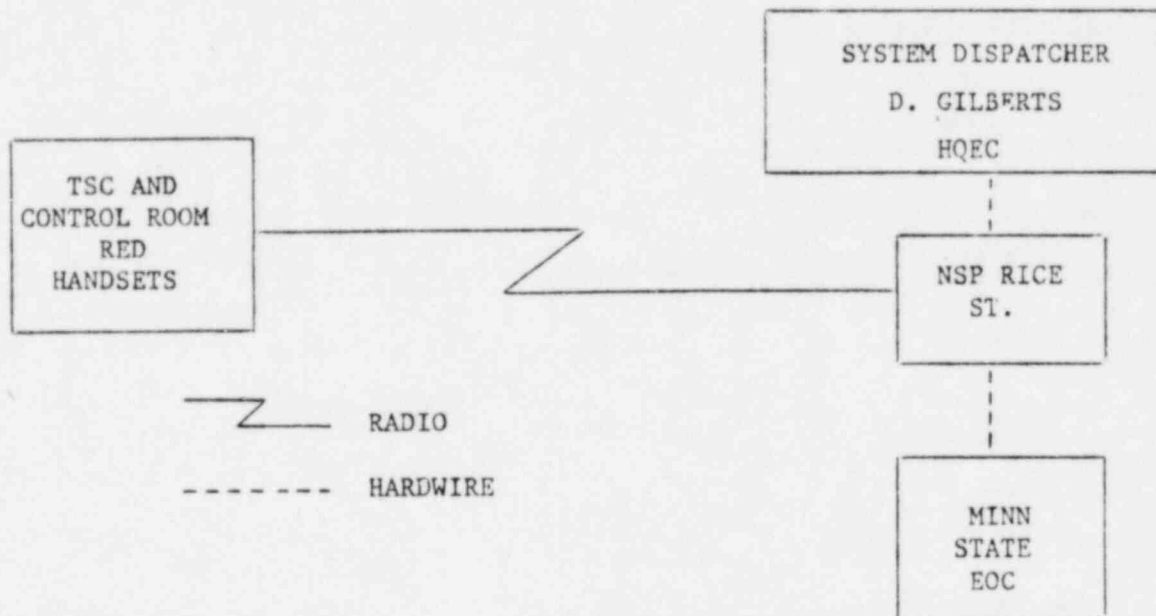
- (1) Knob on top marked F1 and F2 is a frequency selector switch. On the plant portables F1 works on CH3 of radio console; F2 works on CH8 of the radio console. The radiation monitoring portables have F1 and F2 banded together.
- (2)  is the squelch control - it should be positioned to just remove extraneous receiving noises.
- (3) The knob marked    provides a choice of the DVP position (left), clear coded position (center) and clear uncoded position (right). To protect your messages, always use the DVP position. NEVER USE THE CENTER POSITION!
- (4) The red light on top will be on during transmitting. It is also a check for battery status. (Weak indicates low battery power.)
- (5) Operate radio similar to other portables, using the 2" distance between mouth and the microphone grill, speak clearly, and say when your transmission is complete. Use reasonable volume and squelch.

ILLUSTRATION MOTOROLA PORTABLE HANDIE TALKIE MODEL MX350



II. LOW BAND PAGING SYSTEMPROCEDURE

1. To contact the System Dispatcher:

Lift the handset, push the push-to-talk switch and say:

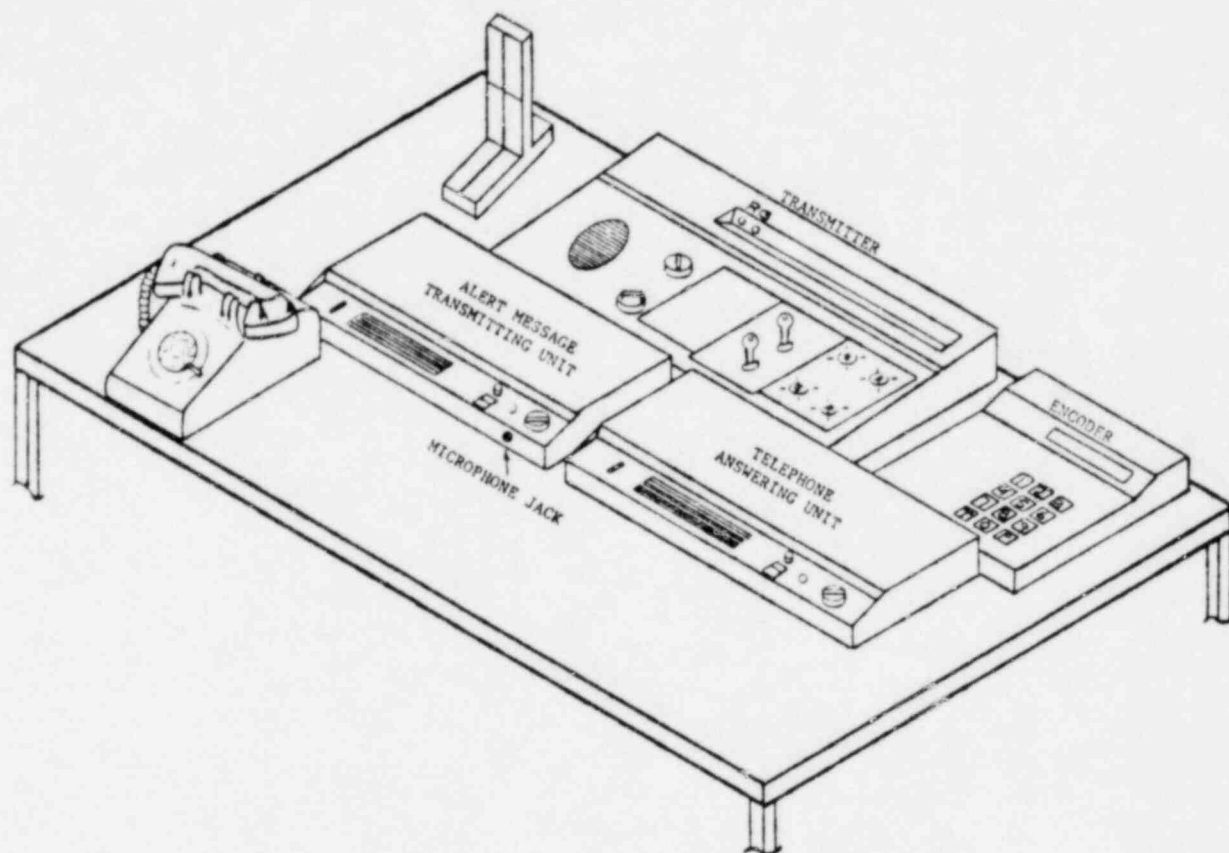
"PRAIRIE ISLAND TO SYSTEM DISPATCHER."

