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PROTECTIVE MEASURE FOR
ONSITE PERSONNEL

<u>360-0</u> Protective Measures for Onsite Personnel	Rev. 8	03-02-82
<u>360-1</u> Drywell Evacuation	Rev. 1	06-20-80
<u>360-2</u> Plant Evacuation and Assembly	Rev. 6	03-02-82
<u>360-3</u> Site Evacuation	Rev. 2	03-02-82
<u>360-4</u> Use of Potassium Iodide (KI) as a Thyroid Blocking Agent	Rev. 2	05-18-81
<u>360-5</u> Issuance of Emergency Film During GSEP Conditions	Rev. 1	05-18-81
<u>360-S1</u> Emergency Film Distribution Log	Rev. 1	05-18-81
<u>360-T1</u> Evacuation Assembly Areas for Visitors and Contractors	Rev. 2	03-02-82
<u>360-T2</u> Evacuation Routes by Wind Direction	Rev. 3	05-08-81
<u>360-T3</u> Site Evacuation Routes	Rev. 1	06-20-80
<u>360-T4</u> Evacuation Relocation Centers	Rev. 1	06-20-80
<u>360-T5</u> Iodine - 131 Dose Equivalent to Thyroid Reference Reg. Guide 1.109	Rev. 1	04-01-81
<u>360-T6</u> Iodine - 133 Dose Equivalent to Thyroid Reference Reg. Guide 1.109	Rev. 1	04-01-81
<u>360-T7</u> Iodine - 135 Dose Equivalent to Thyroid Reference Reg. Guide 1.109	Rev. 1	04-01-81
<u>360-T8</u> Potassium Iodide Distribution Record	Rev. 1	05-18-81

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PLANT EVACUATION AND ASSEMBLY

QEP 360-2
Revision 6
February 1982

ID/1L

A. PURPOSE

The purpose of this procedure is to describe Evacuation and Assembly practices.

B. REFERENCES

1. Refer to Quad Cities Security Procedures.
2. GSEP.
3. QEP 360-T1, Evacuation Assembly for Visitors and Contractors.
4. QEP 360-3, Site Evacuation.

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C. PREREQUISITES

1. Radiation monitoring devices indicate that radiation from or within the station is such that permissible exposures will be exceeded; or
2. A Site or General Emergency is declared; or
3. Other dangers exist that present a threat to the safety of onsite personnel as determined by the Station Director.

D. PRECAUTIONS

1. If it becomes necessary to evacuate the gatehouse due to a high radiation evacuation, refer to Quad Cities security procedure.
2. The units will be shutdown and all personnel, not essential to perform the emergency shutdown, immediately assemble at a safe location.

E. LIMITATIONS AND ACTIONS

1. None.

F. PROCEDURE

1. The evacuation alarm is sounded when the Station Director has determined that an evacuation is necessary.
2. During a station evacuation, site personnel will assemble at the following locations:
 - a. Maintenance personnel (Mechanical, Electrical, and Instrument) will assemble in the machine shop area.

- b. Operators and Rad/Chem Technicians will assemble in the Operational Support Center (OSC).
- c. Contractors will assemble in the Turbine Building Trackway nearest their work area (either Unit 1 or 2) (see QEP 360-T1).
- d. The Station Director and Operations Director will report to the Control Room. All other GSEP Directors will report to the Technical Support Center (TSC).
- e. Visitors and all other personnel will assemble in the lunchroom on the ground floor of the Service Building. (See QEP 360-T1.)
- f. A security guard will contact a spokesman for the assembled group to determine if any personnel are unaccounted for. The security guard will contact the SAS operator who will compile a list of unaccounted personnel. This list will be turned over to the Security Director, or Shift Engineer in his absence, for disposition.

NOTE

Normal clothing removal procedures shall be waived. Personnel wearing one layer of protective clothing shall remove only gloves and protective footwear when exiting from the radiation zone. Personnel wearing two layers of protective clothing, as required in highly contaminated areas, shall remove gloves, protective footwear and the outer layer of protective clothing. Hand and shoe counts and required personnel surveys should be omitted. Personnel exiting from radiation zones wearing protective clothing during an assembly should make every reasonable effort to avoid contaminating equipment, walls, floors, and other personnel.

