

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER

23

GINNA STATION  
UNIT #1  
COMPLETED

DATE :-

TIME :-

PROCEDURE NO. SC-6.3

REV. NO. 2

NEAR OR ON-SITE TOXIC OR FLAMMABLE GAS RELEASE

TECHNICAL REVIEW

PORC REVIEW DATE

6-29-83

*[Signature]*  
QC REVIEW

*[Signature]*  
PLANT SUPERINTENDENT

JUL 12 1983

EFFECTIVE DATE

QA *[initials]* NON-QA        CATEGORY 1.0

REVIEWED BY:                     

THIS PROCEDURE CONTAINS 2 PAGES

SC-6.3NEAR OR ON-SITE TOXIC OR FLAMMABLE GAS RELEASE1.0 PURPOSE:

- 1.1 To provide instructions for response to a toxic or flammable gas release varying from one occurring near the RG&E property surrounding the facility to one which enters vital areas within the facility.
- 1.2 To provide instructions for appropriate notification to authorities of the above in accordance with pre-established classifications.

2.0 REFERENCES:

- 2.1 NUREG 0654, Appendix 1, Emergency Action Level Guidelines for Nuclear Power Plants.

3.0 INSTRUCTIONS:

- 3.1 In the event of a toxic or flammable gas release near or on-site, knowledge of its location and movement must be gained quickly by the Shift Supervisor. Anyone who has knowledge of an event is to report it immediately to the Control Room by use of the telephone or page.
  - 3.1.1 Notify HP and Chemistry section to make concentration measurements.
  - 3.1.2 Consider shutdown of supply air ventilation fans to restrict movement of gas through the plant.
- 3.2 Every precaution must be taken to have personnel relocate to safe areas.
  - 3.2.1 Announce on the Plant PA System for all operations personnel and the Duty HP Technician, to report to the Control Room. Switch Control Room ventilation to the recirculation mode.
  - 3.2.2 Evaluate the condition per SC-100 Ginna Station Event Evaluation and Classification.

NOTE: Personnel called from off-site should be warned of possible hazardous areas.

- 3.2.3 If it appears that another location would provide greater safety for personnel, announce on the Plant PA System that all personnel are to assemble in the "Selected Area" and await further instructions.

**NOTE:** This message should be modified where necessary to prevent entry into unsafe areas.

- 3.2.4 The Station Superintendent or alternate, if on site, or the Shift Supervisor is to notify the person in charge of the security force on advised movement of personnel in D.P. positions or any other movements by security force personnel to the SAS or CAS.
- 3.3 The Shift Supervisor will notify the Wayne County Fire Dispatcher via the Ontario Fire Department telephone (524-2592) reporting his assessment of the event and the need for emergency services and police action.
- 3.4 Operations and HP personnel should ensure that self contained breathing apparatus or other protective equipment or clothing is available for any personnel who are to cope with operational or repair activities in areas potentially unsafe.
- 3.5 Re-evaluate the condition per SC-100 Ginna Station Event Evaluation and Classification as conditions change.

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GINNA STATION

CONTROLLED COPY NUMBER 18

PROCEDURE NO. SC-235

REV. NO. 0

REPAIR AND CORRECTIVE ACTION GUIDELINES DURING

EMERGENCY SITUATIONS

TECHNICAL REVIEW

PORC REVIEW DATE

6-29-83

*[Signature]*  
QC REVIEW

*[Signature]*  
PLANT SUPERINTENDENT

JUL 12 1983

EFFECTIVE DATE

QA 4 NON-QA        CATEGORY 1.0

REVIEWED BY:                     

THIS PROCEDURE CONTAINS 3 PAGES



SC-235REPAIR AND CORRECTIVE ACTION GUIDELINESDURING EMERGENCY SITUATIONS1.0. PURPOSE:

- 1.1 To provide guidelines for Emergency Response personnel involved in repair and corrective action.
- 1.2 To describe the activities that should be considered for repair and corrective action during emergency situations.
- 1.3 The activities considered should not involve control room manipulations normally performed by control room personnel.

2.0 REFERENCES:

- 2.1 SC-200 Emergency Response Organization/Responsibilities
- 2.2 SC-230 Immediate Entry
- 2.3 SC-232 Voluntary Acceptance of Emergency Exposure

3.0 INSTRUCTIONS:

- 3.1 The Plant Assessment Manager shall receive requests for repairs and/or corrective action from Emergency Coordinator, Operations, or other emergency groups.
- 3.2 The Plant Assessment Manager shall direct the Plant Maintenance Assessment Manager to prepare a repair and/or corrective action team to perform the activity.
- 3.3 The Plant Assessment manager shall direct the Plant Health Physics Chemistry Manager to evaluate the radiological consequences of the activity and provide necessary health physics assistance.
- 3.4 The Plant Assessment Manager may direct Plant Technical Assessment manager or Plant Operations Assessment Manager to provide assistance for the activity.
- 3.5 The Plant Assessment Manager may request assistance from other emergency groups.

- 3.6 The Health Physics and Chemistry Manager prior to dispatching the repair corrective action team shall:
  - 3.6.1 Perform an estimate of total dose required to perform the task and insure that individuals are aware of maximum dose limits.
  - 3.6.2 Select a qualified individual to perform the radiation protection functions for the team while the activity is being performed.
  - 3.6.3 Select the proper protective clothing, respiratory protection equipment, dosimetry and meters for the activity.
  - 3.6.4 Conduct a briefing with all the personnel involved in the repair and corrective action activity. This briefing should address all hazards and actions to be taken during the activity.
  - 3.6.5 Evaluate the exposure history for personnel selected for the activity and make recommendation where appropriate.
- 3.7 The Plant Maintenance Assessment Manager shall prior to dispatching the repair corrective action team.
  - 3.7.1 Select the most qualified personnel available for the task and alternates such that should additional assistance be required manpower will have been considered.
  - 3.7.2 Insure the minimum number to perform the task shall not be less than two.
  - 3.7.3 Conduct a briefing with the personnel involved in the repair and corrective action activity.
  - 3.7.4 Determine with the individuals involved, the tools required for the activity including where they can be obtained.
  - 3.7.5 Determine with the individuals involved, the spare parts or equipment needed for the activity including where they can be obtained.
  - 3.7.6 Determine procedures needed for the activity and if necessary arrange for development of needed procedures.
  - 3.7.7 Establish a method of communication to keep the Plant Maintenance Assessment Manager informed of progress during the activity.

- 3.8        At the completion of the activity, the repair and corrective action team will be debriefed with Plant Maintenance Assessment Manager and the Health Physics and Chemistry Manager. The discussion may include:
- 3.8.1     Dose received by team
  - 3.8.2     Accountability of team
  - 3.8.3     Repairs accomplished
  - 3.8.4     Parts used and needing replacement
  - 3.8.5     Procedures completed
  - 3.8.6     Radiation survey results obtained
  - 3.8.7     Observations of damage

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

GINNA STATION  
UNIT #1  
COMPLETED

DATE :-

TIME :-

PROCEDURE NO. SC-323

REV. NO. 5

EMERGENCY OFF-SITE RADIATION SURVEY TEAMS

TECHNICAL REVIEW

PORC REVIEW DATE 6-20-83

*SPH*  
QC REVIEW

*Bruno*  
PLANT SUPERINTENDENT

JUN 24 1983

EFFECTIVE DATE

QA 9 NON-QA        CATEGORY 1.0

REVIEWED BY:                     

THIS PROCEDURE CONTAINS 27 PAGES

SC-323EMERGENCY OFF-SITE RADIATION SURVEY TEAMS1.0 PURPOSE:

- 1.1 The prime objective of the Emergency Off-Site Radiation Survey Teams is to rapidly survey areas downwind of the plant site in order to determine the extent and magnitude of any uncontrolled release of radioactive materials following an incident. It should be stressed that the initial off-site survey is of great importance. Decisions regarding the extent and types of protective actions required will be based upon data reported by the survey teams.

2.0 REFERENCES:

- 2.1 SC-1, Radiation Emergency Plan
- 2.2 SC-421, Determination of Iodine or Particulate
- 2.3 SC-232 Voluntary Acceptance of Emergency Exposure

3.0 INSTRUCTIONS:

- 3.1 Obtain appropriate Off-Site Survey Team footlocker as directed by Tag Board assignment. If seal is broken, use equipment list inside footlocker to inventory equipment. Request the assistance of the Survey Center Manager in obtaining replacement equipment if necessary.
- 3.2 Obtain the following equipment which is not stored in footlocker.
- 3.2.1 Personal film badge and TLD.
- 3.2.2 One full-face mask with voice emitter and charcoal filter for each team member.
- 3.2.3 One 0-500 mr dosimeter and one 0-5 R dosimeter for each team member. Sign-in on dosimeter log sheet.
- 3.2.4 Pack of 6 environmental TLD's from lead storage container.
- 3.2.5 Porta-Mobil II radio and magnetic mount car antenna.
- 3.2.6 RADECO H-809C Portable High Volume Air Sampler with filter holder.

- 3.2.7 RM-14 Radiation Monitor with HP-190 Probe.
- 3.2.8     to-Digimaster or RC-2 dose rate meter.
- 3.3     Complete the following items prior to departing on the assigned survey route.
  - 3.3.1    Check operation of radio system, portable air sampler, radiation count rate monitor, and dose rate meter using equipment check-out procedures in Appendix I.
  - 3.3.2    Obtain transportation and check vehicle for contamination by taking swipe survey or end window survey on the horizontal surfaces with an HP-190 probe and count rate meter. If survey indicates surface contamination of more than 250 CPM above background contact the Survey Center Manager for decontamination instructions.
  - 3.3.3    Load survey equipment into vehicle, fill in Survey Team Status Board, and inform Survey Center Manager of your departure. Obtain wind direction and speed data.
  - 3.3.4    Log time, date, and survey team members on survey map.
  - 3.3.5    Establish radio communications with Technical Support Center Radio Operator and advise of teams departure.
- 3.4     Perform radiation surveys using the appropriate instructions of Appendix II while following the Primary Survey Route instructions contained in Appendix III.
  - 3.4.1    Do not enter areas where radiation levels are greater than 2 R per hour unless directed by a Health Physicist.
  - 3.4.2    The dose limitation of the survey team is limited to 1 REM unless the Health Physicist or Emergency Coordinator authorizes a higher limit.
  - 3.4.3    A one time dose limit of 75 REM may be used to save the life of an individual on a voluntary basis.
  - 3.4.4    A one time dose limit of 25 REM may be used to insure equipment is operational or secured in order to prevent a greater possible hazard to the general public.
  - 3.4.5    At each assigned survey point the team should report the following information to the Radio Operator:
    - Location
    - Completed Actions
    - Results of Surveys
    - Departure for next Survey Point



- 3.4.6 If radio contact cannot be made, report using a telephone. Call collect on one of these numbers.

