

EMERGENCY PLAN IMPLEMENTING PROCEDURES

REVISION CONTROL SHEET

Revision No. 9Revision Date 8/25/82

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1.0 PURPOSE

This procedure provides instructions for evacuation to a safe assembly area and for accountability of personnel at the DAEC in the event of an emergency.

2.0 APPLICABILITY

This procedure applies to DAEC, IELP, Contractor, and Visitor personnel within the site boundary in the event of a site evacuation. Requirements delineated in this procedure shall be implemented for the occurrence of an event which may result in an emergency condition classified as an Alert, Site Emergency or General Emergency (Evacuation may also be used for non-emergency accountability).

NOTE:

A Plant Evacuation is defined as evacuation of personnel from selected buildings or facilities at the DAEC, where the evacuated personnel are reassembled at locations on the site.

A Site Evacuation is defined as evacuation of some or all personnel from the DAEC site to an offsite location.

3.0 RESPONSIBILITIES

3.1 Shift Supervising Engineer:

- Initiate the Site Evacuation Alarm for any event classified as an ALERT or greater. The evacuation alarm may also be sounded for other events, at the discretion of the SSE.
- Ensure onsite personnel are notified by an audible evacuation signal and that appropriate announcements are made on the plant paging system.
- Account for all on duty shift operating personnel.

3.2 Emergency Coordinator

- Ensure that non-essential personnel are evacuated from the site for a Site or General Emergency.

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3.3 Security Shift Supervisor

- Ensure all personnel are accounted for.
- Control access to and from the site during evacuation.
- Coordinate Access Points at the Control Room (CR), Technical Support Center (TSC), Contractor Change House, and Security Control Point as appropriate.

3.4 Operations Support Center Supervisor

- Organize and control evacuated personnel at the OSC and Contractor Change House.
- Assist in accounting for personnel assigned to the OSC and the Contractor Change House.

4.0 INSTRUCTIONS

4.1 Plant Evacuation

- 4.1.1 The Shift Supervising Engineer (SSE) shall sound the evacuation alarm for any event classified as an Alert or greater. At the discretion of the SSE, the evacuation alarm may also be sounded for other events, such as:
- a) an Unusual Event which warrants evacuation.
 - b) other occurrences which require the evacuation of any part of the plant. (Note that, for accountability purposes, evacuation of any area of the plant requires evacuation of the entire plant).
- 4.1.2 The SSE, based on his knowledge of the nature and location of the problem, shall consider safe evacuation routes for personnel in the plant so that they may avoid hazardous areas while evacuating. The evacuation announcement (see 4.1.3 below) shall provide such information as necessary.

NOTE:

Such evacuation routes may require use of doors which are normally sealed and alarmed, and which are not normally available for routine entrance or exit. Use of such doors for emergency evacuation will, of course, sound these alarms. Security personnel should recognize that such alarms may be expected during an evacuation.

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4.1.3 Upon completion of the tone alarm, the SSE shall announce the evacuation and provide further instructions on the paging system.

- a. The announcement over the paging system should be as follows:

ATTENTION ALL PERSONNEL:

An ALERT/SITE/GENERAL emergency has been declared. All personnel onsite shall evacuate to their designated evacuation centers. (Provide additional specific instructions, as required.)

4.1.4 Repeat the tone alarm and paging instructions.

4.1.5 All onsite personnel shall proceed without delay to the following predesignated assembly areas, (see Attachment 1). Note that it is each employee's responsibility to heed any instructions given over the paging system regarding safe evacuation routes, and to act accordingly.

- a. Predesignated personnel shall report to the TSC as per EPIP 2.2, "Activation and Operation of the Technical Support Center."
- b. All other IELP/DAEC personnel except the on-shift operating crew and security personnel shall report to the OSC as per EPIP 2.1, "Activation and Operation of the OSC." The on-shift operating crew will report to the Control Room and security personnel will begin implementing their assigned duties. See "Security Shift Supervisors Checklist", Attachment 7 of EPIP 2.1.
- c. Contractors shall report to the Contractor Change House.
- d. Visitors shall be escorted to the Security Control Point. Upon the visitors' exit from the Protected Area, the escorts shall then proceed to their assigned area.
- e. Personnel onsite but outside of the Protected Area will report to the Security Control Point.