3. Personnel will remain in these areas until the condition is corrected or instructed to move elsewhere.
4. If site evacuation is necessary, the Shift Engineer will designate the evacuation route and off-site assembly area, after consulting with the Technical Director, in accordance with QEP 360-3.
 - a. If a site evacuation is required, the names of non-essential personnel will be provided to the Security Director.

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5. Upon assembly at the relocation center, preplanned program of increased environmental sampling and a radiation survey of the environs are simultaneously initiated as required in the Generating Station Emergency Plan (GSEP). An estimate of the situation based on existing meteorological conditions, the results of the radiation survey, and the condition of the station is made. If, based on this estimate, it is determined that it is necessary to evacuate residents from the Low Population Zone, the GSEP Command Center Director notifies the Illinois ESDA and Iowa Office of Disaster Services in accordance with GSEP. The Station Director will also immediately notify the Rock Island County Communications Center (in Illinois) and the Scott County Sheriff's Office (in Iowa) if prompt off-site evacuation is needed.
6. The Rad/Chem Director will make provisions for monitoring personnel at the off-site relocation center, if needed.

G. CHECKLISTS

1. None.

H. TECHNICAL SPECIFICATION REFERENCES

1. None.

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SITE EVACUATION

QEP 360-3
Revision 2
February 1982

ID/2C

A. PURPOSE

The purpose of this procedure is to outline the method used to select the proper evacuation route from the site and the proper relocation center that will minimize personnel exposure based on meteorological conditions.

B. REFERENCES

1. QEP 360-2, Plant Evacuation and Assembly.
2. QEP 360-T2, Evacuation Routes and Wind Direction.
3. QEP 360-T3, Site Evacuation Routes.
4. QEP 360-T4, Evacuation Relocation Centers.
5. GSEP Section 6.4.1.

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C. PREREQUISITES

1. Radiation monitoring devices indicate that radiation from or within the station is such that permissible exposures will be exceeded.

D. PRECAUTIONS

1. None.

E. LIMITATIONS AND ACTIONS

1. An assembly and evacuation of onsite non-essential personnel should be initiated for a site area emergency or general emergency unless radiological conditions prohibit.

F. PROCEDURE

1. Determine the wind direction from either the control room indicator or from the station meteorological tower. Remember that the wind blows from that direction.
2. Refer to QEP 360-T2. Determine the site evacuation route to be used and the relocation center to be designated.
3. Refer to QEP 360-T3 and QEP 360-T4. Assign station personnel to aid in directing traffic along the proper evacuation route and to the designated location center.

4. When a site evacuation is imminent, the Security Director notifies by phone or dispatches a security guard to notify those personnel in building outside the protected area (Visitor Center, Warehouses, Wastewater Plant, Sewage Treatment Plant and Training Building). These personnel should evacuate the site as soon as possible using the prescribed route to the designated relocation center.

