ROCHESTER GAS AND ELECTRIC CORPORATION • 89 EAST AVENUE, ROCHESTER, N.Y. 14649-0001

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June 21, 2000

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555
Attn: Mr. Guy S. Vissing (Mail Stop 14D11)
Project Directorate I-1

Subject: Revision to Emergency Plan Implementing Procedures
R.E. Ginna Nuclear Power Plant
Docket No. 50-244

Gentlemen:

In accordance with 10 CFR 50.4(b)(5), enclosed are revisions to a Ginna Station Emergency Plan Implementing Procedures (EPIP).

We have determined, per the requirements of 10 CFR 50.54(q), that these procedure changes do not decrease the effectiveness of our Nuclear Emergency Response Plan.

Very truly yours,

Richard J Watts

Richard J. Watts
Manager, Nuclear Training

Enclosures

xc: USNRC Region 1 (2 copies of letter and 2 copies of each procedure)
Resident Inspector, Ginna Station (1 copy of letter and 1 copy of each procedure)
RG&E Nuclear Safety and Licensing (1 copy of letter)
Dr. Robert C. Mecredy (2 copies of letter only)

PSP/jtw

A045

PROCEDURE	REVISION NUMBER
EPIP 1-9	18
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PARAMETERS: DOC TYPES: PREPIP STATUS: EF 5 YEARS ONLY:

PROCEDURE NUMBER	PROCEDURE TITLE	REV	EFFECT DATE	LAST REVIEW	NEXT REVIEW	ST
EPIP 1 0	GINNA STATION EVENT EVALUATION AND CLASSIFICATION	025	11/19/97	11/19/97	11/19/01	EF
EPIP 1 1	UNUSUAL EVENT	002	12/09/96	12/09/96	12/09/01	EF
EPIP 1 2	ALERT	003	12/09/96	12/09/96	12/09/01	EF
EPIP 1 3	SITE AREA EMERGENCY	005	12/09/96	01/23/98	01/20/02	EF
EPIP 1 4	GENERAL EMERGENCY	004	12/09/96	12/09/96	12/09/01	EF
EPIP 1 5	NOTIFICATIONS	040	02/04/00	02/04/00	02/04/05	EF
EPIP 1 6	SITE EVACUATION	010	02/11/00	02/11/00	02/11/05	EF
EPIP 1 7	ACCOUNTABILITY OF PERSONNEL	008	07/27/99	07/27/99	07/27/04	EF
EPIP 1 8	SEARCH AND RESCUE OPERATION	004	05/16/00	05/16/00	05/16/05	EF
EPIP 1 9	TECHNICAL SUPPORT CENTER ACTIVATION	018	06/21/00	06/21/00	06/21/05	EF
EPIP 1 10	OPERATIONAL SUPPORT CENTER (OSC) ACTIVATION	009	05/16/00	05/16/00	05/16/05	EF
EPIP 1 11	SURVEY CENTER ACTIVATION	021	05/16/00	05/16/00	05/16/05	EF
EPIP 1 12	REPAIR AND CORRECTIVE ACTION GUIDELINES DURING EMERGENCY SITUATIONS	007	06/21/00	06/21/00	06/21/05	EF
EPIP 1 13	LOCAL RADIATION EMERGENCY	003	08/04/95	01/23/98	01/23/02	EF
EPIP 1 15	USE OF THE HEALTH PHYSICS NETWORK HPN	005	04/24/96	03/03/99	03/03/04	EF
EPIP 1 16	RADIOACTIVE LIQUID RELEASE TO LAKE ONTARIO OR DEER CREEK	004	02/13/98	02/13/98	02/13/02	EF
EPIP 1 17	PLANNING FOR ADVERSE WEATHER	002	06/21/00	06/21/00	06/21/05	EF
EPIP 2 1	PROTECTIVE ACTION RECOMMENDATIONS	017	08/20/99	08/20/99	08/20/04	EF
EPIP 2 2	OBTAINING METEOROLOGICAL DATA AND FORECASTS AND THEIR USE IN EMERGENCY DOSE ASSESSMENT	009	02/13/98	02/13/98	02/13/02	EF
EPIP 2 3	EMERGENCY RELEASE RATE DETERMINATION	012	02/04/00	02/04/00	02/04/05	EF
EPIP 2 4	EMERGENCY DOSE PROJECTIONS - MANUAL METHOD	012	06/21/00	06/21/00	06/21/05	EF
EPIP 2 5	EMERGENCY DOSE PROJECTIONS PERSONAL COMPUTER METHOD	010	11/16/99	11/16/99	11/16/04	EF
EPIP 2 6	EMERGENCY DOSE PROJECTIONS MIDAS PROGRAM	011	06/21/00	06/21/00	06/21/05	EF
EPIP 2 7	MANAGEMENT OF EMERGENCY SURVEY TEAMS	009	10/01/99	10/01/99	10/01/04	EF

PARAMETERS: DOC TYPES PREFIX STATUS: EF 5 YEARS DUE:

PROCEDURE NUMBER	PROCEDURE TITLE	REV	EFFECT DATE	LAST REVIEW	NEXT REVIEW	ST
EPIP 2.8	VOLUNTARY ACCEPTANCE OF EMERGENCY RADIATION EXPOSURE	005	05/16/00	05/16/00	05/16/05	EF
EPIP 2.9	ADMINISTRATION OF POTASSIUM IODIDE (KI)	003	12/05/97	12/05/97	12/05/01	EF
EPIP 2.10	INPLANT RADIATION SURVEYS	003	01/16/97	01/16/97	01/16/02	EF
EPIP 2.11	ONSITE SURVEYS	013	07/27/99	07/27/99	07/27/04	EF
EPIP 2.12	OFFSITE SURVEYS	016	07/27/99	07/27/99	07/27/04	EF
EPIP 2.13	IODINE AND PARTICULATE ACTIVITY DETERMINATION FROM AIR SAMPLES	008	07/27/99	07/27/99	07/27/04	EF
EPIP 2.14	POST PLUME ENVIRONMENTAL SAMPLING	013	08/20/99	08/20/99	08/20/04	EF
EPIP 2.15	POST PLUME EVALUATION OF OFFSITE DOSES DUE TO DEPOSITION	004	03/06/98	03/06/98	03/06/03	EF
EPIP 2.16	CORE DAMAGE ESTIMATION	010	02/25/00	02/25/00	02/25/05	EF
EPIP 2.17	HYPOTHETICAL (PRE RELEASE) DOSE ESTIMATES	005	11/16/99	11/16/99	11/16/04	EF
EPIP 2.18	CONTROL ROOM DOSE ASSESSMENT	011	05/16/00	05/16/00	05/16/05	EF
EPIP 3.1	EMERGENCY OPERATIONS FACILITY (EOF) ACTIVATION AND OPERATIONS	014	02/11/00	02/11/00	02/11/05	EF
EPIP 3.2	ENGINEERING SUPPORT CENTER (ESC)	008	02/25/00	02/25/00	02/25/05	EF
EPIP 3.3	IMMEDIATE ENTRY	007	06/21/00	06/21/00	06/21/05	EF
EPIP 3.4	EMERGENCY TERMINATION AND RECOVERY	007	05/28/99	05/28/99	05/28/04	EF
EPIP 3.7	SECURITY DURING EMERGENCIES	009	11/16/99	11/16/99	11/16/04	EF
EPIP 4.1	PUBLIC INFORMATION RESPONSE TO AN UNUSUAL EVENT	006	02/13/98	02/13/98	02/13/02	EF
EPIP 4.3	ACCIDENTAL ACTIVATION OF GINNA EMERGENCY NOTIFICATION SYSTEM SIRENS	008	02/13/98	02/13/98	02/13/02	EF
EPIP 4.6	JOINT EMERGENCY NEWS CENTER ACTIVATION	008	02/11/00	02/11/00	02/11/05	EF
EPIP 4.7	PUBLIC INFORMATION ORGANIZATION STAFFING	013	05/16/00	05/16/00	05/16/05	EF
EPIP 5.1	OFFSITE EMERGENCY RESPONSE FACILITIES AND EQUIPMENT PERIODIC INVENTORY CHECKS AND TESTS	017	06/21/00	06/21/00	06/21/05	EF
EPIP 5.2	ONSITE EMERGENCY RESPONSE FACILITIES AND EQUIPMENT PERIODIC INVENTORY CHECKS AND TESTS	022	05/24/00	05/24/00	05/24/05	EF
EPIP 5.5	CONDUCT OF DRILLS AND EXERCISES	011	02/25/00	02/25/00	02/25/05	EF

GINNA NUCLEAR POWER PLANT
PROCEDURES INDEX
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PARAMETERS: DOC TYPES PREPIP STATUS: EF 5 YEARS ONLY:

PROCEDURE NUMBER	PROCEDURE TITLE	REV	EFFECT DATE	LAST REVIEW	NEXT REVIEW	ST
EPIP 5-6	ANNUAL REVIEW OF NUCLEAR EMERGENCY RESPONSE PLAN (NERP)	004	05/28/99	05/28/99	05/28/04	EF
EPIP 5-7	EMERGENCY ORGANIZATION	027	05/16/00	05/16/00	05/16/05	EF
EPIP 5-9	TESTING THE OFF HOURS CALL-IN PROCEDURE AND QUARTERLY TELEPHONE NUMBER CHECK	006	05/28/99	05/28/99	05/28/04	EF
EPIP-5-10	EMERGENCY RESPONSE DATA SYSTEM (ERDS)	005	09/05/97	09/05/97	09/05/02	EF
NERP	ANNUAL UPDATE OF NUCLEAR EMERGENCY RESPONSE PLAN	019	12/09/99	12/09/99	12/09/04	EF

TOTAL FOR PREPIP 52

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

PROCEDURE NO. EPIP 1-9 REV. NO. 18

TECHNICAL SUPPORT CENTER ACTIVATION

RESPONSIBLE MANAGER

06/21/2000

EFFECTIVE DATE

CATEGORY 1.0

THIS PROCEDURE CONTAINS 9 PAGES

EPIP 1-9

TECHNICAL SUPPORT CENTER ACTIVATION

1.0 PURPOSE:

The purpose of this procedure is to designate actions and responsibility of individuals who would report to the Technical Support Center upon a decision to activate at an Alert level or greater.

2.0 RESPONSIBILITY:

2.1 The first qualified person to arrive is responsible for initiating this procedure.

2.2 The TSC Director is responsible for activation of the TSC upon arrival.

2.3 The TSC Director becomes the TSC Emergency Coordinator upon assuming Command and Control.

2.4 If the Severe Accident Management Guidelines (SAMG's) are entered, the following TSC staff assume SAM duties:

Decision Maker	-	TSC Emergency Coordinator
Evaluators	-	TSC Operations Manager, TSC Technical Manager, TSC Nuclear Assessment

3.0 REFERENCES:

3.1 Developmental References

3.1.1 Nuclear Emergency Response Plan

3.1.2 NUREG-0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants.

3.2 Implementing References

3.2.1 EPIP 1-10, OSC Activation

3.2.2 EPIP 1-11, Survey Center Activation

3.2.3 EPIP 3-3, Immediate Entry

3.2.4 EPIP 1-5, Notification

3.2.5 EPIP 5-7, Emergency Organization

3.2.6 EPIP 1-0, Ginna Station Event Evaluation and Classification

3.2.7 EPIP 2-13, Iodine and Particulate Activity Determination from Air Samples

3.2.8 RP-INS-CAM-OPS, Operations of Continuous Air Monitors

4.0 **PRECAUTIONS:**

As noted in this procedure.

5.0 **PREREQUISITES:**

5.1 An Alert, Site Area Emergency, or General Emergency has been declared in accordance with EPIP 1-0, Ginna Station Event Evaluation and Classification.

5.2 The TSC could be activated anytime at the discretion of the TSC Director/Emergency Coordinator.

6.0 **ACTIONS:**

6.1 **Personnel Responding from Offsite**

6.1.1 Personnel shall report to the TSC using normal security site access procedures.

6.1.2 If a hazardous condition prevents normal site access (i.e. release of radioactivity, security event), responders will be directed by Security to the Survey Center where they shall use EPIP 3-3, Immediate Entry, for site access.

6.2 **Personnel Arriving at TSC**

****

CAUTION

FRISK BEFORE ENTERING IF RP DETERMINES THAT FRISKING IS REQUIRED.

****

NOTE: **DEPENDING ON THE NUMBER OF ARRIVING PERSONNEL, PERFORM STEPS CONCURRENTLY TO MINIMIZE ACTIVATION TIME.**

6.2.1 Place your name under appropriate emergency position on magnetic organization chart and display associated job function badge.