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- 4.1.6 Personnel who evacuated the reactor building by way of alarmed doors shall report immediately (prior to reporting to their designated area) to the OSC to be monitored, since they will have bypassed the portal monitor at Access Control. They shall also report to the Central Alarm Station (ext. 241) the location of the alarmed door by which they evacuated. They shall then report to their designated assembly area for accountability purposes.
- 4.1.7 In the event that the OSC and Contractor Change House are not habitable, personnel assigned to those areas shall be redirected to the Offsite Relocation and Assembly Area (ORAA).
- 4.1.8 If the TSC is not habitable, personnel designated by the Emergency Coordinator shall report to the Control Room.

4.2 Monitoring

- 4.2.1 Initiate radiation surveys and airborne sampling as directed by the Site Radiation Protection Coordinator to determine habitability of the OSC and Contractor Change House per EPIP 3.1, "Onsite Radiological Monitoring."

NOTE

Radiation surveys and airborne radiation sampling of the TSC and Control Room will be conducted based upon an evaluation of instrument readings monitoring the general area and atmosphere in those locations. Follow-up sampling/surveying should be performed to verify habitability.

- 4.2.2 Radiation monitoring of evacuated personnel will be performed per RPP 5.2, "Controlled Area Methodology".
- 4.2.3 In the event of a radiological release, personnel to be released offsite will be surveyed for radiological contamination prior to being released from company property. This monitoring will be accomplished at the Controlled Access Point.

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NOTE

If designated areas are not habitable, personnel radiological surveying will be accomplished at the offsite assembly area.

4.3 Accountability

4.3.1 Personnel accountability shall be performed to identify missing personnel as soon as possible after implementation of EPIP 4.1, "Site Evacuation". Accountability should be accomplished within 30 minutes after the evacuation alarm has been sounded. Accountability shall be reported to the Security Shift Supervisor, as follows:

- a. The Shift Supervising Engineer shall ensure shift operating crew personnel are accounted for and report to the Security Shift Supervisor.
- b. The TSC Supervisor shall ensure personnel in the TSC are accounted for and report to the Security Shift Supervisor.
- c. The OSC Supervisor shall assist the Security Shift Supervisor in accounting for personnel in the OSC and the Contractor Change House. Other personnel may be designated to assist in accountability, as necessary.
- d. Accountability of personnel shall be verified and/or cross checked by the Security Shift Supervisor using the Badge Board located at the Security Control Point and the Emergency Assignment Board located in the hall near the Security Control Point.
- e. Results of the accountability survey shall be reported by the Security Shift Supervisor to the OSC Supervisor and the Security & Support Supervisor.
- f. The Security & Support Supervisor shall advise the Emergency Coordinator of the results.

4.3.2 In the event missing personnel are identified, initiate rescue efforts in accordance with EPIP 4.3, "Rescue and Emergency Repair Work."

4.3.3 If the evacuation was conducted due to a local radiation emergency, once accountability has been established, the Emergency Coordinator may release personnel to return to their normal work areas with the exception of the affected local areas.

4.4 Security Access Controls

- 4.4.1 Shift security personnel shall make a tour of the property as authorized by the Emergency Coordinator, including buildings outside the Protected Area.
- a. Non-IELP personnel found on company property will be escorted to the Security Control Point, surveyed for contamination and, if not contaminated, released from the site and escorted off company property.
 - b. If contaminated, decontamination shall be as described in EPIP 4.2, "First Aid, Decontamination and Medical Support."
- 4.4.2 The Emergency Coordinator through the Security Shift Supervisor will coordinate access to the site with local law enforcement agencies.
- a. Local law enforcement agencies will establish access control points at predetermined locations to prevent unauthorized access to the site.
 - b. The Security Shift supervisor will coordinate with the local law enforcement agencies, as required, to authorize personnel access to the site.
- 4.4.3 Shift security personnel shall set up access control points at the TSC, Control Room, Contractor Change House, and the locker room in the OSC as appropriate. Access to and egress from these locations will be controlled by Security Personnel in order to maintain accountability until personnel are released to return to work or sent offsite.