2. To contact the Minn. State EOC (See Note f):

Lift the handset, push the push-to-talk switch and say:

"PRAIRIE ISLAND TO EMERGENCY OPERATIONS CENTER."

- NOTES:
- (a) The System Dispatcher can activate the receiver at the plant.
 - (b) The plant can activate the receiver at the System Dispatcher and the HQEC (when connected).
 - (c) The state can activate the Prairie Island receiver.
 - (d) Each station can monitor each channel.
 - (e) The HQEC can activate the receiver at the plant.
 - (f) The State EOC must first be manned and the radio phone activated by the Duty Officer.

III. RADIO ALERT MONITOR SYSTEMGENERAL

The Radio Alert (RA) System is a one-way radio transmission system from the plant to the receiver. The transmitter is located in the onsite Technical Support Center with receivers installed in the homes and/or offices of the following three groups:

1. Local Residents
2. Civil Defense
3. Prairie Island Emergency Organization Personnel

The transmitter unit consists of: (a) message recorder; (b) message transmitter; (c) microphone; (d) telephone answering unit; (e) telephone; and (f) code selector.

When the RA System is activated, a tone will be heard by the receiver. The pre-recorded message will then be automatically played three times by the Alert Radio Message Unit. Upon completion of the transmission, the pre-recorded tape is then placed into the telephone answering unit. If an individual is not home when the unit is activated, a red light on the receiver will indicate that a message has been transmitted via the Radio Alert System. That individual may then call the number indicated on his receiver (██████) and the pre-recorded tape will play the message over the phone.

The microphone will allow plant personnel to transmit messages which are not detailed and pre-recorded.

The code numbers for the various receiver groups are:

1. Local Residents - 01
2. Civil Defense - 04
3. Prairie Island Emergency Organization Personnel - 06

INSTRUCTIONS

The following details some of the various specific operating instructions:

A. To Record the Message Cassette:

- (1) Make sure that the remote control unit 'Mike Enable' and 'Transmit Enable' key switches are both off (Green).
- (2) Set tape unit selector switch to 'Record Announcement' - insert microphone in tape unit mike jack.
- (3) Press tape unit 'Start' switch and record 45 second prepared messages.
- (4) When recording the message, speak slowly and clearly about 3 inches from the microphone.
- (5) Set tape unit selector switch to 'Check Announcement' - press 'Start' switch and listen to recording. (Adjust volume to desired level with tape unit 'Monitor Volume' Control) - if satisfactory, proceed.

B. To Test Entire Alert Sequence:

- (1) Insert proper recorded cassette in tape unit.
- (2) Set tape unit selector switch to 'Answer'.
- (3) Set up desired group code on encoder - Press 'P' (Page) button. Tones will be heard on the remote control unit. Adjust its volume control to the desired level.
- (4) 18 seconds after the 2nd tone is heard, the 45 second recorded message will be heard 3 times. Then the unit will shut off.

C. To Transmit an Alert Message:

- (1) Insert the proper recorded message cassette into the tape unit.

- (2) Set the tape unit selector switch to 'Answer'.
- (3) Turn the remote control unit 'Transmit Enable' key switch on. (Red 'XMIT' lamp will light.)
- (4) Set up desired group code on encoder - press 'P' (Page) button. If other groups are to be alerted to receive the same message, enter the next code or codes as soon as the preceding tones have finished.

The rest of the sequence is automatic - several seconds after the last tone has been transmitted, the 45 second recorded message will be transmitted 3 times - then the system will shut off.

- (5) Now, remove the message cassette from the tape unit and insert it into the telephone answering unit.

D. To Send a Live Microphone Transmission:

- (1) Turn the remote control unit 'Mike Enable' and 'Transmit Enable' key switches both on. (Red lamps will light.)
- (2) Press 'Transmit' paddle on microphone and transmit desired message.