6.2.2 If you leave the TSC, contact the RP/Chemistry Manager to determine if an electronic dosimeter is required.

6.2.3 Perform responsibilities as described in EPIP 5-7, Emergency Organization.

6.3 **TSC Director perform the following:**

6.3.1 Ensure minimum staff listed below is available to activate the TSC:

a. Emergency Coordinator

b. Radiation Protection/Chemistry Manager

c. Dose Assessment Manager

d. Technical Assessment Manager

e. Operations Assessment Manager

f. Maintenance Assessment Manager

g. Communicator

h. Survey Center Manager

6.3.2 If position is not staffed, call in personnel. Qualified responders are found in their position checklist in EPIP 5-7.

6.3.3 Ensure Technical Assessment Manager establishes ERDS link to NRC within one hour per duties in EPIP 5-7.

6.3.4 Receive briefing from the Shift Supervisor on Plant conditions.

6.3.5 Obtain notification forms sent by the Control Room from the TSC fax machine. Use these forms and brief response staff on plant conditions using Attachment 2 (TSC meeting agenda).

****

CAUTION

IF DOSE RATES EXCEEDS 50 mR/HR, CONSIDER RELOCATION OF TSC PERSONNEL.

IF AIR SAMPLE RADIOIODINE ACTIVITY IS GREATER THAN 1E-8 μCi/cc, CONSIDER RELOCATION OF TSC PERSONNEL.

****

6.3.6. Obtain results of radiation survey and air activity of TSC.

6.3.7 If TSC is uninhabitable, relocate the following personnel to the Shift Supervisor's office:

a. Operations Assessment Manager

b. Radiation Protection/Chemistry Manager

c. TSC Director/Emergency Coordinator

d. Technical Manager

e. Nuclear Assessment

Direct remaining personnel to the Survey Center or alternate location as directed by the TSC Director/Emergency Coordinator.

6.3.8 Obtain status of manpower from managers.

NOTE: **THE TSC DIRECTOR ASSUMES THE ROLE AND TITLE OF TSC EMERGENCY COORDINATOR WHEN TSC TAKES COMMAND AND CONTROL.**

6.3.9 Assuming Command and Control

6.3.9.1 Ensure minimum activation staff (Step 6.4.1) is available to assume command and control.

6.3.9.2 Confer with Emergency Coordinator (Control Room Shift Supervisor) on shifting command and control of the emergency from the Control Room to the TSC. Normally, when command and control is transferred, the TSC assumes:

a. Overall direction for the emergency

1. Emergency Classification

2. Protective Action Recommendations

b. Notifications to New York State, Wayne and Monroe counties

c. Dose Assessment

d. Notifications to the NRC

However, certain conditions may warrant transferring a given responsibility area (or communications) at different times, per the discretion of the Emergency Coordinator (Shift Supervisor and TSC Director).

6.3.9.3 Brief the TSC on plant status using Attachment 2 for meeting agenda and inform them that command and control will be assumed at the agreed upon time.

6.3.9.4 At agreed upon time, call the Control Room (Emergency Coordinator) and state that, unless he has any objections, the TSC is assuming command and control at this time.

6.3.9.5 Announce to the TSC that the TSC has assumed command and control of the emergency.

6.3.9.6 Upon assuming command and control, direct the Administrative/Communications Manager to provide RECS line updates every 30 minutes using EPIP 1-5, Attachment 3.

6.3.9.7 Notify EOF that the TSC has assumed command and control and to make preparations to transfer command and control to the EOF.

6.3.9.8 If the TSC will be activated for more than 12 hours, direct managers to complete Attachment 1 for continuous staffing.

6.3.10 Shift Turnover

6.3.10.1 If a turnover to another shift is needed, contact the personnel identified on Attachment 1 and inform them of the time and location to assemble.

6.3.10.2 When the responders for the next shift have arrived, have them perform a detailed turnover with the person they are relieving. Have them log the turnover in their log book.

6.3.10.3 When the individual turnovers are complete, have the on-coming crew perform a briefing for each other using the standard meeting agenda (Attachment 2). The off-going crew should also be at the briefing to ensure that the information that is shared is correct and complete.

6.4 TSC Managers perform the following:

6.4.1 Check communications at work location.

6.4.2 Determine status of manpower and report to the Emergency Coordinator.

6.4.3 Radiation Protection/Chemistry Manager check survey results and air activity for TSC and report to TSC Director/Emergency Coordinator.

****

CAUTION

IF AIR SAMPLE RADIOIODINE ACTIVITY IS GREATER THAN 1E-8 μCi/cc, INFORM THE EMERGENCY COORDINATOR.

IF DOSE RATES EXCEEDS 50 mR/HR, CONSIDER RELOCATION OF TSC PERSONNEL.

****

6.4.3.1 If TSC is uninhabitable, the following personnel shall relocate to the Shift Supervisor's office:

a. Operations Assessment Manager

b. Radiation Protection/Chemistry Manager

c. TSC Director/TSC Emergency Coordinator

e. Technical Manager

f. Nuclear Assessment

6.4.3.2 Direct remaining personnel to the Survey Center or other locations as directed by the Emergency Coordinator.

6.5 Radiation Protection Technician perform the following:

6.5.1 Place step-off pad and frisker at each entrance to the TSC.

6.5.2 Start up TSC AMS-4 per RP-JC-AMS4.

****

CAUTION

IF AIR SAMPLE RADIOIODINE ACTIVITY IS GREATER THAN 1E-8 μCi/cc, INFORM THE RADIATION PROTECTION/CHEMISTRY MANAGER AND THE EMERGENCY COORDINATOR

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6.5.3 Take an air sample in accordance with EPIP 2-13, Iodine and Particulate Activity Determination from Air Samples, and report results to Radiation Protection/Chemistry Manager.

6.5.4 Perform a survey of the TSC.

****

CAUTION

IF DOSE RATES EXCEEDS 50 mR/HR, INFORM THE RADIATION PROTECTION/CHEMISTRY MANAGER AND EMERGENCY COORDINATOR

****

6.5.5 Report results of all TSC surveys to Radiation Protection/Chemistry Manager

6.5.6. Monitor the TSC radiation and contamination levels and air activity at the discretion of the Radiation Protection/Chemistry Manager.

6.6 TSC Support Personnel

6.6.1 Perform job functions in accordance with EPIP 5-7, Emergency Organization.

7.0 Attachments

1. TSC Continuous Staffing Schedule
2. TSC Meeting Agenda

TSC CONTINUOUS STAFFING SCHEDULE

(Consult EPIP 5-7 position checklists for qualified personnel and phone numbers to fill positions.)

	Shift A	**Shift B**
	_____hrs. to _____ hrs.	_____hrs. to _____ hrs.
POSITION	Date:	Date:
Emergency Coordinator*		
Assistant Emergency Coordinator		
Radiation Protection/Chemistry* Manager		
Dose Assessment Manager*		
Technical Assessment Manager*		
Operations Assessment Manager*		
Maintenance Assessment Manager*		
Communicator*		
Survey Center Manager*		
Admin./Comm. Manager		
Security Manager		
Radio Operator		
Dose Assessment Support		
Switchboard Operator		
Messenger/Status Board Keepers		

Note: All positions need not be filled. Select those needed as a resources for the event and the minimum staff required for TSC activation.

* Minimum staff

TSC CONTINUOUS STAFFING SCHEDULE

(Consult EPIP 5-7 position checklists for qualified personnel and phone numbers to fill positions.)

	Shift A	Shift B
	_____hrs. to _____ hrs.	_____hrs. to _____ hrs.
POSITION	Date:	Date:
Chemistry Coordinator		
RP/Chemistry Technicians		
Nuclear Assessment		
I&C Electrical Assessment		
Mechanical/Hydraulic Assessment		
Computer Analysts		
Discipline Planners		
Manager of OSC Satellite		
Maintenance Personnel		
Assistant Survey Center Manager		
OSC Assignees		
Inventory Control Supervisor/Analyst		
Inventory Control Support Personnel		
OSC Director		

Note: All positions need not be filled. Select those needed as a resources for the event and the minimum staff required for TSC activation.

* Minimum staff

Meeting Date: _____ Time: _____

NOTE: IF THE EOF IS ACTIVATED OR ACTIVATING, ATTEMPT TO INCLUDE NUCLEAR OPERATIONS MANAGER, OR AN ASSISTANT, IN THE TSC BRIEFING VIA CONFERENCE CALL.

1. Emergency Coordinator
   - Classification Level
   - Time Classification Declared
   - Brief Event Description (use EAL reference manual)

2. Operations Assessment Manager
   - Plant activities in progress
   - Safety Related Equipment Status
   - Operational needs required for plant safety
   - Operational manpower needs

3. Technical Assessment Manager
   - Status of Plant Conditions
   - Core Conditions
   - Core Cooling capabilities

4. Maintenance Assessment Manager
   - Equipment out of service
   - Status of repairs in progress
   - Manpower needs required to support Maintenance
   - Supplies and Materials needed to support Maintenance activities

5. Dose Assessment Manager
   - Offsite areas of concern (downwind areas affected)
   - Protective Actions Recommended
   - Releases in progress
   - Status of radiological conditions outside the plant fence
   - Brief status of Survey Team activity

6. Administrative/Communications Manager
   - Status of notifications to State and Counties
   - Status of notifications to NRC

7. Security Manager
   - Status of accountability of plant personnel
   - Status of Site Security
   - Status of search and rescue operations

8. RP/Chemistry Manager
   - Status of TSC habitability
   - Status of radiological concerns inside the plant fence
   - Status of PASS operation and availability
   - Status of exposure to plant personnel (Ops, Maintenance, RP)

9. EOF Concerns

Please write on these pages. New pages will be provided after each use.

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

PROCEDURE NO. EPIP 1-12 REV. NO. 7

REPAIR AND CORRECTIVE ACTION GUIDELINES DURING EMERGENCY SITUATIONS

RESPONSIBLE MANAGER

06/21/2000

EFFECTIVE DATE

CATEGORY 1.0

THIS PROCEDURE CONTAINS 6 PAGES

EPIP 1-12

REPAIR AND CORRECTIVE ACTION GUIDELINES

DURING EMERGENCY SITUATIONS

1.0 PURPOSE:

To describe the guidelines for emergency response personnel that should be considered for repair and corrective actions during emergency situations.

2.0 RESPONSIBILITY:

2.1 The Maintenance Assessment Manager and/or Manager of OSC Satellite shall assemble a repair and corrective action team.

2.2 The Maintenance Assessment Manager and the Radiation Protection/Chemistry Manager are responsible for briefing the repair and corrective action team.

2.3 The repair and corrective action team is responsible for implementing section 6.2 of this procedure.

3.0 REFERENCES:

3.1 Developmental References

None.

3.2 Implementing References

3.2.1 EPIP 2-10, Inplant Radiation Surveys

3.2.2 EPIP 2-11, Onsite Surveys

3.2.3 EPIP 2-8, Voluntary Acceptance of Emergency Radiation Exposure

3.2.4 EPIP 3-3, Immediate Entry

3.2.5 RP-SUR-PERS-DECON, Personnel Decontamination.

4.0 PRECAUTIONS:

The activities considered should not involve control room manipulations normally performed by control room personnel.

5.0 PREREQUISITES:

5.1 The Maintenance Assessment Manager has determined that a repair/corrective action is necessary.

5.2 All administrative procedures should be adhered to unless otherwise directed in emergency procedures, or by the Emergency Coordinator.

5.3 Perform work using the Work Control System (A-1603 series), if time permits.

6.0 ACTIONS:

6.1 Maintenance Assessment Manager, perform the following:

6.1.1 Upon request for repair/corrective actions, assemble a repair/corrective action team. The team composition should:

a. Consist of at least two individuals.

b. Be composed of the most qualified personnel available for the task and their alternates.

c. If required, check the exposure history and respiratory qualifications.

6.1.2 Direct the Technical Assessment Manager, Operations Assessment Manager, or Radiation Protection/Chemistry Manager to provide assistance for the activity.

6.2 The Radiation Protection/Chemistry Manager, prior to dispatching the repair and corrective action team shall:

6.2.1 Perform an estimate of total dose required to perform the task and insure that individuals are aware of maximum dose limits.

6.2.2 Select a qualified individual to perform the radiation protection functions for the team while the activity is being performed.

6.2.3 Select the proper protective clothing, respiratory protection equipment, dosimetry and dose rate meters for the activity.