GINNA	F.C.F.
315-524-4446	
315-524-4984	716-262-5798
315-524-4973	716-262-5799
716-546-7845	
716-546-4015	

- 3.4.7 Upon completion of Primary Survey Route inform radio operator at the Tech Support Center. The Dose Assessment Manager will assign an Alternate Survey Route or direct you to return to the Survey Center.
- 3.5 Full face masks with charcoal filters will be worn as directed by the Dose Assessment Manager. Potential internal contamination will be determined by a Whole Body Count after the survey.
- 3.6 Upon returning to the Survey Center perform a survey of team personnel for contamination. If any contamination greater than 100 CPM above background is found, contact the Survey Center Manager for decontamination instructions.
- 3.6.1 Conduct a survey of the vehicle for contamination. If any contamination greater than 250 CPM above background is found contact the Survey Center Manager for decontamination instructions.
- 3.6.2 Give all filter cartridges, particulate filters, survey maps, and data records to Survey Center Manager.
- 3.6.3 Dispose of contaminated and potentially contaminated waste in an approved manner.
- 3.6.4 Restock, inventory, and seal Survey Team Equipment Footlocker, stow in an approved manner.
- 3.6.5 Return radio system, portable air sampler, radiation count rate meter, and dose rate meter to the Survey Team Room and place on charge as appropriate.
- 3.6.6 Return 0-500 mr and 0-5 R dosimeters and sign-out on dosimeter log sheet.
- 3.6.7 Fill out Survey Team Status Board and inform Survey Center Manager of teams return.



APPENDIX I

EMERGENCY OFF-SITE RADIATION SURVEY TEAM  
EQUIPMENT CHECKOUT AND OPERATION

## RADIO SYSTEM

The radio system consists of a hand-held radio and magnetic mount car antenna. To checkout and operate the system, complete the following steps.

## Turn ON Radio

1. Remove charger jack from lower side of the radio.
2. Turn the OFF-VOLUME control about half way to the right.
3. Turn the SQUELCH (SQ) control to the right as far as possible. A hissing sound will be heard from the speaker.
4. Adjust the VOLUME control until the hissing sound is easily heard but not annoyingly loud.
5. Turn the SQUELCH control slowly to the left until the hissing noise just fades out. This adjustment is very important, as it eliminates annoying noise when no one is calling you. It also determines how sensitive your radio will be to incoming calls.
6. In multi-frequency units, select the proper frequency. You are now ready to receive messages from other radios in your system.
7. If radio is to be used with car antenna see mounting instructions.

## Mount Antenna on Car

1. Ensure the vehicle's metal roof is free of ice and snow.
2. Hold the magnetic mount antenna in the palm of your hand with the antenna wire pointed towards the rear of the vehicle and the base of the mount at an angle of about 45 degrees to the vehicle roof.
3. Position the front edge of the mount in the approximate center of vehicle roof.
4. Lower the mount onto the vehicle roof. It will be held in place by the magnetic force.

\* \* \* \* \* CAUTION \* \* \* \* \*

DO NOT ATTEMPT TO MOVE THE ANTENNA BY SLIDING IT. YOU WILL SCRATCH THE SURFACE OF THE VEHICLE. ALWAYS REMOVE THE MOUNT BY LIFTING FROM THE REAR!

\* \* \* \* \* CAUTION \* \* \* \* \*

5. Route the antenna lead wire into the vehicle between the door

jamb. With any amount of weather striping the lead should not be damaged.

6. Affix the lead wire near the head liner with a piece of tape.

Insert the antenna connection plug into the side of the radio and tighten the locking screw in place. Do not remove the short antenna.

#### PROCEDURE

1. The general procedure for communicating on the radio should be as follows:

- a) Station called
- b) Red/Green/Orange Team
- c) Message
- d) "Over"

During a drill or exercise all fictitious data will be preceded with the words "This is a drill...."

Examples:

"Tech Support Center, This is the Red team, at location number 1, Over"

"Tech Support Center, This is the Green team, this is a drill, Results of the general area survey at location 36 are 6,500 counts per minute above background, Over"

2. To transmit, depress the push-to-talk switch on the microphone. Speak in a normal voice across the microphone.
3. To receive, release the push-to-talk switch.
4. There may be time that the TSC or ECF will be receiving communications from a team that you cannot hear. If this happens the Radio Operator will tell you to wait or standby. After he has completed his traffic he will ask you to transmit your information. Remember this is one big party line; everyone can't talk at once.
5. When you have been directed to secure your Survey Team, turn the radio off, disconnect the antenna plug from the radio and remove the magnetic mount antenna from the vehicle by lifting up at the rear of the mount.
6. Connect the radio to the charger located in the Survey Team Room at the Survey Center, and place the magnetic mount antenna on the bench.

## RADECO H 809C HIGH VOLUME AIR SAMPLER

## EQUIPMENT CHECK

1. Ensure power switch on air sampler is off.
2. Ensure battery charger is not plugged in and on the 12 volt position. Black and red clips of battery charger are not touching.
3. Connect air sampler power cables to the battery charger, RED clip to positive and BLACK clip to negative.
4. Plug in battery charger.
5. Turn power switch on air sampler on.
6. Check flow meter on air sampler. Flow meter should be off scale high with no filters in place.
7. Turn power switch on air sampler off.
8. Unplug battery charger and disconnect air sampler power cables.
9. Separate clips of battery charger and clamp onto cabinet.

## EQUIPMENT OPERATION FROM VEHICLE

1. Ensure power switch on air sampler is off.
2. Connect BLACK power clip to vehicle ground (engine block, chassis, etc.) and RED power clip to positive post of vehicle battery.
3. Ensure the filter assembly contains a GY-130 silver zeolite cartridge and a particulate filter.
4. Turn air sampler on and record the sample date, time, location, and air flow rate (normal is 1.5 CFM) on a sample envelope.
5. Run sampler for approximately 10 minutes.
6. Record air flow rate of air sampler in SCFM and time sampler turned off.
7. Turn air sampler off.

## RM-14 RADIATION SURVEY METER

## EQUIPMENT CHECK:

1. Disconnect power cord from back of meter taking care not to turn test switch on.
2. Ensure that an HP-190 probe is connected to the detector jack.
3. Turn range switch to battery. Meter should read in the "BATT-CK" area.
4. Perform instrument source check. Obtain source from safe and verify meter reading corresponds to attached card then log meter reading onto source check log.
5. Turn range switch off.

## EQUIPMENT OPERATION:

1. Turn range switch to X1.
2. Place response switch in the "SLOW" position.
3. Adjust the volume control so that the audio indication (a click) can be heard.
4. The range switch should be adjusted such that the highest reading gives a mid-scale deflection.
5. All readings must be multiplied by the range switch setting (X1, X10, X100).
6. 2,200 CPM is approximately 1 mrem/hour. Maximum scale is 50,000 cpm or 23 mr per hour.
7. Upon completion of the survey turn the unit off and return to the Survey Team Room. Unit should be recharged before the next use.

## AUTO DIGI-MASTER DOSE METER

## EQUIPMENT CHECK:

1. Turn unit on to be sure that the digital display lights.
2. Perform instrument source check. Obtain source from safe and verify that meter reading corresponds to attached card then log meter reading into source check log.

## EQUIPMENT OPERATION:

1. Allow unit to complete one cycle (display will blink) before reading when turning unit on or when radiation level changes significantly.
2. Unit will automatically change from one range to the next. The reading is always direct.
3. The Digi-Master may be used to detect the presence of Beta but cannot be used for dose measurement of Beta. Also, Beta detection is only effective when the unit is operating in the mrem/hour range.
  - a. Take a reading with the Beta window closed and record.
  - b. Take a reading with the Beta window opened and record.
  - c. If the reading with the Beta window open is greater than the reading with the Beta window closed there is Beta radiation present.
  - d. If a Beta dose rate is needed a survey with an RC-2 or equivalent instrument must be made.
4. Upon completion of the survey, turn off and return to the Survey Team Room. Unit should be recharged before the next use.



## RC-2 DOSE RATE METER

## EQUIPMENT CHECK

1. Turn the function selector switch to the "BATT 1" and "BATT 2" positions. Meter should indicate above the battery cut-off line.
2. Perform instrument source check. Obtain source from safe and verify that meter reading corresponds to attached card then log meter reading onto source check log.

## EQUIPMENT OPERATION

1. Zero the meter by turning the function selector switch to "ZERC" and turning the "ZERC ADJ" knob as necessary. The zero adjust may be made in a radiation field by placing the function selector switch at "ZERC ADJ".
2. To measure the radiation field position the function selector switch to the lowest range which provides a mid-scale deflection of the meter.
3. With the Beta shield closed the meter will read the whole body Gamma dose rate.
4. To obtain a Beta dose rate measurement perform the following:

CAUTION: The face of the beta window is very thin. Whenever the Beta shield is open, guard the shield against damage by puncture or contamination by dust or dirt.

Take an area measurement with the Beta shield closed.

- b. Open the sliding Beta shield on the bottom of the case and take an area measurement.
  - c. Subtract the closed shield reading from the open shield reading and multiply by the Beta correction factor marked on the instrument.
  - d. This number is the Beta dose rate for that area.
5. When the survey is completed turn the function selector switch to OFF.



**APPENDIX II**  
**RADIATION SURVEY INSTRUCTIONS**

## GENERAL AREA RADIATION SURVEY

1. A general radiation area survey should be conducted while moving between defined survey points, and at the specific survey points.
2. The survey should be conducted using an RM-14 Radiation Monitor with an HP-190 probe.
3. When conducting a moving survey, the HP-190 probe should be installed in the mounting bracket and positioned outside a vehicle window. The detection window of the HP-190 probe should be horizontal position and pointed to the rear of the vehicle to protect the detector from the elements and wind.
4. Vehicle speed should not exceed 15 mph during a mobile survey.
5. If the RM-14 reading changes more than 1,000 CPM stop and conduct a survey for Beta using the Auto Digi-Master or RC-2.
6. Report the results of the mobile survey to the Radio Operator at the next survey point, or after completion of the Beta survey.

## SURVEY TO DETERMINE PRESENCE OF BETA RADIATION

1. If the General Area Radiation Survey shows a change of 1000 CPM on the RM-14, or if the "plume" is suspected to be in your area, a survey to detect the presence of Beta radiation should be conducted.
2. Using an Auto Digi-Master, or PC-2 dose rate meter conduct the following surveys.
  - a. With the detector window aimed up:  
Beta shield open \_\_\_\_\_  
Beta shield closed \_\_\_\_\_  
Difference #1 = (open reading - closed reading)
  - b. With the detector window aimed down:  
Beta shield open \_\_\_\_\_  
Beta shield closed \_\_\_\_\_  
Difference #2 = (open reading - closed reading)
3. If either difference #1 or difference #2 from Step 2 is positive this is an indication that Beta radiation is present.
  - a. If both difference #1 and #2 are positive, this is an indication that you are in the plume.
  - b. If only difference #1 is positive, this is an indication that the plume is overhead.
4. Repeat the results of the survey to the Radio Operator and await further instructions from the Dose Assessment Manager.

## INSTALLATION OF TLD

1. Specific locations for TLD's will be listed on the survey route instructions of will be given by the Dose Assessment Manager.
2. Hammer a nail into a utility pole at the specified location. The nail should be positioned on the pole at head height and on the side closest to the site.
3. Affix a TLD to the nail using tape. Ensure the TLD window is oriented towards the site.
4. Record the location (either survey point number or road intersections), utility pole number, date time, and TLD number on the back of the survey map.