NOTE

Access control points may be deleted at the discretion of the Emergency Coordinator.

4.5 Evacuation Beyond the Site Boundary (Site Evacuation)

- 4.5.1 Evacuation of the site property for nonessential personnel may be required based upon:
- a. Severity of the event - Nonessential personnel shall be evacuated for a Site or General Emergency unless radiological environmental conditions prohibit.
 - b. Habitability of assembly areas.

- 4.5.2 Evacuation of personnel from the site property will be authorized by the Emergency Coordinator.
- 4.5.3 If evacuation is required and authorized, it shall be directed by the OSC Supervisor and coordinated with the Security Shift Supervisor.
- 4.5.4 Evacuation from the site property shall be to the Offsite Relocation and Assembly Area (ORAA) at the Palo School Gymnasium facility unless otherwise directed by the Emergency Coordinator.
- a. If the radiological release rate and meteorological conditions are such that evacuation to the Palo facility is inappropriate, an alternate location shall be selected by the Emergency Coordinator based upon input from the Site Radiation Protection Coordinator. A page system announcement will be made notifying evacuees of the alternate offsite assembly area.
 - b. Activities at the ORAA shall be in accordance with Attachment 3, "Operating Procedures for the ORAA".
 - c. In the event that decontamination of personnel, equipment or vehicles is required, such efforts will be coordinated by the Site Radiation Protection Coordinator and conducted by Health Physics personnel as directed by the OSC Supervisor.
- 4.5.5 Evacuation from the site property shall be by the routes shown in Attachment 2, using personal transportation.
- a. The south route from the plant will normally be used for site evacuation unless inclement weather, high traffic density or radiological conditions dictate use of the northern route.
 - b. Security personnel will provide traffic control onsite.
 - c. Accountability of personnel during evacuation shall be maintained.
- 4.5.6 An accountability check should be performed once personnel have arrived at the alternate assembly location. Personnel may then be released, or requested to stay, as necessary.
- 4.5.7 The ORAA will also be used, if necessary, as a staging area for assembling, briefing, and equipping personnel who are assigned to reenter the site following an incident.

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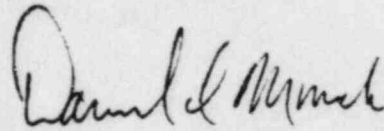
5.0 REFERENCES

1. Duane Arnold Energy Center Emergency Plan
2. Iowa Electric Light and Power Company Corporate Emergency Response Plan
3. Radiation Protection Procedures

6.0 ATTACHMENTS

1. Onsite Assembly Locations
2. Site Evacuation Routes
3. Operating Procedures for the Offsite Relocation and Assembly Area

Approved by:

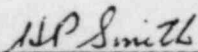


Plant Superintendent - Nuclear

Date

8-24-82

Reviewed by:

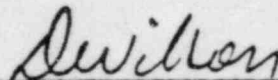


ALARA Coordinator

Date

8/2/82

Reviewed by:



Operations Committee Chairman

Date

8-16-82

Approved by:

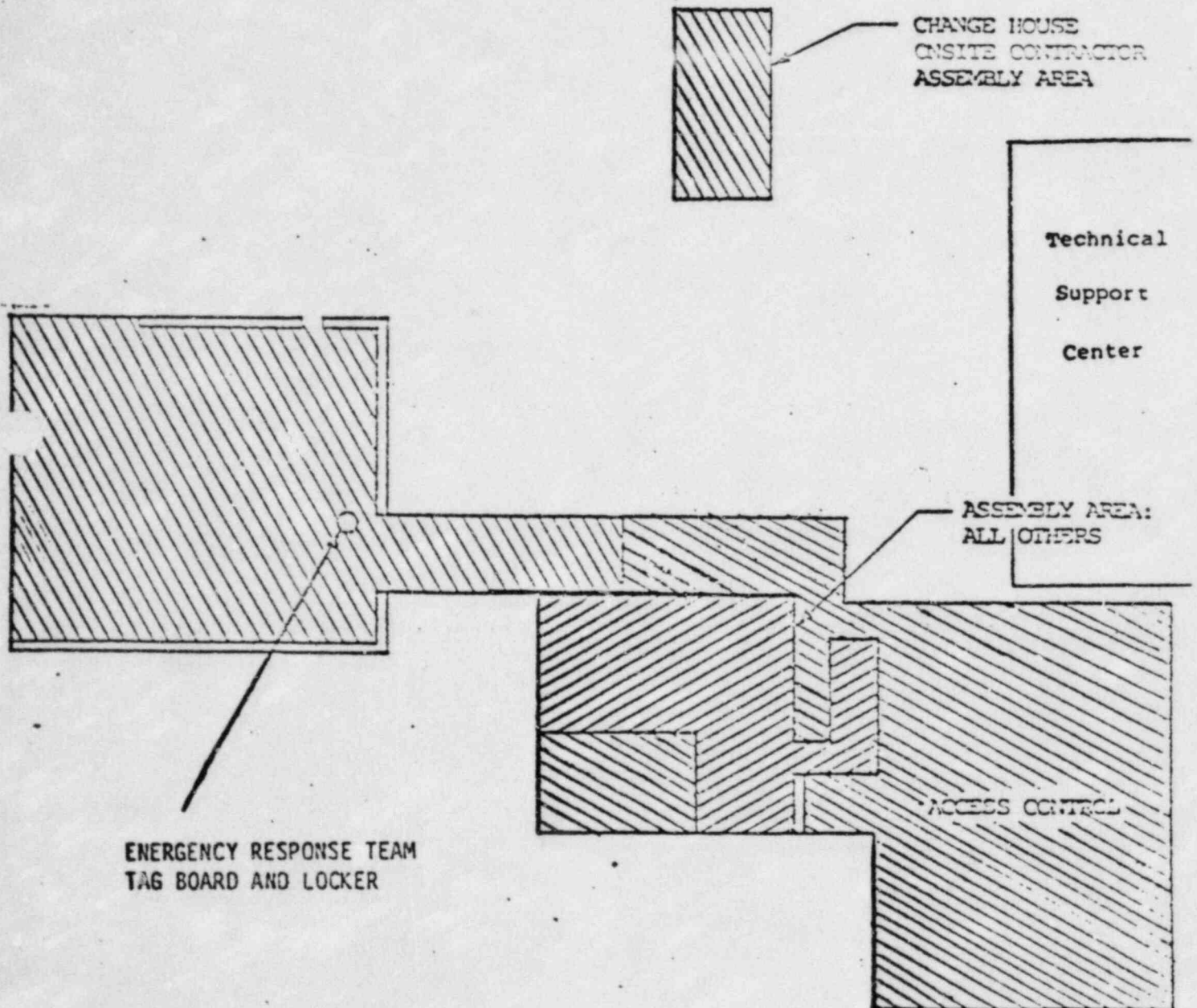


Operations Supervisor

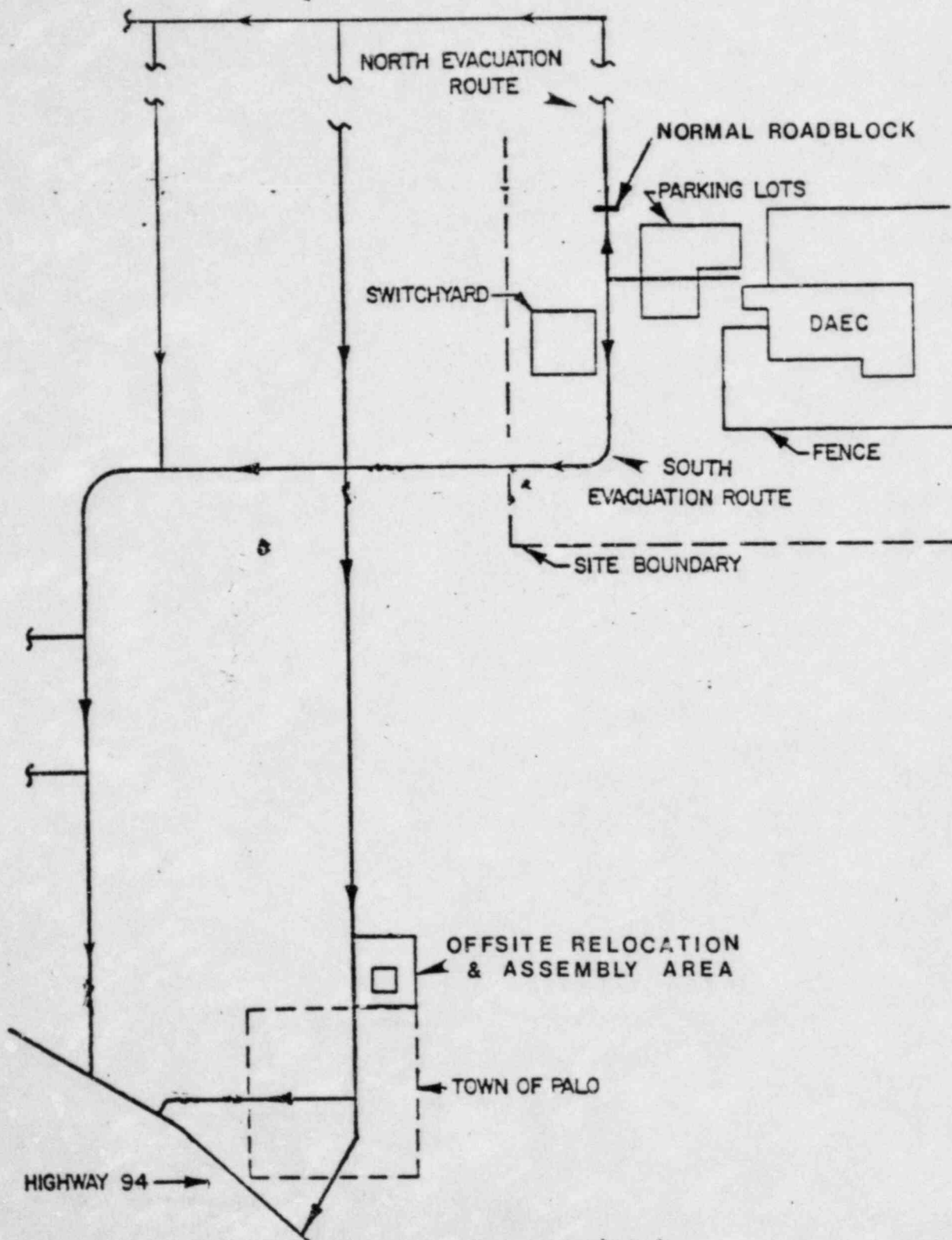
Date

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ATTACHMENT 1
ONSITE ASSEMBLY LOCATIONS



ATTACHMENT 2
SITE EVACUATION ROUTES



ATTACHMENT 3

OPERATING PROCEDURES FOR THE OFFSITE RELOCATION AND ASSEMBLY AREA

The Offsite Relocation and Assembly Area (ORAA) is a facility which will be used to relocate and reassemble people from the DAEC in case of a radiological emergency which requires evacuation. The ORAA is located at the former school gymnasium in Palo, about 2 1/2 miles southwest of the plant. The building and about six acres of land around it will be used as required for personnel and vehicle assembly, monitoring and accountability.

The building floor plan is shown in Figure 1. Both the building and the land are normally used by the public for various purposes, however, during a site emergency, these uses would be temporarily superceded by DAEC for use as the ORAA.

The ORAA will be staffed by a senior management representative designated by the Emergency Coordinator. This representative will be assisted by one or more Health Physics technicians designated by the Radiation Protection Coordinator.

Evacuating vehicles will approach the ORAA from the north. A security guard or other traffic control officer(s) will be stationed at the north end of the ORAA lot to direct vehicles into the ORAA, and to prevent unauthorized vehicles from outside from going north on the county road toward the plant. Security Site Evacuation Checklist is to be used by security personnel at the Offsite Relocation and Assembly Area.

A check point/monitoring station will be set up at the northwest corner of the ORAA property. At this station, a security guard will check in and record the names of personnel from the plant. Vehicles will be monitored and directed to designated clean or contaminated parking areas as appropriate. Contaminated vehicles will be held in the contaminated parking area until the contamination has decayed to levels acceptable for uncontrolled release.