6.2.4 Evaluate the exposure history for personnel selected for the activity and make recommendation where appropriate.

6.3 Briefing

6.3.1 The Maintenance Assessment Manager and the RP/Chemistry Manager shall provide a briefing for the team to include the following:

a. Identify the workers

b. Scope of work and verify that both the RP technician and workers are in complete agreement. The discussion should include:

1. the work area

2. scope of work and procedural precautions and responsibilities

3. tools, spare parts & equipment, procedures needed

4. amount of time to perform work

5. Use of 3-way communication and the phonetic alphabet during the performance of the job.

c. Consider using a digital camera (from the ALARA group) to take a picture of the component or area so the picture can be analyzed by Maintenance and Engineering.

d. Suggested routes for entry and egress

e. Discuss contingency actions in the event of anticipated or unexpected hazards or conditions are encountered. Discuss the action to be taken in the event of a site evacuation.

f. Check authorized radiation exposure limits for each worker. Discuss exposure limitations. EPIP 2-8, Voluntary Acceptance of Emergency Radiation Exposure, provides additional guidance.

g. Dosimetry

1. Dosimeter capable of measuring exposure levels expected.

2. Alarming dosimeter

   - Integrated dose alarm
   - Dose rate alarm

3. Multi-badging

h. Meters capable of measuring radiation levels expected

i. Air sampling requirements

1. Particulates
2. Radioiodines
3. Noble gases

j. Respirators

1. SCBA with voice emitter

2. PAPR forced air respirator

3. Scott filtered respirator

k. Need for KI for radioiodine exposures (refer to EPIP 2-9, Administration of Potassium Iodide)

l. Protective clothing

m. Contamination control procedures

1. Dress and undress areas

2. Step-off pads

n. Discuss portable or installed ARMs and CAMs regarding their function and work response to alarms.

o. Potential concerns such as high airborne and contamination.

p. Radiation and contamination survey

q. Radios for communications with OSC

r. Radwaste disposal

6.4 Mission

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CAUTION

MAINTAIN VISUAL OR VOICE CONTACT WITH EACH OTHER.

****

6.4.1 If entering the site from the Survey Center, implement EPIP 3-3, Immediate Entry.

6.4.2 If dispatched from the Operations Support Center, follow guidance covered in the briefing by the Radiation Protection/Chemistry Manager.

6.4.3 Perform repair/corrective action as required. Follow guidance provided in the briefing.

6.4.4 Establish a method of communication to keep the Maintenance Assessment Manager informed of progress during the activity using 3-way communications and phonetic alphabet.

6.4.5 The Maintenance Assessment Manager or designee should maintain a Maintenance Activity Log.

6.4.6 When mission is completed, return to nearest local access control point for contamination check.

6.5 Decontamination

6.5.1 At the local control point, follow procedures specified by Radiation Protection.

6.5.2 If necessary, perform decontamination in accordance with RP-SUR-PERS-DECON, Personnel Decontamination.

6.5.3 Report to the Maintenance Assessment Manager for a debriefing.

6.6 Debriefing

6.6.1 Maintenance Assessment Manager and Radiation Protection/ Chemistry Manager, debrief the repair/ corrective action teams. The discussion should include:

a. Accountability of team

b. Dose received by team members

c. Radiation survey results obtained from mission and documented on survey map

d. Repairs accomplished

e. Parts used and needing replacement

f. Procedures completed

g. Observations of damage (including digital camera pictures)

h. Unusual or abnormal conditions observed on route to and from the repair location.

6.6.2 Provide information from the repair/corrective action effort to the Emergency Coordinator and other Managers, as requested.

7.0 ATTACHMENTS:

None.

ROCHESTER GAS & ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

PROCEDURE NO. EPIP 1-17 REV. NO. 2

PLANNING FOR ADVERSE WEATHER

RESPONSIBLE MANAGER

06/21/2000
EFFECTIVE DATE

Category 1.0

This procedure contains 6 pages

EPIP 1-17

PLANNING FOR ADVERSE WEATHER

1.0 PURPOSE

1.1 This procedure provides actions for the Nuclear Operations Group to consider for preparation of the site and personnel for severe weather at Ginna Station. ER-SC.1 does not have to be entered to use this procedure.

1.2 This procedure is used if severe weather is not forecasted but conditions deteriorate without warning.

2.0 RESPONSIBILITY

2.1 Emergency Planning is responsible for coordinating recommendations for the Nuclear Operations Group (NOG).

3.0 REFERENCES

3.1 Developmental References

3.1.1 Florida Power & Light Company, Turkey Point Units 3 and 4, EPIP 20106 - Natural Emergencies (8/11/92)

3.2 Implementing References

3.2.1 EPIP 1-0, Ginna Station Event Evaluation and Classification.

3.2.2 ER-SC.1, Adverse Weather

3.2.3 A-52.9, Overtime Work Policy For Operations Personnel

3.2.4 A-52.10, Overtime Work Policy For Key Maintenance Personnel

3.2.5 10 CFR50.54, Conditions of License

4.0 PRECAUTIONS

None.

5.0 PREREQUISITES

5.1 Severe weather is forecasted for the Rochester area by means of a weather warning by WOKR weather service or the National Weather Service (NWS). Reliable information on approaching severe weather disturbances is expected to be available from:

a. WOKR weather service

b. Energy Control Center contract meteorological services

c. National Weather Service

5.2 Weather conditions at the site have degraded or may be degraded to the point that plant personnel and normal plant activities may be affected.

6.0 ACTIONS

NOTE: **IN THE EVENT THAT SEVERE WEATHER IS FORECASTED FOR THE ROCHESTER AREA, THE FOLLOWING ACTIONS SHOULD BE TAKEN AS APPROPRIATE. THE RECOMMENDATIONS ARE POSSIBLE ACTIONS TO BE TAKEN. SINCE EACH WEATHER EVENT IS UNIQUE, NOT ALL RECOMMENDATIONS HAVE TO BE IMPLEMENTED. EACH MANAGER SHOULD CHOOSE THE APPROPRIATE ACTIONS BASED IN THE FORECAST.**

6.1 Recommendations to the Plant Manager:

6.1.1 Tie down or move to a more secure location, equipment and other items that may be dislodged by the forecasted weather.

6.1.2 Perform communications checks of all emergency communication systems in the TSC, EOF, Control Room and Survey Center.

6.1.3 Ensure all portable radios are operational and all spare batteries are fully charged.

6.1.4 Coordinate the following:

a. Obtain and properly store the necessary supplies for Operations, Maintenance, Security, and support personnel staying on site during the storm. Consider the following supplies:

1. food items
2. water, beverages
3. paper plates, cups

4. plastic utensils
5. paper towels
6. soap

b. Make arrangements for obtaining portable bedding as required by the amount of staff expected to remain on site through the storm.

c. Ensure medical support (staff) and adequate medical supplies are available.

d. For personnel safety, consider the need for the following plant announcements:

- stop all outside activities
- remain away from glass windows
- seek shelter in lower elevations of the plant
- report to your supervisor to perform a "head count" for your work group
- limit travel between buildings.

6.1.5 Make arrangements for personnel who might be required to support the plant during and immediately following the storm to be available and onsite.

6.1.6 Consult with Emergency Planning personnel to inform the state and counties of the circumstances and to provide additional support as necessary.

6.1.7 Consult with corporate officials on arranging for support personnel and equipment to be transported to the site after passage of the severe weather.

6.1.8 Volunteers who remain at the plant during the severe weather should be identified and accounted for.

6.1.9 All unnecessary personnel and all visitors in the Protected Area should be advised to leave when a severe weather warning is issued for the area, assuming that sufficient time is available to reach a safe location. Otherwise, provide them with protection onsite.

6.1.10 Release non-essential personnel in a phased, controlled manner as the severe weather preparations are completed or as personal circumstances dictate. Ensure release of personnel is far enough in advance of severe weather to allow personnel to arrive safely at their homes and avoid any undue traffic congestion. During or after the severe weather, contact the county emergency managers to determine road conditions to ensure the safety or personnel arriving or departing the site.

6.1.11 Order all unnecessary work stopped.

6.1.12 During and following the storm, plant management may use 10CFR50.54(x). Examples would be to suspend fire watches and security patrols.

6.1.13 Establish a shift schedule for the additional response personnel that are providing continuous plant support.

6.1.14 Brief the Nuclear Operations Group (NOG) response personnel who will remain onsite and corporate executives on the severe weather, safety precautions, expected duties, potential problems, contingencies and communications systems using e-mail and telephone calls.

6.1.15 Prior to the forecasted storm, perform walkdowns of the plant exterior and site with key managers to inspect for and reduce potential missiles.

6.1.16 Consider assembling all personnel in the power block or other safe location prior to the arrival of the severe weather. If unexpected severe weather occurs, consider establishing a point of contact for each building so that if an emergency exists, and assistance is needed, it can be coordinated promptly. This should include the white house, simulator, training center, warehouse and manor house.

6.1.17 Ensure appropriate notifications are made when its safe to return to work.

6.2 Recommendations to the Maintenance Manager:

6.2.1 Ensure scaffolding that would be exposed to high winds is removed or secured.

6.2.2 Survey construction sites to ensure all light material is either tied down, secured or placed indoors.

6.2.3 Secure electrical services to temporary facilities, if necessary.

6.2.4 If time permits, disassemble and remove temporary and portable buildings or structures that could be damaged by strong winds.

6.2.5 Solicit volunteers for round-the-clock staffing maintenance activities. Attempt to resolve any personal considerations. Follow guidelines in A-52.10. If there are conflicts, bring them to the attention of the Plant Manager.

6.2.6 Designate storm duty vehicles. Establish location for storm duty vehicles inside a protected area. Ensure these vehicles are serviced and refueled.

6.3 Recommendations to the Operations Manager:

6.3.1 Determine, if it is necessary, to position operators in buildings that would be inaccessible because of the inability to move between buildings during the height of the severe weather. This will ensure that they will be available to take corrective action if failures occur during the severe weather (i.e., screenhouse).

6.3.2 Make arrangements for sufficient Operations personnel who might be required to be at the plant during and immediately following the storm in order to provide the necessary coverage. Follow guidelines in A-52.9. If there are conflicts, bring them to the attention of the Plant Manager.

6.3.3 If the operator rounds on outside equipment are to be temporarily suspended during the severe weather, have the shift supervisor document the decision.

6.3.4 If appropriate, perform an operability run on each emergency diesel generator.

6.3.5 Suspend unnecessary water usage. (i.e. AVT regenerations).

6.3.6 Fill the condensate storage tanks and demineralized water storage tanks.

6.3.7 Verify battery chargers and applicable station vital batteries are operational.

6.3.8 Ensure that adequate inventories of hydrogen and nitrogen are available to accommodate a unit shutdown and subsequent startup.

6.3.9 Review procedures that might be required as a result of the storm (e.g. loss of offsite power).

6.3.10 If appropriate, perform a test of the security and TSC diesels.

6.3.11 Make permissible liquid and gaseous releases before the severe weather arrives; waste water and waste gas inventories should be at a minimum.

6.3.12 Ensure adequate inventories of chemicals (such as boric acid, ammonia, hydrazine),are available and staged.

6.3.13 Suspend all fuel movement, if applicable; place all refueling equipment in a safe condition.

6.3.14 Arrange to have fuel oil storage tanks for the emergency diesel generators topped off.

6.4 Recommendations to the Radiation Protection and Chemistry Manager:

6.4.1 Ensure that all batch radioactive release permits are completed so waste tank inventories are at a minimum, prior to the onset of severe weather.

6.4.2 Instruct radiation protection personnel to inspect outside areas for radioactive materials that need to be stored inside or protected from severe weather. The radioactive waste stored on site is to be adequately protected from the elements. This will prevent the spread of low level radioactive waste during the severe weather.

6.4.3 Make arrangements for sufficient personnel to be at the plant during the storm in order to provide the necessary coverage for a time period during which the plant may be inaccessible.

6.4.4 Ensure adequate make up water is available.

6.5 Recommendations to the Security Manager:

6.5.1 If time permits prior to the severe weather, ensure that all visitors have been asked to leave the site.

6.5.2 Account for all personnel who are to remain on site.

6.5.3 Make arrangements for sufficient security personnel who might be required to support the plant during and immediately following the severe weather to be available and onsite.

6.5.4 Determine if and when security patrols outside are to be temporarily suspended during the storm. Document this decision.

6.6 Post Storm Assessment

6.6.1 Plant management should assess the impact of the severe weather on plant safety and determine whether to remain at power or, if the plant is shutdown, to restart.

6.6.2 RG&E Emergency Planning will contact Monroe and Wayne County Emergency Management Offices to determine the status of offsite emergency preparedness and will report to plant management.

6.6.3 Plant management will keep the NRC informed of actions and status.

7.0 Attachments

None.

ROCHESTER GAS & ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

PROCEDURE NO. EPIP 2-4 REV. NO. 12

EMERGENCY DOSE PROJECTIONS - MANUAL METHOD

RESPONSIBLE MANAGER

06/21/2000

EFFECTIVE DATE

Category 1.0

This procedure contains 16 pages

EPIP 2-4

EMERGENCY DOSE PROJECTIONS - MANUAL METHOD

1.0 PURPOSE

1.1 The purpose of this procedure is to provide a manual method for performing projections of downwind doe rates and doses. Such information is needed to decided upon protective actions to be recommended to limit the exposure of the general public and emergency workers. This procedure is intended as a backup to EPIP 2-5.

2.0 RESPONSIBILITY

The TSC or EOF Dose Assessment Manager is responsible for implementing this procedure.

3.0 REFERENCES

3.1 Developmental References

3.1.1 Nuclear Emergency Response Plan

3.1.2 EPA-400, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents (1991)

3.1.3 Ginna UFSAR, Chapter 15

3.1.4 Regulatory Guide 1.109

3.2 Implementing References

3.2.1 EPIP 2-1, Protective Action Recommendations

3.2.2 EPIP 2-2, Obtaining Meteorological Data and Forecasts and their use is Emergency Dose Assessment

3.2.3 EPIP 2-3, Emergency Release Rate Determination

4.0 PRECAUTIONS

None.

5.0 **PREREQUISITES**

5.1 The following equipment and data sources are available for use in performing manual dose projections.

5.1.1 Xu/Q tabulated values (Attachment 2)

5.1.2 Wind and temperature indications from the Control Room

5.1.3 Plant Process Computer System (PPCS) - EVENT 2 Report

5.1.4 Control Room Radiation Monitor System (RMD) Panel read-outs of effluent monitors

5.1.5 Personal Computer in TSC and EOF (for obtaining 15 minute meteorological data average from Ginna Primary Weather Tower)

5.1.6 Back-up wind speed and direction indications at Station 13A (accessible from TSC or EOF IBM terminals) and National Weather Service.

6.0 **ACTIONS**

6.1 Preliminary Downwind Dose Estimates

6.1.1 For initial notifications purposes, a preliminary estimate of potential offsite doses and releases may be obtained by the Control Room using EPIP 2-18.

6.1.2 For calculations performed by the Control Room, TSC and EOF staffs,a 4-hour release duration should be used if the duration is not known. A 4-hour release duration is consistent with the value used by Wayne and Monroe Counties.

6.1.3 If iodine effluent monitor or isotopic data are unavailable, a default value of 1.0E-4 should be used to reflect the estimated release concentration ratio of gross iodine to noble gas. (See Attachment 1)

NOTE: **WHEN DATA IS AVAILABLE, CALCULATE AN IODINE-TO-NOBLE GAS RATIO THAT REFLECTS PRESENT CONDITIONS.**

6.1.4 Determine the classification of the emergency with respect to plant releases and site boundary doses from the criteria provided in EPIP 1-0.

6.2 Use of Meteorological and Release Data with EPA Dose Factors Manual Method

NOTE: **ANY PRELIMINARY DOES ESTIMATES USED AS A BASIS FOR EMERGENCY CLASSIFICATION OR PROTECTIVE ACTION RECOMMENDATIONS SHOULD BE REFINED AS FOLLOWS USING RELEASE MEASUREMENTS AND ACTUAL METEOROLOGICAL SAMPLING DATA AS THEY BECOME AVAILABLE.**

6.2.1 Meteorological Data (15 min. averages) can be obtained by modem from the MIDAS storage computer in the Meteorological Tower Trailer by using the Personal Computer. (See EPIP 2-2 for instructions.)

6.2.2 Determine Pasquill Stability Class (A-G), using Attachment 2, in this procedure.

6.2.3 Obtain concentration or particulate, noble gas or iodines and vent flow to determine release rate. Refer to EPIP 2-3 or refer to the listing of effluent monitor calibration factors provided in Attachment 6 to this procedure.

NOTE: **Standard Release Rates***

Plant Vent	**=**	**7.44E4 cfm**
Containment	**=**	**1.02E4 cfm**
Air Ejector	**=**	**6.00E2 cfm**
Steam Vent	**=**	**See EPIP 2-3**

*** Verify values with Dose Assessment Manager**

6.2.4 To calculate the downwind concentration of noble gas, particulates or radioiodine, multiply the release rate of radioactivity (Ci/sec) from the plant times the X/Q (sec/m^3) dispersion coefficient determined in Attachment 1. The resultant concentration will be µCi/cc. Perform these calculations on Attachment 1.

6.2.5 Obtain an initial release estimate of release duration from the TSC Emergency Coordinator or Recovery Manager. If this estimate is unavailable, use an initial release duration estimate of 4 hours for dose projection purposes.

6.2.6 Whole body gamma <u>dose rate</u> due to noble gas and radioiodine isotopes is estimated using Attachments 3 and 4 and using the listed factor corresponding to the approximate time after shutdown. Multiply this factor times the concentration calculated in Step 6.2.4 to get Rem/hour.

6.2.7 Whole body gamma <u>dose</u> is obtained by multiplying the dose rate calculated in Step 6.2.6 times the integrated exposure determined in Step 6.2.5.

6.2.8 Thyroid dose rate to the child (actually, the thyroid dose commitment per hour of inhalation) is estimated using Attachment 5 and using the listed factor corresponding to the time after shutdown. Multiply this factor times the concentration calculated in Step 6.2.4 to get Rem/hour. Project dose rates are always determined for child thyroid as they are the most critical population group. To determine the dose or dose rate for adults (which would only be necessary for emergency workers) divide the dose or dose rate for the child by 2.

6.2.9 Thyroid dose is found by multiplying the dose rate calculated in step 6.2.8 times the exposure time determined in step. 6.2.5.

6.3 Protective Action Recommendations

6.3.1 Recommend the appropriate measures for the general public in accordance with EPIP 2-1.

6.3.2 Weather forecast information should be considered when planning protective actions. Refer to EPIP 2-2 for instructions to obtain weather forecast information.

7.0 ATTACHMENTS

1. Dose Assessment Calculation
2. Pasquill Stability Class Criteria
3. Noble Gas Whole Body Dose Conversion Factors
4. Radioiodine Whole Body Dose Conversion Factors
5. Radioiodine Thyroid Dose Conversion Factors
6. RMS Process Monitor Calibration Factors

DOSE ASSESSMENT CALCULATION

GENERAL INFORMATION:

Current Time: _____

Shutdown Time: _____

Release Start Time: _____

Release Vent: Plant Vent Air Ejector ARV or Safety
Containment Vent Other

Stability Class: A B C Unstable D Neutral E F G Stable

Vent Flow (CFM): _____
See Step 6.2.3 for flow rates

VENT CONCENTRATION FROM EFFLUENT MONITOR READING:

NOTE: Vent concentration can be input directly from SPING monitors, if available.

Noble Gas (Monitor Number _____):

_____ cpm (count rate) X _____ (calib. factor) $\frac{\mu Ci/cc}{cpm}$ = _____ µCi/cc* (vent cond.)

Radioiodine (Montior Number _____):

_____ (later counts) - _____ (initial counts) / _____ hours (time between readings)

_____ (Δ cpm/hr from monitor) X _____ (calib. factor) = _____ µCi/cc (vent cond.)

Particulate (Monitor Number _____):

_____ cpm (count rate) X _____ (calib. factor) $\frac{\mu Ci/cc}{cpm}$ = _____µCi/cc* (vent cond.)

Flowrate Conversion (Convert CFM to cc/sec) (Step 6.2.3)

_____ CFM X 2.8E4 cc/ft^3 X 1 min/60 sec = _____ cc/sec

NOBLE GAS:

To calculate release RATE in Ci/sec from monitors:

_____ µCi/cc x _____ cc/sec x 1E-6 µCi/cc = _____ Ci/sec

NOTE: TO PREDICT DOWNWIND CONCENTRATION, OBTAIN FIRST VALUE FROM ATTACHMENT 2.

NOTE: THE WIND SPEED INDICATOR AT THE 33 FOOT LEVEL IS DESIGNED TO MEASURE ONLY TO 50 MILES PER HOUR.

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at S.B. 500 meters

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at 2 miles

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at 5 miles

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at 10 miles

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at_____ (distance)

Hours after shutdown _____

Rem/hr. per µCi/cc (Attachment 3): _____

Distance	SB	2 miles	5 miles	10 miles	_____
Noble Gas Whole Body Dose Rate (REM/hour)	_____	_____	_____	_____	_____
Projected duration (Hours)	_____	_____	_____	_____	_____
Noble Gas Projected Whole Body Dose (REM) (External Dose Equivalent - EDE)	_____	_____	_____	_____	_____

RADIOIODINE:
To calculate release RATE in Ci/sec from monitor:
(or use appropriate NG to I Default 1:1E-4)

_____ µCi/cc x _____ cc/sec x 1E-6 µCi/cc = _____ Ci/sec

NOTE: THE WIND SPEED INDICATOR AT THE 33 FOOT LEVEL IS DESIGNED TO MEASURE ONLY TO 50 MILES PER HOUR.

To predict downwind concentration:

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at S.B. 500 meters

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at 2 miles

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at 5 miles

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at 10 miles

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at _____ (distance)

Hours after shutdown _____

Rem/hr. per µCi/cc (Attachment 4): _____

Distance	SB	2 miles	5 miles	10 miles	_____
Radioiodine Whole Body Dose Rate (REM/hour)	_____	_____	_____	_____	_____
Projected duration (Hours)	_____	_____	_____	_____	_____
Radioiodine Projected Whole Body Dose (REM) (Committed Effective Dose Equivalent - CEDE)	_____	_____	_____	_____	_____
+ PLUS +					
Noble Gas Projected Whole Body Dose (REM) from previous page (External Dose Equivalent - EDE)	_____	_____	_____	_____	_____
+ EQUALS +					
TOTAL Projected Whole Whole Body Dose (REM) (Total Effective Dose Equivalent - (TEDE)	_____	_____	_____	_____	_____

RADIOIODINE: (continued)

To calculate release RATE in Ci/sec from monitors:
(or use appropriate NG to I DEFAULT 1:1E-4)

_____ µCi/cc x _____ cc/sec x 1E-6 µCi/cc = _____ Ci/sec

Rem/hr. per µCi/cc (Attachment 5): _____

Distance	SB	2 miles	5 miles	10 miles	_____
Radioiodine Whole Body Dose Rate (REM/hour)	_____	_____	_____	_____	_____
Projected duration (Hours)	_____	_____	_____	_____	_____
Radioiodine Projected Thyroid Dose (REM) (Committed Dose Equivalent - CDE)	_____	_____	_____	_____	_____

PARTICULATE:

To calculate release RATE in Ci/sec from monitors:

_____ µCi/cc x _____ cc/sec x 1E-6 µCi/cc = _____ Ci/sec

NOTE: THE WIND SPEED INDICATOR AT THE 33 FOOT LEVEL IS DESIGNED TO MEASURE ONLY TO 50 MILES PER HOUR.

To predict downwind concentration:

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at S.B. 500 meters

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at 2 miles

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at 5 miles

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at 10 miles

_____ $\frac{\text{sec-mph}}{m^3}$ x _____ Ci/sec x 1/( ) mph (windspeed) = _____ µCi/cc at_____ (distance)

Hours after shutdown _____

Rem/hr. per µCi/cc: _____

Distance	SB	2 miles	5 miles	10 miles	_____
Particulate Whole Body Dose Rate (REM/hour)	_____	_____	_____	_____	_____
Projected duration (Hours)	_____	_____	_____	_____	_____
Particulate Projected Whole Body Dose (REM)	_____	_____	_____	_____	_____

NOTE: THE APPROPRIATE DOSE CONVERSION FACTOR FOR PARTICULATES WOULD BE BASED UPON THE RESULTS OF AN ISOTOPIC ANALYSIS OF THE MIXTURE AND REFERENCING EPA-400-R-92-001.

