

EMERGENCY PLAN IMPLEMENTING PROCEDURES

REVISION CONTROL SHEET

Revision No. 5Revision Date 3/2/82

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ACTIVATION AND OPERATION OF THE OPERATIONAL SUPPORT CENTER	Page 1 of 42 Revision 2 Date 1/15/82

1.0 PURPOSE

This procedure describes actions to be taken to activate, staff, and perform the emergency functions of the Operational Support Center (OSC) shown in Attachment 1.

2.0 APPLICABILITY

This procedure applies to all site management and technical personnel assigned to the OSC or responsible for emergency functions conducted from the OSC. Requirements delineated in this procedure shall be implemented upon the occurrence of an event which may result in an emergency condition classified as an Alert, Site, or General Emergency involving radiological exposure to personnel.

3.0 RESPONSIBILITIES

3.1 Site Radiation Protection Coordinator

Initially instruct, dispatch, and coordinate emergency monitoring teams.

3.2 Operational Support Center Supervisor

This position will be filled by (1) the Health Physics Supervisor, (2) the Radwaste Supervisor, or (3) Asst. Radiation Protection Engineer.

Provide general supervision of personnel gathered at the OSC.

Coordinate Emergency Assignment Board tag duties.

Coordinate support activities provided by personnel assigned to the OSC.

Determine OSC staff and expertise required subsequent to completion of Emergency Tag Board duties and advise the Emergency Coordinator.

3.3 Emergency Coordinator

Authorize the dispatch of onsite and offsite radiological monitoring teams.

4.0 INSTRUCTIONS

4.1 Activation of the OSC will be initiated under the following conditions:

4.1.1 Notification of an Unusual Event if escalation appears imminent.

4.1.2 Alert/Site Emergency/General Emergency.

4.2 The Shift Supervising Engineer shall initiate EPIP 4.1, "Site Evacuation" when an event is classified as an Alert, a Site, or General Emergency.

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- 4.3 In the event evacuation is necessary, the Shift Supervising Engineer shall ensure the following:
- 4.3.1 Notification of onsite emergency response personnel in accordance with EPIP 4.1, "Site Evacuation."
 - 4.3.2 Notification of offsite emergency response personnel and offsite agencies in accordance with EPIP 1.2, "Notification of Emergency Response Personnel and Offsite Agencies."
- 4.4 Upon arrival at DAEC, or if already present at DAEC, the Site Radiation Protection Coordinator shall immediately proceed to the Technical Support Center (TSC). At the TSC, he shall perform the following tasks:
- 4.4.1 Determine initial airborne dose projections in accordance with EPIP 3.3, "Dose Projections."
 - 4.4.2 Inform the Emergency Coordinator of the results of the dose projections, and recommend appropriate response actions.
 - 4.4.3 Following completion of these tasks, the Site Radiation Protection Coordinator may then proceed to the OSC as necessary.
 - 4.4.4 The Site Radiation Protection Coordinator shall brief the OSC Supervisor and monitoring team personnel concerning dose projections, wind direction and velocity, release paths, and required monitoring.
- 4.5 The OSC Supervisor will immediately report to the OSC, the alternate OSC supervisor (upon determining that the primary is present) will report to the TSC to receive the inplant status report from the Site Radiation Protection Coordinator. He will then return to the OSC and brief the OSC Supervisor concerning plant status. They then shall perform the following tasks:
- 4.5.1 Establish communication with the Control Room and/or the TSC.
 - a. Primary communications will be by the telephone, security/radiological survey radio system, and operations radio system.
 - b. The back-up systems will be by runners.
 - 4.5.2 Initiate Operational Support Center (OSC) Log (see Attachment #2).
 - 4.5.3 Supervise the implementation of Emergency Assignment Board tag duties.

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NOTE

When personnel accountability is accomplished and if the event is not escalating, personnel may be permitted to return to safe areas as approved by the Emergency Coordinator.

- 4.5.5 Report missing individuals to the Emergency Coordinator.
- 4.5.6 Supervise the activities of personnel assembled at or performing emergency functions within the OSC.
- 4.5.7 Perform such other duties as specified in the EIPs and as summarized in the attached checklist (Attachment 6).
- 4.6 The Security Shift Supervisor will immediately activate the personnel accountability procedure and assign personnel to accomplish the tasks itemized in the attached checklist (Attachment 7).
 - 4.6.1 Upon declaration of an emergency event requiring activation of the emergency response facilities, a member of the security force shall be dispatched to unlock the Emergency Response Team lockers, as well as the HVAC room of the TSC. There is another set of keys located in the Secondary Alarm Station in the event the keys in the SCP become lost or misplaced.
- 4.7 Personnel reporting to the OSC shall go to the Emergency Assignment Board areas upon arrival and remove, in numerical sequence, color-coded tags which match their job classification. See Attachment 3 and Attachment 4. Staff personnel are those DAEC Emergency Response Organization Members (with the exclusion of plant management, supervisors, and clerical) that are either placed on call or upon arriving at the Emergency Assignment Board find their supply of color coded tags exhausted. Should all tags be taken from the tag board personnel shall report to the OSC Supervisor that they are available for other duties and then proceed to the locker room and standby.

First aid personnel shall be assigned by the Security Shift Supervisor as directed by the OSC Supervisor.

 - 4.7.1 Instruction for tasks to be performed are included on the tags.

4.7.2 Color-coding is based on job classification as follows:

- a. Pink - Health Physics Technicians
- b. Orange - Radwaste Operators
- c. Red - Rad/Chem Technicians
- d. Green - Staff
- e. Blue - Instrument Technicians
- f. Purple - Electricians
- g. Yellow - Mechanic
- h. Black - Technical Engineers
- i. White - Shift Technical Advisors

4.7.3 Following an event which may result in an emergency condition classified as an Alert, Site or General Emergency involving radiological exposure to personnel which does not dictate a general site evacuation, the on shift Access Control Foreman shall remain in Access Control performing personnel monitoring until he is relieved by a Pink Tag Person. He shall then proceed to report to the OSC Supervisor and await further instructions.

4.8 After removal of the tag, personnel shall:

4.8.1 Complete the instructions on their tags. Personnel requiring self contained breathing apparatus shall obtain them from the emergency locker area or Access Control.

4.9 Emergency monitoring teams shall be dispatched by the Site Radiation Protection Coordinator as authorized by the Emergency Coordinator as follows:

4.9.1 Onsite monitoring teams shall be dispatched during an event classified as Alert, Site, or General Emergency where there exists conditions with actual or potential for radiological significance. Refer to EPIP 3.1 "Onsite Radiological Monitoring."

4.9.2 Offsite monitoring teams shall be dispatched during an event classified as a Site or General Emergency where there exist conditions with actual or potential radiological significance. Refer to EPIP 3.2 "Offsite Radiological Monitoring."

NOTE

At the discretion of the Emergency Coordinator, onsite and offsite teams may be dispatched during events of a lower classification. It is recommended that offsite monitoring teams be dispatched under an Alert condition if radiological releases have occurred. (per EPIP 3.1, "Onsite Monitoring" and 3.2 "Offsite Monitoring").

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- 4.10 Following initial completion of tag board assignments, the OSC Supervisor shall determine the manpower requirements and expertise needed to support OSC activities and establish a rotating work schedule. The OSC Supervisor shall advise the Emergency Coordinator accordingly.
- 4.11 The OSC Supervisor shall maintain responsibility over personnel within the OSC and Contractor Change House.
- 4.12 Activities conducted in support of plant operations by personnel assigned to the OSC shall be coordinated through the OSC Supervisor.
- 4.13 The OSC will function as a coordination or staging area for other emergency response organization personnel performing general tasks involved with plant recovery.
- 4.14 Deactivation of the OSC shall occur at the direction of the Emergency Coordinator. The deactivation will be based on existing plant conditions and radiological monitoring status.

4.15 Reporting

The Radiation Protection Engineer in conjunction with the personnel assigned as OSC Supervisors shall, within 2 days of deactivation of the emergency organization, provide the Chief Engineer with a summary report of all significant activities which occurred at the Operational Support Center using information from the following sources:

- 4.14.1 Operational Support Center (OSC) Log (Attachment 2).
- 4.14.2 Reports from emergency response personnel.

NOTE

Radiological information received at the OSC from onsite emergency monitoring teams in the initial stages of the emergency will be included in TSC Reports.

5.0 REFERENCES

1. Duane Arno'd Energy Center Emergency Plan.

ACTIVIATION AND OPERATION OF THE OPERATIONAL
SUPPORT CENTER6.0 ATTACHMENTS

1. Operational Support Center (OSC)
2. Operational Support Center (OSC) Log
3. Tag Assignments Flow Chart
4. Emergency Assignment Board Tag Duties
5. Personal Statement Concerning Incident
6. OSC Supervisors Checklist
7. Security Shift Supervisors Checklist

Approved by:

BR York for
Chief Engineer

Reviewed by:

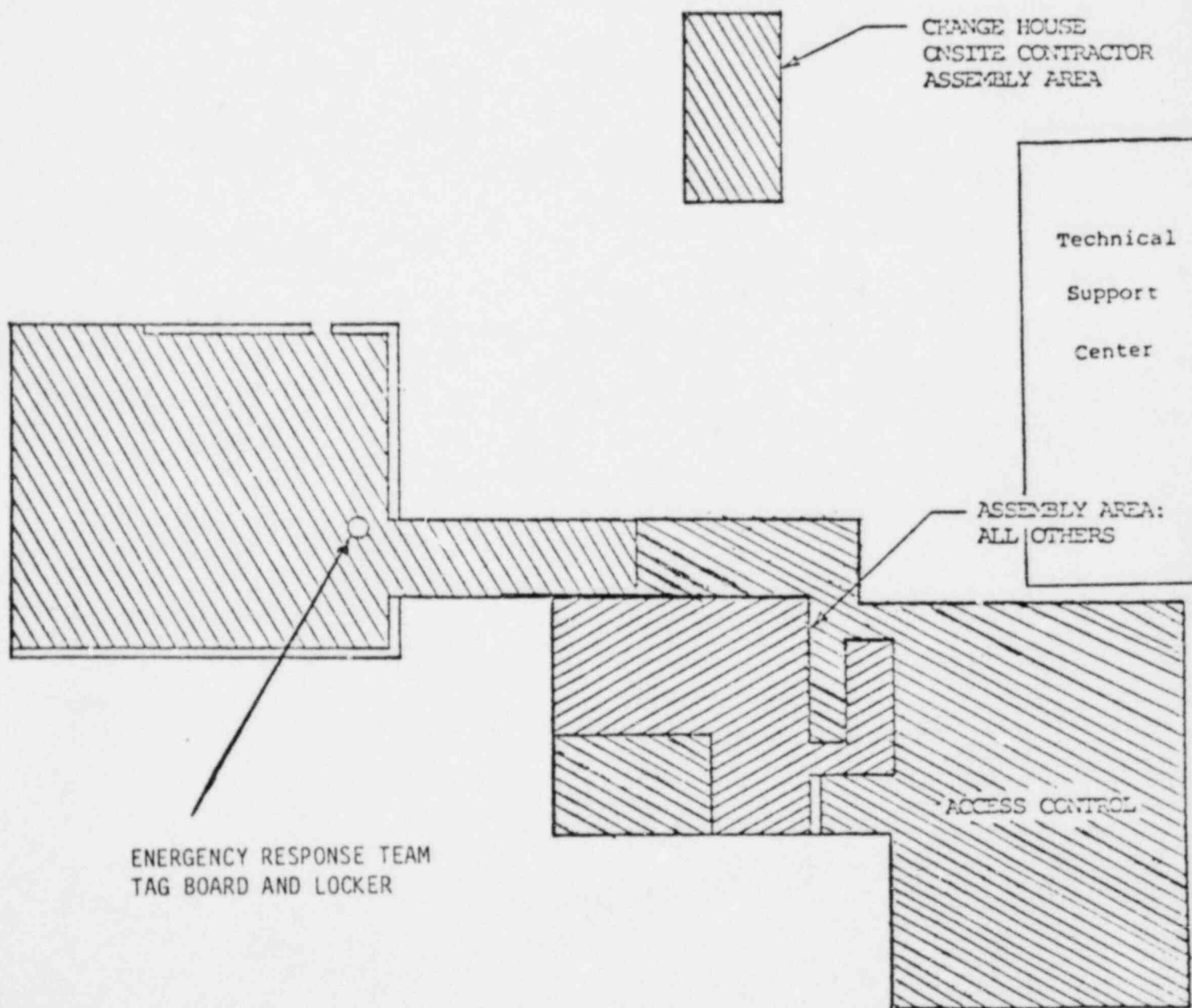
BR York 2/26/82
Chairman,
Operations Committee