People will be directed into the gymnasium through the door on the NE corner. A portal monitor will be utilized on the inside door which enters the gymnasium and stage. All personnel will be scanned as they pass through the portal monitor and contaminated people will be directed to the stage. Those found to be uncontaminated will be directed to the clean area on the south side of the gymnasium.

Personnel showing positive indications of contamination will be handled as follows:

1. If contamination is on the clothing, the contaminated clothing will be removed (to the extent modesty and temperature permit) bagged and tagged with the owner's name. If the person is then found to be clean he will be directed to the clean waiting area.
2. If remaining clothing, or the individual himself, is found to be contaminated, he will be decontaminated to the extent possible using paper towels, waterless hand cleaner, etc. and provided with clean temporary clothing (e.g., coveralls). When adequately decontaminated, he will be directed to the clean waiting area.

ATTACHMENT 3 (Continued)

3. Personnel will be decontaminated only to the extent necessary to facilitate their transport to the offsite decontamination facility, if further decontamination is needed.
4. After decontamination, personnel will be released to go home or to return to their assigned duties, as directed by the Emergency Coordinator or his designated representative.

Dosimeters will be collected from all evacuated personnel, and exchanged for those who will return to the plant.

Copies of the "Personal Statement Concerning Incident" form (Attachment 5, EPIP 2.1) will be distributed to all evacuated personnel, if appropriate, and the completed copies collected before the personnel are released.

Kitchen facilities are available at the ORAA to feed personnel who may need to remain there for extended periods.

WSI guards will maintain security at the ORAA as requested by the senior management representative. The Security Shift Supervisor will ensure that the designated personnel have evacuated the plant and are accounted for at the ORAA prior to being released or reassigned to duties at the plant.

The following supplies will be maintained at the ORAA for use during an emergency:

LOCKER 8-A

<u>Item</u>	<u>Minimum Quantity</u>
Extra Large Cloth Coveralls	75 pair
Cloth Hoods	75 each
Rubber Boots	75 pair
Rubber Gloves	75 pair
Cotton Liners	144 pair
Plastic Booties	200 pair
Masking Tape	12 rolls
Paper Skull Caps	100 each
Cotton Work Gloves	48 pair

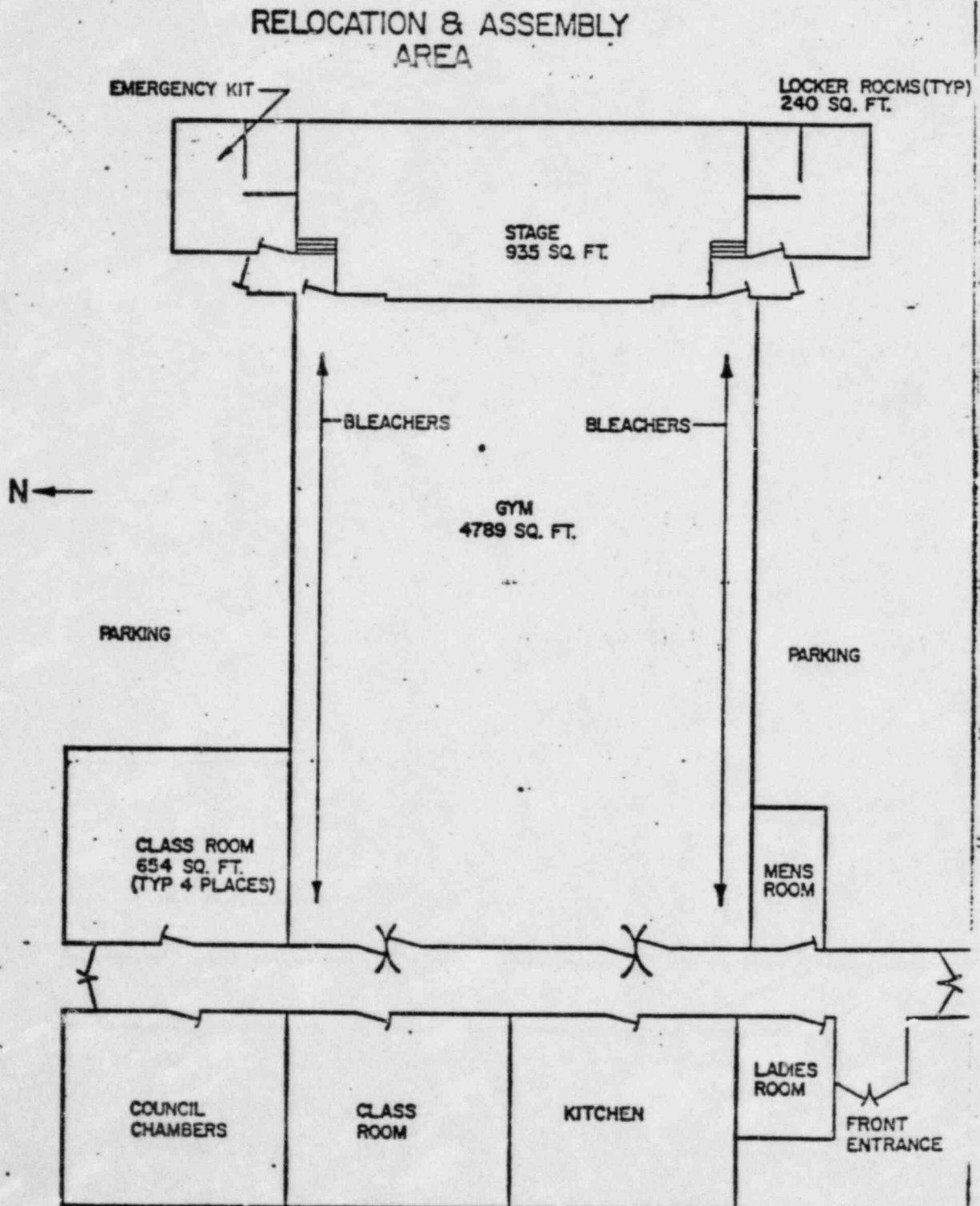
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LOCKER 8-B