## HIGH VOLUME AIR SAMPLE

1. Draw approximately 15 cubic feet of air through a CY-130 silver zeolite cartridge and particulate filter using a RADECO P 869C High volume air sampler. This will take approximately 10 minutes.
2. Record the sample date, time, and location (either survey point number or road intersections) on two sample envelopes and on the back of the survey map.
3. Determine the background radiation level using the RM-14 Radiation Monitor and HP-190 probe. Record the reading on each envelope, and on the survey map. If background reading is greater than 200 CPM move to lower background prior to taking readings.
4. Using onion skins remove the CY-130 silver zeolite cartridge from the sample holder and read the activity level with the RM-14 Radiation Monitor and HP-190 probe by holding the probe window on the inlet side of the cartridge filter. DO NOT TOUCH THE PROBE WINDOW WITH THE CARTRIDGE. Record the reading on one envelope and place the cartridge in the envelope. Record the reading on the back of the survey map.

NOTE: If cartridge is reading off scale move probe approximately 1" from cartridge. Report and log data as being taken at 1".

5. Read the activity level of the particulate filter using the RM-14 Radiation Monitor and HP-190 probe. DO NOT TOUCH THE PROBE WINDOW WITH THE PARTICULATE FILTER. Record the reading on the other envelope and place the particulate filter in the envelope. Record the reading on the back of the survey map.
6. Remove the onion skins and discard in a plastic bag. Treat as contaminated material.
7. Report the following information to the Radio Operator:
  - a. Sample location
  - b. Time sample was taken
  - c. Volume of air sample in CF (See page 16 for calculations)
  - d. Background count rate in cpm
  - e. CY-130 silver zeolite cartridge count rate in cpm
  - f. Particulate filter count rate in cpm

NOTE: Field calculations of the airborne activity level may be performed as follows:

Sampler volume in cubic feet equals the flow rate of the sampler in SCFM times minutes the sampler.

Iodine-131 (GY-130 cartridge)

$$\frac{(\text{CPM Sample} - \text{CPM Background})(3.0 \times E-9)}{(\text{Volume of Sample in Cubic Feet})} = \frac{\text{uCi/cc}}{\text{Iodine-131}}$$

Particulate

$$\frac{(\text{CPM Sample} - \text{CPM Background})(8.38 \times E-10)}{(\text{Volume of Sample in Cubic Feet})} = \frac{\text{uCi/cc}}{\text{Particulate}}$$

## CHANGING FILTERS AT FIXED ENVIRONMENTAL STATIONS

1. Record the following information on the sample envelope left from the previous filter change:
  - a. Date
  - b. Time
  - c. System Vacuum (inches)
  - d. Casmeter reading (cubic feet)
  - e. Total hour meter (record in column marked "CFF")
2. Turn pump off
3. Using onion skins remove the filter holder at the quick disconnect joint.
4. Unscrew the outside retaining ring and remove the particulate filter from the holder and place in the sample envelope.
5. If a charcoal cartridge was in use transfer the information on the particulate filter envelope to a new envelope and place the charcoal cartridge in the envelope.
6. Place a new GY-13E silver zeolite cartridge in the sample head.
7. Place a new particulate filter in the holder, replace the retaining ring and reconnect holder to the pump at the quick disconnect joint.
8. Remove onion skins and place in a plastic bag. Treat as contaminated.
9. Turn the pump on.
10. Record the following information to two new envelopes. Mark one envelope "GY-13E silver zeolite".
  - a. Station number
  - b. Date
  - c. Time
  - d. System vacuum (inches)
  - e. Casmeter reading (cubic feet)
  - f. Total hour meter (record in the "CN" column)
11. Place the new envelopes inside the monitor cabinet.
12. Bring the envelopes containing the cartridge/filter removed to the Survey Center at the completion of your assigned route or when directed by the Dose Assessment Manager.



APPENDIX III

CFF SITE RADIATION SURVEY TEAM INSTRUCTION

## RED TEAM

## PRIMARY SURVEY ROUTE INSTRUCTIONS

NOTE: Numbers given in parentheses are predesignated survey points.  
Mileages given are approximate.

1. From the Training Center driveway travel east on Lake Road to Knickerbocker Road (1.1 miles). Place a TLD near the intersection of Lake Road and Knickerbocker Road (#1).
2. Go south on Knickerbocker Road to Brick Church Road (1.0 miles). Place a TLD near the intersection of Knickerbocker Road and Brick Church Road (#2).
3. Continue south on Knickerbocker Road to Kenyon Road (1.3 miles). Place a TLD near the intersection of Knickerbocker Road and Kenyon Road (#9). Take a high volume air sample at this intersection (#9).
4. Go west on Kenyon Road to Slocum Road (1.9 miles).
5. Go north on Slocum Road to Brick Church Road (1.3 miles). Place a TLD near the intersection of Slocum Road and Brick Church Road (#4).
6. Continue north on Slocum Road to Lake Road (1.0 miles).
7. Report to Radio Operator for further instructions.

## RED TEAM

## SECONDARY SURVEY ROUTE (WEST OR NORTHWEST WINDS) INSTRUCTIONS

NOTE: Numbers given in parentheses are predesignated survey points.  
Mileages given are approximate.

1. From the intersection of Lake and Slocum Road.
2. Go east on Lake Road to Ontario Center Road (1.0 mile)
3. Go south on Ontario Center Road to Route 164 (3.1 miles)
4. Continue south on Ontario Center Road/Route 356 to Route 441/Walworth Road (6.3 miles).
5. Go east on Route 441/Walworth Road to main intersection in Village of Walworth (Walworth-Ontario Road, 1.0 miles). Place a TLD near the intersection (#26).
6. Report to the Radio Operator for further instructions.

## RED TEAM

## SECONDARY SURVEY ROUTE (EAST OR NORTHEAST WINDS) INSTRUCTIONS

NOTE: Numbers given in parentheses are predesignated survey points. Mileages given are approximate.

1. From the intersection of Lake and Slocum Road.
2. Go south on Slocum Road to State Route 104 (3.1 miles).
3. Go east on State Route 104 to State Route 350/Ontario Center Road (1.0 miles).
4. Go south on State Route 350 to Plank Road (3.2 miles).
5. Go west on Plank Road to County Line Road (4.1 miles). Place a TLD near the intersection of Plank Road and County Line Road (#46).
6. Continue west on Plank Road to Salt Road (1.5 miles). Place a TLD near the intersections of Plank Road and Salt Road (#39).
7. Go north on Salt Road to Schlegel Road (4.1 miles). Place a TLD near the intersection of Salt Road and Schlegel Road (#42).
8. Continue north on Salt Road to Lake Road and report to Radio Operator for further instructions.

## GREEN TEAM

## PRIMARY SURVEY ROUTE INSTRUCTIONS

NOTE: Numbers given in parentheses are predesignated survey points. Mileages given are approximate.

1. Travel west on Lake Road to Lakeside Road (1.7 miles). Place a TLD near the intersection of Lake Road and Lakeside Road (#17).
2. Go south on Lakeside Road to Poston Road (1.6 miles). Take a high volume air sample near the intersection of Lakeside Road and Boston Road (#16).
3. Continue south on Lakeside Road to State Route 164 (2.6 miles).
4. Go east on State Route 164 to Ontario Center Road (1.6 miles).
5. Go north on Ontario Center Road to Brick Church Road (2.1 miles). Place a TLD near the intersection of Ontario Center Road and Brick Church Road (#3).
6. Continue north to Lake Road.
7. Report to Radio Operator for further instructions.

## GREEN TEAM

## SECONDARY SURVEY ROUTE (WEST OR NORTHWEST WINDS) INSTRUCTIONS

NOTE: Numbers given in parentheses are predesignated survey points.  
Mileages given are approximate.

1. From Lake Road and Ontario Center Road, go east to Pultneyville (7.0 miles). Place a TLD in the Pultneyville area (#28) near white settler monument at the Lake.
2. Go south from Pultneyville on State Route 21 to Pound Road (3.4 miles). Place a TLD along State Route 21 south of Pound Road (#48).
3. Continue south on State Route 21 to Farnsworth Road (4.6 miles). Place a TLD near the intersection of State Route 21 and Farnsworth Road (#47).
4. Continue south on State Route 21 and into the Village of Marion (3.0 miles).
5. Return to Main Street in the Village of Williamson on State Route 21 (5.3 miles).
6. Report to Radio Operator for further instructions.

## GREEN TEAM

## SECONDARY SURVEY ROUTE (EAST OR NORTHEAST WINDS) INSTRUCTIONS

NCTE: Numbers given in parentheses are predesignated survey points.  
Mileages given are approximate.

1. From Lake Road and Ontario Center Road, go west to State Route 250. Place a TLD near intersection of Lake Road and State Route 250 (#45) (6.0 miles).
2. Continue west on Lake Road to Whiting Road (1.8 miles).
3. Go south on Whiting Road to Klem Road (1.8 miles).
4. Go west on Klem Road to Five Mile Line Road (0.4 miles).
5. Go south on Five Mile Line Road to Plank Road (3.4 miles). Place a TLD near the intersection of Five Mile Line Road and Plank Road (#51).
6. Continue south on Five Mile Line Road to Penfield Four Corners (intersection with Penfield Road, State Route 441) (3.6 miles). Place a TLD near back of Baptist Church parking lot, 500' east of intersection on north side of Penfield Road (#41).
7. Report to Radio Operator for further instructions.



## CRANCE TEAM

## PRIMARY SURVEY ROUTE INSTRUCTIONS

NCTE: Numbers given in parentheses are predesignated survey points.  
Mileages given are approximate.

1. Travel east on Lake Road to Fisher Road (2.7 miles).
2. Go south on Fisher Road to Shepherd Road (0.7 miles). Take an air sample near the intersection of Fisher Road and Shepherd Road (#19).
3. Place a TLD near the intersection of Fisher Road and Shepherd Road (#19).
4. Continue south on Fisher Road to Trimble Road (1.1 miles). Place a TLD near the intersection of Fisher Road and Trimble Road (#20).
5. Continue south on Fisher Road to Kenyon Road (0.7 miles). Go west on Kenyon Road to Furnace Road (1.1 miles). Place a TLD near the intersection of Kenyon Road and Furnace Road (#49).
6. Go north on Furnace Road to Lake Road (2.7 miles).
7. Report to Radio Operator for further instructions.

## ORANGE TEAM

## SECONDARY SURVEY ROUTE (WEST OR NORTHWEST WINDS) INSTRUCTIONS

NCTE: Numbers given in parentheses are predesignated survey points.  
Mileages given are approximate.

1. From Lake Road and Furnace Road, go south to Ridge Road (4.2 miles).
2. Go south on Walworth-Ontario Road to Trummonds Road (2.3 miles).
3. Go east on Trummonds Road to Arbor Road (1.1 miles). Place a TLD near the intersection of Trummonds Road and Arbor Road (#22).
4. Go north on Arbor Road to Ridge Road (2.3 miles).
5. Go east on Ridge Road to Eddy Ridge Road (2.2 miles). Place a TLD near the intersection of Ridge Road and Eddy Ridge Road.
6. Continue east on Ridge Road to Tuckahoe Road (0.3 miles).
7. Go north on Tuckahoe Road to Salmon Creek Road (2.5 miles). Place a TLD near the intersection of Tuckahoe Road and Salmon Creek Road.
8. Continue north on Salmon Creek Road to Lake Road and report to Radio Operator for further instructions.