Approved by:

Bobshye for
Radiation Protection Engineer

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ATTACHMENT 1
OPERATIONAL SUPPORT CENTER (OSC)



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ATTACHMENT 2

OPERATIONAL SUPPORT CENTER (OSC) LOG

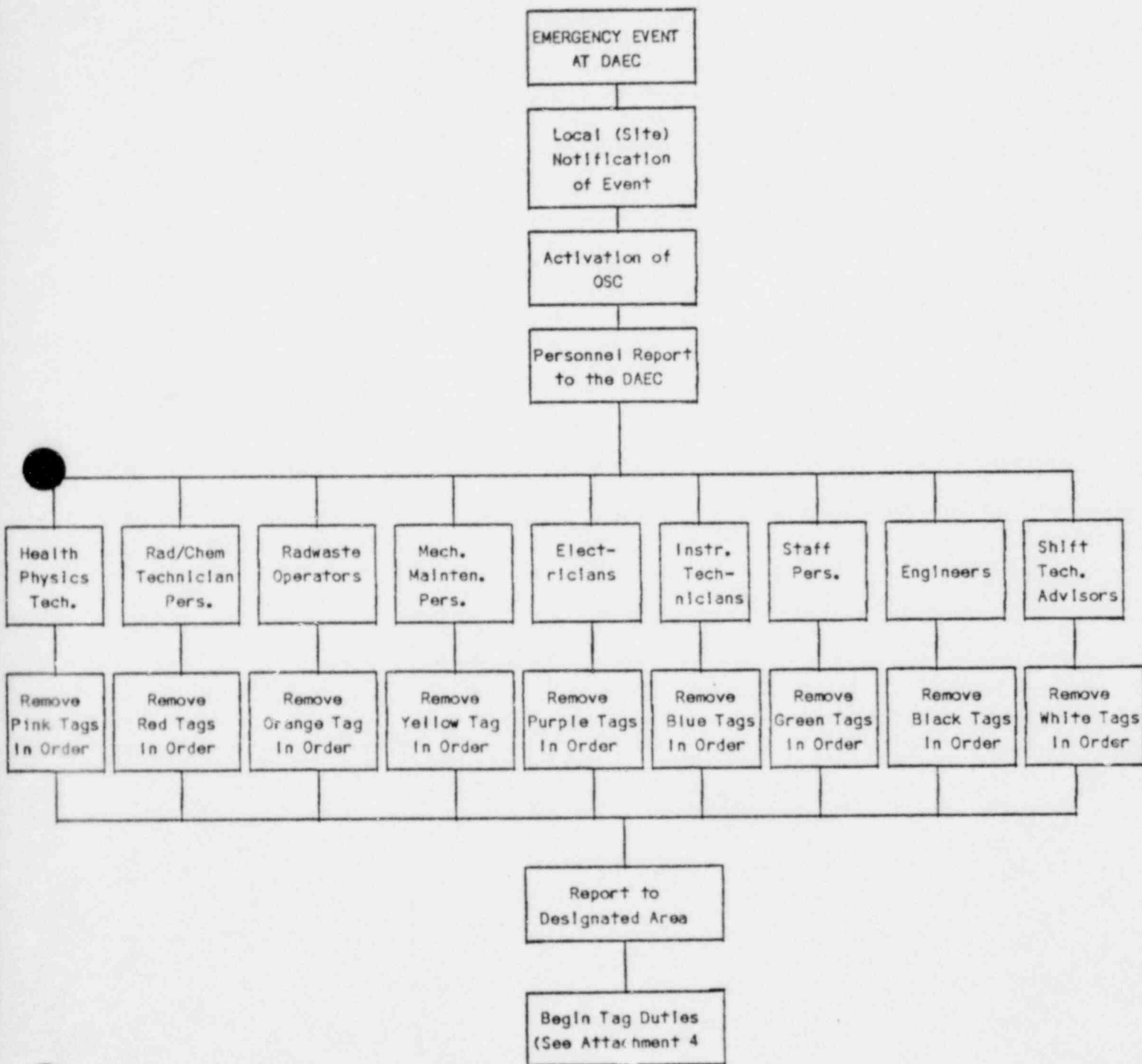
OSC LOG

<u>Time</u>	<u>Entry</u>	<u>Date</u>	<u>Recorded by (Initials)</u>	<u>Activity</u>

Activity Code:

A - Accountability
E - Evacuation
F - First Aid
H - Health Physics

M - Medical Support
O - Other
R - Rescue
T - Tag Board Implementation

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TAG ASSIGNMENT FLOW CHART

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ATTACHMENT 4

EMERGENCY ASSIGNMENT BOARD TAG DUTIES

PINK TAG

HEALTH PHYSICS TECHNICIANS

- TAG NO.: 1
- REPORTING AREA: Emergency Response Team Lockers
- ASSIGNMENT: In-plant Surveys
- INSTRUCTIONS:
- a. Obtain an Inplant Survey Team operations radio from the Security Control Point and perform radio check with CAS.
 - b. Go to locker #1, Shelf #1 and obtain and verify operability of the following equipment:
 1. Dosimeters - 5 R, 10 R
 2. RO-2A, High Range Dose Rate Instrument
 3. Hi-Vol Air Sampler
 4. 4" Air Sample Filters (1 box)
 5. Air Sample Record Forms
 6. Air Sample Plastic Bags and Labels
 7. Smears (1 box)
 8. Clipboard
 9. Note Pad
 10. Pencil
 11. Flashlight
 12. Wristwatch
 13. Full Protective Clothing
 14. Self Contained Breathing Apparatus
 - c. Dress in protective clothing.
 - d. Obtain a self-contained breathing apparatus and inform the OSC Supervisor that you are standing by at the emergency response team locker area and are ready to commence in-plant surveys.

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(Continued)

EMERGENCY ASSIGNMENT BOARD TAG DUTIES

PINK TAG

HEALTH PHYSICS TECHNICIANS

TAG NO.: 2

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: In-plant Surveys

- INSTRUCTIONS:
- a. Obtain an Inplant Survey operations radio from the Security Control Point and perform radio check with CAS.
 - b. Go to locker #1, Shelf #2 and obtain and verify operability of the following equipment:
 1. Dosimeter - 5, 10 R
 2. RO-2A, High Range Dose Rate Instrument
 3. Hi-Vol Air Sampler
 4. 4" Air Sample Filters (1 box)
 5. Air Sample Record Forms
 6. Air Sample Plastic Bags and Labels
 7. Smears (1 box)
 8. Clipboard
 9. Note Pad
 10. Pencil
 11. Flashlight
 12. Wristwatch
 13. Full protective Clothing
 14. Self Contained Breathing Apparatus
 - c. Dress in full protective clothing.
 - d. Obtain a self-contained breathing apparatus and inform the OSC Supervisor that you are standing by at the emergency team response locker area and are ready to commence in-plant surveys.

ACTIVIATION AND OPERATION OF THE OPERATIONAL
SUPPORT CENTERATTACHMENT 4

(Continued)

EMERGENCY ASSIGNMENT BOARD TAG DUTIES

PINK TAG

HEALTH PHYSICS TECHNICIANS

TAG NO.: 3

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Assembly Area Surveys, Habitability

INSTRUCTIONS: a. Go to locker #1, Shelf #3 and obtain and verify (i.e., battery check, etc.) operability of the following equipment:

1. Dosimeters - 5R. 10 R
2. E-140, Low Range Survey Instrument
3. Hi-Vol Air Sampler
4. 4" Air Sample Filters (1 Box)
5. Air Sample Record Forms
6. Air Sample Plastic Bags and Labels
7. Smears (1 box)
8. Clipboard
9. Note Pad
10. Pencil
11. Access Control Survey Forms
12. Change House Survey Forms
13. Flashlight
14. Wristwatch

b. Perform a radiation, smear, and airborne survey of the Operational Support Center. Notify the OSC Supervisor and then proceed to the Contractor Change House and perform the previously mentioned surveys.

c. Count air samples and smears as required (using the portable radio-iodine particulate analyzer system, or other suitable device, etc. as per RPP 13.7)

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EMERGENCY ASSIGNMENT BOARD TAG DUTIES

PINK TAG

HEALTH PHYSICS TECHNICIANS

TAG NO.: 3 (continued)

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Assembly Area Surveys, Habitability

INSTRUCTIONS:

- d. Record all results (sample time, count time, location and results).
- e. Report results to the OSC Supervisor as they are obtained (include sample time, location, and results).
- f. Stand by to count air samples and smears as required following steps c through e.
- g. Assist with Health Physics Access Control personnel monitoring (Pink Tag #4) as necessary.

ACTIVATION AND OPERATION OF THE OPERATIONAL
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EMERGENCY ASSIGNMENT BOARD TAG DUTIES

PINK TAG

HEALTH PHYSICS TECHNICIANS

TAG NO.: 4

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Personnel Monitoring

- INSTRUCTIONS:
- a. Go to Locker #1, Shelf #4 and obtain the following equipment:
 1. Dosimeters - 5 R, 10 R
 2. E-140, Low Range Survey Instrument
 3. Clipboard
 4. Note Pad
 5. Pencil
 6. "Personnel Statement Concerning Incident" Form
 7. "Personnel Contamination Survey" Forms
 8. Flashlight
 - b. Inform OSC supervisor that you are reporting to Access Control to relieve the Access Control foreman of his duties.
 - c. Pass out "Personnel Statement Concerning Incident" forms to personnel in the OSC, instruct evacuated personnel to fill out form and return them to you when completed.
 - d. Start surveying evacuated personnel. Determine if there are any injuries or high radiation exposure. (Personnel should record exposure on "Personnel Statement Concerning Incident" form).
 - e. Review "Personnel Statement Concerning Incident" forms.
 - f. Repeat b through d in the contractor change house.
 - g. Report personnel survey results and any pertinent information from the "Personnel Statement Concerning Incident" forms to the OSC Supervisor.