<u>Item</u>	<u>Minimum Quantity</u>
Paper coveralls	25 (sets)
Shoe covers	25 (sets)
Cotton liners	25 (sets)
Rubber gloves	25 (sets)
Waterless hand cleaner	2 containers
Towels	12 each
Teri towels	6 bundle
Large plastic bags	10
Small plastic bags	10
Masking tape	2 rolls
Visqueen	1 roll
Tablets/Clipboards	4 each
Notebooks	4 each
Felt Pens	1 box
Ballpoint Pens	1 box
Paper (pad)	6 pads
Pencils	1 box
Dosimeters - 0 - 200mR	10
Dosimeters - 0 - 200R	2
Dosimeter charger	1
Swipe Papers	2 boxes
Ki Tablets	6 bottles
R/S Stickers	1 roll
Flashlights	4 each
Public Address System	1
EIPs	1
Radiation protection procedures	1
Personnel statement of incident record	1 pad
First aid kit	1
Blankets	2
Barricade Ribbon	12 rolls

RELOCATION & ASSEMBLY AREA

Figure 1



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SECURITY SITE EVALUATION CHECKLIST AT THE
OFFSITE RELOCATION AND ASSEMBLY AREA (ORAA)

1. Security personnel will be dispatched to the ORAA by the OSC Supervisor.
2. Security personnel will take the Palo key ring and two Security/Rad radios to the ORAA.
3. Place the evacuation information sign over the egress card reader.
4. Place the badge receptacle at the egress card reader.
5. The Security force member assigned to the egress post will ensure those people to be evacuated use the egress reader and place badge in receptacle and take TLD and Dosimetry to the ORAA.
6. At the ORAA, the security force will
 - _____ open doors
 - _____ direct traffic to the lot north of the school
 - _____ direct personnel to enter the northeast door
 - _____ take TLD and Dosimetry as they enter the door (return them after accountability)
7. State accountability using the TLDs/Dosimetry.
 - complete a list by badge # of individuals evacuating to the ORAA
8. Security personnel at the plant site will compile a list by badge # of those people evacuated to the ORAA.
9. The security personnel at the ORAA will call the SCP , and compare names compiled and give accountability status to USC Supervisor.
10. Maintain traffic and crowd control after accountability is completed.
11. No one is to enter the ORAA without a TLD/Dosimeter and no one exits unless authorized by the ORAA Supervisor.