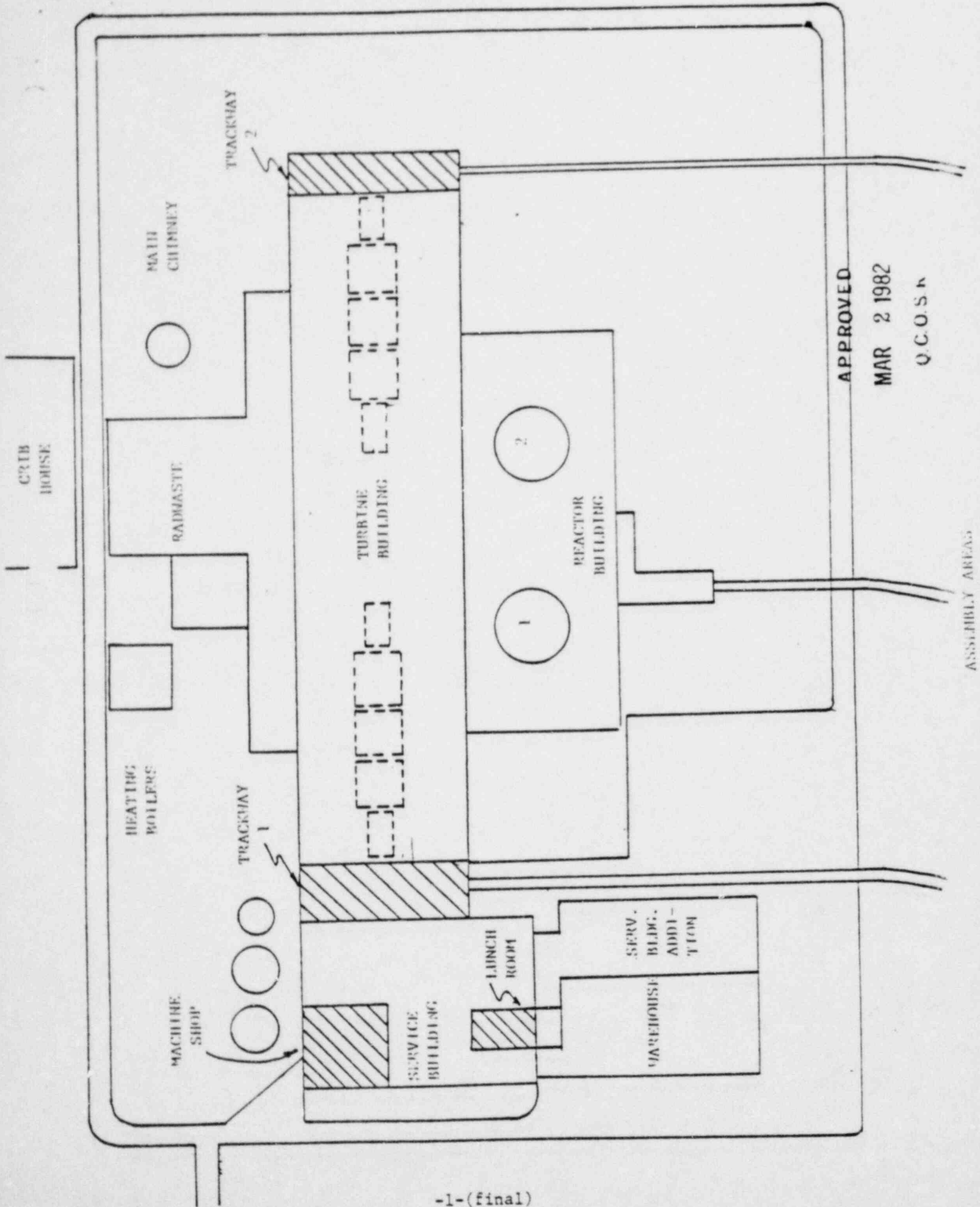
G. CHECKLISTS

1. None.

H. TECHNICAL SPECIFICATION REFERENCES

1. None.

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460 EMERGENCY
OPERATIONS FACILITY

<u>460-0</u> Emergency Operations Facility	Rev. 1	02-01-82
<u>460-1</u> Emergency Operations Facility Set-Up	Rev. 1	02-01-82
<u>460-T1</u> Emergency Operations Facility (Emergency Operations)	Rev. 1	02-01-82

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EMERGENCY OPERATIONS
FACILITY SET-UP

QEP 460-1
Revision 1
January 1982

ID/4X

A. PURPOSE

The purpose of this procedure is to aid the environs staff personnel in setting up the Emergency Operations Facility for initial use during an emergency.

B. REFERENCES

1. QEP 460-T1, Emergency Operations Facility (Emergency Operation).
2. QEP 550-T4, Emergency Operations Facility Supplies.
3. QEP 440-1, Emergency Communications Facilities.

