

ROCHESTER GAS AND ELECTRIC CORPORATION

GINNA STATION

CONTROLLED COPY NUMBER _____

GINNA STATION
UNIT #1
COMPLETED

DATE :-

TIME :-

PROCEDURE NO. SC-213

REV. NO. 1

ACCOUNTABILITY OF PERSONNEL

TECHNICAL REVIEW

PORC REVIEW DATE 6-23-82

J. Bodine
QC REVIEW

Bruce A. ...
PLANT SUPERINTENDENT

6-25-82
EFFECTIVE DATE

QA X NON-QA _____ CATEGORY 1.0

REVIEWED BY: _____

THIS PROCEDURE CONTAINS 2 PAGES

SC-213ACCOUNTABILITY OF PERSONNEL1.0 PURPOSE:

- 1.1 Provide instruction for accountability of personnel within the plant protected area in the event of plant evacuation.

2.0 REFERENCES:

- 2.1 SC-233 Search and Research Operation
- 2.2 GS-10.0, Security Personnel Actions During a Radiation Emergency
- 2.3 GS-17.0, Accountability of Personnel During Emergency Conditions

3.0 INSTRUCTIONS:

- 3.1 Upon leaving the site all personnel will turn in the site photo identification card to Security.
- 3.1.1 Security personnel will deactivate each card upon exiting by the normal procedure.
- 3.1.2 After the last person has exited the site, Security shall request an Employee Onsite List from the computer.
- 3.2 Security personnel shall bring the Employee Onsite List to the Emergency Survey Center.
- 3.3 The Technical Support Center Administrative/Communications Manager shall report the names of all personnel in the TSC, and all persons reported to be in the Control Room and Operation Support Center, to the Emergency Survey Center Manager.
- 3.4 With Security, the Emergency Survey Center Manager shall cross off all names reported to be at the other Emergency Centers and Security personnel onsite.
- 3.4.1 The names of personnel not accounted for shall be reported to the Emergency Coordinator.
- 3.5 The Emergency Coordinator shall determine the necessity of Search and Rescue Operations for unaccounted personnel. SC-233

- 3.5.1 Unaccounted personnel shall be paged and requested to call the Operator.
- 3.5.2 Consider the possibility that the unaccounted personnel may have left the site. Check guard at plant driveway for personnel leaving.
- 3.5.3 Consider a telephone call to individual's home.
- 3.5.4 Advise other Emergency Centers of personnel accountability status.
- 3.6 Should the Security computer be out of service during the site evacuation.
 - 3.6.1 A senior member of each shop or work group shall prepare a list of their fellow workers in the Training Center and submit the list to Security Personnel.
 - 3.6.2 This list will be checked with group managers to determine any personnel not accounted for.
 - 3.6.3 Personnel unaccounted for shall be reported as per step 3.4 above.

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REV. NO. 1

SEARCH AND RESCUE OPERATION

TECHNICAL REVIEW

ORC REVIEW DATE 6-23-82

J. Bodini
QC REVIEW

Brubaker
PLANT SUPERINTENDENT

6-25-82
EFFECTIVE DATE

QA X NON-QA _____ CATEGORY 1.0

REVIEWED BY: _____

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SC-233SEARCH AND RESCUE OPERATION1.0 PURPOSE:

1.1 Provide a method for a search and rescue operation.

2.0 REFERENCES:

2.1 SC-213 Accountability of Personnel

2.2 SC-230 Immediate Entry Procedure

2.3 A-7 Procedure for handling illness or injury at Ginna Station

3.0 INSTRUCTIONS:

3.1 The Emergency Coordinator will institute a search and rescue operation based upon accountability.

3.1.1 Notify Security to scan area for missing individual(s).

3.1.2 Notify Control Room giving the identity of missing individual(s).

3.1.3 Notify the on-site survey teams to visually scan for the missing individual(s).

3.2 The radio communicator in TSC shall notify in-plant survey teams of search and rescue operation.

3.2.1 Should an in-plant survey team discover the missing individual(s):

3.2.1.1 Notify the Radio Communicator in TSC and give assistance as required.

3.3 The Search and Rescue team shall commence the operation as follows:

3.3.1 If dispatched from Emergency Survey Center enter site using SC-230 Immediate Entry Procedure.

3.3.2 Obtain identity of individual(s) and:

3.3.3 Obtain appropriate protective clothing, dosimetry meters as recommended by Health Physicist and a radio.

3.3.4 Commence search in last known area and expand in adjacent areas and building until individual is found.

- 3.4 Emergency Coordinator shall keep other Emergency Centers advised of personnel accountability status.
- 3.3.5 Do not enter area where radiation levels are greater than 2 R/hr unless directed by Emergency Coordinator.
- 3.3.6 Upon locating missing individual, notify the Radio Communicator in TSC and commence emergency medical treatment as appropriate per A-7 procedure for handling illness or injury at Ginna Station.