PASQUILL STABILITY CLASS CRITERIA

PASQUILL STABILITY CLASS	DELTA T (DEG F/100 FT)		150 FT - 33 FT DELTA T (DEG F/117 FT)		250 FT - 33 FT DELTA T (DEG F/217 FT)	
	GREATER THAN	LESS THAN OR EQUAL TO	GREATER THAN	LESS THAN OR EQUAL TO	GREATER THAN	LESS THAN OR EQUAL TO
A	---	1.0	---	-1.17	---	-2.17
B	-1.0	-0.9	-1.17	-1.05	-2.17	-1.95
C	-0.9	-0.8	-1.05	-0.94	-1.95	-1.74
D	-0.8	-0.3	-0.94	-0.35	-1.74	-0.65
E	-0.3	0.8	-0.35	0.94	-0.65	1.74
F	0.8	2.2	0.94	2.57	1.74	4.77
G	2.2	---	2.57	---	4.77	---

PASQUILL STABILITY CLASS CRITERIA

GINNA SITE VALUES OF Xu/Q AS A FUNCTION OF STABILITY AND DISTANCE

		UNSTABLE		NEUTRAL (D)		STABLE (F)	
MILES	A	B	C	D	E	F	G
0.1	4.48E-5	2.32E-4	6.44E-4	9.16E-4	9.35E-4	1.18E-3	1.22E-3
0.2	1.91E-5	7.88E-5	2.29E-4	3.89E-4	4.37E-4	6.30E-4	7.35E-4
0.3 SB	1.16E-5	4.20E-5	1.25E-4	2.36E-4	2.80E-4	4.36E-4	5.46E-4SB
0.4	8.12E-6	2.68E-5	8.15E-5	1.65E-4	2.04E-4	3.35E-4	4.43E-4
0.5	6.17E-6	1.90E-5	5.84E-5	1.26E-4	1.60E-4	2.74E-4	3.76E-4
0.6	4.93E-6	1.43E-5	4.45E-5	1.00E-4	1.31E-4	2.32E-4	3.29E-4
0.7	4.08E-6	1.12E-5	3.54E-5	8.29E-5	1.11E-4	1.60E-4	2.94E-4
0.9	2.99E-6	7.60E-6	2.43E-5	6.08E-5	8.40E-5	1.60E-4	2.44E-4
1.0	2.63E-6	6.45E-6	2.08E-5	5.33E-5	7.49E-5	1.46E4	2.26E-4
1.1	2.34E-6	5.56E-6	1.80E-5	4.74E-5	6.74E-5	1.34E-4	2.11E-4
1.2	2.10E-6	4.86E-6	1.58E-5	4.26E-5	6.13E-5	1.23E-4	1.98E-4
1.6	1.47E-6	3.11E-6	1.03E-5	2.99E-5	4.47E-5	9.50E-5	1.60E-4
1.9	1.19E-6	2.38E-6	7.98E-6	2.41E-5	3.70E-5	8.12E-5	1.41E-4
2.0	1.12E-6	2.20E-6	7.39E-6	2.27E-5	3.50E-5	7.75E-5	1.36E-4
2.2	9.95E-7	1.89E-6	6.41E-6	2.01E-5	3.15E-5	7.11 E-5	1.27E-4
2.5	8.50E-7	1.55E-6	5.30E-6	1.72E-5	2.74E-5	6.33E-5	1.16E-4
2.8	7.39E-7	1.30E-6	4.47E-6	1.50E-5	2.42E-5	5.71 E-5	1.06E-4
3.0	6.79E-7	1.17E-6	4.04E-6	1.37E-5	2.24E-5	5.36E-5	1.01E-4
3.5	5.62E-7	9.20E-7	3.21E-6	1.14E-5	1.90E-5	4.66E-5	9.04E-5
3.7	5.24E-7	8.44E-7	2.95E-6	1.06E-5	1.78E-5	4.43E-5	8.68E-5
4.0	4.76E-7	7.47E-7	2.63E-6	9.63E-6	1.64E-5	4.41 E-5	8.20E-5
4.2	4.49E-7	6.93E-7	2.44E-6	9.07E-6	1.55E-5	3.95E-5	791 E-5
4.5	4.12E-7	6.22E-7	2.20E-6	8.33E-6	1.44E-5	3.71 E-5	7.52E-5
4.8	3.81E-7	5.63E-7	2.00E-6	7.69E-6	1.34E-5	3.50E-5	7.17E-5
5.0	3.62E-7	5.28E-7	1.88E-6	7.31E-6	1-28E-5	3.37E-5	6-98E-5
5.2	3.45E-7	4.97E-7	1.78E-6	6.96E-6	1.23E-5	3.25E-5	6.76E-5
5.5	3.22E-7	4.55E-7	1.63E-6	6.50E-6	1.15E-5	3.09E-5	6.49E-5
5.8	3.01E-7	4.19E-7	1.51E-6	6-09E-6	1.09E-5	2.94E-5	6.24E-5
6.0	2.98E-7	3.98E-7	1.44E-6	5.84E-6	1.05E-5	2.85E-5	6-09E-5
6.2	2.78E-7	3.78E-7	1.37E-6	5.60E-6	1.01 E-5	2.77E-5	5.95E-5
6.5	2.62E-7	3.51E-7	1.27E-6	5.29E-6	9.61 E-6	2.65E-5	5.74E-5
6.8	2.48E-7	3.27E-7	1.19E-6	5.00E-6	9.15E-6	2.55E-5	5.56E-5
7.0	2.39E-7	3.13E-7	1.14E-6	4.82E-6	8.86E-6	2.48E-5	5.44E-5
7.2	2.31E-7	3.00E-7	1.09E-6	4.66E-6	8.59E-6	2.42E-5	5.33E-5
7.5	2.20E-7	2.81E-7	1.03E-6	4.43E-6	8.22E-6	2.33E-5	5.17E-5
7.8	2.09E-7	2.65E-7	9.71E-7	4.22E-6	7.87E-6	2.25E-5	5.03E-5
8.0	2.03E-7	2.54E-7	9.35E-7	4.09E-6	7.66E-6	2.20E-5	4.93E-5
8.2	1.§7E-7	2.45E-7	9.01E-7	3.97E-6	7.45E-6	2.15E-5	4-85E-5
8.5	1.88E-7	2.31E-7	8.54E-7	3.80E-6	7.16E-6	2.08E-5	4.72E-5
8.8	1.80E-7	2.19E-7	8.11E-7	3.64E-6	6.90E-6	2.01 E-5	4.60E-5
9.0	1.75E-7	2.12E-7	7.84E-7	3.54E-6	6.73E-6	1.97E-5	4.53E-5
9.2	1.71E-7	2.05E-7	7.59E-7	3.44E-6	6.57E-6	1.93E-5	4.45E-5
9.5	1.64E-7	1.95E-7	7.23E-7	3.31E-6	6.34E-6	1.88E-5	4.35E-5
9.8	1.58E-7	1.85E-7	6.91E-7	3.18E-6	6.13E-6	1.83E-5	4.25E-5
10.0	1.54E-7	1.80E-7	6.70E-7	3.11E-6	5.99E-6	1.79E-5	4.19E-5

SB = Site Boundary

NOBLE GAS DOSE CONVERSION FACTORS FOR WHOLE BODY (EDE)

Time After Shutdown (Hours)	Rem/Hour Per µCi/cc
0	470
1	434
2	331
3	265
4	221
6	159
12	65

NOTE: MULTIPLY MCI/CC BY THE LISTED FACTOR TO OBTAIN REM/HOUR.

RADIOIODINE DOSE CONVERSION FACTORS FOR WHOLE BODY (CEDE)

Time After Shutdown (Hours)	Rem/Hour Per µCi/cc
0	1.73E4
1	1.57E4
2	1.76E4
3	1.92E4
4	2.05E4
6	2.24E4
12	2.65E4

NOTE: MULTIPLY MCI/CC BY THE LISTED FACTOR TO OBTAIN REM/HOUR.

RADIOIODINE CONVERSION FACTORS FOR THYROID (CDE)

Time After Shutdown (Hours)	Rem/Hour Per µCi/cc*
0	4.4E5
1	5.4E5
2	6.4E5
3	7.4E5
4	7.8E5
6	8.8E5
12	1.1E6

NOTE: MULTIPLY MCI/CC BY THE LISTED FACTOR TO OBTAIN REM/HOUR.

* These conversion factors have been increased by a factor of two. EPA-400 uses the adult thyroid. New York State has increased EPA-400 factors by two to adjust for child thyroid.

RMS PROCESS MONITOR CALIBRATION FACTORS

R-10A CONTAINMENT IODINE:

µCi/cc Iodine-131 = (Δ cpm/hour) (1.10 E-11)

R10B PLANT VENT IODINE:

µCi/cc Iodine-131 = (Δ cpm/hour) (9.02 E-12)

R-11 CONTAINMENT PARTICULATE:

µCi/cc as Cs-137 = (cpm) (3.12 E-12)

R-12 CONTAINMENT GAS:

µCi/cc Xe-133 = (cpm) (5.6 E-8)

R-13 PLANT VENT PARTICULATE:

µCi/cc as Cs-137 = (cpm) (2.91 E-12)

R-14 PLANT VENT GAS:

Calibration factors calculated based on Kr-85 and Xe-133 calibration factors.

µCi/cc as Xe-133 = (cpm) (5.6 E-8)

R-15 AIR EJECTOR AND GLAND STEAM EXHAUST GAS:

µCi/cc Xe-133 = (cpm) (4.6 E-8)

µCi/cc as normal gas mixture * = (cpm) (5.0 E-8)

* Based on the mixture of noble gas present in the reactor coolant during the 01/25/82 tube rupture which is representative of normal operations.

R-16 CONTAINMENT FAN COOLER SERVICE WATER:

µCi/cc as Cs-137 = (cpm) (1.5 E-8)

R-17 COMPONENT COOLING:

µCi/cc as Cs-137 = (cpm) (1.4 E-8)

RMS PROCESS MONITOR CALIBRATION FACTORS

R-18 RADWASTE SYSTEM DISCHARGE::

µCi/cc as Cs-137 = (cpm) (1.4 E-8)

R-19 STEAM GENERATOR BLOWDOWN:

µCi/cc as Cs-137 = (cpm) (1.4 E-8)

R-2OA SPENT FUEL POOL HEAT EXCHANGER SERVICE WATER:

µCi/cc as Cs-137 = (cpm) (2.4 E-8)

R-20B SPENT FUEL POOL HEAT EXCHANGER SERVICE WATER

µCi/cc as Cs-137 = (cpm) (1.7 E-7)

R-21 RETENTION TANK:

µCi/cc as Cs-137 = (cpm) (1.5 E-8)

R-22 HIGH CONDUCTIVITY WASTE TANK:

µCi/cc as Cs-137 = (cpm) (1.2 E-8)

R-31 STEAM LINE RADIATION MONITOR:

mr/hr = (cpm) (2.11 E-2)

R-32 STEAM LINE RADIATION MONITOR:

mr/hr = (cpm) (2.02 E-2)

R-36 CONTROL ROOM NOBLE GAS MONITOR:

µCi/cc as Kr-85 = (cpm) (1.75 E-8)

µCi/cc as Xe-133 = (cpm) (1.41 E-7)

R-37 CONTROL ROOM PARTICULATE MONITOR:

µCi/cc as Cs-137 = (cpm) (1.68 E-12)

R38 CONTROL ROOM IODINE MONITOR:

µCi/cc as I-131 = (cpm) (2.51 E-12)

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

PROCEDURE NO. EPIP 2-6 REV. NO. 11

EMERGENCY DOSE PROJECTIONS - MIDAS PROGRAM

RESPONSIBLE MANAGER

06/21/2000

EFFECTIVE DATE

CATEGORY 1.0

THIS PROCEDURE CONTAINS 10 PAGES

EPIP 2-6

EMERGENCY DOSE PROJECTIONS - MIDAS PROGRAM

1.0 **PURPOSE**

1.1 The purpose of this procedure is to provide operating instructions for using the emergency dose assessment routines contained in the MIDAS program.

2.0 **RESPONSIBILITY**

The TSC or EOF Dose Assessment Manager is responsible for implementing this procedure.

3.0 **REFERENCES**

3.1 Developmental References

3.1.1 MIDAS User's Manual. Prepared by Pickard, Lowe and Garrick, Inc.

3.1.2 EPA-400, Manual of Protective Action Guides and Protective Actions for Nuclear Incidents (1991)

3.1.3 Ginna UFSAR, Chapter 15.

3.1.4 Regulatory Guide 1.109

3.2 Implementing References

3.2.1 EPIP 2-1, Protective Action Recommendations

3.2.2 EPIP 2-2, Obtaining Meteorological Data and Forecasts and Then Use in Emergency Dose Assessment

3.2.3 EPIP 2-3, Emergency Release Rate Determination

3.2.4 EPIP 2-4, Emergency Dose Projections - Manual Method

4.0 **PRECAUTIONS**

4.1 The MIDAS program will disconnect if the initial entry responses are incorrectly entered three times.

4.2 In the event of any computer or phone problems, call Pickard, Lowe & Garrick (PL&G) at 301-907-9100.

5.0 **PREREQUISITES:**

None.

6.0 **ACTIONS:**

6.1 Turn on personal computer, monitor and HP printer.

6.2 Use of MIDAS computer program

6.2.1 Double click the mouse pointer on the MIDAS icon.

6.2.2 When the TGRAF program menu appears select option 1 and <RETURN>.

NOTE: TO EXIT PROGRAM ENTER ALT X.

6.2.3 Wait for the blinking cursor in the upper left corner of the monitor. To call MIDAS enter:

ATDT913016577461
or
ATDT913016577462

and <RETURN>

NOTE: THE USERNAME AND PASSWORD ARE POSTED ON THE GATEWAY 2000 TERMINALS.

6.2.4 The following should appear on the screen:

Welcome to VAX/VMS V5.5-1
Username:

6.2.5 Enter the USERNAME: and <RETURN>, followed by the PASSWORD: and <RETURN>.

6.2.6 The MIDAS logo will appear.

At the FUNCTION MENU Choose:

"ACCIDENT DOSE CALCULATIONS (AC)"
then, select CONFIRM.

6.2.7 At the ACCIDENT DOSE CALCULATIONS (AC) menu choose:

the location from which you are operating,
then select CONFIRM.

6.2.8 At the ACCIDENT RUN MENU SELECTION choose:

"MODEL 1 TSC LETTER A MANUAL ENTRY" or "MODEL 1 EOF LETTER G MANUAL ENTRY"
then, select CONFIRM.

6.2.9 At the MISCELLANEOUS PARAMETERS menu choose:

"MANUAL" and
Set "MAX DIST DOWNWIND (MILES)" to 10 and turn on:
"REL PT 1 PLT VT" - for Plant Vent (R-14) releases
"REL PT 2 CONT VT" - for Containment Vent releases
"REL PT 3 AIR EJ" - for Air Ejector (R-15) releases
"REL PT 4 STM VL" - for other releases (i.e. ARV/Safety)

NOTE: **STANDARD VALVES ARE AS FOLLOWS:**

PLANT VENT	**=**	**7.44E+04 CFM**
CONTAINMENT VENT	**=**	**1.02E+04 CFM**
AIR EJECTOR	**=**	**6.00E+02 CFM**
STEAM VENT	**=**	**(SEE EPIP 2-3)**

6.2.9.1 Adjust release point flows by selecting associated FLOW (EX VEL) by:

a. clicking on the box
b. select the proper flowrate on the calculator in the upper right side of the menu. (Press BS to backspace, CL to clear number)
c. when the proper number is displayed choose EN

6.2.9.2 Choose CONFIRM when data is correct.

NOTE: **THE MIDAS PROGRAM IS ALWAYS IN EASTERN STANDARD TIME (EST). (DURING EASTERN DAYLIGHT SAVINGS TIME SUBTRACT 1 HOUR FROM ALL TIMES) (EDST)**

6.2.10 At the RUN TIME AND INTEGRATION TIME SELECTION menu choose:

"PROJECTED (FORECAST) DOSE", set "START DATE OF INTEGRATION" to release start time and set "PROJ. TIMES (HRS)" to 4, then select CONFIRM.

6.2.11 At the RELEASE OPTION MENU choose:

"MANUAL ENTRY OF EACH MONITOR READING" then, select CONFIRM

6.2.12 At the DBA ACCIDENT TYPE SELECTION menu choose:

"UNKNOWN MIX" then select CONFIRM.

NOTE: **FOR A GIVEN VENT, DO NOT ENTER DATA FROM MORE THAN ONE MONITOR MEASURING THE SAME RELEASE PARAMETERS. (E.G., IF ENTERING A READING FOR R-14 (PLANT VENT NOBLE GAS), DO NOT ALSO ENTER A READING FROM SPING 2-7, WHICH IS ALSO INDICATING PLANT VENT NOBLE GAS).**

6.2.13 At the RADIATION MONITOR READINGS menu, input the reading for the radiation monitors to be processes.

6.2.14 Choose CONFIRM when the data is correct.

6.2.15 At the RELEASE TIMING SELECTION menu,

a. Select "TRIP DATE" and enter the correct reactor shutdown time.
b. Select "RELEASE DURATION" and enter expected release duration. (If unknown enter 240 minutes [4 hours]).
c. Select "RELEASE START MIN SINCE TRIP" and enter minutes between reactor shutdown time and release start time.

6.2.16 Choose CONFIRM when the data is correct.

6.2.17 At the WEATHER SELECTION menu enter:

NOTE: **THE WIND SPEED INDICATOR AT THE 33 FOOT LEVEL IS DESIGNED TO MEASURE ONLY TO 50 MILES PER HOUR.**

a. 33 ft. wind speed (SP33A)
b. 33 ft. direction (DR33A)
c. 150 ft. delta temperature (DT150A)
d. 33 ft. temperature (TER33A)
e. rain (inches) amount of rain in the last 15 minutes
f. 150 ft. wind speed (SP150A)
g. 150 ft. temperature (TE150A)

6.2.18 Choose CONFIRM when the data is correct.

6.2.19 MIDAS will display "RAD MONITOR CHANNEL DATA". Press ALT-SHIFT-PRINT SCREEN to print this page.

6.2.20 Choose CONTINUE

6.2.21 MIDAS will display "RELEASE POINT DATA". Press ALT-SHIFT-PRINT SCREEN to print this page.

6.2.22 Choose CONTINUE

6.2.23 MIDAS will perform calculations and then draw the Integrated TEDE map. When the map is complete, press ALT-SHIFT-PRINT SCREEN to print this map.

6.2.24 Click on "MAP FEATURES"

6.2.25 Select "WIND SPIDER", then select "CONFIRM".

6.2.26 Select the "POINT OF INTEREST" option, then click the mouse on the plume centerline for any mile radii displayed. (Normally 2 miles, 5 miles and 10 miles)

6.2.27 Press ALT-SHIFT-PRINT SCREEN to print this screen

6.2.28 Select "CURSOR HERE TO EXIT"

6.2.29 Select "CONTINUE"

6.2.30 Choose MET RAD XQ DOSE SUMRY

6.2.31 Press ALT-SHIFT-PRINT SCREEN to print this report.

6.2.32 Choose CONTINUE and print out all of the pages to this report.

6.2.33 When the report has been printed, ask the Dose Assessment Manager if any other reports are desired.

6.2.34 When ready to exit MIDAS perform the following:

Double click the mouse on the EXIT or RESET options until the MIDAS message appears that you are logged off the system.

6.2.35 Press ALT-X. A message will appear asking if you want to exit. Press "Y".

6.2.36 At the TGRAF menu press F10 to exit.

6.2.37 The windows menu should be displayed.

7.0 ATTACHMENTS:

1. Radiation Monitor Location and Types
2. Entry Units for Radiation Effluent Monitors
3. Met Rad XQ Dose Summary

RADIATION MONITOR LOCATION AND TYPES

MONITOR NO	MONITOR ID	RELEASE POINT	MONITOR LOCATION	TYPE OF RADIATION
1	R10B	1	PLANT VENT	IODINE
2	R14	1	PLANT VENT	NOBLE GAS
3	R13	1	PLANT VENT	PARTICULATE
4	SPING2-3	1	PLANT VENT	IODINE (R14A)
5	SPING2-7	1	PLANT VENT	NOBLE GAS (R14A)
6	SPING2-9	1	PLANT VENT	NOBLE GAS (R14A)
7	R10A	2	CONT VENT	IODINE
8	R11	2	CONT VENT	PARTICULATE
9	R12	2	CONT VENT	NOBLE GAS
10	SPING1-3	2	CONT VENT	IODINE (R12A)
11	SPING1-7	2	CONT VENT	NOBLE GAS (R12A)
12	SPING1-9	2	CONT VENT	NOBLE GAS (R12A)
13	R15	3	AIR EJECT	NOBLE GAS
14	SPING3-7	3	AIR EJECT	NOBLE GAS (R15A)
15	SPING3-9	3	AIR EJECT	NOBLE GAS (R15A)
16	DAM3	4	STEAM VENT	
17	ULRPNG-1	4	UNIDENTIFIED	
18	ULRPI-1	4	UNIDENTIFIED	

ENTRY UNITS FOR RADIATION EFFLUENT MONITORS

Monitor	Entry Units
R10B	CPM/hr
R14	CPM
R13	CPM
SPING2-3	uCi/cc
SPING2-7	uCi/cc
SPING2-9	uCi/cc
R10A	CPM/hr
R11	CPM
R12	CPM
SPING1-3	uCi/cc
SPING1-7	uCi/cc
SPING1-9	uCi/cc
R15	CPM
SPING3-7	uCi/cc
SPING3-9	uCi/cc
DAM3	mrem/hr
ULRPNG-1	uCi/cc
ULRPI-1	CPM

DOSE RATE SUMMARY PRINT REPORT

SITE: GINNA MENU: S DATE: 11/16/93 11:18

PROJECTION TIME	SITE BNDRY 0.03 (MI)	2 MILES	5 MILES	10 MILES	PEAK	DISTANCE TO PEAK (MI)
			TEDE DOSE RATE (REM/HR)			
1	2.4E-06	1.4E-06	8.4E-07	2.9E-07	5.4E-06	.3
2	4.6E-11	2.5E-11	6.4E-12	2.2E-12	1.4E-08	13.5
3	4.4E-1	2.5E-11	6.3E-12	2.2E-12	9.5E-11	.4
4	4.2E-11	2.5E-11	5.9E-12	2.1E-12	9.0E-11	.4
			THYROID CDE RATE (REM/HR)			
1	1.9E-07	1.1E-07	2.6E-08	9.4E-09	4.3E-07	.4
2	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	12.6
3	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	.3
4	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	.3
			EDE RATE (REM/HR)			
1	2.4E-06	1.4E-06	8.4E-07	2.9E-07	5.4E-06	.3
2	4.6E-11	2.5E-11	6.4E-12	2.2E-12	1.4E-08	13.5
3	4.4E-1	2.5E-11	6.3E-12	2.2E-12	9.5E-11	.4
4	4.2E-11	2.3E-11	5.9E-12	2.1E-12	9.0E-11	.4
			X/Q (SEC/M3)			
2	4.8E-06	2.7E-06	7.3E-07	2.8E-07	9.4E-06	1.2

PATHWAY SUMMARY PRINT REPORT

SITE: GINNA MENU: S DATE: 11/16/93 11:18

PROJECTION TIME	SITE BNDRY 0.03 (MI)	2 MILES	5 MILES	10 MILES	PEAK	DISTANCE TO PEAK (MI)
			TEDE DOSE RATE (REM/HR)			
1	2.4E-06	1.4E-06	8.4E-07	2.9E-07	5.4E-06	.3
2	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-08	13.5
3	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	.3
4	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	.3
			TEDE 4-DAY GROUND SHINE (REM/HR)			
1	3.0E-07	1.5E-11	2.7E-12	3.8E-09	7.1E-11	.4
2	4.6E-11	2.5E-11	6.4E-12	2.2E-12	9.9E-11	.4
3	4.4E-11	2.5E-11	6.3E-12	2.2E-12	9.5E-11	.4
4	4.2E-11	2.5E-11	5.9E-12	2.1E-12	9.0E-11	.4
			TEDE INHALATION DOSE RATE (REM/HR)			
1	5.7E-08	3.2E-09	7.9E-10	2.8E-10	1.3E-08	.4
2	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.3E-10	12.6
3	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	.3
4	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	.3
			RATIO OF TEDE TO EDE RATE			
1	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.0E+00	.3
2	1.0E+00	1.0E+00	1.0E+00	1.0E+00	2.5E+03	13.5
3	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.9E+00	.4
4	1.0E+00	1.0E+00	1.0E+00	1.0E+00	1.9E+00	.4

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

PROCEDURE NO. EPIP 3-3 REV. NO. 7

IMMEDIATE ENTRY

RESPONSIBLE MANAGER

06/21/2000

EFFECTIVE DATE

Category 1.0

This procedure contains 6 pages

EPIP 3-3

IMMEDIATE ENTRY

1.0 **PURPOSE:**

1.1 To provide instructions for immediate entry to the Ginna site from the Survey Center as required by the Emergency Response Organization.

2.0 **RESPONSIBILITY:**

2.1 The Survey Center Manager is responsible for providing entry teams as requested by the Ginna Station TSC and/or Control Room and assisting in immediate entry preparation.

2.2 Entry team members are responsible for implementation of this procedure.

3.0 **REFERENCES:**

3.1 Developmental References

None.

3.2 Implementing References

3.2.1 EPIP 1-12, Repair and Corrective Action Guidelines During Emergency Situations

3.2.2 EPIP 1-8, Search and Rescue Operation

3.2.3 EPIP 1-9, Technical Support Center Activation

3.2.4 EPIP 1-10, Operational Support Center (OSC) Activation

4.0 **PRECAUTIONS:**

4.1 Designated personnel may be required to enter the site as members of Emergency Response Organization or Emergency Support Organization (EPIP 1-12, EPIP 1-9, EPIP 1-8, EPIP 1-10).

4.2 The size of entry teams shall be two individuals or more.

5.0 **PREREQUISITES:**

5.1 The Emergency Coordinator has requested the dispatch of Entry Teams to the Ginna Site.

5.2 A current **EPIP 1-5 NEW YORK STATE (NYS) RADIOLOGICAL EMERGENCY DATA FORM (PART I), (Attachment 3a)** should be provided to the Survey Center by the RG&E emergency facility (Control Room, TSC or EOF) which has command and control.

6.0 **ACTIONS:**

6.1 **Survey Center Manager**

6.1.1 Using the NYS Part I Form that was faxed to the Survey Center, determine wind direction, wind speed, initiating event conditions and pertinent plant conditions and post information on status board at the Survey Center.

6.1.2 Notify Security and Communicator (TSC or Control Room) that personnel, by name, will need entry to the site.

6.1.3 Assemble the Entry Teams.

6.1.3.1 Designate an Entry Team Leader.

6.1.3.2 Obtain the names of the Entry Team Members.

6.1.3.3 Request a Radiation Protection Technician or Survey Team member to escort the team; otherwise, designate an Entry Team Member to perform the Radiation Protection function.

6.1.3.4 Provide the Entry Team Leader with a portable radio.

6.1.3.4.1 Ensure the Entry Team Leader understands the use of the portable radio.

6.1.4 If the TSC has assumed command and control, notify the TSC Security Manager (or the TSC Radio Communicator) that personnel will require entry to the Ginna Site.

6.1.4.1 If the Control Room has command and control, notify the Control Room Communicator that personnel will require entry to the Ginna Site.

6.1.4.2 Provide the TSC Communicator, TSC Security Manager, or Control Room Communicator with the names of the personnel assigned to the team(s).

6.1.5 Request the Emergency Coordinator provide an entry route.

6.1.5.1 Request the TSC Dose Assessment Manager recommend necessary radiation protection equipment, dosimetry, protective clothing and respiratory protection.

6.1.5.2 Request the TSC Dose Assessment Manager provide an estimate of the radiological conditions the team(s) may encounter.

6.1.6 Brief the team(s) using the NYS Radiological Emergency Data Form (Part I), which was faxed to the Survey Center, before departure to the Ginna Site.

6.1.6.1 The Departure briefing should include:

a. Name of the Entry Team Leader

b. Names of the members of the Entry Team

c. Weather conditions

d. Radiological conditions

e. Plant status, event classification

f. Radiological protection equipment, dosimetry and protective clothing

g. Respiratory protection

h. Route

i. A reminder that the teams DO NOT enter areas with radiation levels greater than 2 Rem/hr unless directed by the Emergency Coordinator

j. A reminder for the teams to remove their anti-contamination clothing upon arrival at the final destination in accordance with radiation protection procedures.

k. A reminder to perform a whole body frisk upon arrival at their destination

6.2 **Entry Teams**

NOTE: ENSURE DOSE RATE METER AND RADIO ARE FUNCTIONING PROPERLY PRIOR TO DEPARTURE.

6.2.1 Entry Team Leader

6.2.1.1 Obtain the names of all members of the Entry Team.

6.2.1.2 Obtain a portable radio.

6.2.1.3 The entry team shall obtain necessary equipment as recommended by a Radiation Technician, TSC Dose Assessment Manager or the Survey Center Manager. In their absence, obtain the equipment listed below:

a. Thermoluminescent dosimeter (TLD)

b. High range dosimeter (0-1500mR)

c. High range dose rate meter (0-1000 R/hr)

d. Anti-contamination clothing

e. Full face mask with charcoal filter

f. Radio

6.2.1.4 Ensure each Entry Team member is aware of the following:

a) Weather conditions

b) Plant conditions

c) Event Classification

d) Route

e) Radiological conditions

6.2.1.5 Just before departure, contact the Emergency Coordinator and brief them on your route and obtain any last minute instructions.

6.2.1.5 Ensure the Entry Team does not enter areas with radiation levels greater than 2 Rem/hr unless directed by the Emergency Coordinator.

6.2.1.6 Ensure Entry Team members remove their anti-contamination clothing upon arrival at the final destination in accordance with radiation protection procedures.

6.2.1.7 Ensure Entry Team members perform a whole body frisk upon arrival at their destination.

6.2.1.8 Report the arrival of the Entry Team to the Emergency Coordinator.

6.2.1.9 Ensure each Entry Team member is accounted for from departure from the Survey Center until arrival at the final destination.

6.2.1.10 Ensure the entire team attends a de-briefing.

6.2.2 <u>Entry Team Member</u>

6.2.2.1 Notify Survey Center Manager, if present, and log on status board that team is leaving for the site.

6.2.2.2 Provide name to the Entry Team Leader.

6.2.2.3 Obtain the necessary radiation protection equipment, dosimetry, and respiratory protection equipment.

6.2.2.4 Know the following:

a) Weather conditions

b) Plant conditions

c) Route

d) Radiological conditions

6.2.2.5 Note any unusual conditions encountered during the entry.

6.2.2.6 Do not enter areas with radiation levels greater than 2 Rem/hr unless directed by the Emergency Coordinator.

6.2.2.7 Remove anti-contamination clothing upon arrival at the final destination in accordance with radiation protection procedures.

6.2.2.8 Perform a whole body frisk upon arrival at the final destination.

6.2.2.9 Report any radiation survey results to the TSC Dose Assessment Manager.

6.2.2.10 Attend a de-briefing.

7.0 **ATTACHMENTS:**

None.

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

PROCEDURE NO. EPIP 5-1 REV. NO. 17

OFFSITE EMERGENCY RESPONSE FACILITIES AND EQUIPMENT PERIODIC INVENTORY CHECKS AND TESTS

RESPONSIBLE MANAGER

06/21/2000
EFFECTIVE DATE

Category 1.0

Reviewed by: _____

This procedure contains 18 pages

EPIP 5-1

OFFSITE EMERGENCY RESPONSE FACILITIES AND EQUIPMENT

PERIODIC INVENTORY CHECKS AND TESTS

1.0 PURPOSE

The equipment required by the Nuclear Emergency Response Plan and the means of assuring it is available are outlined in this procedure. Inspections will be made quarterly, monthly, or, as required by Technical Specifications and after each drill or use.

2.0 RESPONSIBILITY

The Corporate Nuclear Emergency Planner (CNEP) or designee is responsible for ensuring the periodic inspections, inventory and operational checking of emergency preparedness equipment.

3.0 REFERENCES

3.1 Developmental References

3.1.1 Nuclear Emergency Response Plan

3.1.2 Tech. Specs, Table 4.1-1 Minimum frequencies for checks, calibrations and test of instrument channels

3.2 Implementing References

3.2.1 RP-JC-DAILY-SRC-CHKS, Daily Instrument Source Checks.

3.2.2 EPIP 2-12, Offsite Surveys

3.2.3 EPIP 2-2, Obtaining Meteorological Data and Forecasts and Their Use in Emergency Dose Assessment

3.2.4 RP-JC_AIRSAMPLE, Attachment 1, Air Sample Job Coverage Record

3.2.5 RP-RES-M-RESP, Decontamination, Packing and Storage of Respirators

3.2.6 RP-RES-M-RESP, Maintenance, Inspection and Repair of Scottoramic Respirators

4.0 PRECAUTIONS

This procedure may be performed in any order, and attachments may be removed and submitted individually.

5.0 PREREQUISITES

Obtain current copies of applicable procedures of RP-JC-DAILY-SRC-CHKS

6.0 ACTIONS

6.1 Inspection and/or testing of Equipment

6.1.1 Inspect and/or test each location using Attachments 1 through 4.

6.1.2 Send completed attachments to the CNEP for review.

6.1.3 Inspection of EOF/Recovery Center, Engineering Support Center, EOF/Recovery Center Store Room General Equipment, and Offsite Dose Assessment Area.

a. Check Center for general equipment and communications, Attachment 1.
b. Checks will be done monthly.

6.1.4 Inspection of Joint Emergency News Center

a. Check Joint Emergency News Center for general equipment and communications, Attachment 2.
b. All equipment shall be tested quarterly.

6.2 Reporting Discrepancies

6.2.1 If any discrepancies are found, the CNEP or designee will make a note on the emergency equipment monthly inspection log, Attachment 5. If there are no discrepancies, enter none for each location.

6.2.2 Discrepancies are to be corrected as soon as possible and so noted on the Log sheet.

7.0 ATTACHMENTS

1. General Equipment in EOF/Recovery Center
2. Joint Emergency News Center Equipment Check List
3. Nuclear Emergency Offsite Response Radio Operation Procedure
4. NEC M3800 Mobile Cellular Telephone Equipment Check
5. Emergency Equipment Monthly Inspection Log

GENERAL EQUIPMENT IN EOF/RECOVERY CENTER

Main Room

1. Clocks (operating and set to present time; min. 1 unit) _____

2. RTC, Wayne and EOF Telephone Directories at each manager position. _____

3. Wayne, Monroe and New York State positions have a copy of their Emergency Plans at their position. _____

4. Computer and printer for news announcements (turn on, launch any new corporate software upgrades and print a press release). _____

5. Observe operation of SAS/PPCS by checking clock time. _____

6. PPCS Projector - check "status" light on projector. Change bulb if status light is on. _____

7. Check that there are a minimum of 5 copies of each EPIP in the drawer. _____

Offsite Dose Assessment Room

1. Clock (operating and set to present time; min. 1 unit) _____

2. Sufficient RTC, Wayne and EOF Telephone Directories _____

3. Personal Computers (min. 2 units); check operability by contacting primary met tower, back-up met tower and MIDAS _____

4. Observe operation of SAS/PPCS by checking clock time. _____

5. Verify radio operation (Attachment 3, step 1.1) _____

6. Technical Support Center (Dose Assessment) Direct Line - Monthly Test

   a. Verify operation by ringing TSC and performing a callback to the EOF. _____

GENERAL EQUIPMENT IN EOF/RECOVERY CENTER
(Continued)

Offsite Dose Assessment Room (Cont'd.)

7. RM-14 Frisker with pancake probe or equivalent. Perform battery check, calibration check, response check and document using RP-JC-DAILY-SRC-CHKS. _____
Serial No. _____ Exp. _____

Communications Room

1. RECs Line - Monthly Test

   a. Pick up handset and depress "A" then "*" for all call.

   b. After ten seconds, depress "Push to talk" base on handset and state that "THIS IS A TEST. THIS IS THE GINNA STATION EMERGENCY OPERATIONS FACILITY CALLING THE STATE AND COUNTY WARNING POINTS. PLEASE STAND BY FOR ROLL CALL."

   NOTE: RELEASE "PUSH TO TALK" BAR WHEN NOT SPEAKING.

   c. Then announce the following roll call:

      Wayne County Warning Point

      Monroe County Warning Point

      New York State Warning Point

   d. Recall warning points, if necessary, until they answer roll call.

   e. At completion of test, state "THIS IS THE END OF THE TEST, GINNA EMERGENCY OPERATIONS FACILITY OUT AT (Time) , ON (Date)", depress "A" then "#".

   f. Report any problems to the New York State Warning Point at (518) 457-2200.