- NOTE:
- (1) Any message sequence, recorded or live, can be aborted at any time simply by turning the remote control unit 'Transmit Enable' key switch off. (Green 'Test' lamp will light.)
 - (2) None of the volume controls on any of the units affect the volume of the transmitted message. They are for your convenience in monitoring the message.
 - (3) In case the automatic alert sequence has been inadvertently started without a tape in the message unit, simply press the blue 'Reset' button on the alert radio message unit - insert the proper tape message, and start the sequence over.

5. Emergency Notification System (ENS)

The ENS is a leased private line between Prairie Island and the NRC Incident Response Center. The ENS is the primary means for reporting emergencies and other significant events to the NRC/IC Headquarters. When the NRC Operations Center is activated, the ENS becomes the dedicated line to the NRC for the transmission of operational data.

Red phones labeled (Glen Ellyn 504) are located in the Control Room and the Technical Support Center. To activate the ENS line, proceed as follows:

- (1) Lift receiver. This causes the telephone console in the Operation Center in Bethesda, Maryland to ring automatically.
- (2) The NRC Duty Officer will answer.
- (3) Calmly identify yourself and give the NRC Duty Officer the required information.
- (4) Designate an individual to maintain continuous communication with the NRC staff member in the Operations Center until the NRC decides that the event has been successfully terminated or additional communication is unnecessary.

NOTE: If the incident has little potential for impacting the public health and safety, the NRC Duty Officer may only collect relevant information and then terminate the conversation. However, if the event is of a more serious nature, the Duty Officer will maintain an open and continuous line with the site until the matter is resolved.

6. Health Physics Network (HPN)

The Health Physics Network (HPN) is a leased, private line system which connects all the nuclear power plants, the NRC Operations Center, and the NRC Regional Office (Glen Ellyn).

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In the event of a site emergency, the NRC will activate the HPN. Before NRC Health Physics specialists arrive on site, the NRC Operations Center communicator may request information from plant personnel.

NOTE: The HPN is a restricted network and may not be used by nongovernment employees at any time unless a significant event has to be reported and both the ENS and the commercial telephone lines are out of service.

Extensions for the HPN are at the following locations:

- (1) HP Office
- (2) Technical Support Center
- (3) NRC Resident Inspector's Office

If necessary to use the HPN phone:

- (1) Lift receiver. NO DIAL TONE IS HEARD.
- (2) Dial the required number:

22 - NRC Operations Center
23 - Region III Office

NOTE: a. There will be audible ringing signal dial tone after dialing the desired code. Ringing is heard at the called station to indicate an incoming call. This ring stops when the telephone is answered or at the end of thirty seconds. You may dial again if the call has not been answered in approximately 30 seconds.

b. 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.

7. National Warning System (NAWAS)

The National Warning System (NAWAS) is a private wire system provided by the Federal Government to disseminate emergency information of a National or International nature. The National Primary input location is the North American Air Defense (NORAD) Command Center in the Cheyenne Mountains, Colorado. There are over 2000 terminals on this system in federal, military and state designated locations.

The Wisconsin Division of Emergency Government (DEG) is responsible for maintaining a 24-hour statewide warning system as part of the National Warning System (NAWAS). The Prairie Island NAWAS is part of the Wisconsin State National Warning System. In Wisconsin, there are three (3) state warning centers. These warning centers have operational control over all terminals serving Wisconsin (including Prairie Island). This system is so designated that only the State Warning Point can communicate with terminals outside of Wisconsin. All terminals within Wisconsin are on a "Party Line" basis, in that any terminal talking on the circuit is heard by all other terminals on the Wisconsin circuit. In Wisconsin, NAWAS terminals are located at all seven district State Patrol Headquarters radio dispatch rooms and Area Emergency Government EOC's, 26 county warning centers, the five nuclear power plants and six U.S. Weather Station Offices. The State Patrol and county warning centers relay to and from the other 46 county non-NAWAS centers by radio.

The Prairie Island NAWAS talks directly to the State Warning Centers, the Weather Station Offices, and to the county sheriffs. The State Warning Centers and the county sheriffs further disseminate information to emergency organizations and personnel by other communications systems.

The state-wide emergency telephone number Deleted is the alternate communications backup for notification to the Wisconsin Division of Emergency Government.