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EMERGENCY ASSIGNMENT BOARD TAG DUTIES

PINK TAG

HEALTH PHYSICS TECHNICIANS

TAG NO.: 5

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Rescue and Emergency Repair

- INSTRUCTIONS:
- a. Obtain the Rescue and Emergency Repair operations radio from the Security Control Point. Perform radio check with CAS.
 - b. Go to locker #1, Shelf #5 and obtain and verify operability of the following equipment:
 1. Dosimeters - 5 R, 10 R
 2. RO-2A, High Range Dose Rate Instrument
 3. Teletector
 4. Flashlight
 5. Full Protective Clothing
 6. Self Contained Breathing Apparatus
 - c. Dress in full protective clothing.
 - d. Obtain a self-contained breathing apparatus and inform the OSC Supervisor that you are standing by at the emergency response team locker area and are ready to commence in-plant surveys.

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EMERGENCY ASSIGNMENT BOARD TAG DUTIES

PINK TAG

HEALTH PHYSICS TECHNICIANS

TAG NO.: 6

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Emergency Monitoring Team (Onsite) - Team Leader

- INSTRUCTIONS:
- a. Go to Locker #2, Shelf #1 and obtain and verify operability of the following equipment:
 1. Dosimeters - 5 R, 10 R
 2. RO-2A, High Range Dose Rate Instrument
 3. Hi-Vol Air Sampler
 4. 4" Air Sampler Filters (1 box)
 5. Air Sample Record Forms
 6. Air Sample Plastic Bags and Labels
 7. Clipboard
 8. Note Pad
 9. Pencil
 10. Site Survey "SA-1" Forms
 11. Flashlight
 12. Wristwatch
 13. Full Protective Clothing
 14. Full Face Respirator
 - b. Dress in full protective clothing. Don mask as necessary.
 - c. When tag number 1 - Green has reported to you that he is ready, inform the OSC Supervisor that your Emergency Monitoring Team (Onsite) is prepared to be dispatched.
 - d. When dispatched, report monitoring team status every 5 minutes or more frequently as survey results are obtained.

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EMERGENCY ASSIGNMENT BOARD TAG DUTIES

PINK TAG

HEALTH PHYSICS TECHNICIANS

TAG NO.: 7

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Emergency Monitoring Team 1 (Offsite) - Team Leader

INSTRUCTIONS:

- a. Go to Locker #2, Shelf #2 and obtain and verify operability of the following equipment:
 1. Dosimeters - 200 mR, 5R
 2. RO-2A, High Range Dose Rate Instrument
 3. E-140, Low Range Survey Instrument
 4. Air Sample Record Forms
 5. Clipboard
 6. Note Pad
 7. Pencil
 8. Radiation Survey Forms
 9. Map
 10. Flashlight
 11. Wristwatch
 12. Full Protective Clothing
 13. Full Face Respirator
 14. Electrical Substation Keys
- b. Don mask and protective clothing as required in the field.
- c. When tag number 2 - Green has reported to you that he is ready, inform the OSC Supervisor that Emergency Monitoring Team 1 (Offsite) is prepared to be dispatched. Request information concerning wind direction and velocity from OSC Supervisor.

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EMERGENCY ASSIGNMENT BOARD TAG DUTIES

PINK TAG

HEALTH PHYSICS TECHNICIANS

TAG NO.: 8

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Emergency Monitoring Team 2 (Offsite) - Team Leader

INSTRUCTIONS: a. Go to Locker #2, Shelf #3 and obtain and verify operability of the following equipment:

1. Dosimeters - 200 mR, 5 R
2. RO-2A, High Range Dose Rate Instrument
3. E-140, Low Range Survey Instrument
4. Air Sample Record Forms
5. Clipboard
6. Note Pad
7. Pencil
8. Radiation Survey Forms
9. Map
10. Flashlight
11. Wristwatch
12. Full Protective Clothing
13. Full Face Respirator
14. Electrical Substation Keys

b. Don mask and protective clothing as required in the field.

c. When tag number 3 - Green has reported to you that he is ready, inform the OSC Supervisor that Emergency Monitoring Team 2 (Offsite) is prepared to be dispatched. Request information concerning wind direction and velocity from OSC Supervisor.

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EMERGENCY ASSIGNMENT BOARD TAG DUTIES

ORANGE

RADWASTE OPERATOR

TAG NO.: 1

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Operational Support Center Communicator and Data Recorder

INSTRUCTIONS:

- a. Go to Locker #1, Shelf #4 and obtain and verify operability of the following equipment:
 1. Dosimeters - 5 R, 10 R
 2. OSC Log
 3. Pencil
 4. Noble gas effluent monitor
(Located in Locker 5, Shelf 1)
- b. Proceed to the Security Control Point.
- c. Make initial entries in OSC Log and assist OSC Supervisor in making subsequent entries.
- d. Assist with communication as necessary.
- e. As required, activate the interim high range monitoring system located in the storage locker at the Security Control monitor point and record readings every 15 minutes. Inform the OSC supervisor of those readings if they are not within normal limits.
- f. Inform the OSC Supervisor of all pertinent information received.

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EMERGENCY ASSIGNMENT BOARD TAG DUTIES

RED TAG

RAD/CHEM TECHNICIAN

TAG NO.: 1

REPORTING AREA: TSC, Hot Lab Area

ASSIGNMENT: Sample Counting and Chemical Analysis

INSTRUCTIONS:

- a. Inform OSC Supervisor that you are proceeding to the Technical Support Center.
- b. At the TSC check the operability of the mobile radioiodine monitoring system.
- c. Inform the Site Radiation Protection Coordinator of the mobile radioiodine monitoring systems operability status.
- d. Proceed to Access Control and obtain a high range dose rate instrument and dosimeters: 5R, 10R.
- e. Proceed to the hot lab area.
- f. Inform OSC Supervisor that you are available to perform counting and analysis functions as needed.

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EMERGENCY ASSIGNMENT BOARD TAG DUTIES

RED TAG

RAD/CHEM TECHNICIAN

TAG NO.: 2

REPORTING AREA: Hot Lab Area

ASSIGNMENT: Sample Counting and Chemical Analysis

- INSTRUCTIONS:
- a. Inform OSC Supervisor that you are proceeding to the Hot Lab.
 - b. At Access Control obtain a high range dose rate instrument and dosimeters: 5R, 10R.
 - c. Proceed to hot lab area.
 - d. Inform OSC Supervisor that you are available to perform counting and analysis functions as needed.

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ATTACHMENT 4
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EMERGENCY ASSIGNMENT BOARD TAG DUTIES

GREEN TAG

STAFF PERSONNEL

TAG NO.: 1

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Emergency Monitoring Team (Onsite) - Team Member

INSTRUCTIONS:

- a. Go to the Security Control Point and obtain the Emergency Monitoring Teams Operations radio, perform radio check with CAS and arrange for transportation.
- b. Go to Locker #2, Shelf #4 and obtain and verify operability of the following equipment:
 1. Dosimeters - 5 R, 10 R
 2. Battery Powered Air Sampler (HI-Q)
 3. 50 mm Particulate Filters (1 box)
 4. Charcoal Cartridges (1 box)
 5. Flashlight
 6. Wristwatch
 7. Full Protective Clothing
 8. Full Face Respirator
 9. 12 Volt Battery (automotive type)
 10. 12 Volt Battery Charger

* The battery and chargers are located next to Locker #2.
- c. Dress in full protective clothing. Don mask as necessary.
- d. Inform tag number 6 - Pink that you are standing by with emergency equipment in readiness.

ACTIVIATION AND OPERATION OF THE OPERATIONAL
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(Continued)EMERGENCY ASSIGNMENT BOARD TAG DUTIES

GREEN TAG

STAFF PERSONNEL

TAG NO.: 2

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Emergency Monitoring Team 1 (Offsite) - Team Member

- INSTRUCTIONS:
- a. Go to the Security Control Point and obtain security/radiological survey radio with magnetic base antenna, perform radio check with CAS and arrange for transportation.
 - b. Go to Locker #2, Shelf #5 and obtain and verify operability of the following equipment:
 1. Dosimeters - 200 mR, 5 R
 2. Battery powered air sampler (Radeco)
 3. Gasoline Powered air sampler
 4. Gasoline Fuel mixture
 5. 47 mm Particulate Filters (1 box)
 6. Charcoal and AgZ cartridges
 7. 4" Air Sample Filters (1 box)
 8. Air Sample Plastic Bags and Labels
 9. Flashlight
 10. Wristwatch
 11. Full Protective Clothing
 12. Full Face Respirator
 - c. Don mask and protective clothing as required in the field.
 - d. Inform tag number 7 - Pink that you are standing by with emergency equipment in readiness.

ATTACHMENT 4

(Continued)

EMERGENCY ASSIGNMENT BOARD TAG DUTIES

GREEN TAG

STAFF PERSONNEL

TAG NO.: 3

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Emergency Monitoring Team 2 (Offsite) - Team Member

- INSTRUCTIONS:
- a. Go to the Security Control Point and obtain security/radiological survey radio perform radio check with CAS and arrange for transportation.
 - b. Go to Locker #3, Shelf #1 and obtain and verify operability of the following equipment:
 1. Dosimeters -200 mR, 5R
 2. Battery powered air sampler (Radeco)
 3. Gasoline powered air sampler
 4. Gasoline fuel mixture
 5. 47mm Particulate filters (1 box)
 6. Charcoal and AgZ cartridges
 7. 4" Air Sample Filters (1 box)
 8. Air Sample Plastic Bags and Labels
 9. Flashlight
 10. Wristwatch
 11. Full Protective Clothing
 12. Full Face Respirator
 - c. Don mask and protective clothing as required in the field.
 - d. Inform tag number 8 - Pink that you are standing by with emergency equipment in readiness.

ATTACHMENT 4

(Continued)

EMERGENCY ASSIGNMENT BOARD TAG DUTIES

BLUE TAG

INSTRUMENT TECHNICIANS

TAG NO.: 1

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Emergency Repair Work - Instrumentation

- INSTRUCTIONS:
- a. Go to Locker #3, Shelf #2 and obtain and verify operability of the following equipment:
 1. Dosimeters - 5 R, 10 R
 2. Instrumentation Tool Kit
 3. Simpson VOM (2 Each)
 4. Flashlight
 5. Full Protective Clothing
 6. Self Contained Breathing Apparatus
 - b. Dress in full protective clothing.
 - c. Obtain a self-contained breathing apparatus.
 - d. Inform the OSC Supervisor that an instrument technician is prepared to be dispatched.
 - f. Remain at Emergency Response Team lockers until otherwise directed by the OSC Supervisor.