GENERAL EQUIPMENT IN EOF/RECOVERY CENTER
(Continued)

2. NRC ENS and Commercial Telephone System - Monthly Test

   a. (ENS) Call 301-816-5100 - state to operator, "This is a communications check". Request a call back to ensure operation. _____

   b. From the ENS phone call the other FTS2000 extensions. _____

Reactor Safety Counterpart Link	700-371-0031
Management Safety Counterpart Link	700-371-0027
Protective Measures Counterpart Link	700-371-0028
Local Area Network	700-371-0032

NOTE: **ALTERNATE TESTS BETWEEN RECS DROPS IN COMMUNICATIONS AND EMERGENCY PLANNING ROOMS.**

Information Center Room

1. Ginna procedures needed for EOF/Recovery Center _____

2. Ginna UFSAR _____

3. Ginna Technical Specifications _____

Clerical Supervision Room

1. Test Fax Machines by faxing a test message to New York State, Wayne County, Monroe County, TSC and Survey Center _____

2. Clock (operating and set to present time; min. 1 unit) _____

3. RTC, Wayne and EOF Telephone Directory (min. 1) Directories _____

Conference Room

1. Clock (operating and set to present time; min 1 unit) _____

GENERAL EQUIPMENT IN EOF/RECOVERY CENTER
(Continued)

Store Room

1. Survey team boxes - EOF-1, EOF-2. If seal is unbroken, assume equipment is intact. Inventory boxes and change batteries in January and July. _____

2. Survey meters. Battery check, check calibration date, response check and document using RP-JC-DAILY-SRC-CHKS. _____

   Low range,
   RM-14 with pancake probe or equivalent (min. 2 units) _____
   Serial #_____ Exp._____
   Serial #_____ Exp._____

   Bicron Micro-R or equivalent (min. 2 units) _____
   Serial #_____ Exp._____
   Serial #_____ Exp._____

   High range, Eberline RO-20 or equivalent (min. 2 units) _____
   Serial #_____ Exp._____
   Serial #_____ Exp._____

3. Dosimeter charger, battery operated - check operation (min. 1 unit) _____

4. Self-reading Pocket Dosimeters - check check calibration _____

   0-1500 mr (min. 4 units) Exp._____
   0-10R (min. 4 units) Exp. _____ _____

5. Thermoluminescent dosimeters (TLDs)
   (min 6-units*) Exp._____ _____

   * Four TLDs are assigned to personnel; two are for background purposes.

GENERAL EQUIPMENT IN EOF/RECOVERY CENTER (Con't)

Store Room (Con't)

6. Air samplers. Check calibration. Run samplers for several minutes to check operation. Ensure filters ARE NOT left in holders. _____

   Low volume, Gilian or equivalent. Ensure units are plugged into charger after test (min. 2 units)

   Serial #_____ Exp._____
   Serial #_____ Exp._____ _____

   RADECO H 809 C. Run for 1 minute (min. 2 units)

   Serial #_____ Exp. _____
   Serial #_____ Exp. _____ _____

NOTE: PRECEDE ALL COMMUNICATIONS WITH "THIS IS A TEST"

7. Portable Radios - Monthly test

   Turn on each radio (2) and conduct operability test with spare or additional radio. See Attachment 3 for Radio Operation Instructions. _____

   Turn radio off and plug into charger. _____

8. Antenna, magnetic car mount (min. 2 units) _____

9. Cellular phones. Check operation of each unit by calling any convenient number (min. 2 units). _____

   Instructions can be found in the phone carrying cases and in Attachment 4. _____

10. Full Face Respirators (min. 4 units) _____

GENERAL EQUIPMENT IN EOF/RECOVERY CENTER (Con't)

11. Inspect respirator and mark bag with inspection date and initials per RP-RES-M-RESP. _____

12. Respiratory Charcoal Filters (min. 4 units) _____
    Expiration date: _____

13. Air Sample Job Coverage Record for SCOTT A Respirators per RP-JC AIRSAMPLE, ATT.1 (min. 10 copies) _____

Performed by _____ Date _____

EMERGENCY EQUIPMENT FOR SURVEY TEAM BOXES - EOF

TEAM BOX _____

NOTE: USE ONE ATTACHMENT FOR EACH TEAM BOX INVENTORY. IF BOX IS SEALED, INVENTORY IS NOT REQUIRED. BOXES SHALL BE OPENED IN JANUARY AND JULY FOR BATTERY CHANGE AND INVENTORY.

1. Protective Clothing (min. 2 units each) _____

   Coveralls, disposable _____

   Hood, disposable _____

   Gloves, disposable (min. 12 units) _____

   Booties, disposable _____

   Hood, rain _____

   Coat, rain _____

   Boots, rain _____

   Orange Safety Vest (min. 1 unit) _____

2. Flashlight with batteries. Change batteries in January (min. 1 unit) _____

3. Plastic bags (min. 2 units) _____

4. Tape, masking. Replace in January (min. 2 units) _____

5. Stationary supplies

   Pencils/pens (min. 2 units) _____

   Pencil sharpener (min. 1 unit) _____

   Tablet, writing (min. 1 unit) _____

   Clipboard (min. 1 unit) _____

   Ruler, scale in inches (min. 1 unit) _____

   Scissors (min. 1 unit) _____

6. Survey route maps (min. 2 units) _____

EMERGENCY EQUIPMENT FOR SURVEY TEAM BOXES - EOF

TEAM BOX _____ (Con't)

7. Air sampler filters

   Particulate (min. 5 units) _____

   Silver Zeolite (min. 5 units) Expiration: _____ _____

8. Air Sample Envelopes (min. 10 units) _____

9. Smears (min. 1-box) _____

10. Thyroid block tablets. Check expiration date
    (min. 3 units) Exp._____ _____

11. Tools

    Hammer (min. 1 unit) _____

    Nails (min. 10 units) _____

    Trowel, garden (min. 1 unit) _____

12. Tags with wire ties (min. 10 units) _____

13. Quarters for phone calls (min. 10) _____

14. 250 ml Poly bottles for liquid samples (min 2-units) _____

15. Tweezers _____

Performed by _____ Date _____

JOINT EMERGENCY NEWS CENTER EQUIPMENT CHECK LIST

NOTE: CODE = 2-4-5 FOR JENC ACCESS.

County Room

1. Clock (operating and set to the present time) _____

2. RTC and Wayne Co. Telephone Directories at each manager's position. _____

3. Computer Terminals (Min. 3 Terminals)
   Turn on, launch any new corporate software upgrades and Test Print Page verified. _____

4. Fax Machines (Min. 2) - correct date and time _____
   Test operability by sending a test fax to both fax machines.

New York State PIO Room

1. Clock (operating and set to the present time) _____

2. RTC and Wayne Co. Telephone Directories - 1 each _____

3. One Fax Machine - correct date and time. _____
   Test operability by sending a test fax by using test button and sending fax to county room.

RG&E PIO Room

1. Clocks (Min. 2) _____

2. RTC, Wayne Co. and EOF Telephone Directories (1 each) _____

3. One Fax Machine - correct date and time _____
   Test operability by sending a test fax by using test button and sending fax to county room.

4. One Computer - Turn on, launch any new corporate software upgrades and Test Print Page verified. _____

JOINT EMERGENCY NEWS CENTER
EQUIPMENT CHECK LIST
(Continued)

Rumor Control Room

1. Clock - set to present time _____

2. RTC and Wayne Co. Telephone Directories at each position _____

Performed by _____ Date _____

NUCLEAR EMERGENCY OFFSITE RESPONSE RADIO OPERATION PROCEDURE

1.0 INSTRUCTIONS

1.1 EOF/Recovery Center and EOF Dose Assessment Desk Set Radios

1.1.1 Check that radio power converter is plugged into a 110 volt AC power source and that miniature red light is on Channel F1.

1.1.2 Check that frequency switch on right side of desk set is in the desired position as follows:

a. Position 2 Rad Monitor, 153.59 MHz

b. Position 3 for Fire Brigade Frequency, 153.50 MHz

c. Position 4 General Maintenance Frequency, 153.53 MHz

1.1.3 Turn radio volume knob clockwise for proper volume.

NOTE: WHEN HANDSET IS PICKED UP FROM THE DESK SET, SPEAKER IS CUT OUT AND INCOMING VOICE COMMUNICATION IS THROUGH THE HANDSET ONLY.

1.1.4 Call ext. 3108 and ask for a test from the TSC on the Radiation Monitor channel. If there is no answer at ext. 3108, call ext. 3267 to test with SAS.

1.1.5 Pick-up and depress switch on handset to transmit. Release switch to receive.

1.1.6 Make communications check with another station using time and date.

1.2 Hand-held portable radio units

1.2.1 Check that frequency switch on unit is in the desired position as follows:

a. Position 2 for Rad Monitor Teams

b. Position 3 for Fire Brigade

c. Position 4 for General Maintenance

1.2.2 Place selector on Channel 4.

1.2.3 Turn unit on and adjust squelch until no static is heard.

NUCLEAR EMERGENCY OFF-SITE RESPONSE
RADIO OPERATION PROCEDURE
(Cont'd)

1.2.4 Depress switch to transmit and talk into mike.

1.3 Back-up Emergency Communications, Law Enforcement point-to-point system (frequency 155.37 MHZ). Only law enforcement agencies are on this frequency, call letters **KNEK-443.**

NOTE: THIS RADIO IS GENERAL ELECTRIC (GE) PORTA MOBILE II, USED BY EOF SECURITY.

1.3.1 Check that radio charging unit is plugged into a 110 volt AC power source, red indicator light is on, and that radio is plugged into charger. Charging unit should be in trickle charge position.

1.3.2 Turn radio volume knob clockwise to turn on and adjust to proper volume.

1.3.3 Adjust squelch control knob until no static is heard.

1.3.4 TO TRANSMIT: Remove mike from clip and depress switch on side of mike. Speak into mike.

1.3.5 TO RECEIVE: Mike switch must be released to receive.

1.3.6 To relay messages to Office of Disaster Preparedness (O.D.P.) Albany, perform the following:

1.3.6.1 Depress mike switch and say: RG&E-EOF TO RADIO CENTER (Monroe County Communication Center at Cobbs Hill). Radio Center will answer, "GO AHEAD RG&E" or some other message for you to proceed. When you have ok to proceed, give your message to the Radio Center Operator (e.g., Radio Center will relay the following via State Police to O.D.P. in Albany).

SPECIAL NOTE: THIS FREQUENCY IS USED BETWEEN VARIOUS POLICE AGENCIES TO COMMUNICATE WITH EACH OTHER THROUGHOUT THE STATE. DO NOT CUT IN ON ANY CONVERSATION - WAIT UNTIL CHANNEL IS CLEAR.

NUCLEAR EMERGENCY OFF-SITE RESPONSE

RADIO OPERATION PROCEDURE
(Cont'd.)

1.3.6.2 All messages should normally be channeled through the Monroe County Radio Center. However, if it is necessary to contact the New York State Police, Monroe County Sheriff's Office, or Wayne County Sheriff's Office, the following procedure should be used:

a. RG&E-EOF TO STATE POLICE/CANANDAIGUA

b. RG&E-EOF TO WAYNE COUNTY SHERIFF'S OFFICE

c. RG&E-EOF TO MONROE COUNTY SHERIFF'S OFFICE

NOTE: WAIT FOR ACKNOWLEDGMENT FROM STATION CALLED BEFORE GIVING YOUR MESSAGE.

1.3.6.3 After message has been completed and Radio Center has acknowledged receipt of message, sign off with call sign (RG&E-EOF).

1.3.6.4 Turn radio volume control knob counter clockwise to the off position and return radio to charge stand.

NEC M3800 MOBILE CELLULAR TELEPHONE EQUIPMENT CHECK

NOTE: **It is necessary to exit the building in order to use the cellular phone effectively.**

1. Disconnect telephone from charging unit.
2. Turn the unit on by pressing the PWR button on the handset.
3. To place a call, press the appropriate number buttons and verify the number displayed is correct.
4. Press the SND button to activate the call.
5. Press END button to end the test call.
6. To turn unit off, press PWR button. Ensure display is blank.
7. Return the unit to storage and plug into the battery charger. The red light on the plug should light.

EMERGENCY EQUIPMENT MONTHLY INSPECTION LOG

	DISCREPANCIES NOTED		DISCREPANCIES CORRECTED	
EOF/Recovery Center	Date_____	Initials_____	Date_____	Initials_____
Survey Team Boxes	Date_____	Initials_____	Date_____	Initials_____
Offsite Dose Assessment Area	Date_____	Initials_____	Date_____	Initials_____
Joint Emergency New Center	Date_____	Initials_____	Date_____	Initials_____
Engineering Support Center	Date_____	Initials_____	Date_____	Initials_____

One copy of the completed Attachment 8 Emergency Equipment Monthly Inspection Log provided to Corporate Nuclear Emergency Planner (49/2)

SUBMITTED BY: _____ DATE: _____

CNEP REVIEW: _____ DATE: _____