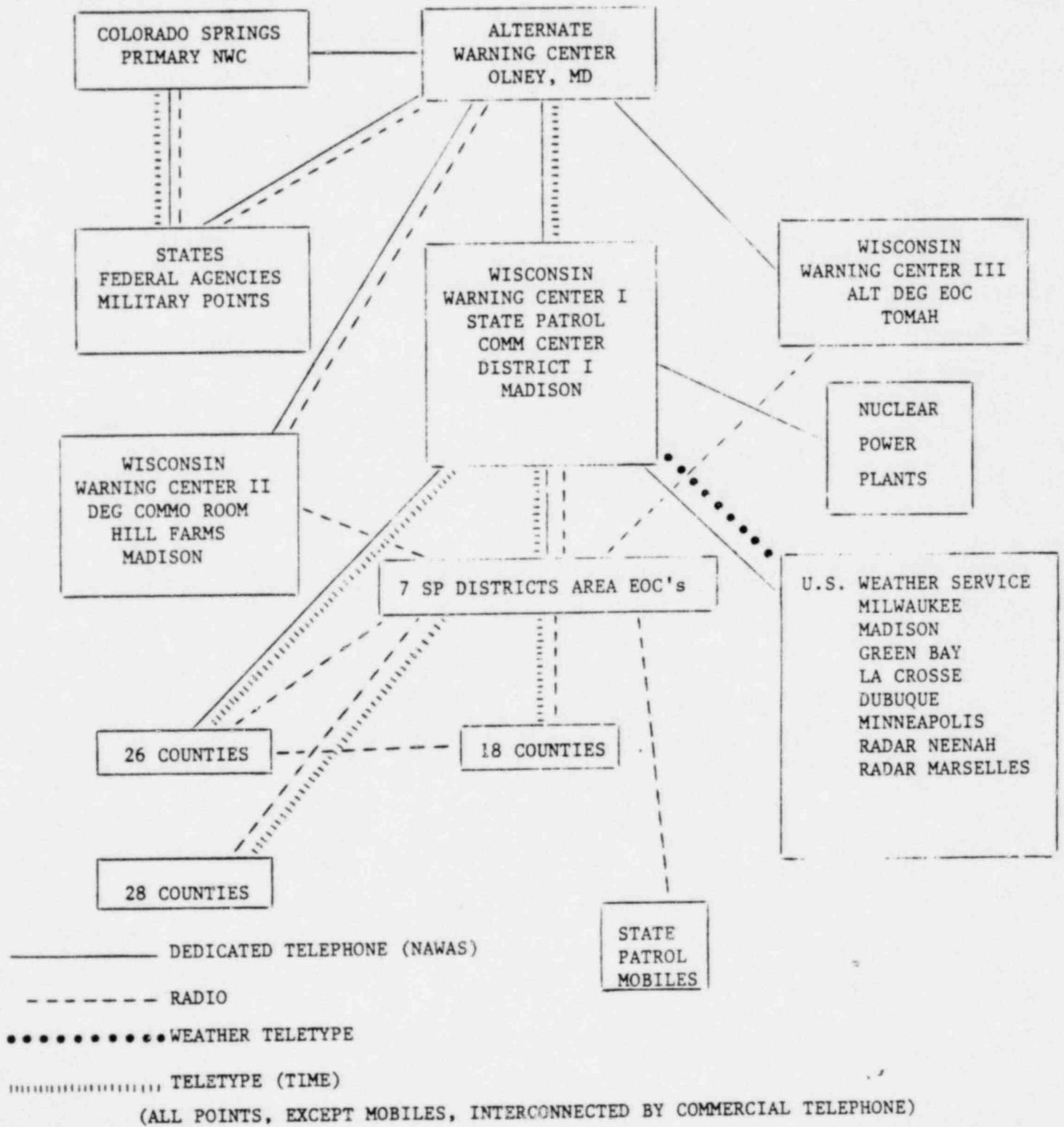
THE FOLLOWING WILL BE USED IN THE EVENT AN INCIDENT AT PRAIRIE ISLAND REQUIRES A RESPONSE FROM STATE AND LOCAL AGENCIES:

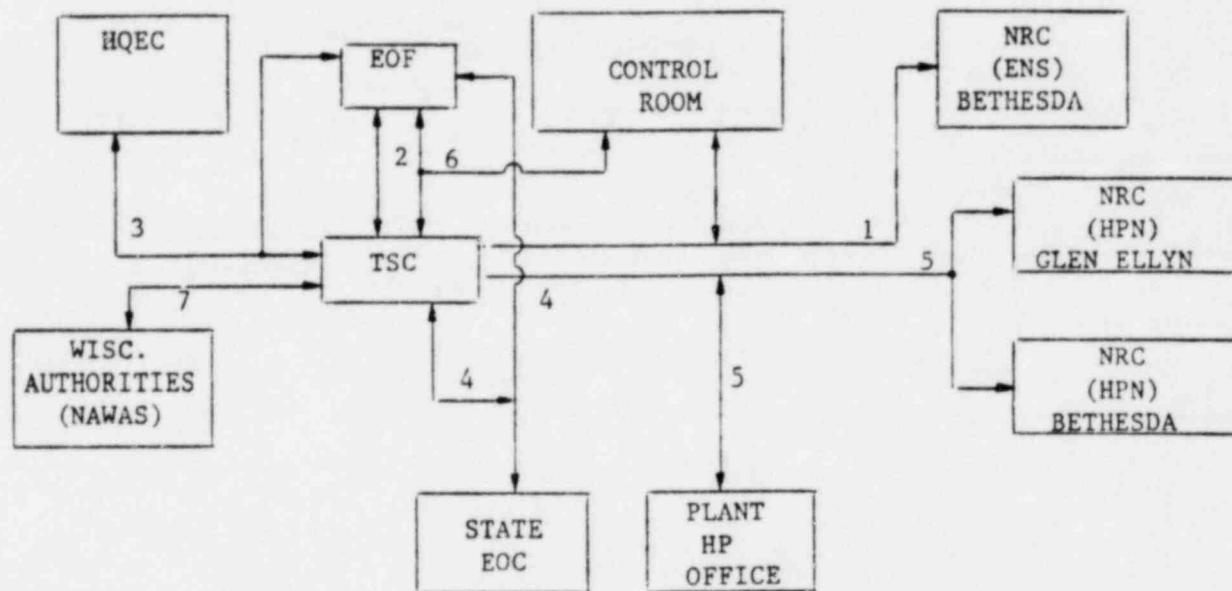
- (1) DETERMINE THE CLASS OF EMERGENCY.
- (2) PICK UP THE NAWAS SET, PRESS TALK BUTTON AND SAY:
"THIS IS PRAIRIE ISLAND NUCLEAR PLANT CALLING WISCONSIN WARNING CENTER ONE, WEST CENTRAL AREA WARNING CENTER AND PIERCE COUNTY WARNING CENTER, ACKNOWLEDGE."
- (3) WHEN WARNING CENTER ONE, WEST CENTRAL AREA AND PIERCE COUNTY WARNING CENTERS ACKNOWLEDGE, PRESS TALK SWITCH AND SAY:
"PRAIRIE ISLAND NUCLEAR POWER PLANT IS EXPERIENCING A:
"NOTIFICATION OF UNUSUAL EVENT" (least serious); OR
"ALERT"; OR
"SITE AREA EMERGENCY"; OR
"GENERAL EMERGENCY" (most serious)
"RELAY THIS INFORMATION TO EMERGENCY GOVERNMENT IMMEDIATELY."