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ATTACHMENT 4
(Continued)
EMERGENCY ASSIGNMENT BOARD TAG DUTIES

PURPLE TAG

ELECTRICIAN

TAG NO.: 1

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Emergency Repair Work - Electrical

INSTRUCTIONS:

- a. Go to Locker #3, Shelf #3 and obtain and verify operability of the following equipment:
 1. Dosimeters - 5 R, 10 R
 2. Electricians Tool Kit
 3. Simpson VOM
 4. Flashlight
 5. Full Protective Clothing
 6. Self Contained Breathing Apparatus
- b. Dress in full protective clothing.
- c. Obtain a self-contained breathing apparatus.
- d. Return to the Emergency Team lockers.
- e. Inform the OSC Supervisor that an electrician is prepared to be dispatched.
- f. Remain at Emergency Response Team lockers until otherwise directed by the OSC Supervisor.

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ATTACHMENT 4
(Continued)
EMERGENCY ASSIGNMENT BOARD TAG DUTIES

PURPLE TAG

ELECTRICIAN

TAG NO.: 2

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Emergency Repair Work - Electrical

INSTRUCTIONS:

- a. Go to Locker #3, Shelf #4 and obtain and verify operability of the following equipment:
 1. Dosimeters - 5 R, 10 R
 2. Electricians Tool Kit
 3. Simpson VOM
 4. Flashlight
 5. Full Protective Clothing
 6. Self Contained Breathing Apparatus
- b. Dress in full protective clothing.
- c. Obtain a self-contained breathing apparatus.
- d. Return to the Emergency Response Team lockers.
- e. Inform the OSC Supervisor that an electrician is prepared to be dispatched.
- f. Remain at Emergency Response Team lockers until otherwise directed by the OSC Supervisor.

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ATTACHMENT 4
(Continued)
EMERGENCY ASSIGNMENT BOARD TAG DUTIES

YELLOW TAG

MECHANIC

TAG NO.: 1

REPORTING AREA: Emergency Response Team Lockers

ASSIGNMENT: Emergency Repair Work - Mechanical

- INSTRUCTIONS:
- a. Go to Locker #3, Shelf #5 and obtain and verify operability of the following equipment:
 1. Dosimeters - 5 R, 10 R
 2. Mechanical Tool Kit
 3. Flashlight
 4. Full Protective Clothing
 5. Self Contained Breathing Apparatus
 - b. Dress in full protective clothing.
 - c. Obtain a self-contained breathing apparatus.
 - d. Return to the Emergency Team lockers.
 - e. Inform the OSC Supervisor that a mechanic is prepared to be dispatched.
 - f. Remain at Emergency Response Team lockers until otherwise directed by the OSC Supervisor.

ACTIVATION AND OPERATION OF THE OPERATIONAL
SUPPORT CENTERATTACHMENT 4(Continued)EMERGENCY ASSIGNMENT BOARD TAG DUTIES

BLACK TAG

TECHNICAL ENGINEERS

TAG NO.: 1

REPORTING AREA: Control Room

ASSIGNMENT: Control Room Communicator

INSTRUCTIONS:

- a. Report to the Control Room.
- b. Inform the Shift Supervising Engineer that you are prepared to assume duties as Control Room Communicator.

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ATTACHMENT 4
(Continued)
EMERGENCY ASSIGNMENT BOARD TAG DUTIES

BLACK TAG

TECHNICAL ENGINEERS

TAG NO.: 2

REPORTING AREA: Control Room

ASSIGNMENT: Radiological Data

INSTRUCTIONS:

- a. Report to the Control Room.
- b. Inform the Site Radiation Protection Coordinator that you are prepared to assume duties as the Radiological Data Communicator.

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ATTACHMENT 4
 (Continued)
EMERGENCY ASSIGNMENT BOARD TAG DUTIES

BLACK TAG

TECHNICAL ENGINEERS

TAG NO.: 3

REPORTING AREA: Technical Support Center

ASSIGNMENT: Technical Support Communicator

INSTRUCTIONS:

- a. Report to the Technical Support Center.
- b. Inform the Technical Support Center Supervisor that you are prepared to assume duties as a Technical Support Center Communicator.

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ATTACHMENT 4
(Continued)
EMERGENCY ASSIGNMENT BOARD TAG DUTIES

BLACK TAG

TECHNICAL ENGINEERS

TAG NO.: 4

REPORTING AREA: Technical Support Center

ASSIGNMENT: Technical Support Communicator

INSTRUCTIONS: a. Report to the Technical Support Center.

b. Inform the Technical Support Center Supervisor that you are prepared to assume duties as a Technical Support Center Communicator.

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ATTACHMENT 4
(Continued)
EMERGENCY ASSIGNMENT BOARD TAG DUTIES

BLACK TAG

TECHNICAL ENGINEERS

TAG NO.: 5

REPORTING AREA: Technical Support Center

ASSIGNMENT: Technical Support Radio Operator

INSTRUCTIONS:

- a. Report to the Technical Support Center.
- b. Inform the Technical Support Center Supervisor that you are prepared to assume duties as a Technical Support Center Radio Operator.

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ATTACHMENT 4
(Continued)
EMERGENCY ASSIGNMENT BOARD TAG DUTIES

BLACK TAG

TECHNICAL ENGINEERS

TAG NO.: 6

REPORTING AREA: Technical Support Center

ASSIGNMENT: Technical Support Communicator

INSTRUCTIONS: a. Report to the Technical Support Center.

b. Inform the Technical Support Center Supervisor that you are prepared to assume duties as a Technical Support Center Communicator.

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ATTACHMENT 4
(Continued)
EMERGENCY ASSIGNMENT BOARD TAG DUTIES

BLACK TAG

TECHNICAL ENGINEERS

TAG NO.: 7

REPORTING AREA: Technical Support Center

ASSIGNMENT: Technical Support Communicator

INSTRUCTIONS:

- a. Report to the Technical Support Center.
- b. Inform the Technical Support Center Supervisor that you are prepared to assume duties as a Technical Support Center Communicator.

ACTIVATION AND OPERATION OF THE OPERATIONAL
SUPPORT CENTERATTACHMENT 4(Continued)EMERGENCY ASSIGNMENT BOARD TAG DUTIES

BLACK TAG

TECHNICAL ENGINEERS

TAG NO.: 8

REPORTING AREA: Technical Support Center

ASSIGNMENT: Technical Support Communicator.

- INSTRUCTIONS:
- a. Report to the Technical Support Center.
 - b. Inform the Technical Support Center Supervisor that you are prepared to assume duties as a Technical Support Center Communicator.

ACTIVIATION AND OPERATION OF THE OPERATIONAL
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WHITE TAG

SHIFT TECHNICAL ADVISOR

TAG NO.: 1

REPORTING AREA: Technical Support Center

ASSIGNMENT: Technical Advisor

INSTRUCTIONS:

- a. Report to the Technical Support Center.
- b. Inform the Emergency Coordinator that you are prepared to assume duties as a Technical advisor.

ACTIVATION AND OPERATION OF THE OPERATIONAL
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(Continued)

EMERGENCY ASSIGNMENT BOARD TAG DUTIES

WHITE TAG

SHIFT TECHNICAL ADVISOR

TAG NO.: 2

REPORTING AREA: Technical Support Center

ASSIGNMENT: Technical Advisor

- INSTRUCTIONS:
- a. Report to the Technical Support Center.
 - b. Inform the Emergency Coordinator that you are prepared to assume duties as a Technical advisor.

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ATTACHMENT 5

PERSONAL STATEMENT CONCERNING INCIDENT

Name _____ Badge Number _____

Date of Incident _____ Time _____

Supervisor _____ Department _____

What is your affiliation? _____

Where were you when notified of the incident? Building _____ Room _____

Please draw a map on the reverse side of this page and locate yourself on it with an (X).

How did you recognize or how were you informed of the incident? _____

_____ Did you run or walk? _____ Show route of exit on map.

What action did you take at the time of the incident if you did not leave immediately? _____

At the time of the incident were you wearing a TLD badge? Yes ___ No ___

Dosimeter? Yes ___ No ___ Time _____

What location on your body were they worn? (i.e., left shirt pocket, right side of belt, etc.) _____

Did you see, hear, feel, or smell anything unusual? Yes ___ No ___

If yes, please describe _____

List workers who were in your area at the time of the incident _____

Other Comments Pertaining to the Incident: _____

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ATTACHMENT 6

OSC SUPERVISOR'S CHECKLIST

TIME _____

- _____ (a) Inquire of the TSC/Control Room of the plants radiological condition.
- _____ (b) Ensure habitability of the OSC and the Changehouse.
- _____ (c) Activate High Range Noble Gas monitors.
- _____ (d) Offer Assistance to the Site Radiation Protection Coordinator with determination of Control Room and TSC habitability status.
(EPIP 3.1, 4.3.1)
- _____ (e) Establish communications with the Control Room and the TSC (EPIP 2.1, 4.5.1)
- _____ (f) Obtain down wind direction and velocity from TSC for off-site team dispatch.
- _____ (g) Initiate OSC Supervisor's Log (EPIP 2.1, 4.5.2)
- _____ (h) Supervise Emergency Assignment Board Tag Duties (EPIP 2.1, 4.5.3)
- _____ (i) Assure that personnel are monitored or screened for possible injury, high radiation exposures, radioactive contamination levels, and personnel decontaminated as necessary.
- _____ (j) Assist Security with accountability (EPIP 4.1, 4.3)
- _____ (k) Ensure Survey, monitoring, and rescue/repair teams are prepared for entry.
- _____ (l) Assure that teams are adequately briefed on radiation levels, access routes, proper mode of communication and assignments.
- _____ (m) Maintain complete radiological data for all survey teams EPIP 3.1, 4.5
- _____ (n) Maintain responsibility over personnel assigned to the OSC and the Contractor Change House.
- _____ (o) Notify Security Shift Supervisor for first aid personnel.
- _____ (p) Select evacuation routes as needed and assembly areas.

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ATTACHMENT 6 (continued)

OSC SUPERVISOR'S CHECKLIST

TIME _____

- _____ (q) Determine if call-out notification list is to be activated.
- _____ (r) The OSC supervisor shall, with the Site Radiation Protection Coordinator provide (within 2 days of deactivation of the emergency) a summary report.

NAME_____
DATE

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ATTACHMENT 7

SECURITY SHIFT SUPERVISORS CHECKLIST

TIME

- _____ 1. Unlock TSC HVAC room, activate HVAC system. (EPIP 2.2, para. 4.1.2)
- _____ 2. Open all necessary areas of TSC. (EPIP 2.2, para. 4.1.2)
- _____ 3. Unlock emergency response team lockers. (EPIP 2.1, para. 4.6)
- _____ 4. Prepare to control access to TSC. (EPIP 2.2, para. 4.1.1.f)(EPIP 4.1, para. 3.2)
- _____ 5. Prepare to issue emergency radios and keys to emergency vehicles.
- _____ 6. Start accountability at change house, locker room, tag board, Control Room, TSC and in the SCP. (EPIP 4.1, para. 4.3)
- _____ 7. Call off duty security force members to assist. (Att. 2)
- _____ 8. Obtain message content for notification.(Att. 4 EPIP 1.2, para. 15 of 17)
- _____ 9. Assign 2 communicators to activate emergency response organization. (Att. 1, EPIP 1.2, para. 4.2.2)
- _____ 10. Tour the property and escort all individuals to SCP for survey. (EPIP 4.1, para. 4.4.1)
- _____ 11. Establish road block west gate when advised by OSC and prepare to open north road. (EPIP 4.1) (EPIP 1.2, para. 4.6)
- _____ 12. Report accountability results to the Security and Support Supervisor in the TSC.
- _____ 13. Report notification results to SSE or Emergency Coordinator. (EPIP 1.2, para. 3.1 and 3.3)
- _____ 14. Designate one person to report to the First Aid Room. (EPIP 4.2) and (EPIP 2.1 para. 4.7)

NOTE: Personnel assigned accountability and communicator responsibilities need not be security personnel.