## ORANGE TEAM

## SECONDARY SURVEY ROUTE (EAST OR NORTHEAST WINDS) INSTRUCTIONS

NOTE: Numbers given in parentheses are predesignated survey points. Mileages given are approximate.

1. From Lake Road and Furnace Road, go west on Lake Road to Roder Parkway (access road to Ontario on the Lake) (5.1 miles). Go north on Roder Parkway to intersection with Ontario Drive and place a TLD near intersection (#18) (0.5 miles).
2. Return to Lake Road, continue west to County Line Road (2.4 miles).
3. Go south on County Line Road to Berg/Schlegel Road (2.0 miles). Place a TLD near the intersection of County Line Road and Berg /Schlegel Road (#36).
4. Continue south on County Line Road to State Route 104 (1.2 miles). Turn right onto State Route 104 and go to Salt Road (1.2 miles). Turn left onto Salt Road to Plank Road (2.1 miles).
5. Go west on Plank Road to State Route 250 (2.8 miles).
6. Continue west on Plank Road to RG&E Eastern Monroe Service Center, 1270 Plank Road. Report results of surveys to Radio Operator.
7. Return to Route 250 and go north on Route 250 to State Road (1.2 miles). Place a TLD at the intersection of State Road and Route 250 (#38).
8. Continue north on Route 250 to Main Street in the Village of Webster (2.3 miles).
9. Go east on Main Street to Phillips Road (0.6 miles).
10. Go north on Phillips Road to substation #74 driveway which is 20' north of access road to State Route 104.
11. Report to Radio Operator for further instructions.

GINNA STATION  
UNIT #1  
COMPLETED

DATE :-

TIME :-

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

PROCEDURE NO. SC-324

REV. NO. 3

EMERGENCY ON-SITE RADIATION SURVEY TEAMS

TECHNICAL REVIEW

PORC REVIEW DATE 6-20-83

*[Signature]*  
QC REVIEW

*[Signature]*  
PLANT SUPERINTENDENT

JUN 24 1983

EFFECTIVE DATE

QA 9 NON-QA        CATEGORY 1.0

REVIEWED BY:                     

THIS PROCEDURE CONTAINS 19 PAGES

SC-324EMERGENCY ON-SITE RADIATION SURVEY TEAMS1.0 PURPOSE:

- 1.1 The prime objective of the Emergency On-Site Radiation Survey Teams is to rapidly survey areas immediately surrounding the restricted area in order to determine the extent and magnitude of any uncontrolled release of radioactive materials following an incident. It should be stressed that the initial on-site survey is of great importance. Decisions regarding the extent and types of protective actions required will be based upon data reported by the survey teams.

2.0 REFERENCES:

- 2.1 SC-1, Radiation Emergency Plan
- 2.2 SC-421, Determination of Iodine or Particulate
- 2.3 SC-232 Voluntary Acceptance of Emergency Exposure

3.0 INSTRUCTIONS:

- 3.1 Obtain appropriate On-Site Survey Team footlocker as directed by Tag Board Assignment. If seal is broken, use equipment list inside footlocker to inventory equipment. Request the assistance of the Survey Center Manager in obtaining replacement equipment if necessary.
- 3.2 Obtain following equipment which is not stored in footlocker.
- 3.2.1 Personal film badge and TLD.
- 3.2.2 One G-5R dosimeter for each team member, Sign-in on dosimeter log sheet.
- 3.2.3 One full-face mask with charcoal filter and voice emitter for each Team member.
- 3.2.4 Handi-Talkie radio.
- 3.2.5 Victoreen Portable Low Volume Air Sampler with filter holder.
- 3.2.6 RM-14 Radiation Monitor with HP-190 Probe.
- 3.2.7 Auto Digi-master or RO-2 dose rate meter.

- 3.3 Complete the following items prior to departing on the assigned survey route.
  - 3.3.1 Check operation of radio system, portable air sampler, radiation count rate monitor, and dose rate meter using equipment check-out procedures in Appendix I.
  - 3.3.2 Load survey equipment onto equipment belts and back packs, fill in Survey Team Status Board, and inform Survey Center Manager of your departure.
  - 3.3.3 Log time, date, and survey team members on survey map.
  - 3.3.4 Establish radio communication with Technical Support Center Radio Operator and advise of teams departure.
  - 3.3.5 Log time, date, totalizer number and start time of low volume air sampler on reverse of survey map.
- 3.4 Protective clothing and full face masks with charcoal filters will be worn as directed by the Dose Assessment Manager. Internal contamination will be determined by a Whole Body Count after the survey.
- 3.5 Perform radiation surveys using the appropriate instructions of Appendix II while following the Survey Route instructions contained in Appendix III.
  - 3.5.1 Do not enter areas where radiation levels are greater than 2 R/hr unless directed by a Health Physicist.
  - 3.5.2 The dose limitation of the survey team is limited to 1 REM unless the Health Physicist or Emergency Coordinator authorizes a higher limit.
  - 3.5.3 A ONETIME dose limit of 75 REM may be used to save the life of an individual on a voluntary basis.
  - 3.5.4 A ONETIME dose limit of 25 REM may be used to insure equipment is operational or secured in order to prevent a greater possible hazard to the general public.
  - 3.5.5 At each assigned survey point the team should report the following information to the Radio Operator:
    - Location
    - Completed Actions
    - Results of Surveys
    - Departure for next Survey Point
  - 3.5.6 Upon completion of Survey Route inform radio operator at Tech Support Center. The Dose Assessment Manager will

assign an additional Survey Route or direct you to return to the Survey Center.

- 3.6      Upon returning to the Survey Center perform a team of personnel for contamination. If any contamination greater than 100 CPM above background is found, contact the Survey Center Manager for decontamination instructions.
- 3.6.1    Give all filter cartridges, particulate filters, survey maps, and data records to Survey Center Manager.
- 3.6.2    Dispose of contaminated and potentially contaminated waste in an approved manner.
- 3.6.3    Re-stock, inventory, and seal Survey Team Equipment Footlocker, stow in Survey Team Room.
- 3.6.4    Return radio system, portable air sampler, radiation count rate meter, and dose rate meter to the Survey Team Room and place on charge as appropriate.
- 3.6.5    Return O-5R dosimeters and sign-out on dosimeter log sheet.
- 3.6.7    Fill out Survey Team Status Board and inform Survey Center Manager of team return.



APPENDIX I  
EMERGENCY ON-SITE RADIATION SURVEY TEAM  
EQUIPMENT CHECKOUT AND OPERATION

## RADIO SYSTEM

The radio system consists of a hand-held radio and attached antenna. To checkout and operate the system, complete the following steps.

1. Ensure the antenna is securely screwed into the connection on top of the radio. If a telescoping antenna is installed ensure it is extended to its full length when operating the radio.
2. Turn the channel selector switch to Channel 1.
3. Turn the squelch knob full CCW.
4. Turn the volume knob CW to turn the radio on and adjust the volume level. A rushing sound should be heard.

NOTE: If no sound is heard, unit is inoperable. Obtain new unit and inform Survey Center Manager.

5. Adjust squelch knob CW just enough to quiet the radio. If squelch knob is turned too far CW weak signals will not be heard.
6. The general procedure for communicating on the radio should be as follows:
  - a) Station Called
  - b) Blue/Yellow Team
  - c) Message
  - d) "Over"

During a drill or exercise all fictitious data will be preceded with the words "This is a drill....."

Examples:

"Tech Support Center, This is the Blue Team, At location number 1, Over"

"JTech Support Center, This is the Yellow Team, This is a drill, Results of the general area survey at location 6 are 6,500 Counts Per Minute above background, Over"

7. To transmit depress the push-to-talk switch on the side of the radio. Speak in a normal voice into the speaker/mike.
8. To receive, release the push-to-talk switch.
9. There may be times that TSC or EOF will be receiving communications from a team that you cannot hear. If this happens the Radio Operator will tell you to wait or standby. After he has completed his traffic he will ask you to transmit your information. Remember this is one big party line; everyone can't talk at once.

19. When you have been directed to secure your Survey Team, turn the radio off and place it in the charger located in the Survey Team Room at the Survey Center.

## RM-14 RADIATION SURVEY METER

## EQUIPMENT CHECK

1. Disconnect power cord from back of meter taking care not to turn test switch on.
2. Ensure that an HP-193 probe is connected to the detector jack.
3. Turn range switch to battery. Meter should read in the "BATT-OK" area.
4. Perform instrument source check. Obtain source from safe and verify meter reading corresponds to attached card then log meter reading onto source check log.
5. Turn range switch to off.

## EQUIPMENT OPERATIONS

1. Turn range switch to XI.
2. Place response switch in the "SLOW" position.
3. Adjust the volume control so that the audio indication (a clock) can be heard.
4. The range switch should be adjusted such that the highest reading gives a mid-scale deflection.
5. All readings must be multiplied by the range switch setting (X1, X10, X100).
6. 2,200 CPM is approximately 1 mrem/hour maximum scale is 50,000 CPM or 23 mR/hr.
7. Upon completion of the survey turn the unit off the return and return to the Survey Team Room. Unit should be recharged before the next use.

## AUTO DIGI-MASTER DOSE RATE METER

## EQUIPMENT CHECK

1. Turn unit on to be sure that the digital display lights.
2. Perform instrument source check. Obtain source from safe and verify that meter reading corresponds to attached card then log meter reading into source check log.

## EQUIPMENT OPERATIONS

1. Allow unit to complete one cycle (display will blink) before reading when turning unit on or when radiation level changes significantly.
2. Unit will automatically change from one range to the next. The reading is always direct.
3. The Digi-Master may be used to detect the presence of Beta but cannot be used for dose measurement of Beta. Also, Beta detection is only effective when the unit is operating in the mrem/hour range.
  - a. Take a reading with the Beta window closed and record.
  - b. Take a reading with the Beta window opened and record.
  - c. If the reading with the Beta window open is greater than the reading with the Beta window closed there is Beta radiation present.
  - d. If a Beta dose rate is needed a survey with an RQ-2 or equivalent instrument must be made.
4. Upon completion of the survey, turn off and return to the Survey Team Room. Unit should be recharged before the next use.

## RO-2 DOSE RATE METER

## EQUIPMENT CHECK

1. Turn the function selector switch to the "BATT 1" and "BATT 2" positions. Meter should indicate above the battery cut-off line.
2. Perform instrument source check. Obtain source from safe and verify that meter reading corresponds to attached card then log meter reading onto source check log.

## EQUIPMENT OPERATION

1. Zero the meter by turning the function selector switch to "ZERO" and turning the "ZERO ADJ" knob as necessary. The zero adjust may be made in a radiation field by placing the function selector switch at "ZERO ADJ".
2. To measure the radiation field position the function selector switch to the lowest range which provides a mid-scale deflection of the meter.
3. With the Beta shield closed the meter will read the whole body Gamma dose rate.
4. To obtain a Beta dose rate measurement perform the following:

CAUTION: The face of the beta window is very thin. Whenever the Beta shield is open, guard the shield against damage by puncture or contamination by dust or dirt.