- NOTES:
- a) IF AREA OR COUNTY WARNING CENTERS DO NOT ACKNOWLEDGE, WISCONSIN WARNING CENTERS I, II, OR III WILL RING ON THE CIRCUIT AND RELAY THE MESSAGE TO APPROPRIATE WARNING CENTERS.
 - b) DUTY OFFICERS AND EMERGENCY GOVERNMENT OFFICIALS AT STATE AND LOCAL AGENCIES WILL INITIATE RESPONSE IN ACCORDANCE WITH CURRENT PLANS AND SOP'S.

ATTACHMENT A (Continued)

NATIONAL WARNING SYSTEM
(NAWAS)



SUMMARY OF
PRAIRIE ISLAND HOTLINE NETWORK

<u>Number</u>	<u>Name</u>	<u>Station</u>
1	Emergency Notification System (ENS)	Primary means for reporting emergencies and other significant events to the NRC Headquarters in Bethesda, Maryland. ENS phones are located in the Control Room and TSC.
2	TSC - EOF	2 point auto ring between the TSC and EOF. Either station can activate the circuit.
3	TSC - EOF - HQEC	3 point ring on demand between the TSC, EOF, and HQEC. Each station can activate the circuit.
4	TSC - EOF - State EOC	3 point ring on demand between the TSC, EOF, and State EOC. Each station can activate the circuit.
5	Health Physics Network (HPN)	Multiple station line between the TSC, Plant HP Office, NRC Glen Ellyn, & other utilities. This is a two digit ring telephone.
6	TSC - EOF - Control Room	3 point auto ring between TSC, Control Room, and EOF. Any station can activate circuit.
7	TSC - National Warning System (NAWAS)	Dedicated Line to Wisc. Warning Center I, II, and III, Regional Warning Center, and County Warning Center.

ATTACHMENT B
RADIO COMMUNICATIONS NETWORK

I. MOTOROLA RADIO SYSTEM

This radio system is capable of being operated in either a normal (clear-uncoded) mode or in a private (DVP-digital voice protection) mode.

In the clear (DVP-OFF) mode, all communications can be monitored by scanner receivers. In the private (DVP-ON) mode, a standard receiver or scanner cannot monitor your communications. In the 'DVP-ON' mode, the audio quality is degraded due to the encoding/decoding process. This is a normal condition.

1. Motorola Radio Console

Three (*) radio consoles provide the heart of the radio system. They are all identical with respect to function but not appearance. The consoles are located in the Control Room, TSC, and EOF. All contain the same channels and have an intercom feature between the consoles. The control station for the Digital Voice Protection (DVP) is the TSC console. Indication lights on the face of the console give the status of the transmitter/receiver mode, coded or uncoded operation.

Check the status lamp located beside the 'DVP-ON/OFF' switch on the TSC control unit. Operate the 'DVP-ON/OFF' switch slowly through one complete on/off cycle, then operate it as necessary to put the system into the 'DVP-ON' or 'DVP-OFF' mode.

NOTE: The 'DVP-ON/OFF' switch is a momentary spring-return type. Each time you depress the switch, a signal is sent to the remote transmitter turning the DVP system off or on, with the status lamp on the control unit indicating the current transmitter DVP mode. However, if the switch is improperly operated (i.e. twice in succession, very rapidly) the indicator lamp will follow the switch but the actual transmitter status will not change properly, resulting in the transmitter being in the opposite DVP mode to that indicated by the lamp on the TSC console.

All consoles are able to monitor the selected channel as well as the unselected channels. Independent volume controls are provided for both. Frequency 1 and frequency 2 are banded together and are one in the same. Call lights on the verticle portion of the console indicate which channel information is being received on. The second row of channel selection buttons on the TSC console are not connected.

(* EOC Radio Console Proposed for August 82)

8 Channels give communication ability for:

CH1 (60 watt Simplex) Goodhue County EOC - Goodhue County Sheriff's office, Red Wing, MN

Dakota County EOC - Dakota County Sheriff's office, Hastings, MN

Pierce County EOC - Pierce County Sheriff's office, Ellsworth, WI

CH2 (100 watt repeater) - 10 radiation monitoring team portables - F1 or F2.

CH3 (100 watt repeater) - 10 plant portables - F1.