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TIME :-

PROCEDURE NO. SC-322

REV. NO. 2

MANNING THE EMERGENCY SURVEY CENTER

TECHNICAL REVIEW

PORC REVIEW DATE 6-23-82

J. J. ...
QC REVIEW

B. ...
PLANT SUPERINTENDENT

6-25-82
EFFECTIVE DATE

QA NON-QA _____ CATEGORY 1.0

REVIEWED BY: _____

THIS PROCEDURE CONTAINS 4 PAGES

SC-322MANNING THE EMERGENCY SURVEY CENTER1.0 PURPOSE:

- 1.1 The purpose of this procedure is to designate individuals who should report to the Emergency Survey Center for an Alert level or greater event. These personnel will assist the TSC and OSC with emergency functions.

2.0 REFERNCES:

- 2.1 SC-1 Radiation Emergency Plan
- 2.2 SC-200 Emergency Response Organization/Responsibilities
- 2.3 SC-230 Immediate Entry
- 2.4 SC-223 Accountability
- 2.5 SC-213 Site Evacuation
- 2.6 SC-302 Manning the Technical Support Center
- 2.7 SC-312 Manning the Operational Support Center
- 2.8 SC-323 Emergency Off Site Radiation Survey Teams
- 2.9 SC-324 Emergency On Site Radiation Survey Teams

3.0 INSTRUCTIONS:

- 3.1 During normal working hours (or if on site) the following persons report directly to the Emergency Survey Center upon announcement of an Alert level or greater
1. Quality Control Engineer or alternate
 2. Designated Survey Team Members per SC-600
- 3.2 Upon Arrival at the Emergency Survey Center
- 3.2.1 Assure ESC is open
- 3.2.2 Obtain appropriate tag from Survey Center Tag Board and log name under tag. Tag instructions found in Attachment I.

- 3.2.3 Follow instruction on tag
- 3.3 During off duty hours individuals will be called to report to Ginna Station. You may report directly to the Emergency Survey Center and proceed with Step 3.2 above.
- 3.4 Check out high range survey instrument.
 - 3.4.1 Survey basement, auditorium and areas exterior to the building.
 - 3.4.2 If dose rate is greater than 50 mRem/hr advise emergency coordinator and make arrangements to relocate after survey teams are dispatched.
 - 3.4.3 Take an air sample and determine activity. If unidentified activity is greater than 1×10^{-8} uci/cc advise emergency coordinator.
- 3.5 Assist survey teams to organize and maintain team positions on maps.
 - 3.5.1 Maintain a record of all survey team samples and insure samples are properly marked and stored.
- 3.6 Notify Security at SAS of TSC members (by name) who will need access to the site.
 - 3.6.1 Advise those going to the TSC of dose rates in the area.
- 3.7 Obtain accountability of all plant personnel in ESC and Training Center.

ATTACHMENT I TO SC-322TAG BOARD ASSIGNMENTS

Emergency Survey Center Manager

Log Name on Tag Board	REVERSE SIDE
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Follow procedure SC-322	BLANK
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Emergency Survey Center Communicator

Report to Survey Center Manager	REVERSE SIDE
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	BLANK
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On-Site Survey Team Blue

Obtain Blue foot locker	REVERSE SIDE
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Follow procedure SC-324 found inside foot locker	BLANK
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On-Site Survey Team Yellow

Obtain Yellow foot locker	REVERSE SIDE
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Follow procedure SC-324 found inside foot locker	BLANK
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Spare Survey Team White

Report to Survey Center Manager	REVERSE SIDE
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Obtain a dosimeter	
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Follow procedure SC-323 and 324 found inside foot locker	
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Standby in E.C.S. Equipment Room	
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Off-Site Survey Team Green

Obtain Green foot locker	REVERSE SIDE
Follow procedure SC-323 found inside foot locker	BLANK

Off-Site Survey Team Red

Obtain Red foot locker	REVERSE SIDE
Follow procedure SC- 323 found inside foot locker	BLANK

Off-Site Survey Team Orange

Obtain Orange foot locker	REVERSE SIDE
Follow procedure SC- 323 found inside foot locker	BLANK

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PROCEDURE NO. SC-452

REV. NO. 0

SAMPLING SNOW, GRASS, SOIL AND VEGETATION

TECHNICAL REVIEW

PORC REVIEW DATE 6-23-82

J. Bodini
QC REVIEW

[Signature]
PLANT SUPERINTENDENT

6-25-82
EFFECTIVE DATE

QA X NON-QA _____ CATEGORY 1.0

REVIEWED BY: _____

THIS PROCEDURE CONTAINS 4 PAGES

SC-452SAMPLING SNOW, GRASS, SOIL AND VEGETATION1.0 PURPOSE:

- 1.1 To define criteria for taking samples from areas surrounding the plant to determine possible surface contamination after an uncontrolled release.

2.0 REFERENCES:

- 2.1 SC-450

3.0 PRINCIPLE:

- 3.1 The determination of radioactive contamination in the environment surrounding the Ginna Plant requires specific criteria for sampling to ensure that meaningful data is obtained.