C. PREREQUISITES

1. The Emergency Operations Facility will be initiated when deemed necessary by the Station Director.
2. The Emergency Off-Site Facility (EOF) may be set up prior to exercises and drills.
3. Upon the decision to initiate the EOF, the Environs Director will instruct the Environs Staff to set up the EOF to accommodate the Environs Staff's needs. The Environs Staff will immediately relocate to the EOF.
4. The Environs Director will instruct the Environs Field Teams to gather the appropriate supplies for Field Team duties, relocate to the EOF, and await further instructions.

D. PRECAUTIONS

1. This procedure is meant as a guide to the Environs Staff and may be deviated upon approval of the Environs Director or the Rad-Chem Director.
2. A key for the EOF may be obtained from the Shift Engineer.
3. Locations of phones and supplies in the EOF are described in QEP 460-T1.
4. If the EOF is locked up when the staff arrives, the lights must be turned on. The electrical breaker box is located in the furnace room. All breaker switches marked with blue dots must be switched to the "ON" position.

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E. LIMITATIONS AND ACTIONS

1. None.

F. PROCEDURE

1. Upon relocation to the EOF, communications with the TSC should be verified using the yellow phone, (reference QEP 460-T1). A regular telephone may be used, if the yellow phone is not functioning.
2. Connect the IBM terminal into the appropriate phone jack, plug into an electrical outlet, and turn the terminal on.
3. After verifying communications with the TSC, set up the GSEP radio by connecting it with the appropriate phone jack and plugging it into an outlet. Verify that the radio is in the "SCRAMBLE" mode, and test communications by contacting the TSC. At this time, the Environs Director may relocate to the EOF.
4. Upon arrival of the Environs Teams, test communications with their portable radios in the "SCRAMBLE" mode. Notify the TSC that the Environs Teams are ready to be dispatched.
5. Instruct one of the field teams to travel toward Iowa on a route dictated by the wind direction.
6. Set up tables for phone placement, (reference QEP 460-T1).
7. Connect the appropriate phones to the phone jacks distributed throughout the display room, (reference QEP 460-T1).
8. Test the IBM terminal for response using the instructions provided in the cabinet below the terminal.
9. Tape one film dosimeter and one zeroed pencil dosimeter outside the EOF, above the main doors. Verify presence of sampling supplies and dosimetry as described in QEP 550-T4.

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10. Prepare for information gathering by distributing the following to the tables described in QEP 460-T1:
 - T1 & T2 - GSEP Manual, Environmental Emergency Plans, Illinois Plan for Radiological Accidents, Environs map with pre-established sampling points, state map with pre-established sampling points, 2 pads of paper, pens, pencils.
 - T3 - Environs map with pre-established sampling points, state map with pre-established sampling points, bulletin board for map mounting, tacks, extra pens, pencils, various clerical supplies.
 - T4 - Paper, pens, pencils.
 - T5 - Paper, pens, pencils, NARF forms.
 - T6 - Film issuance log sheets, paper, pens, dosimetry supplies.
11. Set up easel near table T5 for recovery manager. Easels are in closet next to the projection room.
12. Conduct periodic dose rate and contamination surveys in the EOF and immediately surrounding area as deemed necessary by the Environs Director.
13. Assist the Environs Director as necessary.