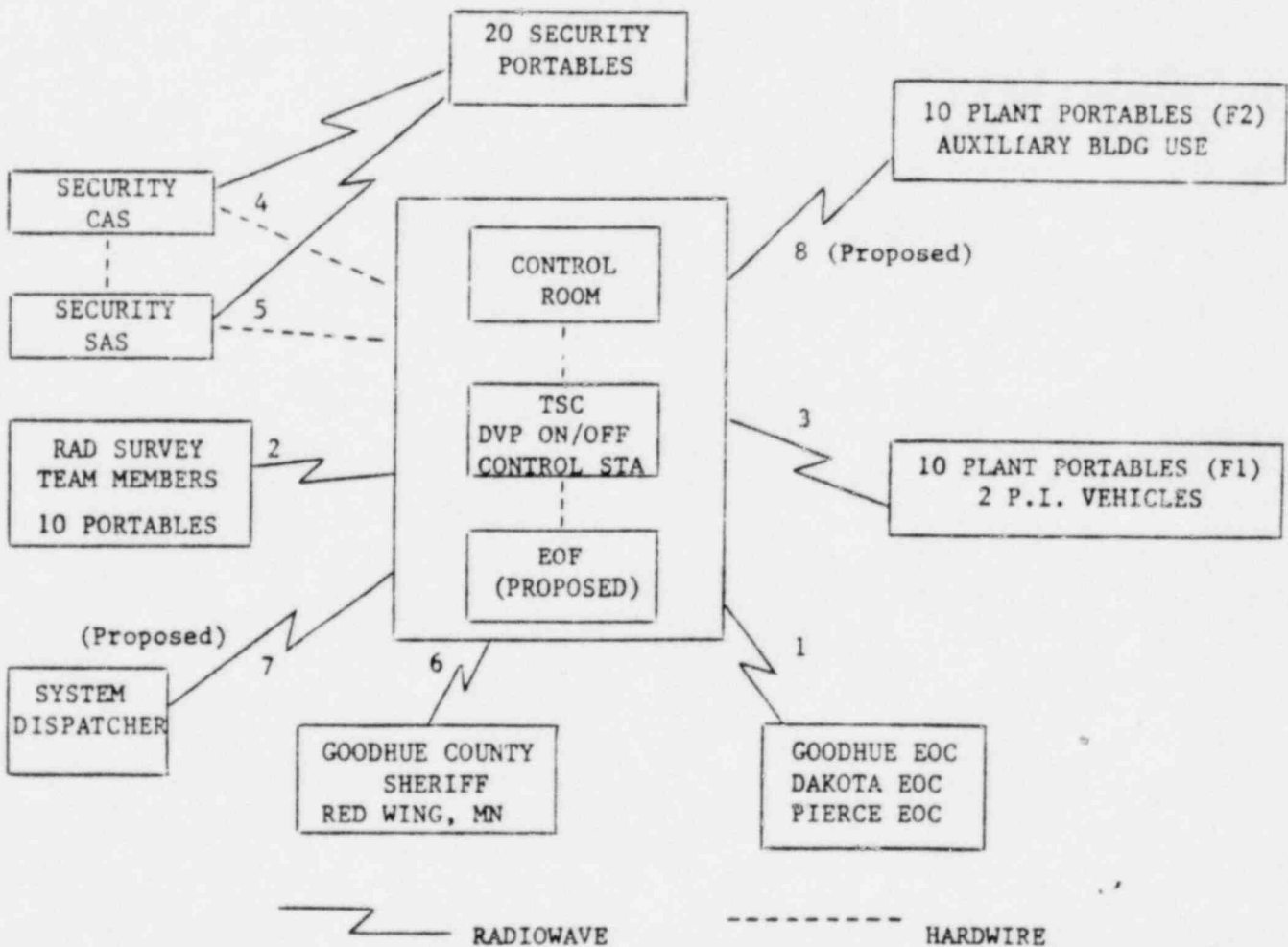
CH4 (60 watt Simplex) - 20 security portables - F1 (primary freq)

CH5 (60 watt Simplex) - 20 security portables - F2 (secondary freq)

CH6 (60 watt Simplex) - Goodhue County Sheriffs office - Red Wing, MN

CH7 - No Assignment

CH8 (12 watt Simplex) - Auxiliary Building (Proposed July 82) F2 of the plant portables.



2. Motorola Portable Handie-Talkie (Model MX350)A. Special Instructions

- (1) Do not separate battery pack from radio. This separation could cause loss of DVP feature and it would have to be recoded. The encoder and instructions are located in the communications area of the TSC if needed.
- (2) Radios may be left in charger after full charge signal (green light) is on. You may leave volume turned "on" in charger; however, you must never transmit while radio is in the charger.
- (3) External antenna jack located on "press to talk" switch side near the top of the radio provides an extended range when an antenna is used with this set. All Radiation Monitoring Team radios are provided with external antennas.
- (4) A compatible headset is available for use with this portable. When connected to the headphone plug (on top of set) the headset earphones and microphone displaces the built in speaker and microphone. This accessory provides noise control when required.

B. Radio Operation





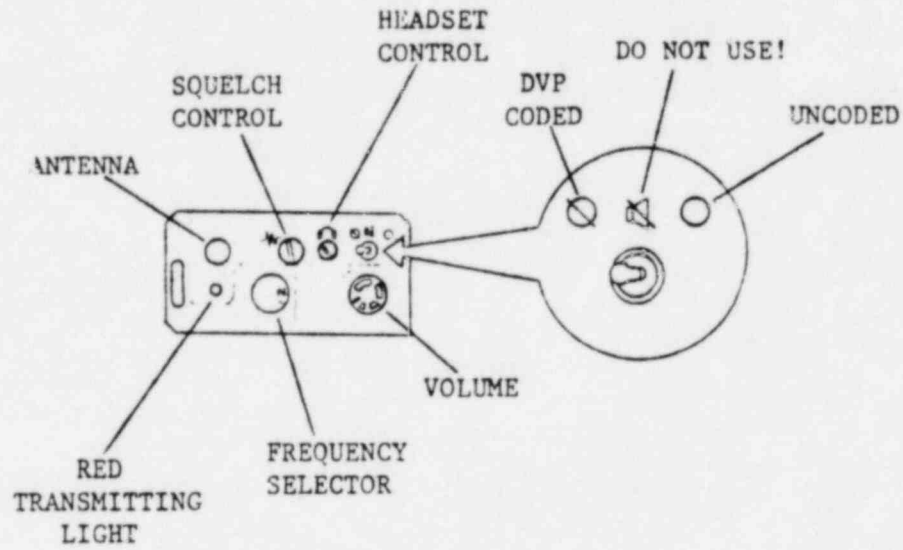
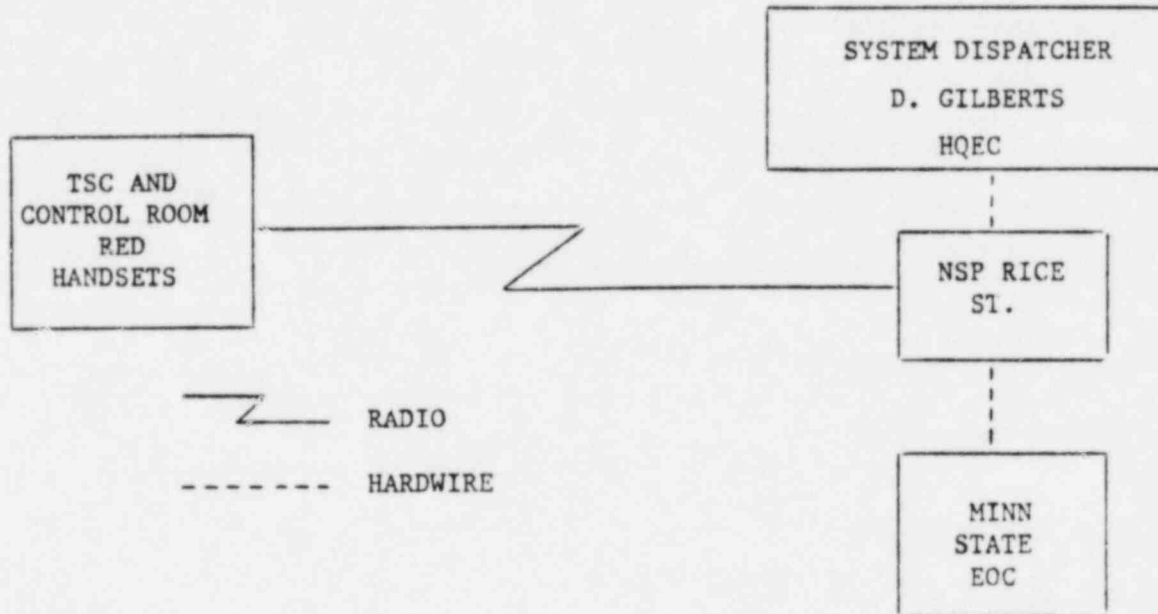
- (1) Knob on top marked F1 and F2 is a frequency selector switch. On the plant portables F1 works on CH3 of radio console; F2 works on CH8 of the radio console. The radiation monitoring portables have F1 and F2 banded together.
- (2)  is the squelch control - it should be positioned to just remove extraneous receiving noises.
- (3) The knob marked    provides a choice of the DVP position (left), clear coded position (center) and clear uncoded position (right). To protect your messages, always use the DVP position. NEVER USE THE CENTER POSITION!
- (4) The red light on top will be on during transmitting. It is also a check for battery status. (Weak indicates low battery power.)
- (5) Operate radio similar to other portables, using the 2" distance between mouth and the microphone grill, speak clearly, and say when your transmission is complete. Use reasonable volume and squelch.

ILLUSTRATION MOTOROLA PORTABLE HANDIE TALKIE MODEL MX350



II. LOW BAND PAGING SYSTEMPROCEDURE

1. To contact the System Dispatcher:

Lift the handset, push the push-to-talk switch and say:

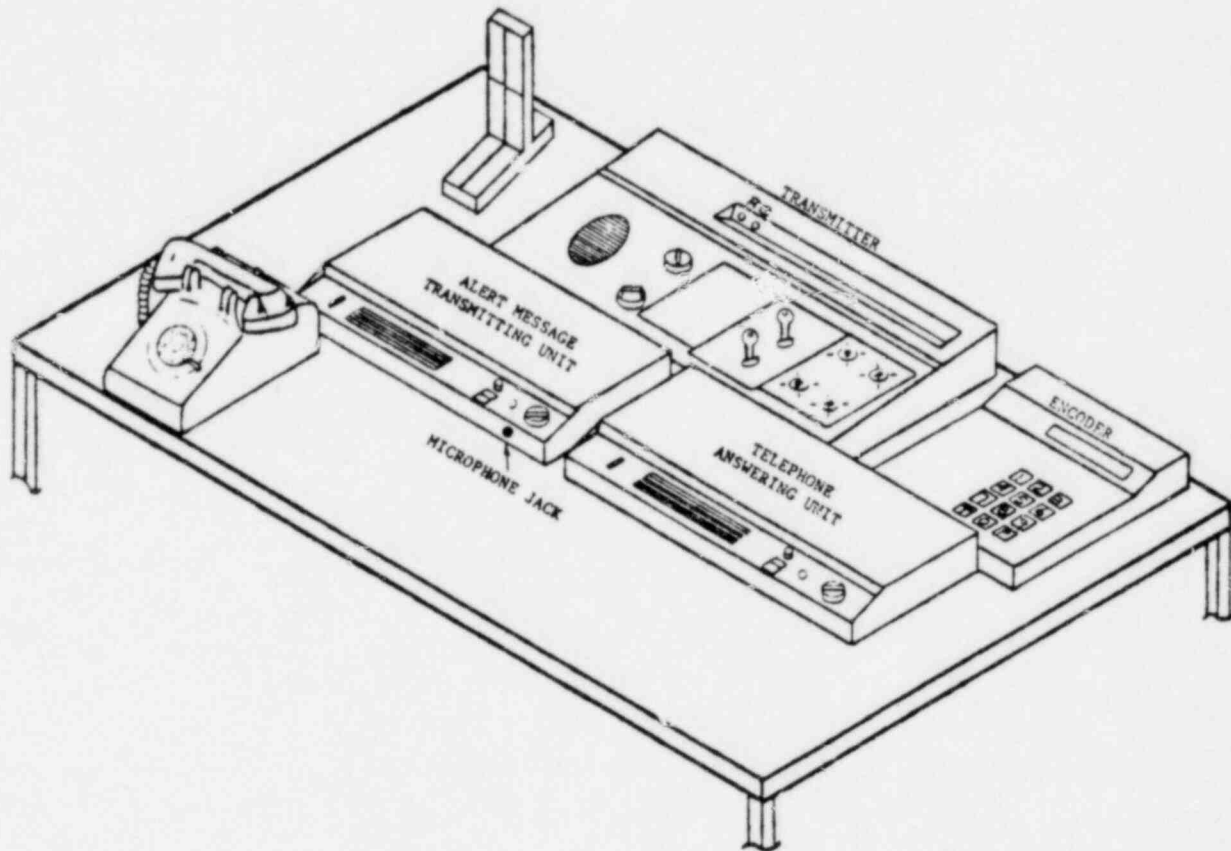
"PRAIRIE ISLAND TO SYSTEM DISPATCHER."

2. To contact the Minn. State EOC (See Note f):

Lift the handset, push the push-to-talk switch and say:

"PRAIRIE ISLAND TO EMERGENCY OPERATIONS CENTER."

- NOTES:
- (a) The System Dispatcher can activate the receiver at the plant.
 - (b) The plant can activate the receiver at the System Dispatcher and the HQEC (when connected).
 - (c) The state can activate the Prairie Island receiver.
 - (d) Each station can monitor each channel.
 - (e) The HQEC can activate the receiver at the plant.
 - (f) The State EOC must first be manned and the radio phone activated by the Duty Officer.

III. RADIO ALERT MONITOR SYSTEMGENERAL

The Radio Alert (RA) System is a one-way radio transmission system from the plant to the receiver. The transmitter is located in the onsite Technical Support Center with receivers installed in the homes and/or offices of the following three groups:

1. Local Residents
2. Civil Defense
3. Prairie Island Emergency Organization Personnel

The transmitter unit consists of: (a) message recorder; (b) message transmitter; (c) microphone; (d) telephone answering unit; (e) telephone; and (f) code selector.

When the RA System is activated, a tone will be heard by the receiver. The pre-recorded message will then be automatically played three times by the Alert Radio Message Unit. Upon completion of the transmission, the pre-recorded tape is then placed into the telephone answering unit. If an individual is not home when the unit is activated, a red light on the receiver will indicate that a message has been transmitted via the Radio Alert System. That individual may then call the number indicated on his receiver () and the pre-recorded tape will play the message over the phone.

The microphone will allow plant personnel to transmit messages which are not detailed and pre-recorded.

The code numbers for the various receiver groups are:

1. Local Residents - 01
2. Civil Defense - 04
3. Prairie Island Emergency Organization Personnel - 06

INSTRUCTIONS

The following details some of the various specific operating instructions:

A. To Record the Message Cassette:

- (1) Make sure that the remote control unit 'Mike Enable' and 'Transmit Enable' key switches are both off (Green).
- (2) Set tape unit selector switch to 'Record Announcement' - insert microphone in tape unit mike jack.
- (3) Press tape unit 'Start' switch and record 45 second prepared messages.
- (4) When recording the message, speak slowly and clearly about 3 inches from the microphone.
- (5) Set tape unit selector switch to 'Check Announcement' - press 'Start' switch and listen to recording. (Adjust volume to desired level with tape unit 'Monitor Volume' Control) - if satisfactory, proceed.

B. To Test Entire Alert Sequence:

- (1) Insert proper recorded cassette in tape unit.
- (2) Set tape unit selector switch to 'Answer'.
- (3) Set up desired group code on encoder - Press 'P' (Page) button. Tones will be heard on the remote control unit. Adjust its volume control to the desired level.
- (4) 18 seconds after the 2nd tone is heard, the 45 second recorded message will be heard 3 times. Then the unit will shut off.

C. To Transmit an Alert Message:

- (1) Insert the proper recorded message cassette into the tape unit.