Security Shift Supervisor

Date

ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER

1.0 PURPOSE

This procedure provides instructions for activation and operation of the Technical Support Center (TSC) to provide emergency coordination and technical support during an emergency condition.

2.0 APPLICABILITY

2.1 This procedure shall be implemented upon declaration of an emergency classified as an Alert, Site Emergency, or General Emergency. It is applicable to all site management and technical personnel assigned to the TSC and/or responsible for the emergency functions of the TSC.

2.2 During an event classified as an Unusual Event, the Emergency Coordinator, at his discretion, may activate the TSC.

3.0 RESPONSIBILITIES3.1 Emergency Coordinator

3.1.1 Coordinate accident assessment and analyses efforts with the Radiological and EOF Manager to determine the potential or actual radiological impact of the emergency condition upon the public.

3.1.2 Coordinate efforts with the Emergency Support Manager, as necessary, to return the plant to a stable, safe condition.

3.1.3 Ensure performance of required actions by the Site Emergency Response Organization. See EPIP 2.3 "Emergency Coordinator Duties".

3.2 Technical Support Center Supervisor

3.2.1 Ensure that actions required to physically place the TSC into operation are accomplished.

3.2.2 Provide management and over all direction to the TSC staff during emergency response and recovery efforts. See TSC Supervisors Checklist Attachment 7.

3.3 Site Radiation Protection Coordinator

3.3.1 Perform initial dose assessment evaluations.

- 3.3.2 Coordinate and direct radiation protection activities at the site. See attached checklist (Attachment 8, "Site Radiation Protection Coordinator's Checklist").
- 3.3.3 Determine priorities for the collection of radiological data and samples used to compute downwind dose projections and perform trend analysis based upon changing plant radiological and meteorological conditions.

3.4 Technical and Engineering Supervisor

- 3.4.1 Provide supervision and technical direction to the TSC technical staff associated with analytical and engineering efforts.
- 3.4.2 Coordinate and provide direction, as required, for all repair/corrective action efforts which are undertaken to aid in achieving stable plant conditions and terminating any uncontrolled radioactive releases.
- 3.4.3 Identify the need for and coordinate engineering and analysis assistance provided by the Engineering and Technical Support Supervisor in the EOF.

3.5 Security and Support Supervisor

- 3.5.1 Ensure that overall plant security is not degraded and that personnel accountability is established and maintained.
- 3.5.2 Ensure that administrative and logistical support needs are provided to the DAEC emergency response organization.
- 3.5.3 Define and coordinate, as required, additional administrative, logistic and procurement needs with the Support Services Coordinator in the EOF.

3.6 Control Room Coordinator

- 3.6.1 Provide assistance and direction as required, to the Shift Supervising Engineer to establish stable plant conditions and terminate uncontrolled radiological releases.
- 3.6.2 Coordinate, as required, with the TSC Supervisor for analytical, engineering, and maintenance assistance.

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3.6.3 Ensure that the TSC is kept fully informal regarding plant status and operational events in progress.

3.6.4 Ensure that plant parameters indicative of the emergency condition and important from the stand point of determining the condition of the core are recorded and trended.

4.0 Instructions

4.1 Activative of the TSC shall be performed as follows:

4.1.1 A security guard will be dispatched by the Security Shift Supervisor to:

- a. Unlock the TSC Communications Room, the TSC emergency locker and the ventilation room.
- b. Activate the emergency ventilation system.

NOTE

Upon termination of the emergency or when directed by the TSC Supervisor, secure the ventilation system and relock all areas and cabinets.

4.1.2 The TSC Supervision shall ensure that the following are successfully completed:

- a) Check the radiation monitors provided at the ventilation system intake and in the TSC. If monitors are trending upscale or alarming, initiate radiation and airborne sampling activities to determine habitability of the TSC.
- b) Energize and verify operability of the continuous air monitor.
- c) Assure the initiation of the emergency ventilation system by Security.
- d) Establish and verify operability of the communications links as follows (see Attachment 3):
 - 1) Intercom to the SCP, Access Control and Control Room
 - 2) Red Telephone with the NRC (Hot Line) between the NRC Personnel in Region III and/or Bethesda, Md.

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- 3) Security/Rad Survey Radio to the Central Alarm Station.
- 4) Plant Operating Radio to the Central Alarm Station.
- 5) Telephones (dedicated lines as established).
- e) Energize and verify operation of the Control Room TV monitors.
- f) Update the Parameter Status board to insure that all TSC personnel are apprised of critical plant parameters, major problems, and operational activities in progress.
- g) Initiate the TSC operations log.
- h) Verify that access control in and out of the TSC has been initiated by the Security Shift Supervisor. Use Attachment 1 as a guide to control access. The Emergency Coordinator or the TSC Supervisor can authorize additional personnel as required.
- i) Verify that notification of personnel has been initiated per EPIP 1.2, "Notification of Emergency Response Personnel and Offsite Support Agencies".
- j) Verify TSC manning status using Attachments 1 & 2 as guidance. The DAEC Emergency Response Organization is shown on Attachment 2.
- k) Verify TSC set-up and layout as identified on Attachment 4.

4.2 Operation of the TSC

4.2.1 The TSC, under the overall supervision of the TSC Supervisor, shall perform the following key functions:

- a) Provide assistance to SSE in determining the optimum method(s) available for terminating the transient and radiological releases that may be in progress.
- b) Coordinate, as necessary, engineering, temporary modification, and emergency repair work that will assist in mitigating the consequences of the event.

ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER

- c) Evaluate changes in system and radiological parameters that have occurred or which are projected to occur and recommend re-classification of the event, as warranted, to the Emergency Coordinator.
- d) Communicate with local, state, federal and corporate organizations as required to facilitate application of the combined resources of such support groups and to permit decisions regarding protection of the public based upon current information.

NOTE:

If the EOF is not manned, provide plant status and radiological information as requested to the Linn and Benton County Emergency Operations Centers and the State of Iowa Office of Disaster Services.

4.2.2 To facilitate the performance of the above tasks the Control Room Coordinator will insure that updated plant status information is transmitted to the Technical Support Center:

- a) Plant and Radiological parameters to be displayed are indicated in Attachments 5 and 6. Radiological data may be transmitted directly to the Site Radiation Protecting Coordinator via the dedicated line located on the back panel.
- b) Plant parameters will normally be transmitted using the VAX computer to facilitate simultaneous updating of the Emergency Operations Facility.
- c) During the initial stages of the event status information shall be updated at 15 minute intervals except as modified in step d).
- d) The Control Room Coordinator in conjunction with the TSC Supervisor will modify the frequency of information transmittal as appropriate and may elect to add or delete specific parameter based upon the event and plant condition.
 - 1) If parameters are added, such information will be transmitted verbally until re-programing of the VAX can be accomplished.

2) VAX re-program, if desired, will be completed as directed by the Control Room Coordinator.

e) Status information displayed should be recored before being charged to serve as a historical record.

4.2.3 Trending of important plant parameters will be accomplished as directed by the Control Room Coordinator in conjunction with the TSC Supervisor:

a) Parametes to be trended include, but are not limited to:

1) Nuclear Instrumentation

2) Reactor Vessel Water Level and Pressure

3) Contaiment Pressure and Temperature

4) Suppresion Pool Water Level and Temperature

5) Effluent Release Rates

b) Recorders installed in the Control Room should be used to the maximum extent possible. To enable more accurate trending the recorder may be placed on high speed.

c) Additional plant parameters will be trended, as appropriate, based upon the event and plant condition as identified by the Control Room Coordinator or TSC Supervisor.

1) Trending of parameters will be accomplished manually at or by use of selected computer data points and trend recorders.

2) To facilitate such trending, the Control Room Coordinator may elect to develop a log sheet format for recording reading which are taken or simply maintain VAX print out sheets.

d) Status and trend information thus developed will:

1. Permit determinations to be made as to whether or not plant conditions are degrading.

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2. Provide input into Attachment 2 of EPIP 5.1, "Deactivation of the Emergency Response Organization"; hence serve as criteria to de-escalate the emergency classification.

4.2.4 Based upon the postulated (or known) initiating events and current plant status information, the TSC Engineering Staff, under the direct supervision of the Technical and Engineering Supervisor will perform the following functions:

- a) Evaluate available options which will aid in terminating the transient and enable the plant to be returned to a safe, stable configuration.
 - 1) As-built drawings, specifications and other engineering data shall be used to insure that technical evaluations are conducted with the latest information and that operational evolutions are properly planned.
 - 2) Where several alternative courses of action exist, decisions as to which course to follow will be as directed by the Emergency Coordinator.
- b) Where alternative courses of action taken to mitigate the consequences of the event are accomplished by placing systems in abnormal configurations, the effects such off-normal modes might have on future operational evolutions shall be evaluated.
 - 1) As appropriate emergency operating instructions for off-normal operating modes shall be developed.

NOTE

The Control Room Coordinator shall insure that operating personnel are briefed upon relief or shift turnover.

- c) Identify expected changes in plant status and potential radiological consequences to the public based upon operational activities in progress or which may be planned.
 - 1) Should conditions become worse, recommend escalation of the emergency classification, if appropriate.

- 2) Should unexpected conditions occur, initiate action to stop the escalation and reevaluate alternative corrective action steps.
- d) Assist the SSE with the identification of temporary modification or emergency repair work which, if accomplished, will assist in mitigating the consequences of the accident or terminating the release.
 - 1) Coordinate with the OSC Supervisor as prescribed in EPIP 4.3 "Rescue and Emergency Repair Work" to accomplish damage control and emergency repair work.
 - 2) Coordinate with the Emergency Support Manager for assistance which may be required by IELP Engineering Personnel to accomplish temporary modification activities.
- e) Perform neutron and/or thermal hydraulic analysis, as appropriate, use the computer facilities available to assist with determining the status of the core, ECCS System operating capabilities, etc.
- f) If radiological releases are in progress, provide assistance as required to the SSE in determining the source and evaluate the means available to terminate these releases.