Take an area measurement with the Beta shield closed.

- b. Open the sliding Beta shield on the bottom of the case and take an area measurement.
  - c. Subtract the closed shield reading from the open shield reading and multiply by the Beta correction factor marked on the instrument.
  - d. This number is the Beta dose rate for that area.
5. When the survey is completed turn the function selector switch to OFF.

## BATTERY POWERED LOW VOLUME AIR SAMPLER

## EQUIPMENT CHECK

1. Disconnect from Battery Charger
2. Turn power switch on.
3. Observe totalizer for movement.
4. Turn power switch off.

## EQUIPMENT OPERATION

1. Record on sample envelopes following information:
  - a. Date
  - b. Time ON
  - c. Location
  - d. Totalizer Reading (A)
2. Ensure filter cartridge contains a GY-137 Silver Zeolite cartridge and a particulate filter. Connect filter cartridge to sampler.
3. Turn sampler ON and run sampler for the entire route.
4. Turn sampler OFF at end of route and record following information on sample envelopes:
  - a. Time OFF
  - b. Totalizer Reading (B)
5. Sample volume in cubic centimeters (cc) =  
 (totalizer Reading B minus Totalizer A) times (Calibration Factor)

NOTE: CF, Calibration Factor is noted on calibration sticker of sampler.

6. \_\_\_\_\_ Stop totalizer (B)  
 \_\_\_\_\_ Start totalizer (A)  
 \_\_\_\_\_ x \_\_\_\_\_ CF = \_\_\_\_\_ CC's sampled



SC-324:11

APPENDIX II  
RADIATION SURVEY INSTRUCTIONS

## GENERAL AREA RADIATION SURVEY

1. A general radiation area survey should be conducted while moving between defined survey points, and at the specific survey points.
2. The survey should be conducted using an RM-14 Radiation Monitor with an HP-190 probe.
3. When conducting a moving survey, the HP-193 probe should be held in a horizontal position and protected from the elements and wind.
4. If the RM-14 reading changes more than 1,000 CPM stop and conduct a survey for Beta using the Auto Digi-Master or RO-2.
5. Report the results of the survey to the Radio Operator at the next survey point, or after completion of the Beta survey.

## SURVEY TO DETERMINE PRESENCE OF BETA RADIATION

1. If the General Area Radiation Survey shows a change of 1000 CPM on the RM-14, or if the "plume" is suspected to be in your area, a survey to detect the presence of Beta radiation should be conducted.
2. Using an Auto Digi-Master, or RO-2 dose rate meter conduct the following surveys.
  - a. With the detector window aimed up:  
Beta shield open \_\_\_\_\_  
Beta shield closed \_\_\_\_\_  
Difference #1 = (open reading - closed reading)
  - b. With the detector window aimed down:  
Beta shield open \_\_\_\_\_  
Beta shield closed \_\_\_\_\_  
Difference #2 = (open reading - closed reading)
3. If either difference #1 or difference #2 from Step 2 is positive this is an indication that Beta radiation is present.
  - a. If both difference #1 and #2 are positive, this is an indication that you are in the plume.
  - b. If only difference #1 is positive, this is an indication that the plume is overhead.
4. Repeat the results of the survey to the Radio Operator and await further instructions from the Dose Assessment Manager.

## LOW VOLUME AIR SAMPLE

1. Draw air through a GY-130 silver zeolite cartridge and particulate filter using a low volume air sampler for approximately 30 minutes.
2. Record the sample date, time, and location on two sample envelopes and on the back of the survey map.
3. Determine the background radiation level using the RM-14 Radiation Monitor and HP-190 probe. Record the reading on each envelope, and on the survey map.
4. Using onion skins remove the GY-130 silver zeolite cartridge from the sample holder and read the activity level with the RM-14 Radiation Monitor and HP-190 probe by holding the probe window on the inlet side of the silver zeolite cartridge. DO NOT TOUCH THE PROBE WINDOW WITH THE CARTRIDGE. Record the reading on one envelope and place the cartridge in the envelope. Record the reading on the back of the survey map.
5. Read the activity level of the particulate filter using the RM-14 Radiation Monitor and HP-190 probe. DO NOT TOUCH THE PROBE WINDOW WITH THE PARTICULATE FILTER. Record the reading on the other envelope and place the particulate filter in the envelope. Record the reading on the back of the survey map.
6. Remove the onion skins and discard in a plastic bag. Treat as contaminated material.
7. Report the following information to the Radio Operator:
  - a. Sample location
  - b. Time sample was taken
  - c. Volume of air sample in cc (See page 10 for calculations)
  - d. Background count rate in cpm
  - e. GY-130 silver zeolite cartridge count rate in cpm
  - f. Particulate filter count rate in cpm

NOTE: Field calculations of the airborne activity level may be performed as follows:

(See page 10 for calculation of volume of sample in cubic centimeters.)

Iodine-131 (GY-130 cartridge)

$$\frac{(\text{CPM Sample} - \text{CPM Background})(8.34 \times 10^{-5})}{(\text{Volume of Sample in Cubic Centimeters})} = \text{_____} \text{ uCi/cc Iodine-131}$$

Particulate

$$\frac{(\text{CPM Sample} - \text{CPM Background})(2.4 \times 10^{-5})}{(\text{Volume of Sample in Cubic Centimeters})} = \text{_____} \text{ uCi/cc Particulate}$$

## CHANGING FILTERS AT FIXED ENVIRONMENTAL STATIONS

1. Record the following information on the sample envelope left from the previous filter change:
  - a. Date
  - b. Time
  - c. System Vacuum (inches)
  - d. Gasmeter reading (cubic feet)
  - e. Total hour meter (record in column marked "OFF")
2. Turn pump off
3. Using onion skins remove the filter holder at the quick disconnect joint.
4. Unscrew the outside retaining ring and remove the particulate filter from the holder and place in the sample envelope.
5. If a charcoal cartridge was in use transfer the information on the particulate filter envelope to a new envelope and place the charcoal cartridge in the envelope.
6. Place a new GY-130 silver zeolite cartridge in the sample head.
7. Place a new particulate filter in the holder, replace the retaining ring and reconnect holder to the pump at the quick disconnect joint.
8. Remove onion skins and place in a plastic bag. Treat as contaminated.
9. Turn the pump on.
10. Record the following information to two new envelopes. Mark one envelope "GY-130 silver zeolite".
  - a. Station number
  - b. Date
  - c. Time
  - d. System vacuum (inches)
  - e. Gasmeter reading (cubic feet)
  - f. Total hour meter (record in the "ON" column)
11. Place the new envelopes inside the monitor cabinet.
12. Bring the envelopes containing the cartridge/filter removed to the Survey Center at the completion of your assigned route or when directed by the Dose Assessment Manager.

APPENDIX III  
ON SITE RADIATION SURVEY TEAM INSTRUCTIONS

## BLUE TEAM

## SURVEY ROUTE INSTRUCTIONS

1. From the Survey Center proceed northeast to the edge of the grass.
2. Turn south across the lawn and proceed to environmental station #4 and change the filter cartridge.
3. Proceed southeast to Manor House driveway, follow driveway to where it turns north, proceed east out of the trees into orchard.
4. Go through orchard, then turn north and proceed to environmental station #3 and change the filter cartridge.
5. Proceed west across field and through woods to Manor House driveway.
6. Go north on Manor House driveway to the lake shore.
7. Proceed east to environmental station #2 and change the filter cartridge.
8. Proceed west along the lake shore to the plant fence.
9. Proceed along the plant fence to the Guard House.
10. If the Central Alarm Station (CAS) and Secondary Alarm Station (SAS) are manned contact CAS on the radio for access to the site. Otherwise obtain a "hard key" to gain access to the site from the Survey Manager.
11. Proceed east from the Guard House along access road and across south side of plant building.
12. Circle across grass towards Upper-Radwaste Storage Area, continuing to plant fence.
13. Continue west along plant fence to the Screenhouse.
14. Proceed south along side of plant building and return to Guard House.
15. Report to Radio Operator for instructions.



## YELLOW TEAM

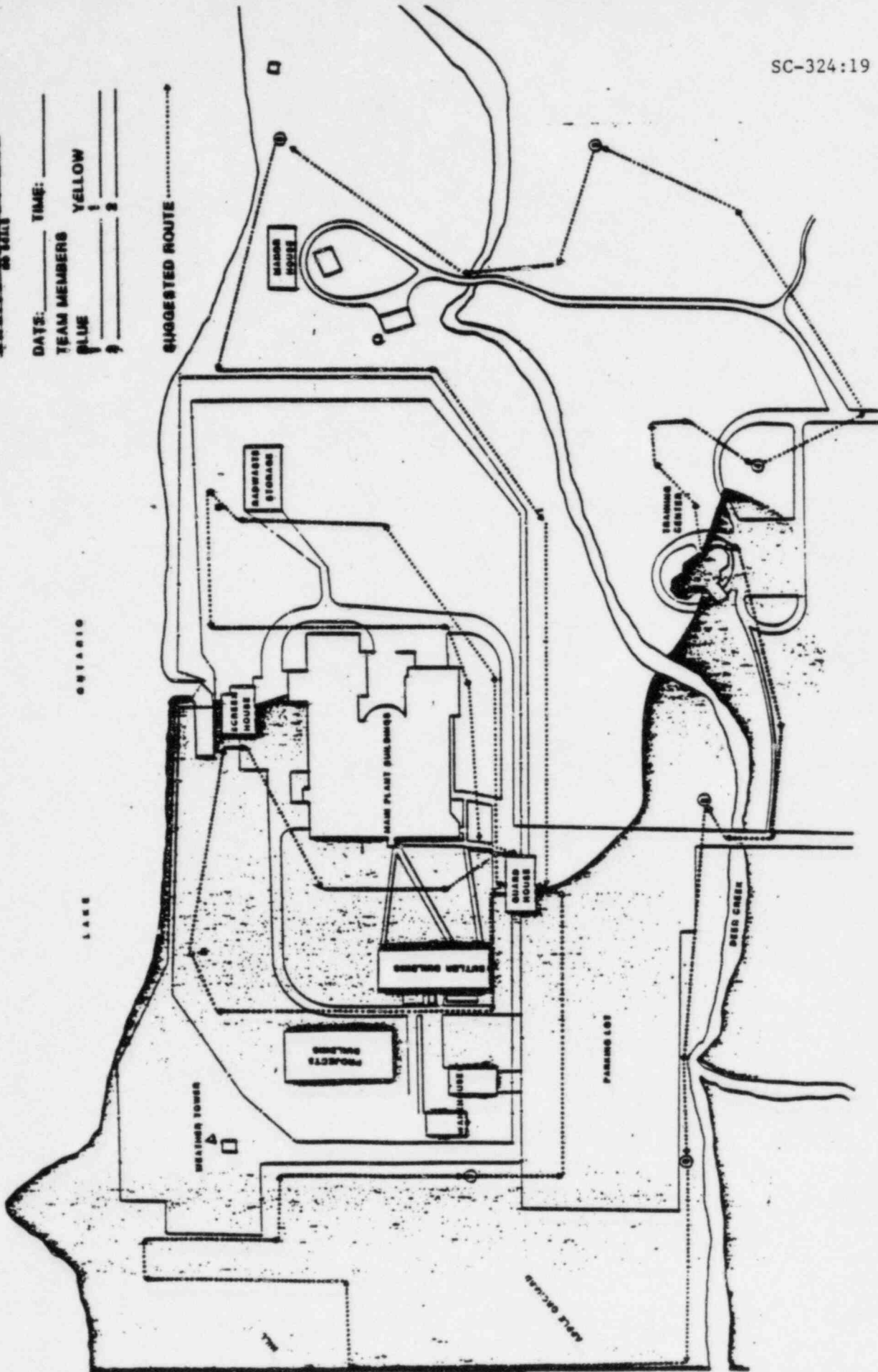
## SURVEY ROUTE INSTRUCTIONS

1. Proceed west from the Survey Center to the plant site road.
2. Continue north across the bridge to environmental station #5 and change the filter cartridge.
3. Proceed west along Deer Creek and the parking lot to environmental station #6 and change the filter cartridge.
4. Proceed west through the apple orchard approximately 100 yards.
5. Turn north through the apple orchard, towards the hill, to the northwest corner of the plant fence.
6. Proceed south along the plant fence to environmental station #7 and change the filter cartridge.
7. Continue along the plant fence to the Guard House.
8. If the Central Alarm Station (CAS) and Secondary Alarm Station (SAS) are manned contact CAS on the radio for access to the site. Otherwise obtain a "hard key" to gain access to the site from the Survey Manager.
9. Proceed west from Guard House to the access road.
10. Continue north on the access road and across the grass to the plant fence.
11. Proceed east along the plant fence to the discharge canal.
12. Proceed south along the west side of the plant building and return to the Guard House.
13. Report to Radio Operator for instructions.

ON-SITE SURVEY MAP

DAYS: \_\_\_\_\_ TIME: \_\_\_\_\_  
TEAM MEMBERS  
BLUE \_\_\_\_\_ YELLOW \_\_\_\_\_  
1 \_\_\_\_\_ 2 \_\_\_\_\_

SC-324:19



GINNA STATION  
UNIT #1  
COMPLETED

DATE :-

TIME :-

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

PROCEDURE NO. SC-410

REV. NO. 10

INSPECTION OF EMERGENCY EQUIPMENT

TECHNICAL REVIEW

PORC REVIEW DATE

6-29-83

  
QC REVIEW

  
PLANT SUPERINTENDENT

JUL 12 1983

EFFECTIVE DATE

QA ✓ NON-QA        CATEGORY 1.0

REVIEWED BY:                     

THIS PROCEDURE CONTAINS 13 PAGES

SC-410INSPECTION OF EMERGENCY EQUIPMENT1.0 PURPOSE:

- 1.1 The equipment required by the emergency plan and the means of assuring it is available is outlined in this procedure. Inspection will be made monthly as required by Technical Specifications and after each drill or use.

2.0 REFERENCES:

- 2.1 SC-1, Emergency Plan  
2.2 Tech. Specs, Table 4.1-1

3.0 INSTRUCTIONS:

- 3.1 Inspect each location using attached appendices. Indicate number of items present in blank space on appendix.
- 3.1.1 Emergency Survey Center - Appendix A  
3.1.2 Control Room - Appendix B  
3.1.3 Health Physics Office, Auxiliary Building, Operational Support Center - Appendix C  
3.1.4 Technical Support Center - Appendix D  
3.1.5 Monthly Inspection Log - Appendix E
- 3.2 If any discrepancies are found make note on the Monthly Inspection Log (Appendix E). If there are no discrepancies, enter NONE on Log Sheet.
- 3.2.1 Discrepancies are to be corrected (or a trouble card submitted) as soon as possible and so noted on the log sheet and filed per A-1701.
- 3.3 Perform monthly operational check with check source on Emergency Plant Vent monitor (Radector III). Record discrepancies on Monthly Inspection Log - Appendix E and advise Health Physicist.
- 3.4 Notify Control prior to initiating Survey Center and TSC Communication checks.

APPENDIX "A"EMERGENCY EQUIPMENT IN SURVEY CENTER

- |   |               |
|---|---------------|
| 1. Assignment tag board - all tags in place   | _____         |
| 2. Survey team maps - Red, Green, Orange, Blue, Yellow  | 15 _____      |
| 3. Survey team boxes - Red, Green, Orange, Blue, Yellow, White - If seal is unbroken assume equipment is intact. Inventory boxes and change batteries in January and July.                          | 6 _____       |
| 4. Low range survey instruments, RM-14 with HP-190 probe battery check. Source check per HP-7.31  | 5 _____       |
| 5. Mid range survey instruments RO2 (1 mR/hr to 5 R/hr) battery check, source check per HP-7.31 and check calibration date.   | 6 _____       |
| 6. High level dose rate meters - battery check, calibration check, source check per HP-7.31. Xetec 305 series instruments (0.1 mR/hr to 99.9 R/hr) Xetec 302 series instruments may be substituted. | 5 _____       |
| 7. Extendable high level survey meter - battery check, source check, calibration check. Xetec 302 series instruments (0.01 R/hr to 999 R/hr) Eberline Teletector (.01 mR/hr to 1k R/hr)             | 1 _____       |
| 8. Nucleus scaler with probe and count shelf-frequency check, source check, efficiency calibration semi-annually.   | 1 _____       |
| 9. Radiation monitor RM-3C or equivalent, with HP-260 probe equivalent, source check, calibration check.  | 1 _____       |
| 10. Area radiation monitor, stationary - change chart paper, operational check.   | 1 _____       |
| 11. Dosimeter charger with battery.   | 2 _____       |
| 12. Dosimeter (High Range) - check calibration  | 0-5R 8 _____  |
|   | 0-10R 8 _____ |
| 13. Dosimeter (0-500mr) - check calibration   | 12 _____      |
| 14. Thermal luminescent dosimeters  | 10 _____      |
| 15. Packages of (6) environmental TLD badges (off-site only)  | 3 _____       |

## APPENDIX "A" (con't)

16. Battery operated, low volume air samplers - calibration check. Run air sampler several minutes to check operation, semi-annually totally discharge and recharge samplers (February and August)	6	_____
17. Battery charger - operation check, disconnect	1	_____
18. RADECC H 809 B2 air sampler - run 120 minutes	2	_____
19. RADECC H 809 C air sampler - run 1 minute	4	_____
20. Filters for air samplers - particulate	100	_____
21. Filters for air samplers - silver zeolite	50	_____
22. Envelopes for air samples - particulate	100	_____
23. Envelopes for air samples - iodine	100	_____
24. Envelopes for smear papers	100	_____
25. Smear papers	1000	_____
26. Decontamination kit (NMC - 3 piece)	1	_____
27. Radios, Handi-Talkie - radio check with security	6	_____
28. Radios, Porta-mobile II - radio check with Security	6	_____
29. Magnetic car mount antenna	3	_____
30. Radio, stationary - radio check with security - log book entry.	1	_____
31. Full face respirator with charcoal filter - inspect mask, mark bag with inspection date and initials check filter expiration date	22	_____
32. Charcoal Respirator Filters - check expiration date	22	_____
33. Voice emitters for respirators - operational check	13	_____
34. Contaminated clothing & waste containers, 55 gal drum	2	_____
35. Anti - contamination clothing, sets	25	_____
36. Step off pads	10	_____
37. Tape, rolls (replace January)	1 BOX	_____



## APPENDIX A (con't)

38. Plastic Bags, poultry	1 BCX _____
39. Plastic bags, clean, large	2F _____
40. Radioactive material bags, yellow, large	1 RCLL _____
41. Radiation rope	1 RCLL _____
42. Radiation hazard signs with inserts	10 _____
43. Thyroid block tablets, bottles	25 _____
44. Pens and pencils	10 _____
45. Batteries, D size	10 _____
46. Batteries, 9V	10 _____
47. Extension cord	3 _____
48. NMC CAM - Check flow CAM test (60 ~), & check switch positions.	1 _____
49. Intercom "A" - communication check with Control Room. Call Control Room on GAI page, have them plug in Interccm A and contact survey center.	1 _____
50. NRC Red telephone - lift receiver, tell party "This is a Ginna Station Survey Center Communications Check."	1 _____
51. New York State Red telephone - Push button, lift receiver, wait 10 seconds, state "This is Ginna Station Emergency Survey Center Communications Check, this is a test." Then say "All Stations Standby for Roll Call", then ask one at a time if New York State, Monroe County, Wayne County and the Control Room are listening.	1 _____
52. Telephone Books - Rochester 1, Wayne County 1	1 _____
53. Wayne County (946-4878)	1 _____
54. Monroe County (9-716-473-0710)	1 _____
55. New York State (9-518-457-2200)	1 _____
56. National Weather Service, Rochester (9-716-328-7633)	1 _____
57. National Weather Service, Buffalo (9-716-632-2223)	1 _____



APPENDIX A (con't)

58. From 524-6711 call Control Room at 524-4984 and TSC  
at 524-4973 1 \_\_\_\_\_
59. From extension 331 call TSC at 280 1 \_\_\_\_\_
60. From extension 332 call TSC at 281 1 \_\_\_\_\_
61. From extension 333 call ESC at 207 1 \_\_\_\_\_
62. Semi-annually discharge all rechargeable equipment  
completely then recharge and check operation.  
(Feb. & Aug.) \_\_\_\_\_

Initials \_\_\_\_\_ Date \_\_\_\_\_

## APPENDIX "A" (continued)

EMERGENCY EQUIPMENT PER SURVEY BOX

If box is sealed inventory not required. Boxes shall be opened in January and July for battery change and inventory.

1. Coveralls	2 _____
2. Hoods, disposable	2 _____
3. Gloves, pair	2 _____
4. Booties, pair	2 _____
5. Hats, Surgeon	2 _____
6. Hoods, Rain	2 _____
7. Coats, Rain	2 _____
8. Boots, Rain, pair	2 _____
9. Flashlight with Batteries	1 _____
10. Plastic Bags	2 _____
11. Masking Tape, rolls (replace January)	2 _____
12. Pencils	2 _____
13. Pencil Sharpener	1 _____
14. Tablet, writing	1 _____
15. Survey Route Maps	2 _____
16. Air Sampler Filters - Particulate	5 _____
17. Air Sampler Filters - Silver Zeolite GY-130	5 _____
18. Air Sample Envelopes (Iodine)	10 _____
19. Air Sample Envelopes (Environmental)	10 _____
20. Clipboard	1 _____
21. Appropriate procedure for team (Remove survey route instructions in Appendix III that do not apply to that survey team)	_____
22. Procedure SC-452, Sampling Snow, Grass, Soil and Vegetation.	_____

23. Thyroid Block Tablets (bottle)	3	_____
24. Suits, cold weather (carhart) (on-site team only)	2	_____
25. Equipment Belts with Bags (on-site team only)	2	_____
26. First Aid Room key (onsite team only)	1	_____
27. Backpacks - 2 (on-site teams only)	2	_____
28. Respirator hip pouches (on-site only)	2	_____
29. Dimes for Telephones (Off-site team only)	10	_____
30. Hammer and 10 nails (off-site only)	1	_____
31. HP-190 window clamp (off-site teams only)	1	_____
32. Garden Trowel	1	_____
33. Tags with wire tie	10	_____

Initials \_\_\_\_\_ Date \_\_\_\_\_

APPENDIX "B"EMERGENCY EQUIPMENT IN CONTROL ROOM

- |   |     |       |
|---|-----|-------|
| 1. Scott Air Pack (SCBA) - monthly inspection   | 2   | _____ |
| 2. High range dosimeters - calibration check  | 10  | _____ |
| 3. Dosimeter charger with battery - operability check   | 1   | _____ |
| 4. High range dose rate meter - battery check, source check per HP-7.31 and calibration check (R02A)          | 1   | _____ |
| 5. Plant radiation survey maps (sets)   | 3   | _____ |
| 6. Smear papers   | 100 | _____ |
| 7. Envelopes for smear papers   | 10  | _____ |
| 8. Thyroid block tablets (bottle)   | 10  | _____ |
| 9. Air sampler, low volume - operability check, calibration check   | 1   | _____ |
| 10. Air sampler filters - particulate   | 3   | _____ |
| 11. Air sampler filters - silver zeolite  | 3   | _____ |
| 12. Radiation monitor RM-14 or equivalent with HP-190 probe, battery check, source check, calibration check   | 1   | _____ |
| 13. Tape, roll (replace January)  | 1   | _____ |
| 14. Anti-contamination clothing (sets)  | 6   | _____ |
| 15. Semi-annually discharge fully all rechargeable equipment, recharge then check operation (Feb. & Aug.)     |     | _____ |
| 16. Continuous Air Monitor Eberline AMS-3 check operation of unit and pump. Check calibration - due annually. | 1   | _____ |

Initial \_\_\_\_\_ Date \_\_\_\_\_

APPENDIX "C"EMERGENCY EQUIPMENT

## OPERATIONAL SUPPORT CENTER

- |  |          |
|--|----------|
| 1. Full face respirators - inspect mask and mask bag with inspection date and initials | 6 _____  |
| 2. Respirator charcoal filters - expiration date                                       | 6 _____  |
| 3. Anti-contamination clothing (sets)  | 6 _____  |
| 4. Flood lights, portable - operational check  | 2 _____  |
| 5. Thyroid block tablets (bottles)   | 15 _____ |
| 6. Dosimeters 0-500 mRem - check calibration   | 10 _____ |
| 7. Dosimeters 0-10R - check calibration  | 10 _____ |
| 8. Dosimeter charger with battery - operational check                                  | 1 _____  |
| 9. Daily exposure record sheets  | 5 _____  |
| 10. Pens   | 5 _____  |
| 11. Rolls masking tape (replace January)   | 2 _____  |

## AUXILIARY BUILDING

- |   |         |
|---|---------|
| 1. Scott air pack (SCBA) - monthly inspection | 1 _____ |
|---|---------|

## HEALTH PHYSICS OFFICE

- |   |          |
|---|----------|
| 1. Scott air pack (SCBA) - monthly inspection   | 2 _____  |
| 2. High range dosimeter - calibration check   | 20 _____ |
| 3. Anti-contamination clothing (sets)   | 20 _____ |
| 4. High range dose rate meter - battery check, source check per HP-7.31 and check calibration (RC2A, Radector III, Xetec 305 series or Eberline Teletector) | 5 _____  |

Initials \_\_\_\_\_ Date \_\_\_\_\_

APPENDIX "D"EMERGENCY EQUIPMENT IN TECHNICAL SUPPORT CENTER

- |   |     |       |
|---|-----|-------|
| 1. Radiation monitor RM-14 or equivalent with FP-190 probe battery check, source check, check calibration | 1   | _____ |
| 2. Area radiation monitor - battery check, source check, check calibration                                | 1   | _____ |
| 3. Full face respirator - inspect mask mark bag with inspection date and initials                         | 10  | _____ |
| 4. Respirator charcoal filter - check expiration date   | 10  | _____ |
| 5. Thyroid block tablets (bottles) check expiration date  | 25  | _____ |
| 6. Dosimeter, 500mr - check calibration   | 25  | _____ |
| 7. Dosimeter, high range - check calibration  | 10  | _____ |
| 8. Dosimeter charger with battery - operability check   | 1   | _____ |
| 9. RADECC H-809 B2 air sampler - run 120 minutes  | 1   | _____ |
| 10. Air sample filters - particulate  | 4   | _____ |
| 11. Air sample filters - silver zeolite   | 4   | _____ |
| 12. Anti-contamination clothing (sets)  | 25  | _____ |
| 13. Step Off Pads   | 10  | _____ |
| 14. Daily exposure records sheets   | 5   | _____ |
| 15. Radioactive materials bags (yellow)   | 5   | _____ |
| 16. Tape, rolls (replace January)   | 5   | _____ |
| 17. Smear papers  | 100 | _____ |
| 18. Envelopes for smears  | 10  | _____ |
| 19. Envelopes for particulate air sample  | 10  | _____ |
| 20. Envelopes for iodine air samples  | 10  | _____ |
| 21. Pens and pencils  | 5ea | _____ |
| 22. Radio, Portable - radio check with security   | 4   | _____ |

## APPENDIX "D" (con't)

- |  |         |
|--|---------|
| 23. Radio, Stationary - radio check with security - log book entry   | 1 _____ |
| 24. NRC Red telephone - lift receiver, tell party "This is a Ginna Station TSC Communication Check."   | 1 _____ |
| 25. New York State Red Telephone - push button, lift receiver, wait 10 seconds, ask if New York State, Wayne County, Monroe County are listening? Tell them "This is Ginna Station TSC Communication Check." | 1 _____ |
| 26. HPN telephone - dial selected station to confirm communication check   | 1 _____ |
| 27. ECF Direct line (63PL5187) Telephone   | 1 _____ |
| 28. Silent 700 operational check   | 1 _____ |

## 1. Place switches in the following positions:

- A) Upper case switch - depress right
- B) Half Dup switch - depress left
- C) Cn-line switch - depress left
- D) Low Speed switch - depress right
- E) On/Off switch - push forward

## 2. Dial Ginna ext. 244

- 3. Place phone into terminal as shown above, ensure phone is placed securely.
- 4. Enter TSC as your user ID
- 5. Enter Request - "time"
- 6. Log off with - "bye"

Initials \_\_\_\_\_ Date \_\_\_\_\_



APPENDIX "E"

EMERGENCY EQUIPMENT MONTHLY INSPECTION LOG

DISCREPANCIES NOTED

DISCREPANCIES CORRECTED

Survey Center

Date \_\_\_\_\_ Initials \_\_\_\_\_

Date \_\_\_\_\_ Initials \_\_\_\_\_

Control Room

Date \_\_\_\_\_ Initials \_\_\_\_\_

Date \_\_\_\_\_ Initials \_\_\_\_\_

HP Office

Date \_\_\_\_\_ Initials \_\_\_\_\_

Date \_\_\_\_\_ Initials \_\_\_\_\_

Auxiliary Bldg.

Date \_\_\_\_\_ Initials \_\_\_\_\_

Date \_\_\_\_\_ Initials \_\_\_\_\_

Technical Support  
Center

Date\_\_\_\_\_Initials\_\_\_\_\_

Date\_\_\_\_\_Initials\_\_\_\_\_

Operational  
Support Center

Date\_\_\_\_\_Initials\_\_\_\_\_

Date\_\_\_\_\_Initials\_\_\_\_\_

Emergency Plant  
Vent Monitor

Date\_\_\_\_\_Initials\_\_\_\_\_

Date\_\_\_\_\_Initials\_\_\_\_\_

REVIEWED BY: \_\_\_\_\_

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

GINNA STATION  
UNIT #1  
COMPLETED

DATE :-

TIME :-

PROCEDURE NO. SC-600

REV. NO. 3

EMERGENCY PLAN QUALIFICATION AND NOTIFICATION

TECHNICAL REVIEW

PORC REVIEW DATE 6-20-83

*[Signature]*  
QC REVIEW

*[Signature]*  
PLANT SUPERINTENDENT

JUN 24 1983  
EFFECTIVE DATE

QA X NON-QA        CATEGORY 1.0

REVIEWED BY:                     

THIS PROCEDURE CONTAINS 14 PAGES

SC-600EMERGENCY PLAN QUALIFICATION AND NOTIFICATION1.7 PURPOSE:

- 1.1 Provide a current list of Emergency Response Organization qualified individuals and a method of contacting them.

2.7 REFERENCES:

- 2.1 SC-200, Emergency Response Organization/Responsibilities.  
 2.2 A-103.8, Emergency Plan Training

3.7 INSTRUCTIONS:

- 3.1 Qualified individuals for each function can be found with home phone numbers on the noted attachments:

<u>Function</u>	<u>Attachments</u>
Emergency Coordinator	I
Dose Assessment Manager or Health Physics/Chemistry	I
Plant Assessment Manager	II
Plant Operations Assessment Manager	II
Plant Maintenance Assessment Manager	II
Plant Technical Assessment Manager	III
Nuclear Assessment	III
I/C Electrical System Assessment	III
Mechanical/Hydraulic System Assessment	III
Computer Analyst	III
Administrative Communications Manager	IV
Switchboard Operator	IV
Communicator	IV
Security Manager	IV
Emergency Survey Team	V
Emergency Survey Center Manager	VI
Control Room	VII
Operations Support Center	VIII

- 3.1.2 The qualified individual attachments shall be reviewed and updated semi-annually.
- 3.1.3 Individuals shall be removed from the attachment if they have not participated in Emergency Training during the previous eighteen months.
- 3.1.4 Individuals with \* were evaluated in position.

## ATTACHMENT I

EMERGENCY COORDINATOR

The below individuals through their job responsibilities and Technical Support Center Training, as described in Procedure A-103.3, are qualified as Emergency Coordinators.

Superintendent  
Asst. Superintendent  
Shift Supervisor  
Shift Supervisor  
Shift Supervisor  
Shift Supervisor  
Shift Supervisor  
Shift Supervisor  
Shift Supervisor  
Shift Supervisor  
Shift Supervisor  
Shift Supervisor  
Shift Supervisor  
Training Manager  
Training Coordinator  
Shift Supervisor

DOSE ASSESSMENT MANAGER/HEALTH PHYSICS/CHEMISTRY MANAGER

The below individuals through their job responsibilities and Technical Support Center Training, as described in procedure A-103.3, are qualified Dose Assessment Managers or Health Physics/Chemistry Manager.

Health Physics and  
Chemistry Manager  
Health Physicist  
Health Physicist  
Health Physicist  
Radio Chemist

ATTACHMENT II

PLANT ASSESSMENT MANAGER

The below individuals through their job responsibilities and Technical Support Center Training, as described in Procedure A-103.8, are qualified as Plant Assessment Managers.

Technical Manager  
Technical Projects Supervisor  
Operations Manager

PLANT OPERATIONS ASSESSMENT MANAGERS

The below individuals through their job responsibilities and Technical Support Center Training, as described in procedure A-103.8, are qualified as Plant Operations Assessment Managers.

Operations Manager  
Operations Supervisor

PLANT MAINTENANCE ASSESSMENT MANAGER

The below individuals through their job responsibilities and Technical Support Center Training, as described in Procedure A-103.8, are qualified as Plant Maintenance Assessment Managers.

Maintenance Manager  
Operational Assessment  
Engineer  
Shift Technical Advisor  
for Maintenance

ATTACHMENT III

PLANT TECHNICAL ASSESSMENT MANAGER

The below individuals through their job responsibilities and Technical Support Center Training, as described in Procedure A-103.8, are qualified as Plant Technical Assessment Managers.

Technical Projects Supervisor  
Nuclear Assessment Manager  
Operational Assessment  
Engineer

NUCLEAR ASSESSMENT

The below individuals through their job responsibilities and Technical Support Center Training, as described in procedure A-103.8, are qualified for Nuclear Assessment.

Reactor Engineer  
Technical Manager

I/C ELECTRICAL SYSTEM ASSESSMENT

The below individuals through their job responsibilities and Technical Support Center Training, as described in procedure A-103.8, are qualified for I/C Electrical Assessment.

I/C Supervisor  
Test & Results Supervisor

MECHANICAL/HYDRAULIC SYSTEM ASSESSMENT

The below individuals through their job responsibilities and Technical Support Center Training, as described in procedure A-103.8, are qualified for Mechanical/Hydraulic System Assessment.

Maintenance Supervisor  
Asst. Training Coordinator  
Fire Protection and Safety  
Coordinator



ATTACHMENT III (con't)

COMPUTER ANALYST

The below individuals through their job responsibilities and Technical Support Center Training, as described in procedure A-103.8, are qualified Computer Analysts.

Computer Technician  
Computer Technician

ATTACHMENT IV

ADMINISTRATIVE COMMUNICATIONS MANAGER

The below individuals through their job responsibilities and Technical Support Center Training, as described in procedure A-103.8, are qualified Administrative Communications Manager.

3

SWITCHBOARD OPERATORS

The below individuals through their job responsibilities are qualified Switch Board Operators.

Asst. Office Supervisor

COMMUNICATIONS

The below individuals through training as described in procedure A-103.8, are qualified Radio Operators.

Westinghouse Site Services  
Manager

SECURITY MANAGER

The below individuals through their job responsibilities and Technical Support Center Training, as described in procedure A-103.8, are qualified Security Managers.

Nuclear Security Manager  
Supervisor on Nuclear  
Security Training

ATTACHMENT V

EMERGENCY SURVEY TEAM

The below individuals through training as described in procedure A-103.8, are qualified as Emergency Survey Team members.

Health Physics Section

Maintenance Section

Operations Section

---

ATTACHMENT V (con't)

Technical Section

Training Section

Quality Control Section

---

ATTACHMENT VI

EMERGENCY SURVEY CENTER MANAGER

The below individuals through training as described in procedure A-133.3, are qualified as Emergency Survey Center Managers.

Training Section

Quality Control Section.

ATTACHMENT VII

CONTROL ROOM

The below individuals through job responsibilities and training, as described in procedure A-103.8, are qualified for Control Room responsibilities during a Radiation Emergency.

Health Physics Section

Shift Technical Advisor

Operations Section

---

ATTACHMENT VII (con't)

CONTROL ROOM (con't)

Operations Section (con't)

Training Section

---



ATTACHMENT VIII

OPERATIONS SUPPORT CENTER

The below individuals through their job responsibilities and training, as described in procedure A-103.8, are qualified to perform the duties as a member of the Operations Support Center.

Health Physics Section

Maintenance Section

ATTACHMENT VIII (con't)

OPERATIONS SUPPORT CENTER (con't)

Maintenance Section (con't)

Operations Section

ATTACHMENT VIII (con't)  
OPERATIONS SUPPORT CENTER (con't)

Training Section

Technical Section

---

GINNA STATION  
UNIT #1  
COMPLETED

DATE :-

TIME :-

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER 23

PROCEDURE NO. SC-701

REV. NO. 4

INITIAL NOTIFICATION STATUS REPORT

TECHNICAL REVIEW

PORC REVIEW DATE 6-20-83

*[Signature]*  
QC REVIEW

*[Signature]*  
PLANT SUPERINTENDENT

JUN 24 1983

EFFECTIVE DATE

QA 2 NON-QA        CATEGORY 1.0

REVIEWED BY:                     

THIS PROCEDURE CONTAINS 5 PAGES

SC-701INITIAL NOTIFICATION STATUS REPORT1.0 PURPOSE:

- 1.1 Provide a list of important information to be provided to offsite agencies during an emergency situation.
- 1.2 Provide information in a standardized format similar to that of the receiving party.

2.0 REFERENCES:

- 2.1 SC-1 Radiation Emergency Plan.
- 2.2 NYS Radiological Emergency Preparedness Plan.

3.0 INSTRUCTIONS:

- 3.1 The initial notification of an accident is to be reported to the USNRC, within one hour.
- 3.2 The New York State Radiological Emergency Data Form, Attachment I should be filled out with the assistance of the Shift Supervisor and Health Physics Personnel.
  - 3.2.1 Obtain weather information, step 11 of form, using Control Room weather indication or the computer.
  - 3.2.2 For step 10 Shift Supervisor may use, SC-240 Protective Action Recommendations.
- 3.3 Report the information on the completed New York State Radiological Emergency Data Form to USNRC, New York State, Wayne and Monroe County using SC-601, or SC-602, or SC-603, or SC-604.
  - 3.3.1 Report only Steps 1 through 11 on the initial contact.
  - 3.3.2 Report the information by reading the statement including the designation letter. i.e. |A|
  - 3.3.3 The New York State Radiological Emergency Data Form, Attachment 1 information will be reported when the event is initially classified, during the Emergency, and any time the classification is changed, using a new Attachment I each time.
  - 3.3.4 Data in steps 12 through 17 should be reported as information becomes available.

ATTACHMENT INEW YORK STATE RADIOLOGICAL EMERGENCY DATA FORMRoll Call Response - New York State Warning Point ☐Monroe County ☐Wayne County ☐

The following data uses the New York State Radiological Emergency Data Form:

1. Date \_\_\_\_\_ and Time \_\_\_\_\_ of Message Transmittal.
2. Nuclear Facility providing this report is ☒ Ginna Station.
3. Reported by \_\_\_\_\_ Title \_\_\_\_\_  
(name)
4. This ☒ is an exercise.  
This ☐ is not an exercise.
5. Emergency Classification: (See SC-100)  
☒ Unusual Event  
☐ Alert  
☐ Site Emergency  
☐ General Emergency  
☐ Transportation Accident
6. The Event occurred at Date \_\_\_\_\_ Time \_\_\_\_\_
7. Event Description/Initiating Condition \_\_\_\_\_  
\_\_\_\_\_
8. There ☒ has not been a release of radioactivity  
☐ has been a release of radioactivity to the atmosphere  
☐ has been a release of radioactivity to Lake Ontario  
☐ has been a Ground Spill of radioactivity
9. The release ☒ is continuing  
☐ has terminated  
☐ intermittent  
☐ not applicable

## 10. Protective Actions (See SC-240)

| A | There is no need for protective actions| B | Protective Actions are under consideration| C | Protective Action Recommended is:

Shelter within \_\_\_\_\_ miles downwind/or FRPA's # \_\_\_\_\_

Evacuate within \_\_\_\_\_ miles downwind/or FRPA's # \_\_\_\_\_

## 11. Weather

| A | Wind speed \_\_\_\_\_ miles per hour| B | Direction (from) \_\_\_\_\_ degrees

## Stability Class Work Sheet

Temperature at 33 ft \_\_\_\_\_ °F

Temperature at 250 ft \_\_\_\_\_ °F

Difference in Temperature \_\_\_\_\_ °F

Condition is Unstable if difference is greater than +2°FCondition is Neutral if difference is between +1.5°F and +1.9°FCondition is Stable if difference is less than +1.5°F or negative

Record condition in Stability Class

| C | Stability class \_\_\_\_\_| D | General Weather is known; clear, cloudy, rain, snow, \_\_\_\_\_For initial report, stop after Step 11



Report data in steps 12 through 17 as information becomes available

12. Prognosis for worsening or termination of the Emergency (if known)
- 
- 

13. In-Plant Emergency Response Actions Underway

- Technical Support Center is is not manned
- Operation Support Center is is not manned
- Emergency Survey Center is is not manned

14. Utility Off-Site Emergency Response Action Underway

- Emergency Off-Site Facility is is not manned
- Media Center is is not manned
- Emergency Personnel are being called in YES NO

15. Release Information

|A| Atmospheric Release

Release started at \_\_\_\_\_ hours on \_\_\_\_\_ (date)

	<u>Actual</u>	<u>Projected</u>
Duration of Release _____ hours	_____ hours	_____ hours
Noble Gas Release Rate _____ Curie/sec	_____ Curie/sec	_____ Curie/sec
Iodine Release Rate _____ Curie/sec	_____ Curie/sec	_____ Curie/sec
Release is <u>at Ground</u>		

|B| Waterborne Release

Release started at \_\_\_\_\_ hours on \_\_\_\_\_ (date)

	<u>Actual</u>	<u>Projected</u>
Duration of Release _____ hours	_____ hours	_____ hours
Volume of Release _____ gallons	_____ gallons	_____ gallons
Radioactivity Concentration		
(gross) _____	Microcurie/ Milliliter	Microcurie/ Milliliter

	<u>Actual</u>	<u>Projected</u>
Total Radioactivity Release	_____ Curie	_____ Curie
Radionuclides in Release		
	_____ Microcurie/ Milliliter	_____ Microcurie/ Milliliter
	_____ Microcurie/ Milliliter	_____ Microcurie/ Milliliter
	_____ Microcurie/ Milliliter	_____ Microcurie/ Milliliter

|C| Basis for Release Data eg. effluent monitor, grab sample,  
composite sample and sample location \_\_\_\_\_

## 16. Dose Measurements and Projections

<u> A  Site Boundary</u>	<u>Actual</u>	<u>Projected</u>
- Whole Body Dose Rate	_____ millirem/hr	_____ millirem/hr
- Whole Body Commitment (for duration of incident)		_____ Rem
- Thyroid Dose Commitment (one hour exposure)	_____ millirem/hr	_____ millirem/hr
- Thyroid Dose (Total for duration of incident)		_____ Rem

|E| Projected Off-Site

	<u>2 miles</u>	<u>5 miles</u>	<u>10 miles</u>
- Whole Body Dose Rate	_____ millirem/hr	_____ millirem/hr	_____ millirem/hr
- Whole Body Dose	_____ Rem	_____ Rem	_____ Rem
- Thyroid Dose Commitment (1 hr. Exposure)	_____ millirem/hr	_____ millirem/hr	_____ millirem/hr
- Thyroid Dose (Total Commit- ment)	_____ Rem	_____ Rem	_____ Rem

## 17. Protective Action Recommendation and the Basis for the Recommendation