G. CHECKLISTS

1. None.

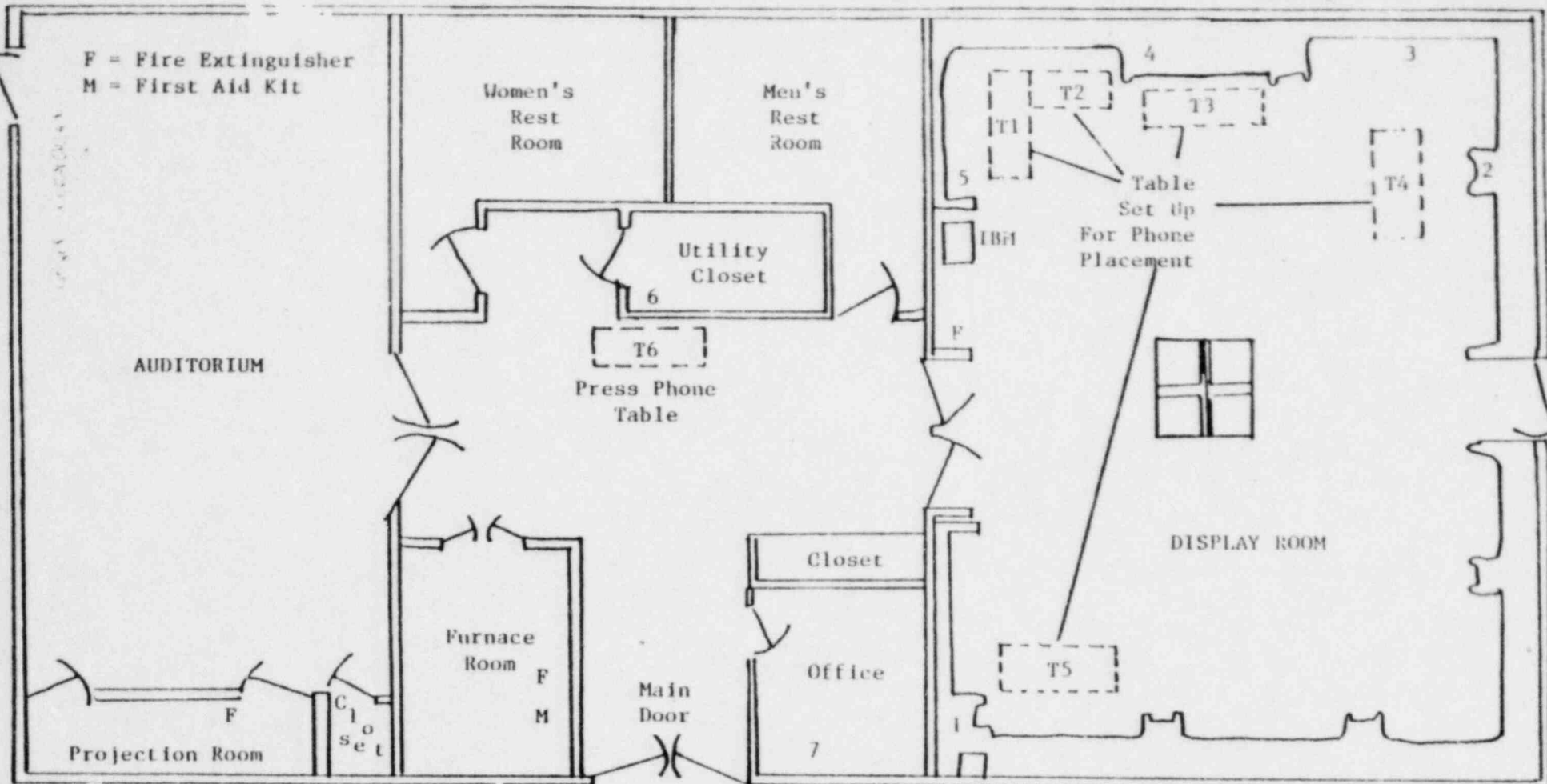
H. TECHNICAL SPECIFICATION REFERENCES

1. None.

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EMERGENCY OPERATIONS FACILITY (EMERGENCY OPERATION)

QEP 460-T1
Revision 1
January 1982



1. Phone storage, supply storage, GSEP radio storage, phone jacks: NARS, yellow phone to TSC, 654-2460
2. Phone jacks: 654-2745, 654-2772, 654-2529, 654-2241 ext. 483, 482, 481
3. Phone jacks: 654-2735
4. GSEP radio jack - KJC 684, folding tables, phone jacks: 654-2597
5. IBM terminal
6. Phone jacks: 654-2517, 654-2550, 654-2567, 654-2597
7. Phone jacks: 654-2662, 654-2241 ext 104, (319)-326-7360, NRC red phone, NRC health physics network

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