4.2.5 The Site Radiation Protection Coordinator (SRPC) is responsible for the radiological safety of DAEC Personnel on site throughout the duration of the emergency. In addition he is responsible for the projections of radiological dose estimates off site until relieved by the EOF. The SRPC shall immediately proceed to the TSC and perform the following tasks:

- a) Determine initial airborne dose projections in accordance with EPIP 3.3, "Dose Projections."
- b) Inform the Emergency Coordinator of the results of the dose projections, and recommend appropriate response actions.
- c) Following completion of these tasks, proceed to the OSC as necessary, brief the OSC Supervisor and monitoring team personnel concerning plant conditions, dose projections, wind direction and velocity, release paths, and required monitoring.

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- d) Recompute dose projections if there is any significant changes in the radiological or meteorological parameters.
- e) Perform trend analysis to anticipate changes in offsite exposures affecting the Protective Action Guide Levels. Data to be collected and utilized shall include but not be limited to:
 - 1) Offgas stack monitor data from the Control Room panel 1C-02 readout and from the Access Control emergency cabinet #5. (cabinet #5 is adjacent to the security turnstiles)
 - 2) Meteorological data (available from back panel).
 - 3) Off gas stack gas and a particulate samples.
 - 4) Off site portable radiation instrument readings and air sample data.
 - 5) Plant ARM data.
 - 6) Population exposure times.
 - 7) Off site dose estimates, utilizing the above data input, may be projected forward in time to assure the PAGs are not exceeded, ie: degrading plant conditions may infer that off site releases could increase significantly hence justifying a decision to take protective action off site prior to supporting off gas stack radiological data.

4.2.6 The Security and Support Supervisor shall ensure the performance of the following functions:

- a) Assure that accountability checks are initiated and are progressing in an expeditious manner.
- b) Assure that the fire and evacuation alarms and related announcements made over the paging system are clear, concise and meaningful.
- c) Determine existing and projected administrative support needs and provide direction to the Administrative Supervisor.

- d) As directed by the TSC Supervisor define the requirements and provide direction to the Administrative Supervisor to provide long range personnel, material, facilities, food and other logistical support for the on site emergency response team.
- e) Assist the TSC Supervisor in the performance of his duties.

4.2.7 The Administrative Supervisor shall ensure the performance of the following functions:

- a) Provide telephone switchboard operator, copy machine and telefax operators as required.
- b) Assign typing and clerical assistance.
- c) Coordinate warehouse support services, procurement and expediting of materials.
- d) Provide life support services, ie; food, clothing, sleeping arrangements, etc.

4.2.8 Technical Engineers, Shift Technical Advisors, Reactor Engineers and GE Engineers shall provide technical support for plant stabilization, repair and corrective action operations.

5.0 REFERENCES

- 5.1 Iowa Electric Light and Power Company Corporate Emergency Response Plan
- 5.2 Duane Arnold Energy Center Emergency Plan

ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER

6.0 ATTACHMENTS

1. Manning Status Checklist
2. DAEC Emergency Response Organization
3. Communications with TSC
4. TSC layout
5. Plant Status Information
6. Radiological Status Information
7. TSC Supervisor's Checklist
8. Site Radiation Protection Coordinator's Checklist

APPROVED BY:

Chief Engineer

DATE

REVIEWED BY:

Operations Committee Chairman

DATE

APPROVED BY:

Assistant Chief Engineer Operations

DATE

ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER

ATTACHMENT 1TSC MANNING STATUS

Emergency Coordinator

(P) Dan Mineck
(1) Bob York
(2) John Vinqvist
(3) Dave Wilson
(4) Rick Hannen

TSC Supervisor

(P) Bob York
(1) Dave Wilson
(2) John Vinqvist
(3) Rick Hannen
(4) Gary VanMiddlesworth

Site Radiation Protection
Coordinator

(P) Keith Young
(1) Bob Dye
(2) Ed Parsons
(3) Rad Waste
Supervisor

Technical & Engineering
Supervisor

(P) John Vinqvist
(1) Dave Wilson
(2) Rick Hannen
(3) Gary VanMiddlesworth

Security and Support
Supervisor

(P) Dave Wilson
(1) Jim Sparano
(2) Jerry Davis
(3) Mike Sparks

Electrical Maintenance
Supervisor

(P) Jerry Sweiger
(1) Larry Voss

Mechanical Maintenance
Supervisor

(P) Dick Rockhill
(1) George Fulford

Administrative Supervisor

(P) Jerry Davis

ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER

ATTACHMENT 1TSC MANNING STATUS
(Continued)

NRC Representative

(P) Larry Clardy
(1) Chrissosmotos
(Quad Cities)

IELP Nuclear Generating
Engineering Personnel(P) Bill Ellis (Mechanical)
(P) Clare Bleau (Electrical)

Communicators

(P) Ken Peveler
(P) Mike Chandler
(P) Linus Drouhard
(P) Jeff Nelson
(P) Taj Mohammed
(1) Gene Havlic
(2) Syam Ray

Rad Chemistry Technician

ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER

ATTACHMENT 2DAEC EMERGENCY RESPONSE ORGANIZATION AND ALTERNATES

Emergency Coordinator	(P) Chief Engineer (1) Assistant Chief Engineer - Operations (2) Assistant Chief Engineer - Technical Support (3) Assistant Chief Engineer - Radiation Protection and Security (4) Maintenance Engineer
TSC Supervisor	(P) Assistant Chief Engineer - Operations (1) Assistant Chief Engineer - Radiation Protection and Security (2) Assistant Chief Engineer - Technical Support (3) Maintenance Engineer (4) Reactor and Plant Performance Engineer
Security and Support Supervisor	(P) Assistant Chief Engineer - Radiation Protection and Security (1) Security Guard Captain (2) Support Services Supervisor (3) Assistant Security Supervisor
Technical and Engineering Supervisor	(P) Assistant Chief Engineer - Technical Support (1) Assistant Chief Engineer - Radiation Protection and Security (2) Maintenance Engineer (3) Reactor and Plant Performance Engineer
Maintenance Engineer	(P) Maintenance Engineer
Site Radiation Protection Coordinator	(P) Radiation Protection Engineer (1) Assistant Radiation Protection Engineer (2) Health Physics Supervisor (3) Radwaste Supervisor
Reactor & Plant Performance Engineer	(P) Reactor and Plant Performance Engineer (1) Station Services Engineer (2) Results Engineer (3) Results Engineer
Technical Engineer	(P) Technical Engineer (1) Technical Engineer (2) Technical Engineer
Shift Technical Advisor	(P) Technical Group Leader (1) Shift Technical Advisor (2) Shift Technical Advisor (3) Shift Technical Advisor

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ATTACHMENT 2

DAEC EMERGENCY RESPONSE ORGANIZATION AND ALTERNATES

(Continued)

Nuclear Station Services Engineer or Results Engineer	(P) Nuclear Station Services Engineer (1) Results Engineer
Electrical Maintenance Supervisor	(P) Electrical Maintenance Supervisor (1) Assistant Electrical Maintenance Supervisor
Mechanical Maintenance Supervisor	(P) Mechanical Maintenance Supervisor (1) Assistant Mechanical Maintenance Supervisor
NRC Representative	(P) Onsite NRC Representative (1) NRC Representative Quad Cities
IELP Nuclear Generating Engineering Personnel	(P) Technical Group Leader-Mechanical (1) Technical Group Leader-Electrical
Communicators	(P) Engineer - (Mechanical) (P) Technical Group Leader (P) Engineer - (Nuclear) (P) Engineer - (Mechanical) (P) Engineer - (Electrical) (1) Engineer - (Mechanical) (2) Engineer - (Electrical)
OSC Supervisor	(P) Health Physics Supervisor (1) Radwaste Supervisor (2) Assistant Radiation Protection Coordinator
Control Room Coordinator	(P) Operations Supervisor (1) Assistant Operations Supervisor
Control Room Supervisor	(P) Shift Supervising Engineer
Security	(P) Security Shift Supervisor (P) Security Force Communicator (P) Security Force Communicator

Note:

Operational Support will be provided by either the Operations Supervisor or Assistant Operations Supervisor from either the TSC or in the control Room.

(P) = Principal

(1), (2),.....Alternate in descending order

ATTACHMENT 3COMMUNICATIONS WITH TSC

<u>Communication System</u>	<u>TSC Links</u>
Dial Phones	Security Control Point, Control Room, Access Control, Emergency Operations Facility
Intercom	Operational Support Center, Control Room, Access Control
Red Phone (NRC Hot Line)	NRC, Bethesda, Maryland; Control Room, Emergency Operations Facility, NRC Resident
NRC Health Physics Network	Control Room, Access Control, NRC Resident, Security Control Point
Security/Rad Survey Radio	Secondary Alarm Station, Central Alarm Station, Radiological Monitoring Teams, Emergency Operations Facility, Security Control Point
Plant OPS Radio	Control Room, Central Alarm Station, Emergency Operations Facility, In-Plant Survey, and Rescue and Repair Teams
Weather Service (leased line telephone)	IWAS, State Emergency Operations Center, Linn, Benton County Emergency Operations Center
Dedicated Phone	Emergency Operations Facility, Control Room, Access Control, Security Control Point
Facsimile Equipment	Emergency Operations Facility, NRC, etc.

ACTIVATION AND OPERATION OF THE TECHNICAL SUPPORT CENTER

ATTACHMENT 4

TSC LAYOUT
(See Attached Sheet)

Key Personnel

- Emergency Coordinator
- ISC Supervisor
- Technical Engineering Supervisor
- Site Radiation Protection Coordinator
- Security & Support Supervisor
- Communicator
- Log Book Recorder
- MR Representative
- Administrative Support Supervisor

Other Telephones

- (1) Ext. 234 & 441, Dial Com
- (2) Ext. 273
- (3) Ext. 276 & 274
- (4) Ext. 276
- (5) Ext. 243
- (6) Ext. 243
- (7) Ext. 243, 214, 226 & 263

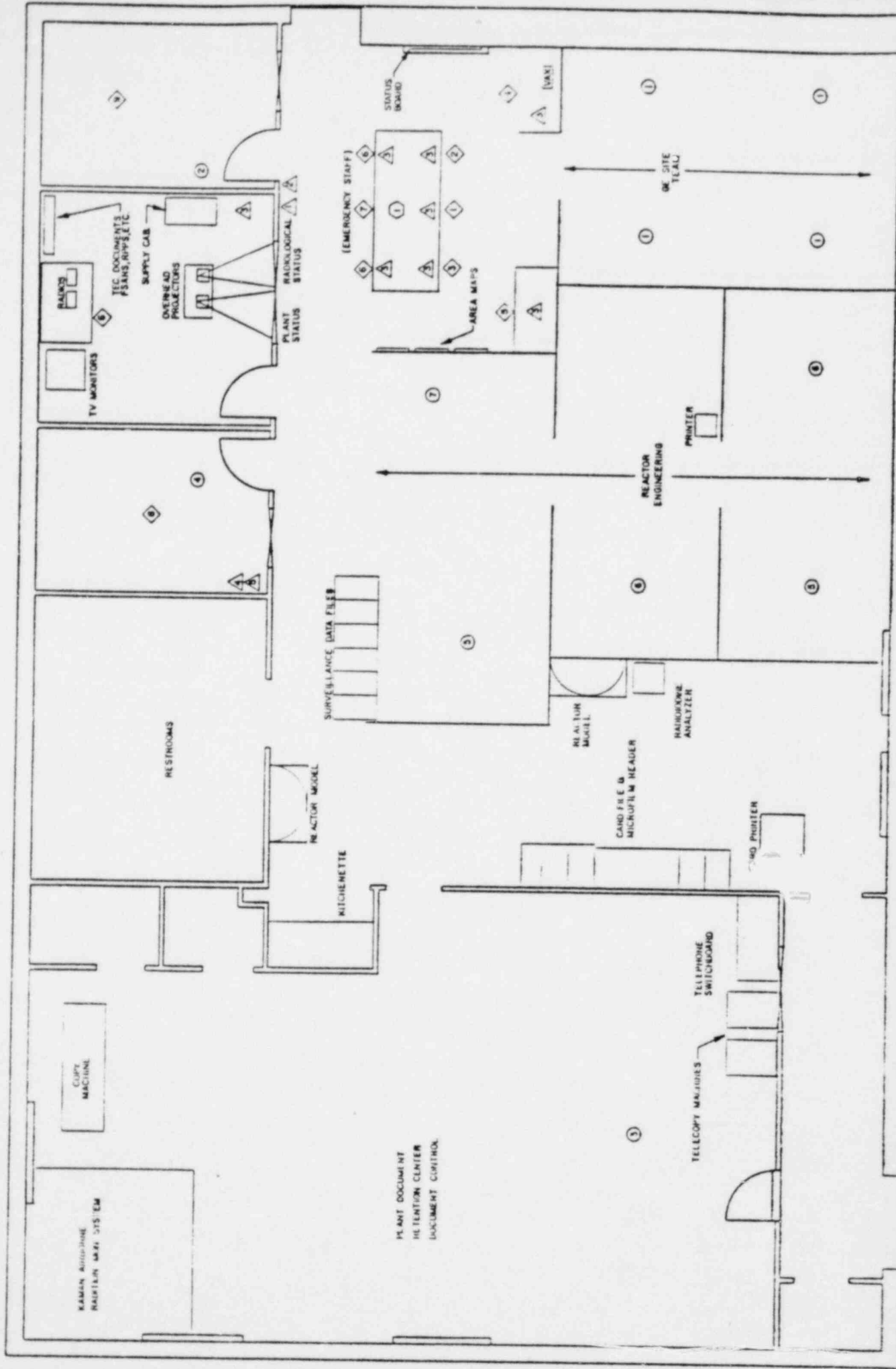
Emergency Communications

- Dedicated Outside Telephone
- Local Telephone
- 16 Station (headset equipped) Telephones
- MR - LRS Telephone
- MR - 100% Telephone
- Intercom to Access Control, Security Control
- Point and Control Room

Note: 16 Station Telephones Have:

- 1 Control Room
- 2 Access Control
- 3 Extension 272
- 4 EOF
- 5 Back Panel
- 6 Security Control Point
- 7 Radio, Security-R.P. (Planned)
- 8 Radio, Operations (Planned)

TECHNICAL SUPPORT CENTER JAN 15, 1982



ATTACHMENT 5PLANT STATUS INFORMATION

EMERGENCY CLASSIFICATION:

EVENT CODE: EVENT CODE DECLARATION TIME:

REPORT TIME:

REPORT DATE:

REACTIVITY CONTROL

All Rods In (Y/N):

SBLC System (Operable/Actuated):

SRM's Operable (Y/N):

REACTOR VESSEL WATER LEVEL

Normal range (Y/N):

Increasing, Decreasing, or Stable(I/D/S):

Indicated Level In Inches:

ECCS STATUS

HPCI Operable, Inservice, or Bad (O/I/B):

RCIC Operable, Inservice, or Bad (O/I/B):

ADS Operable, Actuated, or Bad (O/A/B):

LPCI Operable, Inservice, or Bad (O/I/B):

Core Spray Operable, Inservice, or Bad (O/I/B):

REACTOR VESSEL DEPRESSURIZATION/COOLDOWN

Reactor Pressure (PSIG):

Isolated (Y/N):

Cooldown in Progress (Y/N):

Cooldown Rate (Deg F/HR):

PRIMARY CONTAINMENT

Isolated (Y/N):

Drywell Pressure (PSIG):

Drywell Temperature (Deg F):

Drywell Ventilation

Off or In Service (O/I):

Containment Spray

Operable, In Service, or Bad (O/I/B):

Torus Water Level

Normal, High, or Low (N/H/L):

Torus Water Temp (Deg F):

Torus Water Recirc (Y/N):

SECONDARY CONTAINMENT

Isolated (Y/N):

SBGT System

Operable, Inservice, or Bad (O/I/B):

ELECTRICAL POWER

Offsite Power Unavailable/In Service (U/I):

Diesel Generator #1 Operable/In Service/Bad (O/I/B):

Diesel Generator #2 Operable/In Service/Bad (O/I/B):

REACTOR COOLANT CHEMISTRY

SAMPLE TIME:

Gross Activity

Micro C/ml

Total Iodine

Micro C/ml

I 131

Micro C/ml

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ATTACHMENT 6RADIOLOGICAL STATUS INFORMATION

DATE _____

TIME _____

Release Path

Off Gas Stack

- Elevated

Reactor/Turbine Building

- Ground Level

Meteorological Conditions

Wind Direction

Out of _____ Towards _____
_____ mph

Wind Speed

Stability Classification

Forecasted Weather Conditions

Winds Shifting To

(from _____)

Wind Speed To

_____ at _____
_____ at _____

Dose Projection (based on input data at _____)

Max Concentration Distance _____ meters

Dose Rate _____

Plume Center Line Dose Rates -

	Whole Body	Thyroid	Plume Width
Site Boundary	_____	_____	_____
2 Miles	_____	_____	_____
5 Miles	_____	_____	_____
10 Miles	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Prompt Notification System

Actuated

Yes

No

Time _____

Potentially Affected
Population CentersProtective Action
Recommendations

_____	_____
_____	_____
_____	_____
_____	_____

DAEC Habitability Status

Control Room

Satisfactory

Evacuated

Technical Support Center

Satisfactory

Evacuated

Access Control/Locker Room

Satisfactory

Evacuated

Security Control Point

Satisfactory

Evacuated

Contractor Change Area

Satisfactory

Evacuated

Power Block Structure

Satisfactory

Evacuated

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ATTACHMENT 7

TSC SUPERVISOR'S CHECKLIST

Do not attempt to do all of these functions yourself unless adequate personnel are not available

TIME

- _____ (a) Initiate TSC supervisor's Log (EPIP 2.2, para. 4.1.2g), and assign an individual to maintain this log throughout the emergency.
- _____ (b) Ensure that radiation readings on the ventilation system and the monitor in the TSC have been checked. If monitors are trending upward or alarming ensure that a habitability survey is initiated. (EPIP 2.2, para. 4.1.2a)
- _____ (c) Ensure that the continuous air sampling monitor (EPIP 2.2, para. 4.1.2b) has been energized and verified operable.
- _____ (d) Assure that the ventilation filtration system has been activated (EPIP 2.2, para. 4.1.2c)
- _____ (e) Verify TSC staffing (EPIP 2.2, Attachments 1 & 2) The following positions must be filled:
 - _____ Emergency Coordinator
 - _____ TSC Supervisor
 - _____ Site Radiation Protection Coordinator
 - _____ Communicator #1
 - _____ Communicator #2
- _____ (f) Ensure that communications links have been established and verified; (EPIP 2.2, para. 4.1.2.d and Attachment 3)
- _____ (g) Ensure that the Control Room TV monitors (EPIP 2.2, para. 4.1.2e) have been energized and are operable
- _____ (h) Update the parameter status board to ensure that all TSC personnel are kept informed (EPIP 2.2, para. 4.1.2f)
- _____ (i) Verify that the switchboard has been manned.
- _____ (j) Verify that access control to the TSC has been established (EPIP 2.2, para. 4.1.2h)
- _____ (k) Verify that notification of personnel has been initiated (EPIP 1.2, para. 4.2.)

ATTACHMENT 7 (continued)TSC SUPERVISOR'S CHECKLIST

- _____ (l) Ensure that appropriate personnel have been assigned to research drawings, specifications, test data and other engineering drawings. (EPIP 2.2, para 4.2.4)
- _____ (m) Provide plant status information as requested by the EOF and NRC (EPIP 2.2, para. 4.2.2 and 4.2.3)
- _____ (n) Assist the SSE with determining the source and means to terminate radiological releases (EPIP 2.2, para. 4.2.4.d and 4.2.4.f) and other actions necessary to return the plant to a safe condition (EPIP 2.2, para. 4.2.4.a)
- _____ (o) If the EOF is not manned, provide information to outside agencies (EPIP 2.2, para. 4.2.2 and 4.2.3)
- _____ (p) Evaluate the effects of off-normal modes of plant operation on future operations. (EPIP 2.2, para. 4.2.4.b)
- _____ (q) Develop operating instructions for and brief relief operating personnel on off-normal operating modes (EPIP 2.2, para. 4.2.4.b)
- _____ (r) Escalate the classification of the emergency should conditions become worse.
- _____ (s) Evaluate changes to the plant for potential consequences to the public and inform the EOF (EPIP 2.2, para. 4.2.4.c)
- _____ (t) Upon deactivation of the TSC (EPIP 5.1, para. 4.3.2):
- _____ Return all facilities, equipment and supplies to their normal condition, location, etc.
- _____ Identify the equipment needing repair, calibration, etc.
- _____ Identify supplies that need to be replaced.
- _____ Return personnel to normal duties and schedules.
- _____ Notify all appropriate interfacing DAEC and corporate personnel of deactivation actions
- _____ Compile all logs, notes, calculations, status sheets and related records.

NAME _____

DATE _____

ATTACHMENT 8SITE RADIATION PROTECTION COORDINATOR'S CHECKLIST

TIME

- _____ (a) Determine if a release has occurred
- _____ (b) Check to assure that the back panel hot line is manned.
- _____ (c) Obtain meteorological data and pertinent Radiation Monitor Readings (Control Room panels, VAX)(EPIP 3.1, para. 4.4.2)
- _____ (d) Perform dose projections (EPIP 3.3, para. 4.2.5a)
- _____ (e) Recommend protective action to the Emergency Coordinator (EPIP 2.2, para. 4.2.5b)
- _____ (f) Instruct, dispatch, and coordinate monitoring teams (EPIP 3.1, para. 4.4.3) Ensure reentry teams are cognizant of emergency entry routes
- _____ (g) Direct the OSC Supervisor to dispatch personnel to relay intermediate and high range effluent monitoring data, as appropriate
- _____ (h) Direct the OSC Supervisor to dispatch personnel to collect a Reactor Coolant sample, as appropriate
- _____ (i) Direct the OSC Supervisor to dispatch personnel to collect a Drywell atmospheric sample, as appropriate
- _____ (j) Direct the OSC Supervisor to dispatch personnel to assess airborne activity for radioiodines, as appropriate (EPIP 3.1, para. 4.4)
- _____ (k) Evaluate survey data.
- _____ (l) Perform trend analyses to anticipate changes in radiological conditions. (EPIP 2.2, para. 4.2.5)
- _____ (m) Authorize changes to Administrative Exposure limits, as necessary (EPIP 3.1, para. 4.3.1c)
- _____ (n) Define requirements for additional radiological monitoring personnel and identify such needs to the Emergency Coordinator (EPIP 3.1).

NAME

DATE

EMERGENCY PREPAREDNESS COMMUNICATIONS

TESTING

1.0 PURPOSE

This procedure defines the requirements for emergency preparedness communications system checks to be conducted on a periodic basis as defined in 10CFR50 Appendix E.

2.0 APPLICABILITY

This procedure applies to the emergency communications systems that are installed at both the DAEC and at the IE Tower which are associated with emergency preparedness response efforts.

3.0 RESPONSIBILITIES3.1 Emergency Planning Assistant

3.1.1 Perform communications checks as assigned in Section 4.0

3.1.2 Verify satisfaction completion of the communication checks conducted on a periodic basis as defined in Attachments 1 through 4.

3.2 Lead STA

3.2.1 Verify that emergency preparedness communications systems checks are completed as assigned.

3.2.2 Coordinate with the Emergency Planning Assistant as required to insure satisfactory completion of the communications systems checks.

3.3 Security Guard Captain

3.3.1 Verify that emergency preparedness communications system checks are completed as assigned.

4.0 INSTRUCTION

4.1 The following communications systems shall be checked and verified operable at the specified frequency.

4.1.1 Completion of monthly communications checks shall be documented on attachments 1 & 2. include

The following systems or circuits are included:

- a) NRC ENS
- b) NRC HPN

EMERGENCY PREPAREDNESS COMMUNICATIONS
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- c) PBX & Centrix connections to:
- (1) Office of Disaster Services
 - (2) Linn County Sheriff
 - (3) Benton County Sheriff

4.1.2 Completion of the quarterly communications checks shall be documented on attachment 3.

The following systems or circuits are included:

4.1.2.1 Dedicated telephone circuits between:

- (a) Control Room and
Technical Support Center
Access Control
Security Control Point
Emergency Operations Facility
- (b) Technical Support Center and
Control Room
Access Control
Security Control Point
Emergency Operations Facility
- (c) Access Control and
Control Room
Technical Support Center
Security Control Point
- (d) Security Control Point
Control Room
Technical Support Center
Access Control

4.1.2.2 Operations Radio between:

- (a) Control Room (base station)
- (b) Technical Support Center (console)
- (c) Site Boundary
- (d) Access Control (console)

4.1.2.3 Security/Radiological Survey Radio between:

- (a) Ten (10) mile radius
- (b) Technical Support Center (console)
- (c) Emergency Operation Facility (console)
- (d) Security Control Point

4.1.2.4 Operationally Check and Inventory the Following Equipment:

- (a) (2) Six Button Phones in the Control Room
- (b) (1) Headset in the Control Room
- (c) (8) Twenty Button Phones in the TSC

EMERGENCY PREPAREDNESS COMMUNICATIONS
TESTING

- (d) (5) Headsets in the TSC
- (e) (4) Operations Radios in the SCP
- (f) (2) Security/Radiological Porta-Mobiles in the SCP
- (g) (2) Magnetic Mount Antennas in the SCP
- (h) (2) Antenna Adapters in the SCP

NOTE

The head set in the TSC are located in the cabinet in the Communications Room.

- 4.1.3 Completion of the annual communication checks shall be documented on Attachment 4.

4.1.3.1 Centrix connections to:

- (a) FFMA
- (b) DOE
- (c) Office of Disaster Services
- (d) Linn County Civil Defense
- (e) Benton County Civil Defense

- 4.2 Communication checks should be conducted as follows:

4.2.1 Monthly - first full calender week

4.2.2 Quarterly - first full calender week during January, April, July and October

4.2.3 Annual - first full calender week during October.

- 4.3 A message similar to that shown on Attachment 5 should be used when conducting communications systems checks external to IELP.

- 4.4 Communications checks should be performed by:

4.4.1 DAEC - as directed by the Lead STA and Security Guard Captain.

4.4.2 IE Tower - Emergency Planning Assistant

- 4.5 The Security Guard Captain shall ensure that the communications checks indicated in Attachment 1 are performed, sign the form, and forward it to the Lead STA.

- 4.6 The Lead STA shall review Attachment 1 upon its completion and forward to the Emergency Planning Assistant.

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4.7 The Emergency Planning Assistant shall perform the communication check indicated in Attachment 2, 3, and 4.

4.8 The Emergency Planning Assistant shall review all documentation associated with the communications checks and prepare a written summary for the Chief Engineer, Emergency Planning Coordinator, and Director Nuclear Generation.

5.0 REFERENCE

5.1 10 CFR 50 Appendix E

5.2 EPIP 2.2 "Activation and Operation of the Technical Support Center"

6.0 ATTACHMENTS

1. Monthly DAEC Emergency Communications Checks
2. Monthly IE Tower Emergency Communications Checks
3. Quarterly DAEC Emergency Communications Checks
4. Annual IE Tower Emergency Communications Checks
5. Example Communication Check Message Format

APPROVED BY: BR York for DATE: 2/26/82
Chief Engineer

REVIEWED BY: BR York DATE: 2/26/82
Chairman, Operations Committee

APPROVED BY: SW Wilson DATE: 2-24-82
Assistant Chief Engineer
Radiation Protection and Security

EMERGENCY PREPAREDNESS COMMUNICATIONS
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ATTACHMENT 1

Page 1

Monthly DAEC Emergency Communications Check

Communication Circuit	Initiated By (Name)	Received By (Name)	Time	Date
1. NRC ENS				
a) Control Room				
b) Tech. Support Center				
2. NRC HPN				
a) Access Control ¹				
b) TSC ¹				
c) TSC ²				
d) Sec. Control Point ¹				
3. COMMERCIAL TELEPHONES				
a) NRC-Bethesda (301) 492-8111				
or (301) 427-4056				
or (301) 492-7000				
b) UDS ³ (515) 281-3231				
or (515) 281-3561				
c) Linn Co. Sheriff 398-3911				
d) Benton Co. Sheriff 11-472-4777				
or 11-472-2337				
4. POINT TO POINT RADIOS				
a) Linn County Sheriff				
b) Benton County Sheriff				
c) Iowa Highway Patrol				
5. IWAS PHONE ⁴				
a) Office of Disaster Services				
6. NWS FIRST ORDER STATION, CEDAR RAPIDS FLIGHT SERVICE				
11-364-7127				
7. NWS FORECASTING STATION				
DES MOINES (515) 284-4492				

REVIEWED BY

Security Guard Captain

DATE

EMERGENCY PREPAREDNESS COMMUNICATIONS
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ATTACHMENT 1 (Continued)

Page 2

Monthly DAEC Emergency Communications Check

REVIEWED BY _____ DATE _____
Lead STAREVIEWED BY _____ DATE _____
Emergency Planning Coordinator¹Dial 22 (NRC-Bethesda)²Dial 23 (NRC-Region III)³ODS is the Iowa State Office of Disaster Services⁴This test will be initiated by the State Office of Disaster Services on the following days:
January 4, February 1, March 1, April 5, May 3, June 7, July 6, August 2, September 7,
October 4, November 1, December 6, 1982.⁵Items 1 through 3a will be performed by an STA and items 3b through 7 will be performed by Security.

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ATTACHMENT 2

Monthly IE TOWER Emergency Communication Checks

Communication Circuit	Initiated By (initials)	Received By (Name)	Time	Date
Centrex				
NRC Region III (312)932-2500				
NRC Bethesda (301)492-8111				
or (301)427-4056				
or (301)492-7000				
Office of Disaster Services				
(515)281-3231				
or (414)281-3561				
Linn County Sheriff 398-3911				
Benton County Sheriff 1-472-4777				
or 1-472-2337				
NRC ENS				
Emergency Operations Facility				
NRC HPN - Bethesda Dial 22				
NRC HPN - Region III Dial 23				
NWS First Order Station 364-7127				
NWS Forecasting Station(515)284-4492				

CONDUCTED BY

Emergency Planning Assistant

Reviewed

Emergency Planning Coordinator

Date

EMERGENCY PREPAREDNESS COMMUNICATIONS
TESTING

ATTACHMENT 3

Quarterly DAEC Emergency Communications Checks

Communication Circuit	Initiated By (initials)	Received By (Name)	Time	Date	Remarks
Control Room Dedicated Circuits					
TSC					
Access Control					
Security Control Point					
EOF					
Back Panel Circuit to TSC					
Intercom					
Operability Check and Inventory					
(1) Headset					
(2) Six Button Phones					
TSC Dedicated Circuits					
Control Room					
Control Room (back panel)					
Access Control					
Security Control Pt.					
TSC to EOF					
EOF to TSC					
Intercom					
Operability Check and Inventory					
(5) Headsets					
(8) Twenty Button Phones					
Access Control Dedicated Circuits					
Control Room					
TSC					
Security Control Pt.					
Intercom					
Security Control Pt. Dedicated Circuits					
Control Room					
TSC					
Access Control					
Intercom					

Continued on next page

EMERGENCY PREPAREDNESS COMMUNICATIONS

TESTING

ATTACHMENT 3 (continued)

Quarterly DAEC Emergency Communications Checks

Communication Circuit	Initiated By (initials)	Received By (Name)	Time	Date	Remarks
Operations Radio (TSC)					
Secondary Alarm Station					
Security Control Point					
Site Boundary					
Operability Check and Inventory					
(4) Hand Held Radios					
Security/Health Physics Radio (TSC)					
EOF					
Security Control Point					
10 mile radius					
Operability Check and Inventory					
(2) Porta Mobile Radios					
(2) Magnetic Mount Antennas					
(2) Antenna Adapters					

CONDUCTED BY _____ Date _____
Emergency Planning Assistant

Reviewed _____ Date _____
Emergency Planning Coordinator

EMERGENCY PREPAREDNESS COMMUNICATIONS

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ATTACHMENT 4

Annual IE Tower Emergency Communication Checks

Communication Circuit	Initiated By (initials)	Received By (Name)	Time	Date
Centrex				
FEMA (202)634-7800 or (202)287-0540				
DOE (312)972-4800 or (312)972-5731				
Office of Disaster (515)281-3231				
Service or (515)281-3561				
Linn County CD 363-2671				
Benton County CD 472-4519				

Conducted By: _____ Date _____

Emergency Planning Assistant

Reviewed By: _____ Date _____

Emergency Planning Coordinator

EMERGENCY PREPAREDNESS COMMUNICATIONS
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Attachment 5

EXAMPLE COMMUNICATION CHECK

MESSAGE FORMAT

This is _____, _____
Name Title

from _____
DAEC or IELP

The purpose of this call is simply to check operability of this communication system.

An emergency situation does not - I repeat - does not exist at the DAEC.

NOTE

Advise the individual who answered the call that this check is being done monthly, quarterly, or yearly, as the case may be, to comply with NRC regulations. Obtain his or her name, advise it is simply for documentation purposes, thank him and end the conversation courteously.