4.0 PREREQUISITES AND NEEDED EQUIPMENT:

- 4.1 Clean plastic bags for holding samples.
- 4.2 Tools for obtaining specific types of samples, as may be necessary.
- 4.3 Survey meter RM-14 with HP190 probe or uR meter.

5.0 PRECAUTIONS AND LIMIT VALUES:

- 5.1 Care must be taken not to contaminate the initial sample while it is being taken.
- 5.2 Care must be taken not to cross-contaminate samples in handling or counting.
- 5.3 Radiological precautions should be taken while sampling potentially contaminated areas to prevent personal contamination.

6.0 INSTRUCTIONS:

- 6.1 Obtain clean plastic bags to be used to collect samples.
- 6.2 Obtain tools necessary to obtain specific types of samples.

- 6.3.9 Return sample bag for analysis to Survey Center Manager, environmental trailer or other specified location.
- 6.4 Radiation measurements of small selected land areas for possible contamination.
- 6.4.1 Restrict passage through the area when possible by cordoning off with ropes.
- 6.4.2 Establish a grid system of reasonable size squares in area to be surveyed: i.e. 20 ft. squares for low contamination; 10 ft. squares for moderate contamination; 5 ft. squares for heavy contamination.
- 6.4.3 Slowly walk along centerline of grid squares holding survey instrument 1 meter above ground or other authorized comfortable height. Note readings of instrument for deviations from background measurements.
- 6.4.4 Record reading at center point of each square.
- 6.4.5 After finishing center point measurements for all squares, return to locations deviating from background measurements and by surveying smaller areas determine if deviation is for general area contamination or locations of hot spots of contamination.
- 6.4.6 Prepare a map of area surveyed using recorded readings and approximate areas of contamination.
- 6.5 Taking samples at locations identified for environmental sampling.
- 6.5.1 Survey 1 cm above the surface to determine maximum activity in general area of interest.
- 6.5.2 Select specific area to be sampled determined by size of sample necessary.
- 6.5.3 Grassy area. Measure selected sampling area in units of square feet.
- 6.5.3.1 Take radiation readings 1 cm and 1 meter above the surface of area to be sampled.
- 6.5.3.2 Clip grass in sample area as close to the roots as possible without including dirt in the sample. Grass sample should fill approximately a volume of 1 gal. if possible.
- NOTE: Do not pull up clumps of grass and dirt and submit as sample. This sample would be meaningless for determination of contamination.
- 6.5.3.3 Collect top 1/2 in. of soil from area in which grass was clipped as a second sample. Soil area to obtain equivalent volume as grass will be less than clipped for grass sample.

- 6.5.3.4 Remeasure radiation levels at 1 cm and 1 meter above surface.
- 6.5.3.5 Record on Attachment I the location of sample, area sampled in sq. ft., depth of soil sampled, location on grid or number of feet and direction from permanent reference object, time of sample and radiation readings before and after sampling.
- 6.5.4 Non-grassy areas. Measure selected area in square feet.
- 6.5.4.1 Measure radiation levels at 1 cm and 1 meter above surface.
- 6.5.4.2 If leaves and/or other debris, other than sticks, are in the selected area, they should be collected as a separate sample.
- 6.5.4.3 Remeasure radiation levels if leaves have been collected for sample.
- 6.5.4.4 Collect top 1/2 in. of soil from area selected if level. Collect small plugs of soil if roughly plowed field. Plugs can cover larger area but give approximate sq. ft. area.
- 6.5.4.5 Remeasure radiation levels at 1 cm and 1 meter.
- 6.5.4.6 Record on Attachment I the location of sample, depth sampled, location on grid or number of feet and direction from permanent reference object, time of sample and radiation readings before and after sampling.
- 6.5.4.7 Label sample bag clearly, identifying sample.
- 6.6 Sampling Vegetation.
- 6.6.1 Choose vegetation to be sampled based on deposition possibilities and availability for sufficient sample size.
- NOTE: Tree leaves should be sampled from top most part of tree. Deposition is unlikely on leafy areas under taller trees or bushes. Ground covers such as burdock, lettuce or flowers should be selected from open areas. Large leafy vegetation is better than small. If rain has occurred since the release, deposited contamination may have been washed off.
- 6.6.2 Take as large a sample as possible considering that it will be compressed into a 3.5 liter marinelli beaker.
- NOTE: Consider that edible vegetation will be prepared as normally used for eating, prior to counting.
- 6.6.3 Record on Attachment I the location of sample, type of sample, time of sample and other data necessary for full descriptive purposes.

ATTACHMENT I

Type of Sample _____

Date: _____ Time: _____ Person Taking Sample: _____

Location: _____

DRAW MAP

Reference Object: _____

Direction: _____

Distance: _____ ft.

_____ ft.

Area _____ sq. ft.

Depth _____ inches

Before Sampling:

After Sampling:

Radiation Reading @ 1cm _____

Radiation Reading @ 1cm _____

@ 1 meter _____

@ 1 meter _____

Weather Conditions: _____

Other Comments: