ENCLOSURE 1

Updates Included In This Submittal

DIABLO CANYON EMERGENCY PLAN
IMPLEMENTING PROCEDURES

Volume 3A

Updated Table of Contents
EP M-4, Revision 9

Volume 3B

Updated Table of Contents
EP OR-1, Revision 5

ENCLOSURE 2

Location of Proprietary Information

Procedure:

EP M-4 -- pp. 3, 6, and 11 of 50; Data Sheet "Post Earthquake Evaluation Summary", p. 1 of 1.

EP OR-1 -- Table 1, "Offsite Emergency Support Organization Phone List," pp. 1-9 of 9

ENCLOSURE 3

Updates to Diablo Canyon

Emergency Plan Implementing Procedures

CURRENT

EMERGENCY PLAN

IMPLEMENTING PROCEDURES

TABLE OF CONTENTS

Volume 3A

TABLE OF CONTENTS
(Continued)

## SCOPE

This procedure and changes thereto require PSRC review.

## GENERAL

Earthquakes affect the plant by producing ground motion causing plant buildings and equipment to be stressed by induced vibration. This vibration is defined by a spectrum consisting of acceleration, frequency and duration. The values of these parameters used in the design of the Diablo Canyon Plant are given in Section 3.7 of the FSAR. Instrumentation at the site measures and records acceleration frequency and duration, but only the maximum acceleration along three perpendicular axes is indicated. The seismic instrumentation which meets the requirements of Technical Specification Table 3.3-7 is described in Appendix 1. Only accelerations of greater than 0.01 g's on the containment base slab are recorded on the triaxial time-history accelographs.

For purposes of this procedure, earthquakes are classified by the maximum acceleration indicated by the triaxial accelerometer located on the containment base slab.

| Maximum Acceleration (g's) | DCPP Earthquake Classification | NUREG-0654 Classification Criteria | NUREG-0654 Action Level |
|---|---|---|---|
| Unmeasured to 0.01 | Micro | Not detected in plant. | None |
| 0.01 to 0.1 | Moderate | Detected or felt in plant | Unusual event |
| 0.1 to 0.2 | Strong | Detected | Unusual event |
| 0.2 to 0.6 | Large | Greater than OBE levels | Alert |
| Greater than 0.6 | Major | Greater than SSE levels | Site emergency |

Unmeasured to moderate earthquakes are expected at Diablo Canyon during the life of the plant. A strong, large or major earthquake is not expected. This is based on geological explorations and on the recorded seismic history of the site.

This procedure is to be followed in the event that an earthquake occurs which triggers the recording instruments or is felt in plant. In the event that damage occurs, follow the appropriate Emergency Operating Procedure to mitigate the consequences of the damage first, then follow this procedure for investigation of the plant for further damage and reporting. The operator response is graduated, based on the local acceleration indicated by the Earthquake Force Monitor (EFM) up to 0.5g or on the SMP-1 playback if greater than 0.5g.

MICRO EARTHQUAKE (Unmeasured to 0.01g)

Symptoms

1. The supplemental system (SS), Terra Technology DCS-302, is triggered but the basic system (BS) Kinemetrics SMA-3, is not triggered. This means alarm input no. 1186 is in alarm and alarm input no. 1112 is not in alarm on PK 15-24 ("Seismic Instr System").

   NOTE 1: If ground motion is felt "in-plant" by the operations staff, discontinue this section and go to the Moderate Earthquake section.

   NOTE 2: "In-plant" is inside the double fence (Plant Protected Area).

Automatic Actions

None expected.

Immediate Operator Actions

None.

Subsequent Actions

1. Subsequent Operator Action

   a. Notify the on-call Power Production Engineer (Nuclear),(EP G-2 Data Processor No. 2, on call rotation personnel), the next working day to retrieve the Supplemental System data.

   b. Document the activation of the Supplemental System with a Problem Report.

2. Subsequent Power Production Engineer Action

   a. Have the I&C department retrieve the data from the Supplemental Seismic Monitoring System.

      1) Perform a post-event calibration of the SS tapes.

      2) Make strip charts of the functional free field and trigger channels and others as directed by the Power Production Engineer (Nuclear).

      3) Install a new set of tapes in the SS recorder, at discretion of on-call Power Production Engineer (Nuclear).

      4) Perform pre-event calibration.

      5) Forward the strip charts and removed tapes to the on-call Power Production Engineer (Nuclear).

   b. Call the U.C. Berkeley Seismographic Station at [redacted] and obtain the epicenter location and magnitude of any earthquake which could account for the SS trigger. This recording is updated each weekday at 7:30 a.m. PST, and covers the previous 72 hour period.

      NOTE: If no earthquake was recorded by the Berkeley Station, it may be desirable to contact the California Institute of Technology (Cal Tech) Seismic Center at [redacted] for possible epicenter location and magnitude information.

c. Forward the strip charts and any information obtained from the Seismic Station to Civil Engineering, and request guidance as to the disposition of the SS tapes (i.e., erase and reuse, send to Terra Technology Corp., etc.).

d. Retain the SS tapes until directed by Civil Engineering as to their disposition.

MODERATE EARTHQUAKE 0.01g to 0.1g

Symptoms

1. Ground motion is felt "in-plant" (inside the double fence) by the Operations staff.

2. The "Seismic Instr System" annunciator is activated (PK 15-24).

3. The maximum acceleration on the containment base slab is indicated to be between 0.01 and 0.1g by the EFM.

Automatic Actions

None expected.

Immediate Operator Actions

1. Notify the Shift Foreman (Interim Site Emergency Coordinator).

2. Make a general survey of the Control Room instrumentation, with particular attention to annunciator and computer alarms, to verify that no apparent plant damage has occurred.

Subsequent Actions

1. Notify the shift CARP to make preparations for entering Containment to conduct a quick fire inspection.

2. General

   a. Establish the onsite emergency organization for an Unusual Event as specified in EP G-2 "Establishment of the Onsite Emergency Organization."

b. Notify offsite organizations as specified in EP G-3 "Notification of Offsite Organizations."

c. Instruct the on-call Power Production Engineer (Nuclear) (EP G-2 Data Processor No. 2, on-call rotation personnel) to come onsite and retrieve seismic data.

3. Subsequent Operator Action

a. If a unit trip has occurred, maintain the unit in HOT STANDBY (MODE 3) until the Plant Manager authorizes a return to power.

b. Within two hours following an earthquake exceeding 0.02g, inspect all zones listed in Technical Specification Table 3.3-11 for fires. (If the Kinemetrics SMA-3(BS) was not triggered, assume the earthquake to be less than 0.02g.)

NOTE: If a portion of the Fire Protection System is damaged by the earthquake, as indicated by visual inspection or flow annunciation, it should be isolated from the remainder of the system (see Appendix 3 for Fire Syster Isol. Valve numbers and locations).

c. Complete the "Post-Earthquake Level Indicator Check List," (Form 69-9249) and give it to the Shift Foreman.

d. The Unit(s) will be placed in HOT STANDBY if investigation reveals physical damage which could impair the operation of any Seismic Class I equipment.

4. Subsequent Power Production Engineer Action

NOTE: Sections a, d and f are not applicable if the Basic System has not triggered.

a. Contact the I&C Department to retrieve the seismic data from the Kinemetrics SMA-3 basic seismic monitoring system (BS). (See STP I-37C.)

1) Perform a post-event calibration of the BS tapes.

2) Replace the tape cassettes in the SMA-3 and perform a pre-event calibration.

3) Reset the EFM.

4) Play back the tapes removed from the SMA-3 on the SMP-1 and make strip charts.

5) Forward tapes and strip charts to the on-call Power Production Engineer (Nuclear).

b. Contact the I&C Department to retrieve additional seismic data from the supplemental seismic monitoring system.

1) Perform a post-event calibration of the SS tapes.

2) Install a new set of tapes in the SS recorder and perform a pre-event calibration.

3) Make strip charts of the functional free field, trigger, containment base slab and spring line channels.

4) Forward tapes and strip charts to the on-call Power Production Engineer (Nuclear).

c. Call the U.C. Berkeley Seismographic station at [redacted] and obtain the epicenter location and magnitude of the earthquake.

d. Upon receiving the Basic System tapes and strip charts:

1) Determine if the earthquake exceeds 0.02g. If so, immediately notify the Shift Foreman and commence an engineering evaluation of the fire detection instrumentation in accordance with Technical Specification 3.3.3.8, ACTION b. This evaluation may include the performance of applicable system functional tests, but must be completed within 72 hours following the earthquake.

2) Send a copy of the record play back to the Civil Engineering Department.

3) Retain the cassette tapes for further analysis.

e. Upon receiving the Supplemental System tapes and strip charts:

1) Determine the maximum containment base slab acceleration of the earthquake.

NOTE: If the Basic System did not trigger, and the maximum free-field acceleration from the Supplemental System is less than .01g, notify the Shift Foreman that the event may be downgraded to a Micro Earthquake.

2) Send a copy of the strip charts and the information obtained from the Berkeley Seismographic station to the Civil Engineering Department and request guidance as to the disposition of the SS tapes.

3) Retain the SS tapes until directed by Civil Engineering as to their disposition.

f. Notify I&C to contact Kinemetrics for an onsite recalibration of SMA-3 and SMP-1 equipment. This must be performed within five days following the initial event.

g. Gather local data in accordance with Appendix 1 Post Earthquake Checklist.

5. Close out with verbal summary to offsite authorities followed by a written summary to NRC within 24 hours. Document verbal summary on Form 69-9221, "Emergency Notification Record."

6. If the Basic System triggered, contact a Regulatory Compliance Engineer to prepare a Special Report in accordance with the requirements of Technical Specification 4.3.3.3.2, and document the notification in the Shift Foremans Log.

STRONG EARTHQUAKE (0.1 TO 0.2g)

Symptoms

1. The maximum acceleration on the containment base slab is indicated to be between 0.1g and 0.2g by the EFM.

2. The "Seismic Instr System" main annunciator is activated (PK 15-24).

3. The ground motion is strongly noticeable to operations personnel on shift.

Automatic Actions

The Unit may trip due to induced vibration or spurious relay actuation.

Immediate Operator Actions

1. Notify the Shift Foreman (Interim Site Emergency Coordinator).

2. Make a general survey of the instrumentation in the Control Room with particular attention to the main annunciator and computer alarms, to verify that no readily apparent plant damage has occurred.

Subsequent Actions

1. Notify the shift CARP to make preparations for entering Containment to conduct a quick fire inspection.

2. General

   a. Establish the onsite emergency organization for an Unusual Event as specified in EP G-2 "Establishment of the Onsite Emergency Organization."

   b. Notify offsite organizations as specified in EP G-3 "Notification of Offsite Organizations."

   c. Instruct at least two Power Production Engineers (Nuclear) (EP G-2 Data Processors No. 2 and 3, on call rotation personnel) to come to the plant to assist in the post-earthquake evaluation.

3. Subsequent Operator Action

   a. If a Unit has tripped, maintain the Unit in the HOT STANDBY condition until the Plant Manager authorizes a return to power.

b. Follow-up Investigation

The follow-up investigation involves the performance of various tests and inspections of the plant. As each check is completed, the appropriate check or data sheets should be forwarded to the Shift Foreman for his review. Since some of the surveillance tests will take a considerable period to complete, the Shift Foreman has been provided with a post-earthquake evaluation summary sheet for this procedure (Form 69-9248) to help keep track of the progress of the investigation.

1) Complete the "Post-Earthquake Level Indicator Check List" (Form 69-9249). Return it to the Shift Foreman.

2) Within two hours following the earthquake, inspect all zones listed in Technical Specification Table 3.3-11 for fires.

NOTE: If a portion of the Fire Protection System is damaged by the earthquake, as indicated by visual inspection or flow annunciation, it should be isolated from the remainder of the system (see Appendix 3).

3) Complete the following "Post-Earthquake Area Inspection Check Lists," checking all indicated areas for structural and equipment damage. When inspecting the various areas, pay particular attention to chipped paint at pipe restraints and hanger clamps indicating pipe movement; spauled grouting at equipment support anchors attached to walls or floors; concrete cracks, especially near equipment support anchors; damaged pipe snubbers as evidenced by leakage from hydraulic reservoirs and/or broken or bent hardware.

a) Containment (outside missile shield);

b) Containment (inside missile shield, if unit is shutdown);

c) Auxiliary Building (main area);

d) Auxiliary Building (penetration areas);

e) Fuel Handling Building (main area);

f) Fuel Handling Building (vent. equipment areas);

g) Turbine Building;

h) Outside areas;

i) Intake Structure.

The areas referred to on the check lists are shown on the plant drawings included as Attachment 1 to this procedure. Return the completed checklists to the Shift Foreman.

4) Complete the Post-Earthquake Surveillance Test Checklist (Form 69-9251). Forward all completed data sheets to the Shift Foreman.

5) Complete the Post-Earthquake Electrical Power Checklist (Form 69-9252). Forward completed data sheet to the Shift Foreman.

6) The Unit(s) will be placed in HOT STANDBY if investigation reveals physical damage which could impair the operation of any Seismic Class I equipment.

7) Contact a Regulatory Compliance Engineer to prepare a Special Report in accordance with the requirements of Technical Specification 4.3.3.3.2, and document the notification in the REMARKS section of the Post-Earthquake Evaluation Summary Sheet (Form 69-9248).

4. Subsequent Power Production Engineer Action

a. Contact the I&C Department to retrieve seismic data from the Kinemetrics SMA-3 basic seismic monitoring system (BS). (See STP I-37C.)

1) Perform a post-event calibration of the BS tapes.

2) Replace the tape cassettes in the SMA-3 and perform a pre-event calibration.

3) Reset the EFM.

4) Play back the tapes removed from the SMA-3 on the SMP-1, and make strip charts.

5) Forward the tapes and strip charts to the on-call Power Production Engineer (Nuclear).

b. Contact the I&C Department to retrieve additional seismic data from the supplemental seismic monitoring system.

1) Perform a post-event calibration of the SS tapes.

2) Play back and make strip chart records of all channels.

3) Install a new set of tapes in the SS recorder and perform a pre-event calibration.

4) Forward the SS tapes and strip charts to the on-call Power Production Engineer (Nuclear).

c. Call the U.C. Berkeley Seismographic station at [redacted] and obtain the epicenter location and magnitude of the earthquake.

d. Upon receiving the basic Syster tapes and play back records the PPE on call should:

1) Send a copy of the play back records to Civil Engineering.

2) Retain the cassette tapes for further analysis.

e. Upon receiving the Supplemental System tapes and strip charts the PPE on call should:

1) Send a copy of the strip charts and the information obtained from the Berkeley Seismographic station to Civil Engineering and request guidance as to the disposition of the SS tapes.

2) Retain the SS tapes until directed by Civil Engineering as to their disposition.

f. Notify I&C to contact Kinemetrics for an onsite recalibration of SMA-3 and SMP-1 equipment. This must be performed within <u>five days</u> following the initial event.

g. Gather local data in accordance with Appendix 1 Post Earthquake Checklist.

h. Commence an engineering evaluation of the fire detection instrumentation in accordance with Technical Specification 3.3.3.8, ACTION b. This evaluation may include the performance of applicable system functional tests, but must be completed within 72 hours following the earthquake.

5. Close out with verbal summary to offsite authorities followed by a written summary to NRC within 24 hours. Document verbal summary on Form 69-9221.

LARGE EARTHQUAKE (between 0.2g and 0.6g)

Symptoms

1. The "Seismic Instr System" main annunciator is activated (PK 15-24).

2. The maximum acceleration indicated by the Earthquake Force Monitor or the SMP-1 tape playback strip chart is greater than 0.2g but less than 0.6 g's.

3. Seismic reactor trip (PK 04-15).

Automatic Actions

1. The Unit may trip due to induced vibration.

2. Seismic Reactor trip at greater than or equal to 0.35g.

Immediate Operator Actions

1. Notify the Shift Foreman (Interim Site Emergency Coordinator).

2. Make a general survey of the instrumentation in the control room, with particular attention to the main annunciator and computer alarms, to verify that no readily apparent plant damage has occurred.

3. Begin appropriate action to place the unit(s) into HOT STANDBY on a controlled basis.

Subsequent Actions

1. Notify the shift CARP to make preparations for entering Containment to conduct a quick inspection for fires.

2. General

   a. Sound the Emergency Signal.

   b. Declare an ALERT.

   c. Establish the onsite emergency organization as specified in EP G-2 "Establishment of the Onsite Emergency Organization."

   d. Notify offsite personnel and agencies as specified in EP G-3 "Notification of Offsite Organizations."

3. 10CFR100 requires the unit be placed in a shutdown condition following earthquakes in excess of the OBE. Plant shutdown to COLD SHUTDOWN should commence at the direction of the Site Emergency Coordinator.

4. Subsequent Operator Action.

   a. Perform the same procedure as for a STRONG earthquake (0.1 to 0.2g).

5. Subsequent Power Production Engineer Actions

   a. Perform the same procedure as for a STRONG earthquake (0.1 to 0.2g).

6. Close out with verbal summary to offsite authorities followed by a written summary to NRC within 24 hours. Document verbal summary on Form 69-9221.

MAJOR EARTHQUAKE (GREATER THAN 0.6g's)

Symptoms

1. The "Seismic Instr System" main annunciator is activated (PK 15-24).

2. The maximum acceleration indicated by the earthquake force monitor is pegged at 50%g.

3. The maximum acceleration on the SMP-1 playback strip chart is greater than 0.6 g's.

4. Seismic reactor trip (PK 04-15).

Automatic Actions

Seismic reactor trip.

Immediate Operator Actions

1. Check reactor(s) tripped and unit(s) in HOT STANDBY. If not, trip reactor(s) manually.

2. Notify the Shift Foreman (Interim Site Emergency Coordinator).

3. Make a general survey of the instrumentation in the control room, with particular attention to the main annunciator and computer alarms, to verify that no readily apparent plant damage has occurred.

Subsequent Actions

1. Notify shift CARP to make preparations for entering Containment to conduct a quick inspection for fires.

2. General

   a. Sound site emergency signal.

   b. Declare a SITE EMERGENCY.

   c. Establish the onsite emergency organization as specified in EP G-2 "Establishment of the Onsite Emergency Organization."

   d. Notify offsite personnel and agencies as specified in EP G-3 "Notification of Offsite Organizations."

3. 10CFR100 requires the unit be placed in a shutdown condition following earthquakes in excess of the OBE. Plant shutdown to COLD SHUTDOWN should commence at the direction of the Site Emergency Coordinator.

4. Subsequent Operator Actions

   a. Perform the same procedure as for a STRONG earthquake (0.1 to 0.2g).

5. Subsequent Power Production Engineer Actions

   a. Perform the same procedure as for a STRONG earthquake (0.1 to 0.2g).

6. Close out with verbal summary to offsite authorities followed by a written summary to NRC within 24 hours. Document verbal summary on Form 69-9221.

REFERENCES

1. 10 CFR 100, Appendix A, Section VI (a) (3).

2. AEC Regulatory Guide 1.12, "Instrumentation for Earthquakes."

3. ANSI Standard N18.5, "Earthquake Instrumentation Criteria for Nuclear Power Plant."

4. Diablo Canyon FSAR, Section 3.7.

5. PGandE Drawing No. 443296, "Seismic Instrumentation."

6. PGandE Drawing No. 452417, "Diagram of Connections, Seismic Instrumentation System."

7. "Seismic Instrumentation System," PGandE Record Dwg. File No. 683697.

8. NUREG-0610, "Draft Emergency Action Level Guidelines for Nuclear Power Plants," September 1979.

ATTACHMENTS

1. Form 69-9221, "Emergency Notification Record", 3/82.

2. Form 69-9248, "Post-Earthquake Evaluation Summary", 9/84.

3. Form 69-9249, "Post-Earthquake Level Indicator Check Lists", 9/84 (10 pages).

4. Form 69-9250, "Post-Earthquake Area Inspection Check Lists", 4/84 (10 pages).

5. Form 69-9251, "Post-Earthquake Surveillance Check List", 4/84.

6. Form 69-9252, "Post-Earthquake Electrical Power Check List", 9/84.

7. Form 69-10291, "Data Sheets for Peak Shock Recorders S/N 701, 710, 728", 9/84.

8. Form 69-9283, "Data Sheet for Engdahl Peak Acceleration Recorder", 9/84.

# APPENDIX 1

## SEISMIC INSTRUMENTATION DESCRIPTION AND POST EARTHQUAKE CHECKLIST

### DESCRIPTION

1. General

There are three types of seismic sensors: 1) Engdahl peak shock records; 2) Engdahl peak acceleration recorders, and 3) Kinemetrics triaxial accelerometers. The different sensors are provided at plant locations as shown on PGandE drawing 443296, 443043, and 443044.

| INSTRUMENTS AND SENSOR LOCATIONS | MEAS. RANGE | NO. OF INSTR. | DWG. DESIG. |
|---|---|---|---|
| 1. Triaxial Response-Spectrum Recorders (Engdahl) | | | |
| a. Containment Base Slab, El. 69, 180° | 1.6-90g 2-25.4 Hz | 1 | 6 |
| 2. Triaxial Peak Accelographs (Engdahl) | | | |
| a. Containment Base Slab, El. 89, 180° | ±2g | 1 | 3b |
| b. Top Unit 1 Containment, El. 303.5, 225° | ±5g | 1 | 3a |
| c. Intake near ASW Pump 1-2 Bay, El. 2 | ±2g | 1 | 3f |
| d. Turbine Building, El. 85, Machine Shop | ±2g | 1 | 3e |
| e. Auxiliary Building, El. 140, Hot Shop | ±2g | 1 | 3k |
| f. Auxiliary Building, El. 140, near Control Room Door | ±2g | 1 | 3m |
| 3. Triaxial Time-History Accelographs (Kinemetrics) | | | |
| a. Unit 1 Containment Base Slab, El. 89, 180° | ±1g | 1 | 1b |

| INSTRUMENTS AND SENSOR LOCATIONS | MEAS. RANGE | NO. OF INSTR. | DWG. DESIG. |
|---|---|---|---|
| b. Top Unit 1 Containment, El. 303.5, 225° | ±2g | 1 | 1a |
| c. Auxiliary Building, El. 64 | ±1g | 1 | 1p |

2. Triaxial Response - Spectrum Recorders (Engdahl)

Each of these units contains twelve spring steel reeds of different lengths and weights. A diamond-tipped stylus is attached to the free end of each reed. A flat plate is mounted adjacent to each stylus such that in the event of an earthquake, the vibrating stylus inscribes a permanent record of its deflection on the plate. Since each reed has a different resonant frequency, this arrangement provides the earthquake acceleration (as measured by reed displacement) at twelve different frequencies.

There are actually three individual shock recorder units on the containment base slab with one unit oriented along the three perpendicular (x, y, z) axes.

3. Triaxial Peak Accelerographs or Peak Acceleration Recorder (Engdahl PAR's)

The accelerograph records by scribing a line on the surface of a record plate. Three record plates are included in each unit, oriented along the three perpendicular axes. The lines are inscribed by a contact diamond stylus, one for each axis. The peak acceleration is measured as the maximum deflection from the zero baseline.

4. Triaxial Time - History Accelerographs (Kinemetrics)

Each triaxial accelerometer unit contains three accelerometers oriented along the three perpendicular axes. Each accelerometer is a damped spring-mass device which is fed to a mechanical-electrical transducer. The signals from the accelerometers are fed to one or both of two units (see Figure 1). The first is a SMA-3 magnetic tape cassette recording system. This system has a starter unit which automatically starts the cassettes at a present level (0.01 g) and shuts it off when the acceleration drops below this level (the unit is then ready for a succeeding earthquake). The tapes can be played back on a SMP-1 playback which is rack mounted with the SMA-3 unit. This provides a strip chart record of the acceleration.

The base slab accelerometer output also goes to an earthquake force monitor unit (EFM-1), which simply contains three indicators (one each axis) which read out in percent of g. The indicator pointer is held at its maximum reading until reset, so peak acceleration can be determined.

APPENDIX 1 (Continued)

POST-EARTHQUAKE CHECK

NOTE: Spare cassettes and plates are stored in the chart room adjacent to the control room.

1. Replace the cassettes in the SMA-3 recording system following the retrieval instructions on page 9 of Record No. 683697-15. Insure that a post-earthquake calibration is put on tape before removal. Play back the cassettes and record the peak acceleration. Since the SMA-3 is a higher class instrument than EFM-1, base subsequent action on the peak "base-slab" acceleration recorded by the SMA-3 if this reading is greater than the EFM-1. Keep the strip charts with the other records of the quake. Send the cassettes to the Supervising Nuclear Generation Engineer in the Department of Nuclear Plant Operations with instructions to pass on to the Civil Engineering Department.

   If the indicated acceleration on the EFM is 0.5 g's, determine the actual peak acceleration from unit containment base slab as follows:

   a. Play back the tapes on position #1 of the play back recorder gain selector switch.

   b. Find the highest peak (either positive or negative) for the highest acceleration.

   c. Convert to g's. The scaling on this range is ±1.0g full scale when the playback recorder gain selector switch is on position #1. The scaling for switch position 2 is ±0.5 g's full scale; for switch position #4, ±0.25 g's full scale; for switch position #10, ±0.1 g's full scale.

   d. To convert to g's for recordings made from the accelograph atop Unit 1 containment, scaling would be as follows: playback recorder gain selector switch position #1 - ±2.0 g full scale; selector switch position #2 - ±1.0g full scale; switch position #4 - ±0.5 g full scale; switch position #10 - ±0.2 g full scale.

2. If the maximum acceleration indicated by the earthquake force monitor is greater than 0.1g, replace the recording plates in the Engdahl peak shock recorders (PSR's) and peak acceleration recorders (PAR's).

APPENDIX 1 (Continued)

3. Measure to the nearest hundredth of an inch the length of the scribe marks (maximum distance of the scratched record from the zero line) on each plate from the peak shock recorder using the magnifying scale provided. Record the length of the scribe on the appropriate attached data sheet noting the recorder serial number and the reed number. Convert the scribe length in inches to the equivalent static acceleration by multiplying by the acceleration sensitivity. Record this value on the data sheet. Forward one copy of the data sheet, as well as the plates, to the Department of Nuclear Plant Operations for transmittal to the Civil Engineering Department. Retain each original copy for the plant records.

4. When removing or installing PAR record plates, use the following procedure.

   a. Remove the record access plugs from the PAR housing.

   b. Remove or install the PAR record plates.

   CAUTION: It is important not to move the scribe arms of the PAR in the measurement axis direction while removing or installing PAR record plates. This will avoid false indications on the record plates.

   c. Record the serial numbers of all PAR record plates and corresponding PAR location following removal on the data sheet.

   d. Record the time and date of removal on the PAR record plates and data sheet.

5. Measure, to the nearest thousandth of an inch, the length of the scribe mark (maximum distance of the scratched record from the zero line) on each record plate from the PAR"s using the magnifying scale provided. Record the length of the scribe on the appropriate attached data sheet noting the PAR number and the record plate serial numbers. Convert the scribe length, in inches, to the equivalent static acceleration by multiplying by the acceleration sensitivity of the PAR. Record this value on the data sheet. Forward one copy of the data sheet, as well as the PAR record plates, to the Department of Nuclear Plant Operations, Supervising Nuclear Generation Engineer, for transmittal to the Civil Engineering Department. Retain the original copy for the plant records.

The nominal acceleration sensitivities for Engdahl PAR's model number PAR400-1 (2g) and PAR400-2 (5g) are 10 g/inch and 25 g/inch, respectively.*

*Based on a nominal full scale deflection of 0.200 inches.

APPENDIX 1 (Continued)

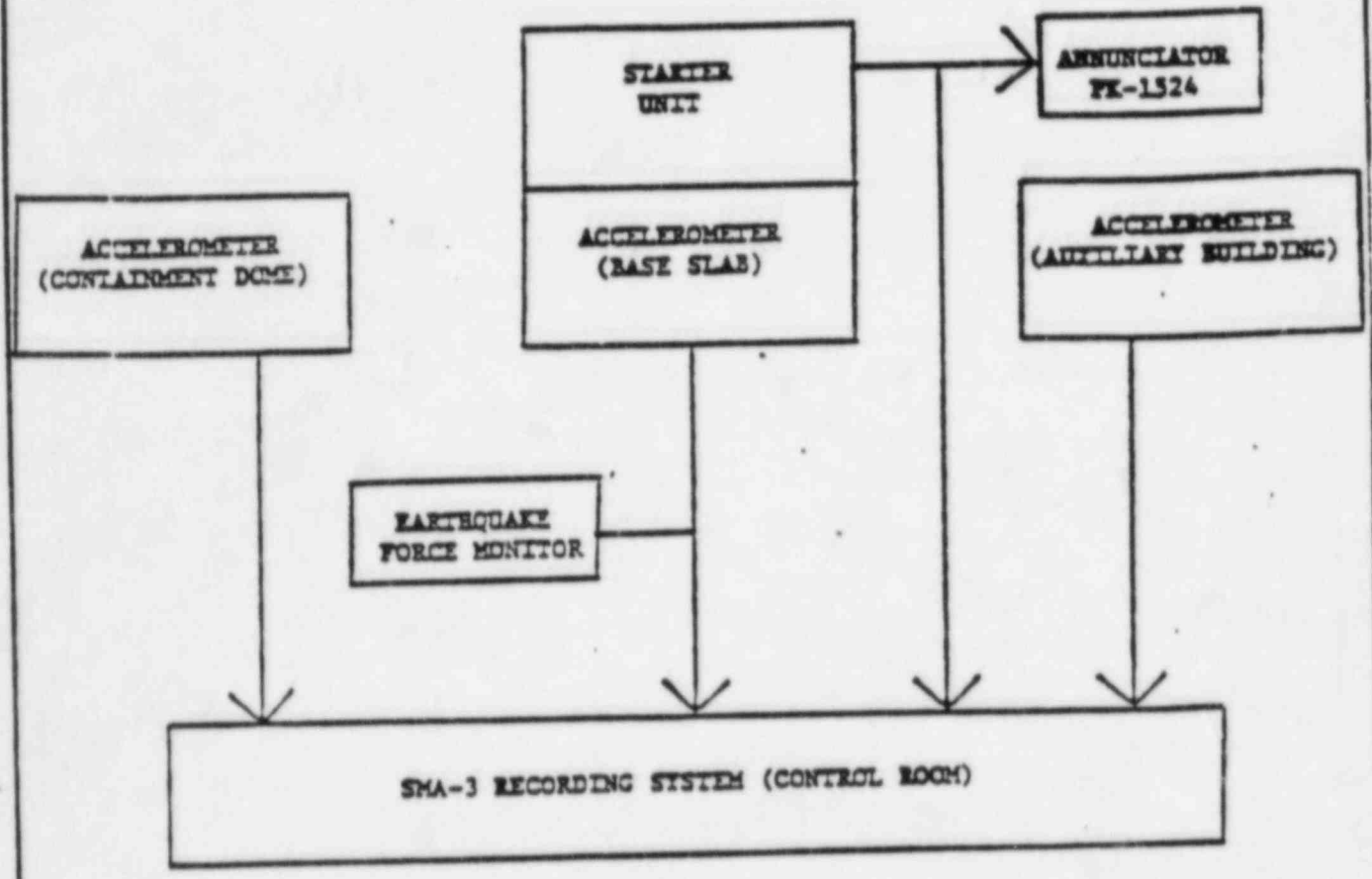



FIGURE 1
BLOCK DIAGRAM OF KINEMETRICS ACCELEROMETER UNITS

## APPENDIX 2

## SUPPLEMENTAL SEISMIC SYSTEM (Terra Technology DCS-302)

### Locations of Detectors

Table A2-1

| Recorder No. | Max. g | Unit | Location | Elev. (Ft.) | CHANNEL ORIENTATION 1 | 2 | 3 |
|---|---|---|---|---|---|---|---|
| 1-1 | 1 | 1 | Containment NW. | 89 | Vert. | 120 | 30 |
| 1-2 | 1 | 1 | Containment NE. | 89 | Vert. | 240 | 150 |
| 1-3 | 2 | 1 | Containment NNW. | 140 | Vert. | 180 | 90 |
| 1-4 | 2 | 1 | Containment SSE. | 140 | Vert. | 0 | 270 |
| 2-1 | 1 | 1 | Containment Base,S. | 89 | Vert. | 0 | 270 |
| 2-2 | 3 | 1 | Containment NE. (springline) | 231 | Vert. | 60 | 330 |
| 2-3 | 3 | 1 | Containment S. (springline) | 231 | Vert. | 180 | 90 |
| 2-4 | 1 | 1 | Containment Cntr. | 91 | -- | -- | Vert. |
| | 2 | 1 | Containment S. | 140 | 90 | 180 | -- |
| 3-1 | 2 | 1 | Containment W. | 140 | 180 | 90 | -- |
| 3-2 | 3 | 1 | Containment NW. (springline) | 231 | Vert. | 300 | 210 |
| 3-3 | 1 | 1 | Auxiliary Bldg. 9.7-U | 100 | Vert. | 0 | 270 |
| 3-4 | 1 | 1 | Auxiliary Bldg. 18-H | 100 | Vert. | 270 | 180 |
| 4-1 | 1 | 1 | Auxiliary Bldg. 18-U | 100 | Vert. | 90 | 0 |
| 4-2 | 1 | 2 | Turbine Bldg. 35-D* | 85 | Vert. | 180 | 90 |
| 4-3 | 1 | 2 | Containment N. | 89 | Vert. | 90 | -- |
| | 1 | 1 | Turbine Bldg. 1-D | 140 | -- | -- | 0 |
| 4-4 | 1 | 2 | Containment SE. | 89 | Vert. | 210 | -- |
| | 1 | 1 | Turbine Bldg. 1-D | 140 | -- | -- | 270 |

APPENDIX 2 (continued)

SUPPLEMENTAL SEISMIC SYSTEM (Terra Technology DCS-302)

Locations of Detectors

Table A2-1

| Recorder No. | Max g | Unit | Location | Elev. (Ft.) | CHANNEL ORIENTATION 1 | 2 | 3 |
|---|---|---|---|---|---|---|---|
| 5-1 | 1 | 2 | Containment SW. | 89 | Vert. | 330 | -- |
| 5-2 | 1 | 1 | Turbine Bldg. 1-D | 85 | Vert. | 0 | 270 |
| 5-3 | 1 | FF | Raw Water Reservoir | Grnd. | Vert. | 0 | 270 |
| 5-4 | 1 | FF | Meteorological Tower | Grnd. | Vert. | 90 | 0 |
| 6-1 | 1 | FF | G.C. Warehouse | Grnd. | Vert. | 180 | 90 |

* NOTE: Channel Orientation is azimuths from plant north (which is 23° counter-clockwise from the north).

APPENDIX 3
POST EARTHQUAKE FIRE SYSTEM ISOLATION VALVES
(Reference P&ID's 102018 and 108018 & OVID 106718)

| Operating Valve ID No. | P&ID SHT No | OVID SHT No | OVID Coord | System/Area |
|---|---|---|---|---|
| FP-0-20 | 3 | 3 | 32-B | Pkg. Blr. O-1 & O-2 Rm. Fire Sys. Isolation (Isol.) |
| FP-0-19A | 3 | 3 | 32-B | Pkg. Blr. O-1 Samp. Cooler Isol. |
| FP-0-304 | 3 | 3 | 36-B | Fire Pp. O-1 Mini Recirc 1st Off |
| FP-0-305 | 3 | 3 | 35-B | Fire Pp. O-1 Mini Recirc 2nd Off |
| FP-0-302 | 3 | 3 | 36-C | Fire Pp. O-2 Mini Recirc 1st Off |
| FP-0-303 | 3 | 3 | 35-C | Fire Pp. O-2 Mini Recirc 2nd Off |
| FP-1-42 | 4 | 4 | 40-B | Unit 1 Turbine Building (T/B) N. Sprinkler Heater Isol. |
| FP-1-50 | 4 | 4 | 44-B | Unit 1 T/B So. Spr. Header Isol. |
| FP-2-59 | 4 | 4 | 46-B | Unit 2 T/B N. Spr. Header Isol. |
| FP-2-66 | 4 | 4 | 49-B | Unit 2 T/B So. Spr. Header Isol. |
| FP-1-44 | 4 | 4 | 40-B | Unit 1 T/B Loop Dividing Valve |
| FP-1-49 | 4 | 4 | 44-B | Unit 1 T/B Loop Dividing Valve |
| FP-1-332 | 5 | 6 | 61-E | Aux. Bldg. Units 1 and 2 - 100' Elev/ Unit 1 FH Bldg - 100' Elev/Aux. FW Pp. 1-1 Spr. Sys. Isol. |
| FP-1-335 | 5 | 6 | 61-D | Unit 1 Area GE/GW Elev. 115' Spr. Sys. Isol. |
| FP-1-338 | 5 | 6 | 62-D | Unit 1 Area GE/GW Elev. 100' Spr. Sys. Isol. |

POST EARTHQUAKE FIRE SYSTEM ISOLATION VALVES
(Reference P&ID's 102018 and 108018 & OVID 106718)
(Page 2)

| Operating Valve ID No. | P&ID SHT No | OVID SHT No | OVID Coord | System/Area |
|---|---|---|---|---|
| FP-1-341 | 5 | 6 | 63-C | Unit 1 Aux. Bldg. Fan Rm & Cont. Rm. HVAC Equip. Rm. Spr. Sys. Isol. |
| FP-1-30 | 5 | 6 | 61-C | Unit 1 Aux. Bldg. Serv. Wtr. Isol. (from Hose Reel Header) |
| FP-1-32 | 5 | 6 | 60-C | Unit 1 Aux. Bldg. Serv. Wtr. Isol. (from Aux. Bldg. Fire Loop) |
| FP-1-37 | 5 | 6 | 62-E | Chemical Lab. Rm. Spr. Sys. Isol. |
| FP-1-346 | 5 | 6 | 61-B | Unit 1 Charging, CCW Pps. Spr. Sys. Isol. |
| FP-2-352 | 5 | 6 | 67-E | Unit 2 FH Bldg. 100' Elev. Spr. Sys. Isol. |
| FP-2-860 | N/S* | 6 | 67-E | Aux. FW Pp. 2-1 Spr. Sys. Isol. |
| FP-2-861 | N/S* | 6 | 65-C | Unit 2 Area GE/GW Elev. 100' Spr. Sys. Isol. |
| FP-2-30 | 5 | 6 | 66-D | Unit 2 Area GE/GW Elev. 115' Spr. Sys. Isol. |
| FP-2-359 | 5 | 6 | 68-D | Security Diesel Spr. Sys. Isol. |
| FP-2-857 | 5 | 6 | 66-C | Unit 2 Serv. Wtr. Isol. from Fire Line Elev. 140' (1st Off) |
| FP-2-32 | 5 | 6 | 66-C | Unit 2 Aux. Bldg. Serv. Wtr. Isol. (from Unit 2 Aux. Bldg. Fire Loop) |
| FP-2-349 | 5 | 6 | 67-B | Unit 2 Charging, CCW Pps. Spr. Sys. Isol. |

* Not Shown.

POST EARTHQUAKE FIRE SYSTEM ISOLATION VALVES
(Reference P&ID's 102018 and 108018 & OVID 106718)
(Page 3)

| Operating Valve ID No. | P&ID SHT No | OVID SHT No | OVID Coord | System/Area |
|---|---|---|---|---|
| FP-1-177 | 7 | 8 | 88-A | Unit 1 Containment (Cont.) Fire Water Sys. Manual Isol. |
| FP-1-193 | 7 | 8 | 85-D | Unit 1 RCP 1-1 Spr. Sys. Isol. |
| FP-1-203 | 7 | 8 | 83-D | Unit 1 RCP 1-2 Spr. Sys. Isol. |
| FP-1-189 | 7 | 8 | 82-C | Unit 1 RCP 1-3 Spr. Sys. Isol. |
| FP-1-184 | 7 | 8 | 84-B | Unit 1 RCP 1-4 Spr. Sys. Isol. |
| FP-1-181-A | 7 | 8 | 85-B | Vent Line #1 Isol. off Unit 1 Cont. Fire Water Header |
| FP-1-197 | 7 | 8 | 84-D | Vent Line #3 Isol. off Unit 1 Cont. Fire Water Header |
| FP-1-188-A | 7 | 8 | 83-B | Vent Line #2 Isol. off Unit 1 Cont. Fire Water Header |
| FP-2-864 | 7 | 8A | 81A-B | Unit 2 Cont. Fire Water Sys. Manual Isol. |
| FP-2-891 | 7 | 8A | 84A-D | Unit 2 RCP 2-1 Spr. Sys. Isol. |
| FP-2-883 | 7 | 8A | 86A-D | Unit 2 RCP 2-2 Spr. Sys. Isol. |
| FP-2-880 | 7 | 8A | 87A-C | Unit 2 RCP 2-3 Spr. Sys. Isol. |
| FP-2-874 | 7 | 8A | 85A-B | Unit 2 RCP 2-4 Spr. Sys. Isol. |
| FP-2-870 | 7 | 8A | 84A-B | Vent Line #1 Isol. off Unit 2 Cont. Fire Water Header |
| FP-2-877 | 7 | 8A | 86A-B | Vent Line #2 Isol. off Unit 2 Cont. Fire Water Header |
| FP-2-887 | 7 | 8A | 85A-D | Vent Line #3 Isol. off Unit 2 Cont. Fire Water Header |

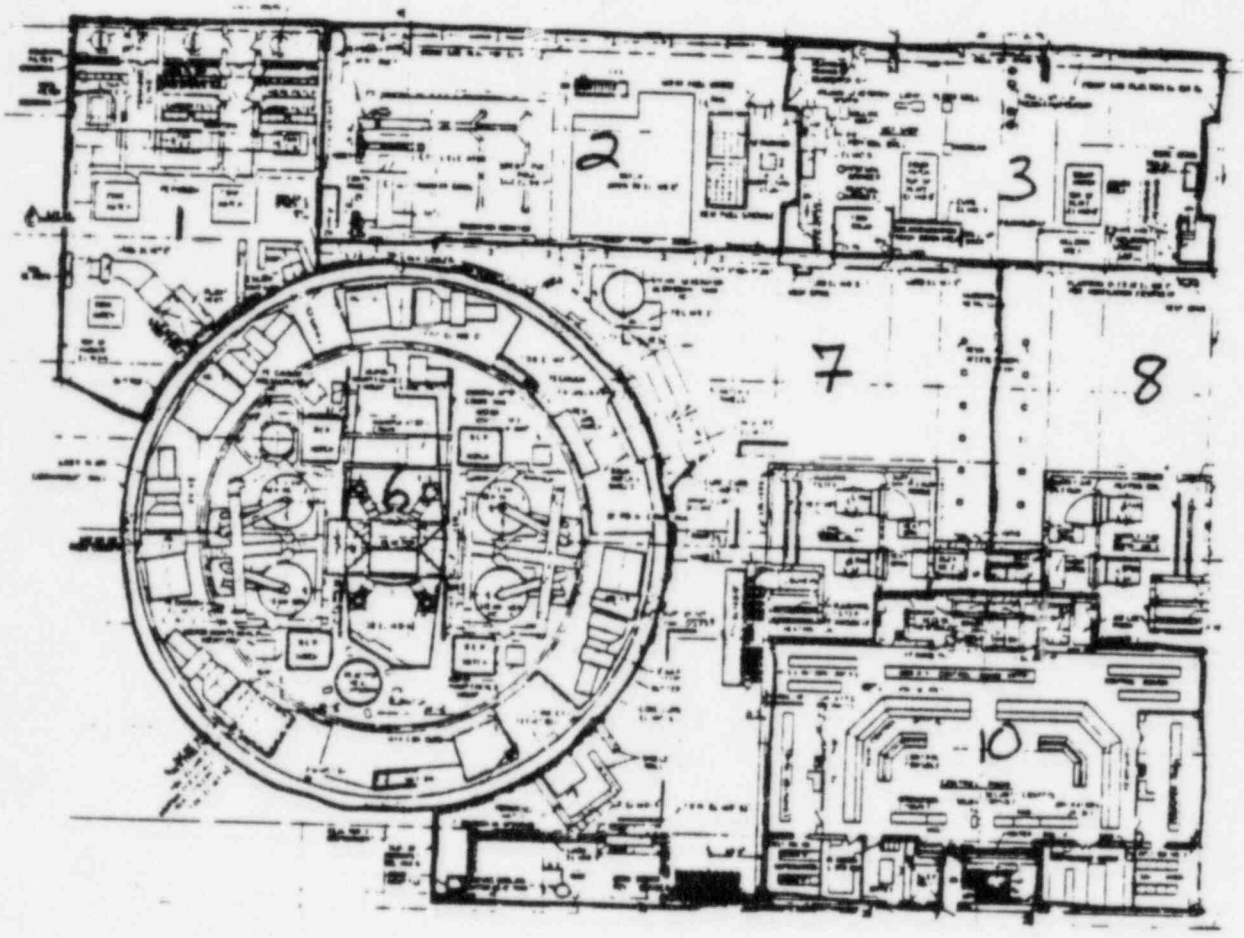
POST EARTHQUAKE FIRE SYSTEM ISOLATION VALVES
(Reference P&ID's 102018 and 108018 & OVID 106718)
(Page 4)

| Operating Valve ID No. | P&ID SHT No | OVID SHT No | OVID Coord | System/Area |
|---|---|---|---|---|
| FP-1-24 | 5 | 6 | 60-E | Temp Unit 2 Isol. *** |
| FP-2-27 | 5 | 6 | 66-E | Temp Unit 2 Isol. *** |
| FP-2-26 | 5 | 6 | 63-C | Temp Unit 2 Isol. *** |
| FP-2-345 | 7 | 6 | 67-E | Temp Unit 2 Isol. |

*** To be removed from list when Unit 2 goes on-line.

ATTACHMENT 1

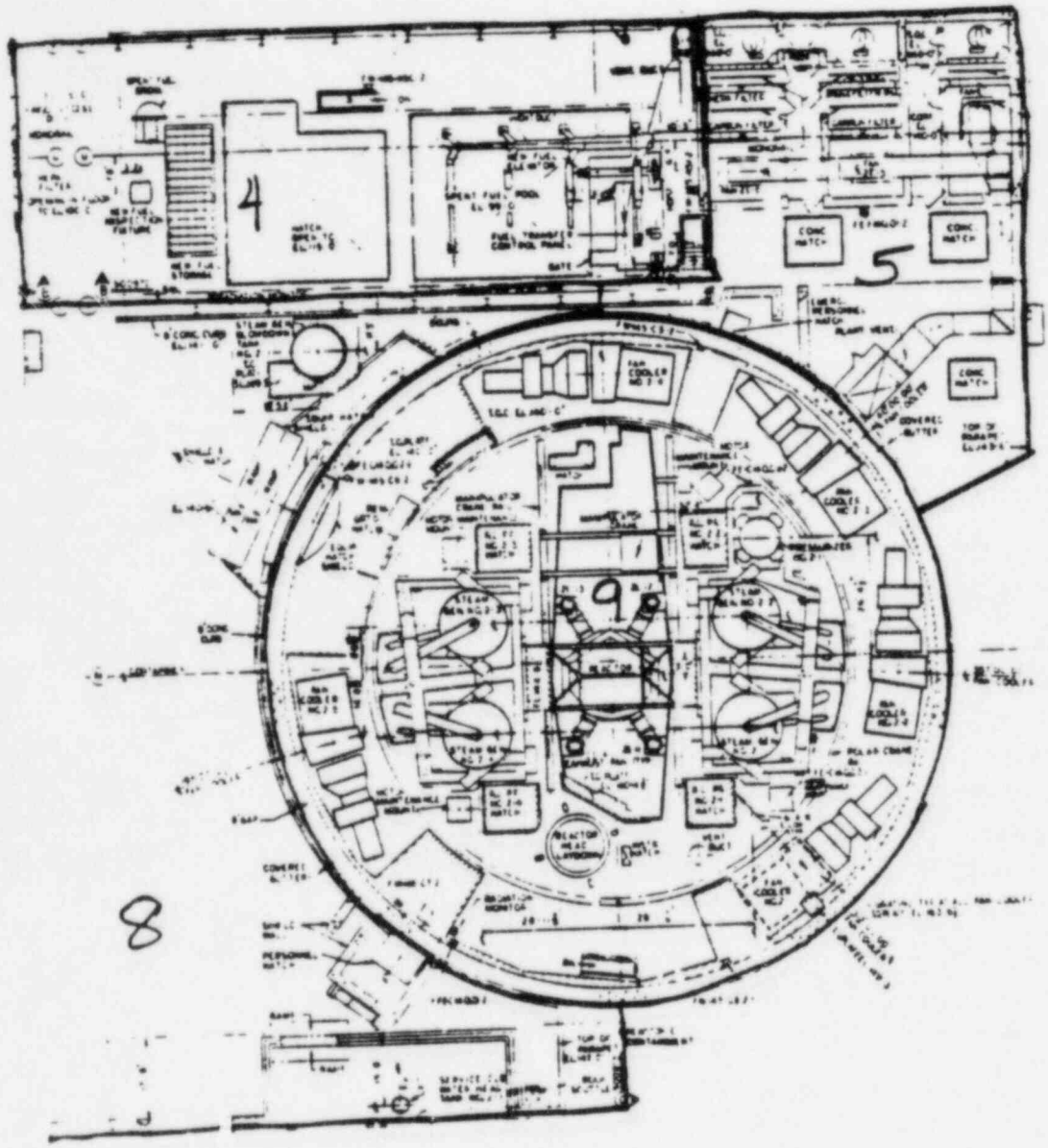
POST-EARTHQUAKE INSPECTION AREA IDENTIFICATION




10A - ROOF AREA AND EQUIPMENT ABOVE CONTROL ROOM (ELEV. 167')

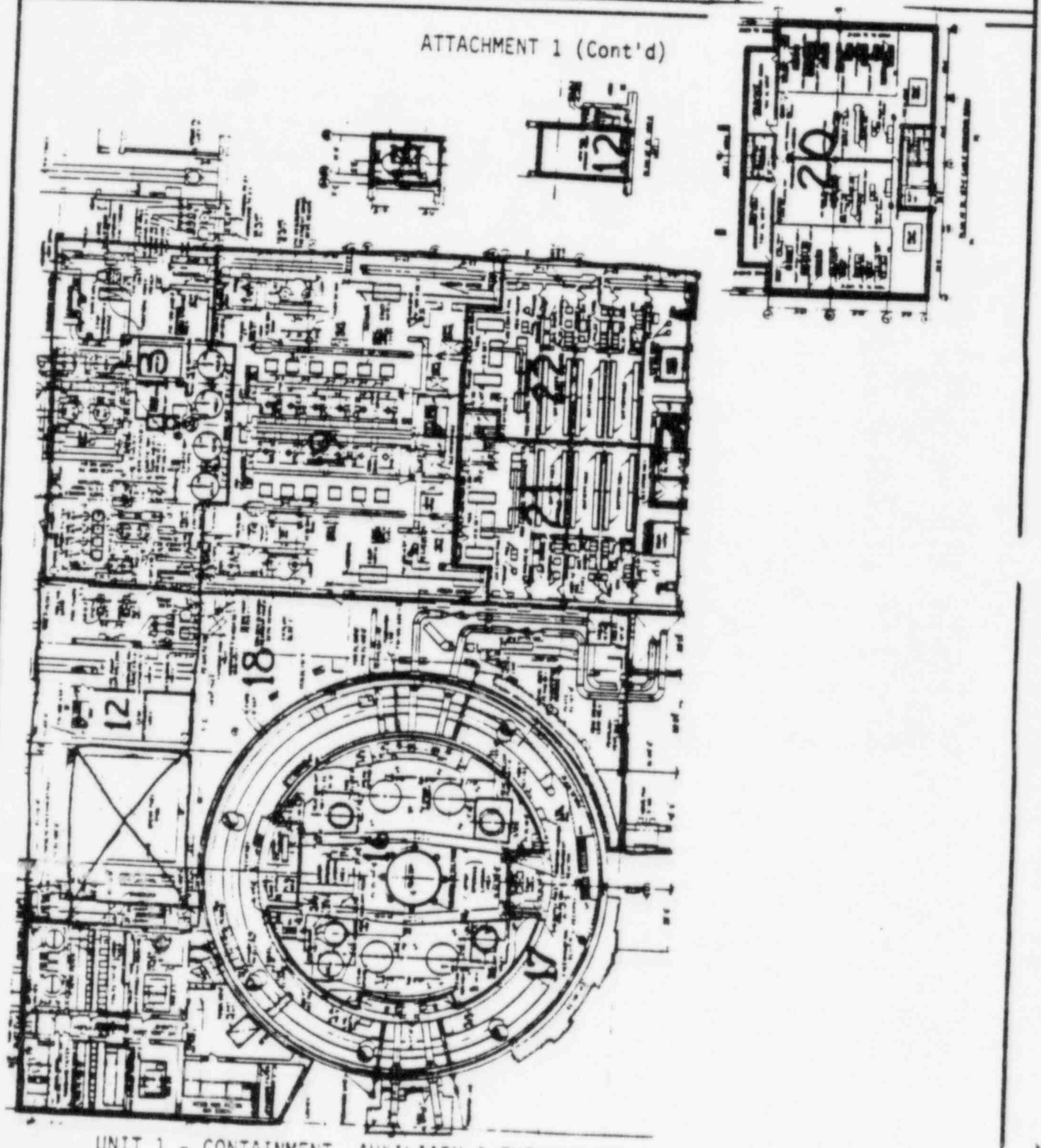
UNIT 1 - CONTAINMENT, AUXILIARY & FUEL HANDLING BUILDINGS, ELEV. 140'

ATTACHMENT 1 (Cont'd)



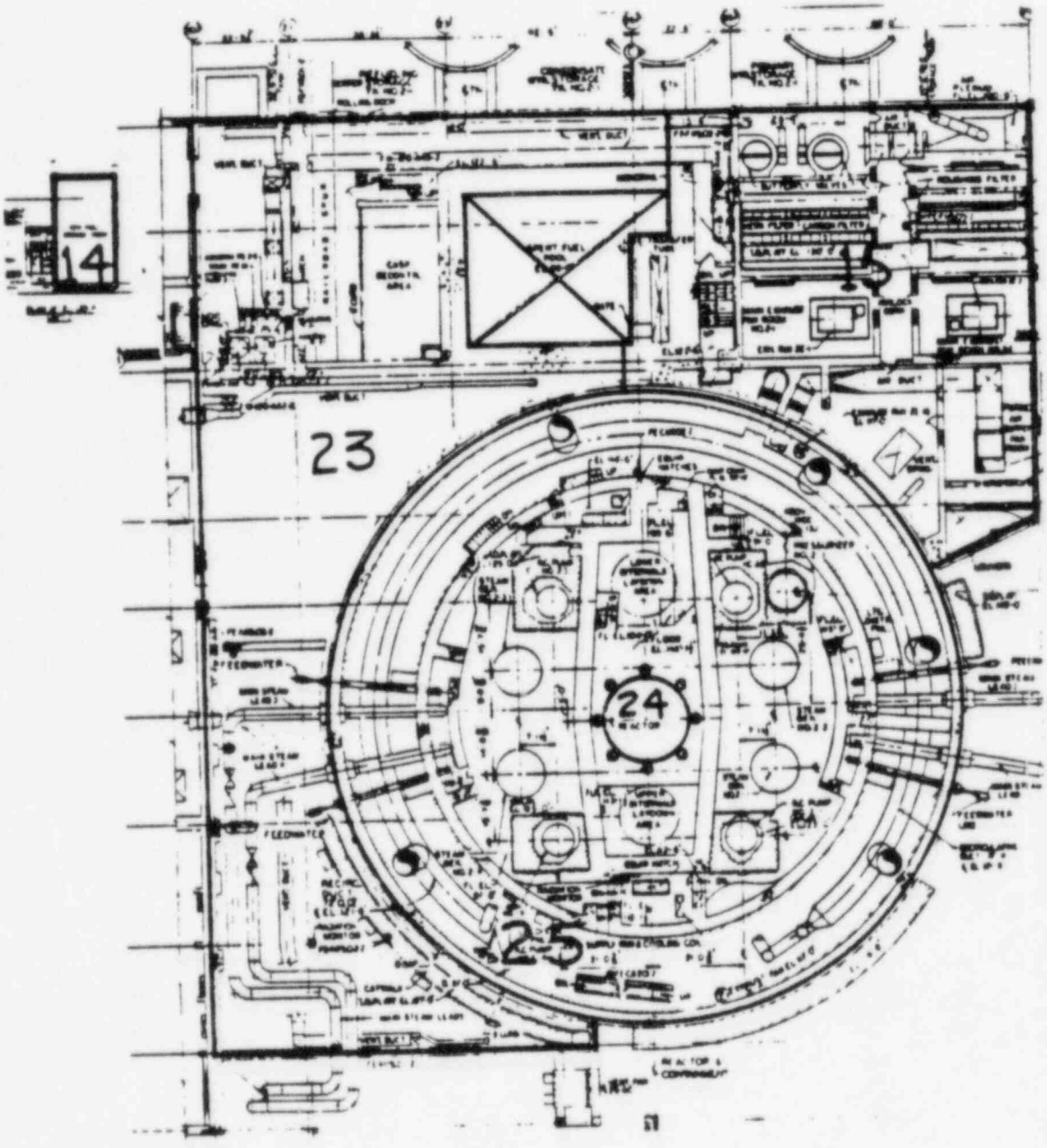

UNIT 2 - CONTAINMENT & FUEL HANDLING BUILDING, ELEV. 140'

ATTACHMENT 1 (Cont'd)



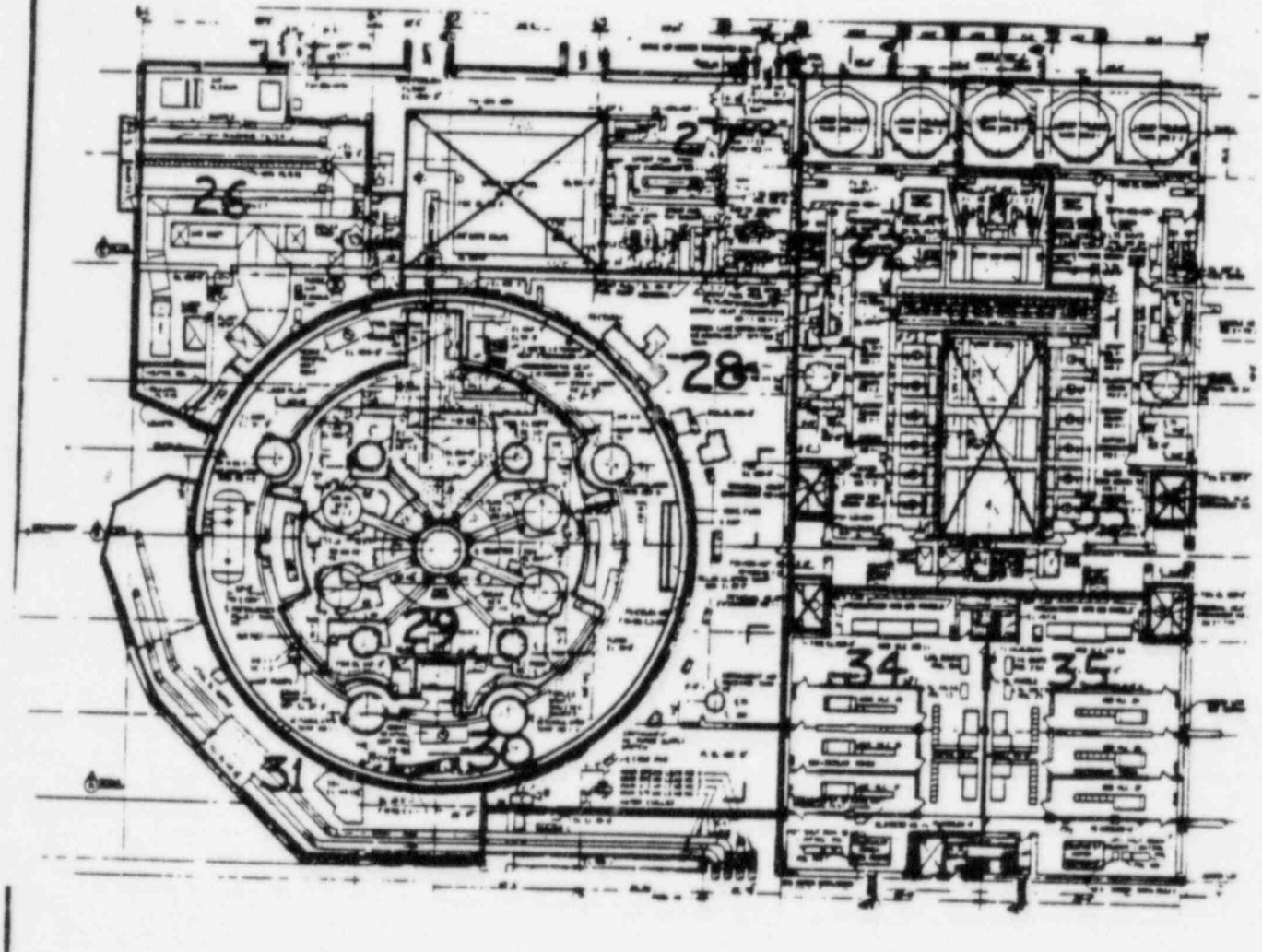

UNIT 1 - CONTAINMENT, AUXILIARY & FUEL HANDLING BUILDINGS, ELEV. 115'

ATTACHMENT 1 (Cont'd)




UNIT 2 - CONTAINMENT & FUEL HANDLING BUILDINGS, ELEV. 115'

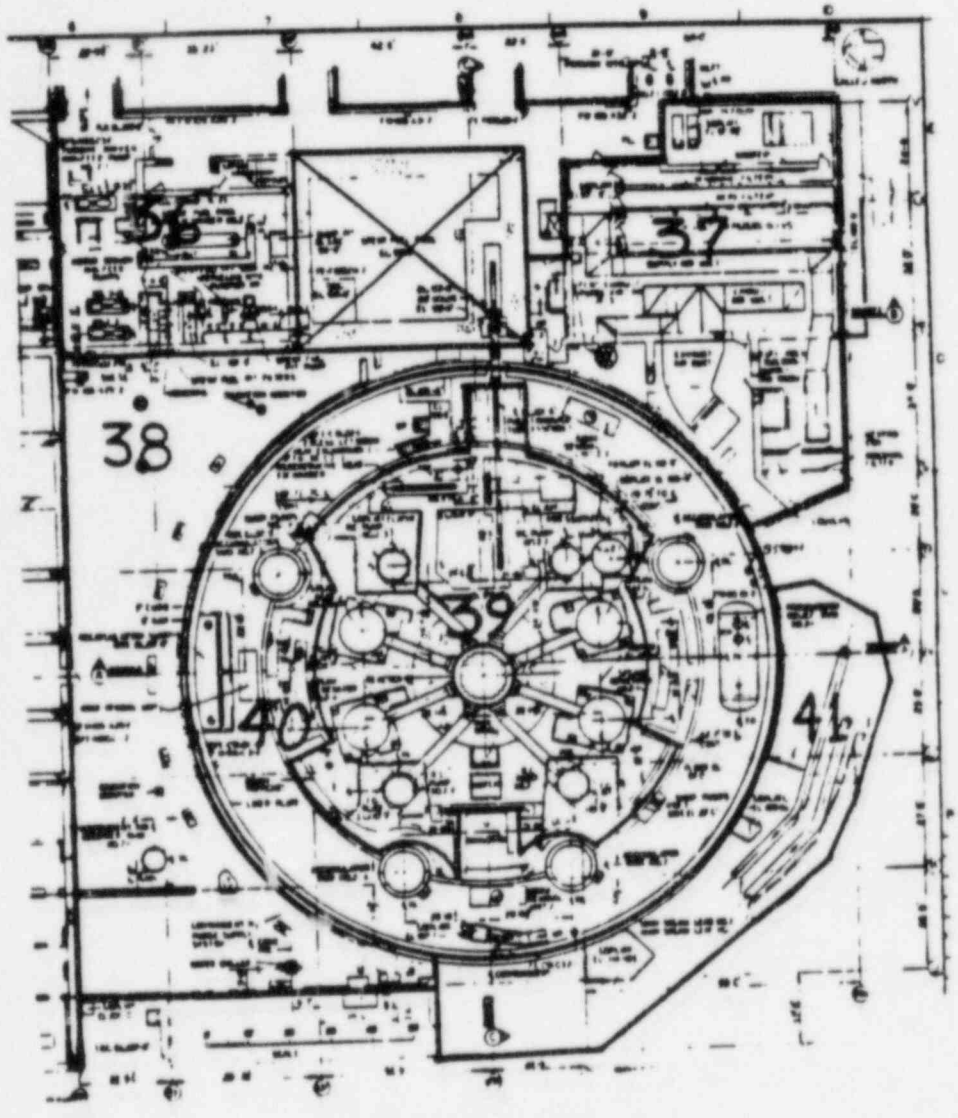
ATTACHMENT 1 (Cont'd)




UNIT 1 - CONTAINMENT, AUXILIARY & FUEL HANDLING BUILDING, ELEV. 91' & 100'

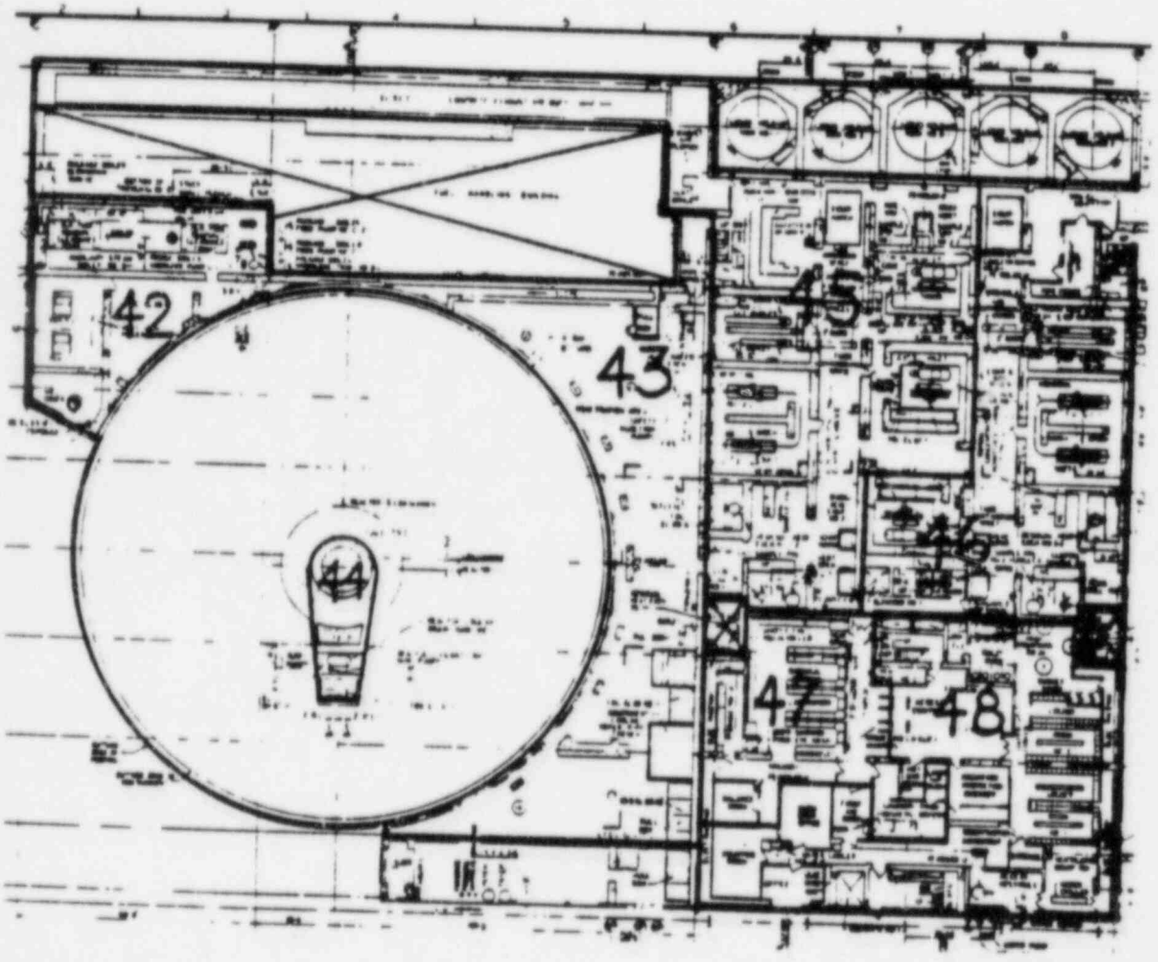
DC0036 26IV

ATTACHMENT 1 (Cont'd)



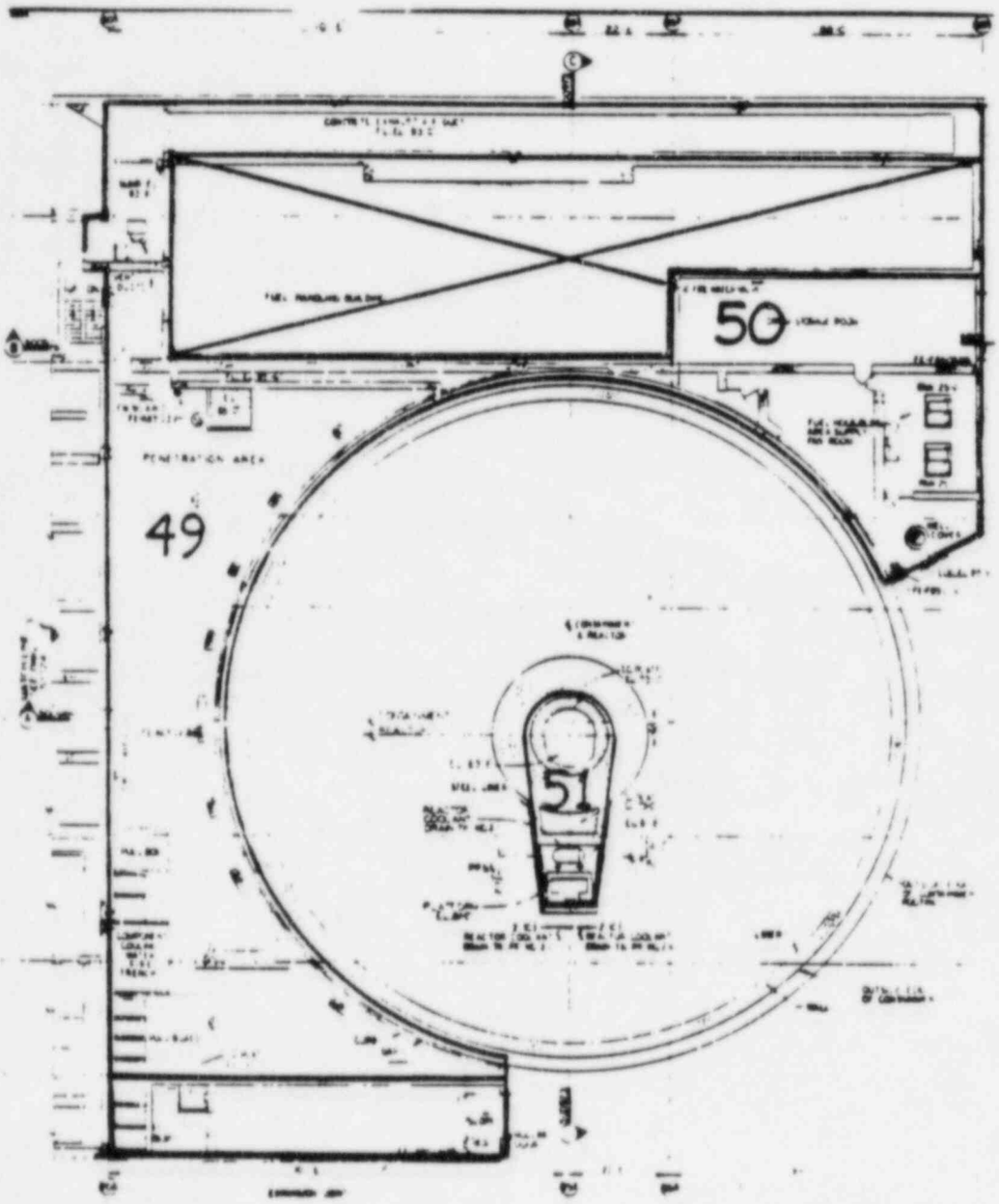

UNIT 2 - CONTAINMENT & FUEL HANDLING BUILDING, ELEV. 85', 91', & 100'

ATTACHMENT 1 (Cont'd)



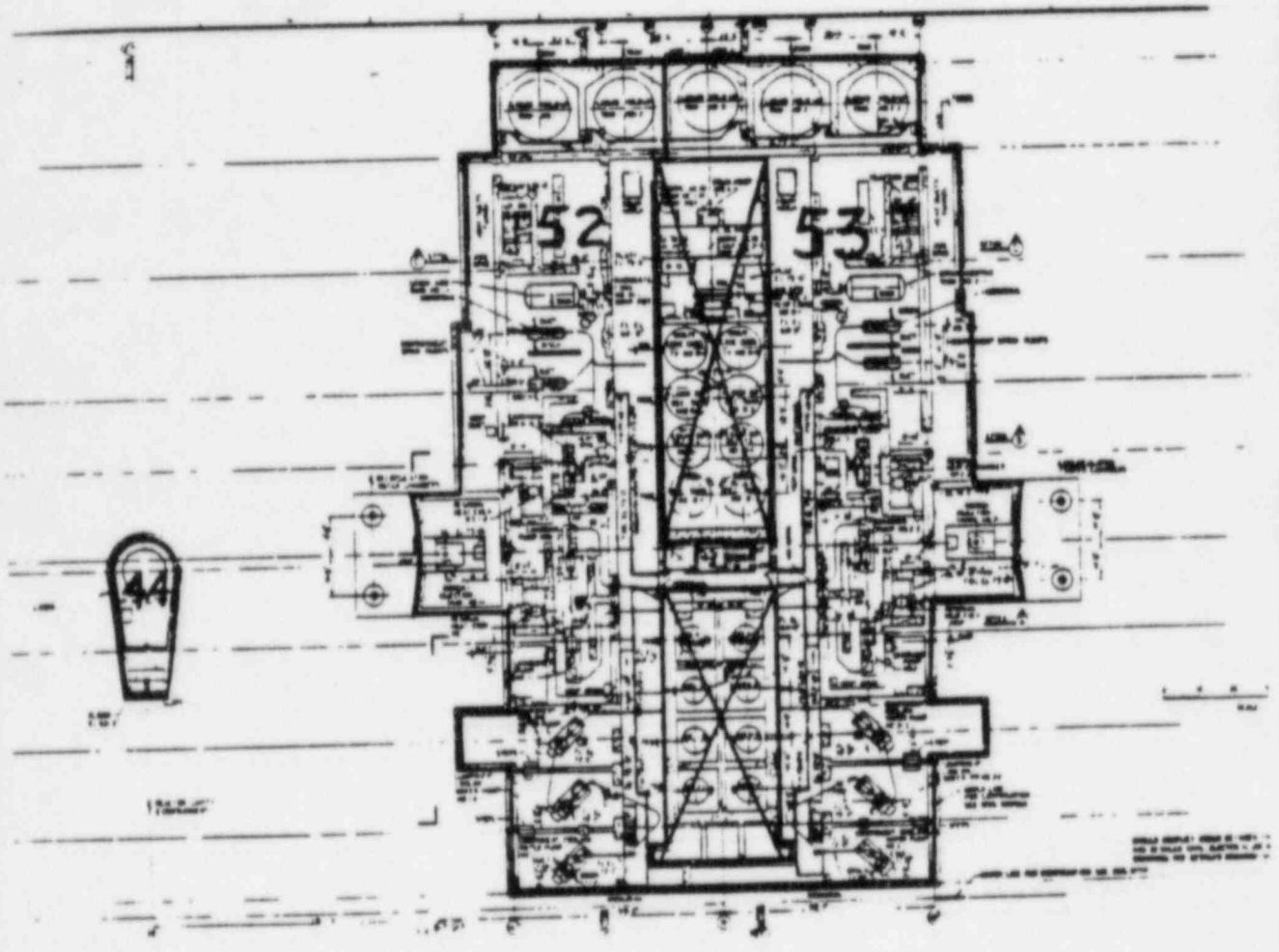

UNIT 1 - CONTAINMENT & AUXILIARY BUILDING, ELEV. 85'

ATTACHMENT 1 (Cont'd)



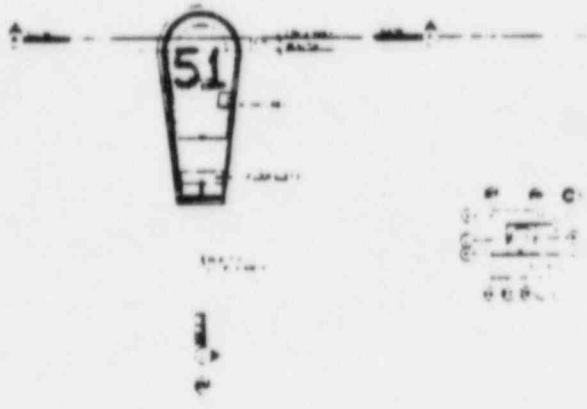

UNIT 2 - CONTAINMENT & FUEL HANDLING BUILDING, ELEV. 85'

ATTACHMENT 1 (Cont'd)



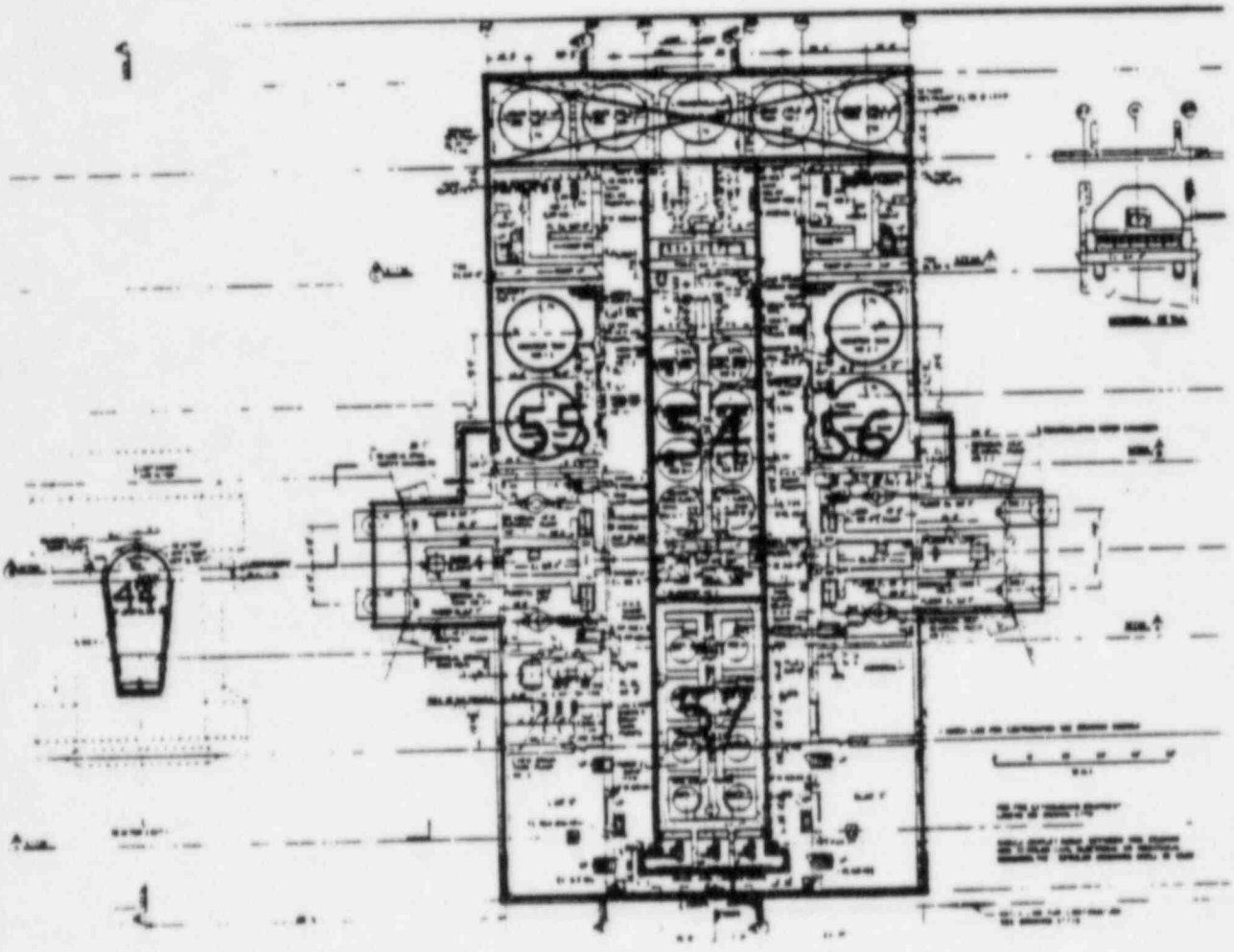

UNIT 1 - CONTAINMENT & AUXILIARY BUILDING, ELEV. 73'

ATTACHMENT 1 (Cont'd)



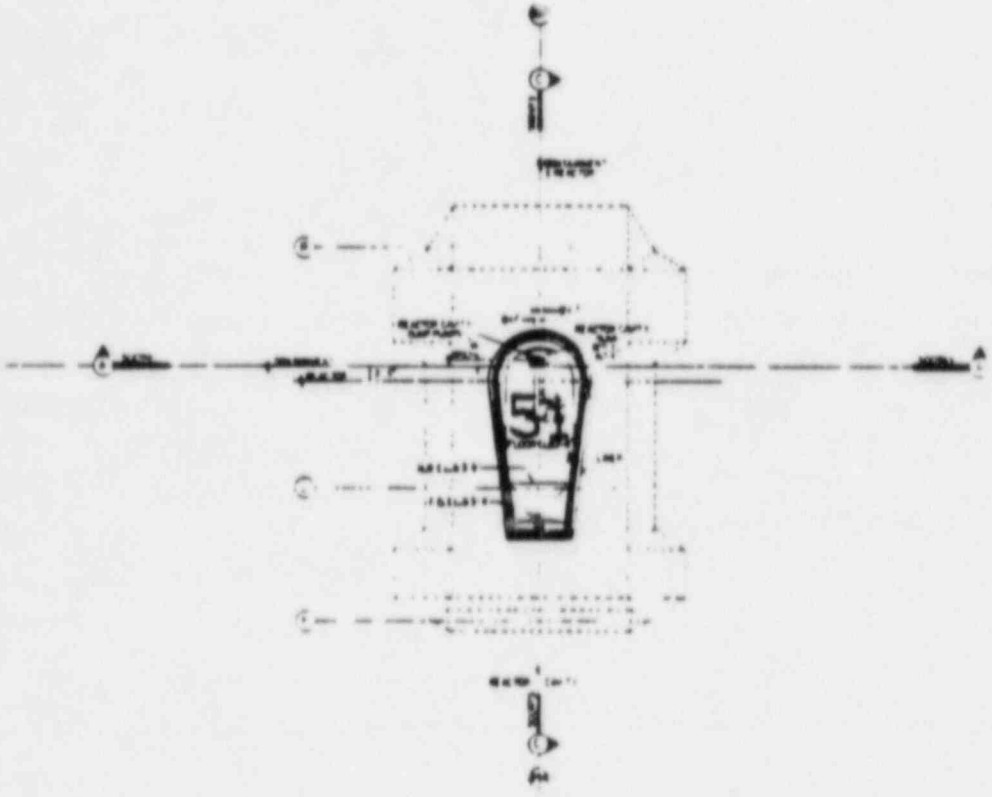

UNIT 2 - CONTAINMENT, ELEV. 61', 61' & 73'

ATTACHMENT 1 (Cont'd)



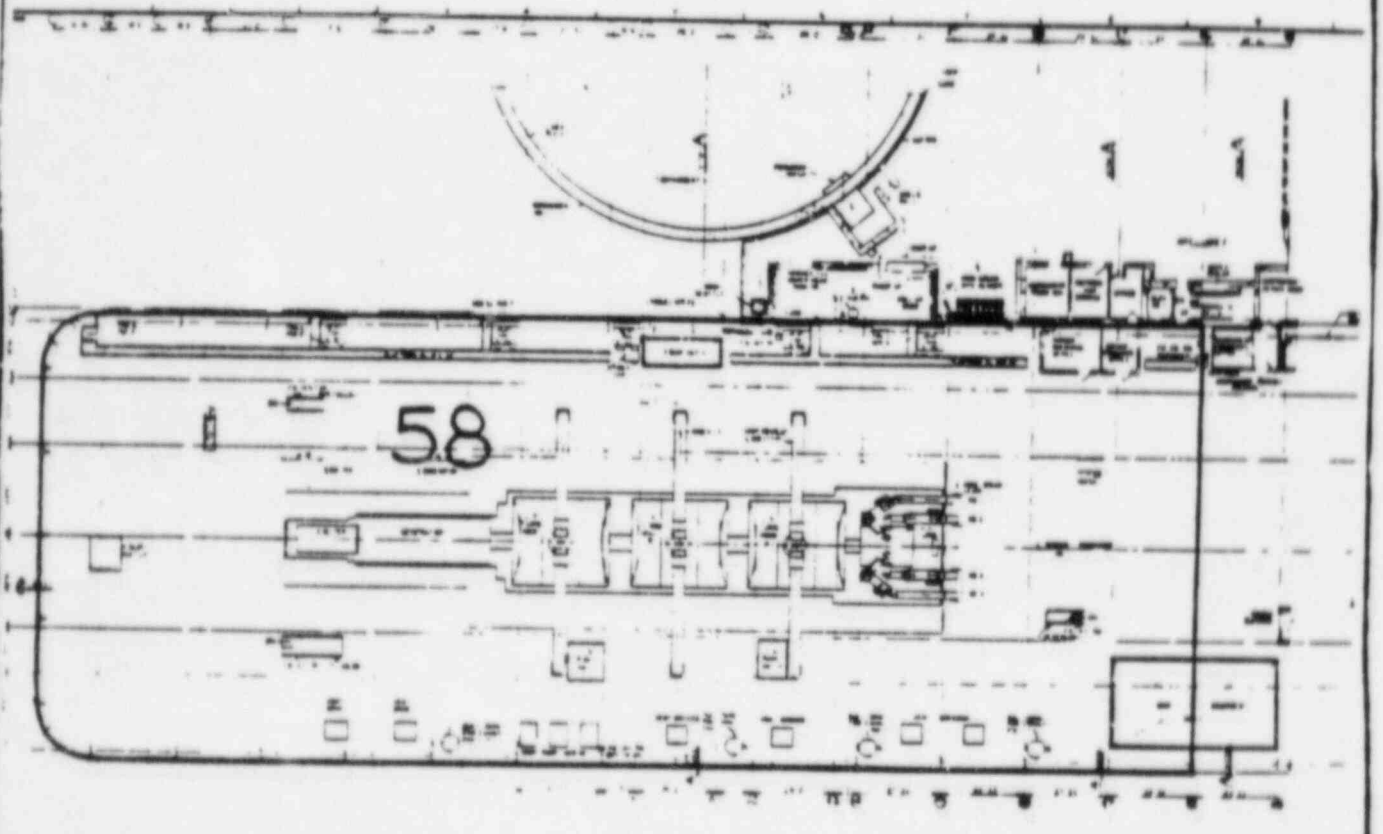

UNIT 1 - CONTAINMENT & AUXILIARY BUILDINGS, ELEV. 60' & 64'

ATTACHMENT 1 (Cont'd)



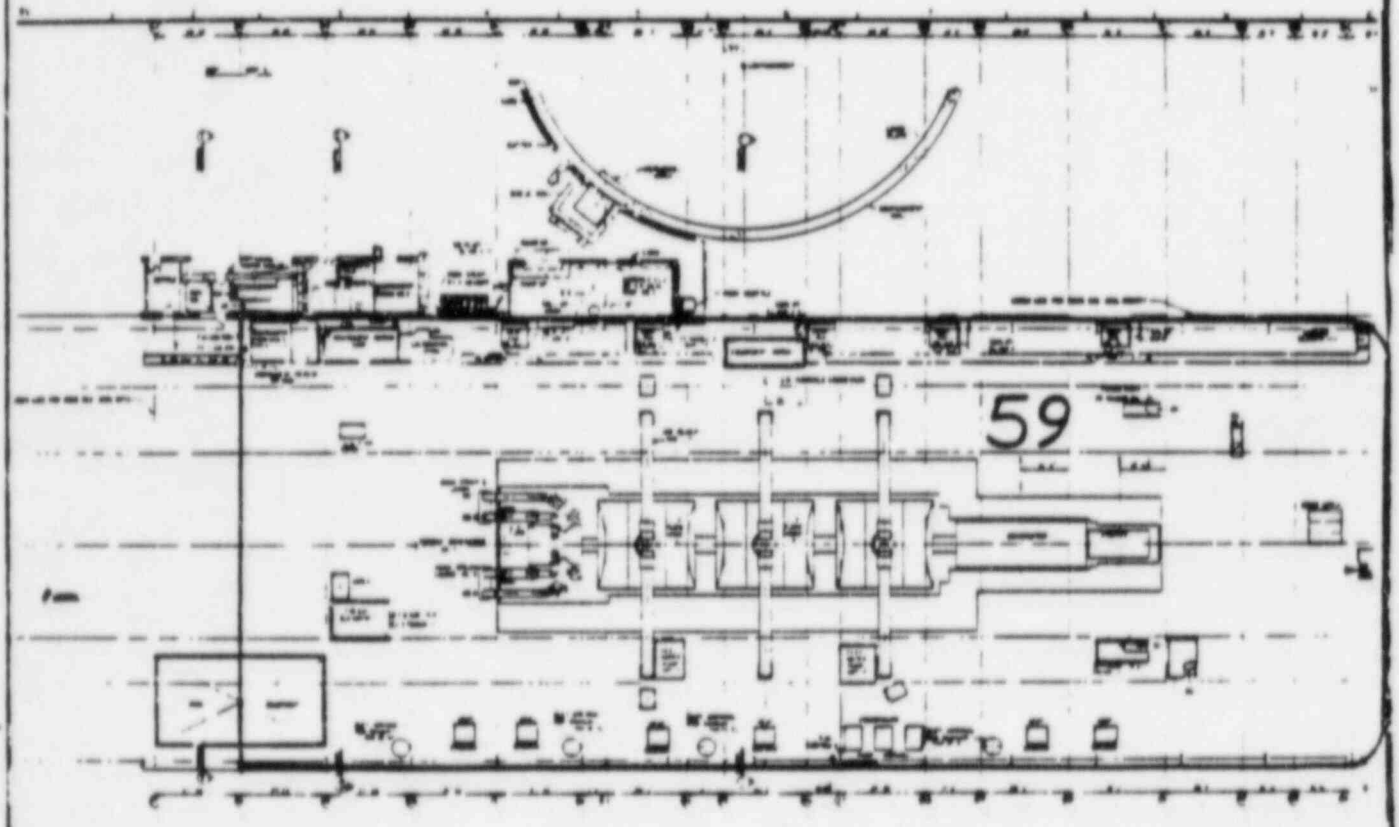
UNIT 2 - CONTAINMENT & AUXILIARY BUILDING, ELEV. 60' & 64'

ATTACHMENT 1 (Cont'd)



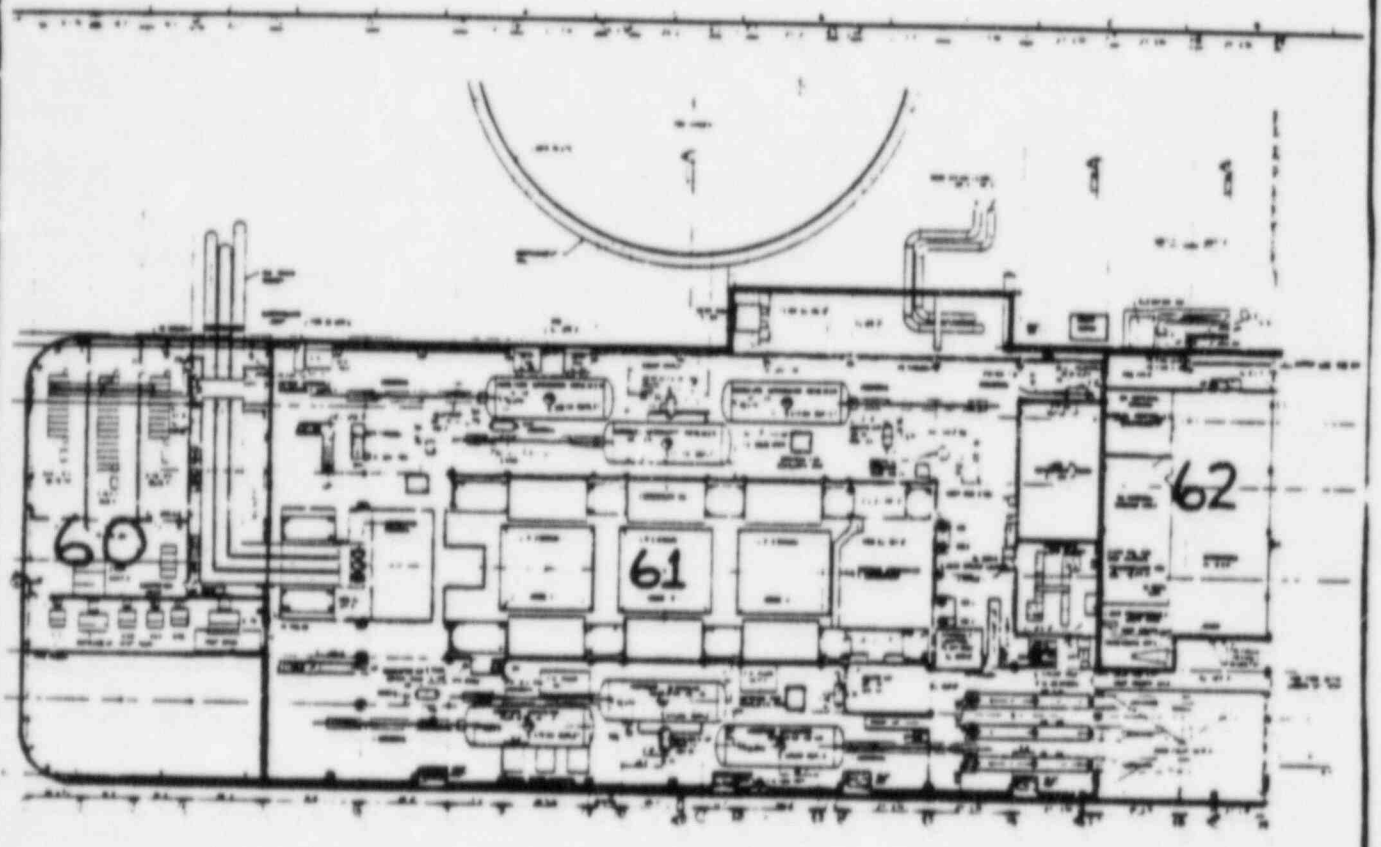

UNIT 1 - TURBINE BUILDING, ELEV. 140'

ATTACHMENT 1 (Cont'd)



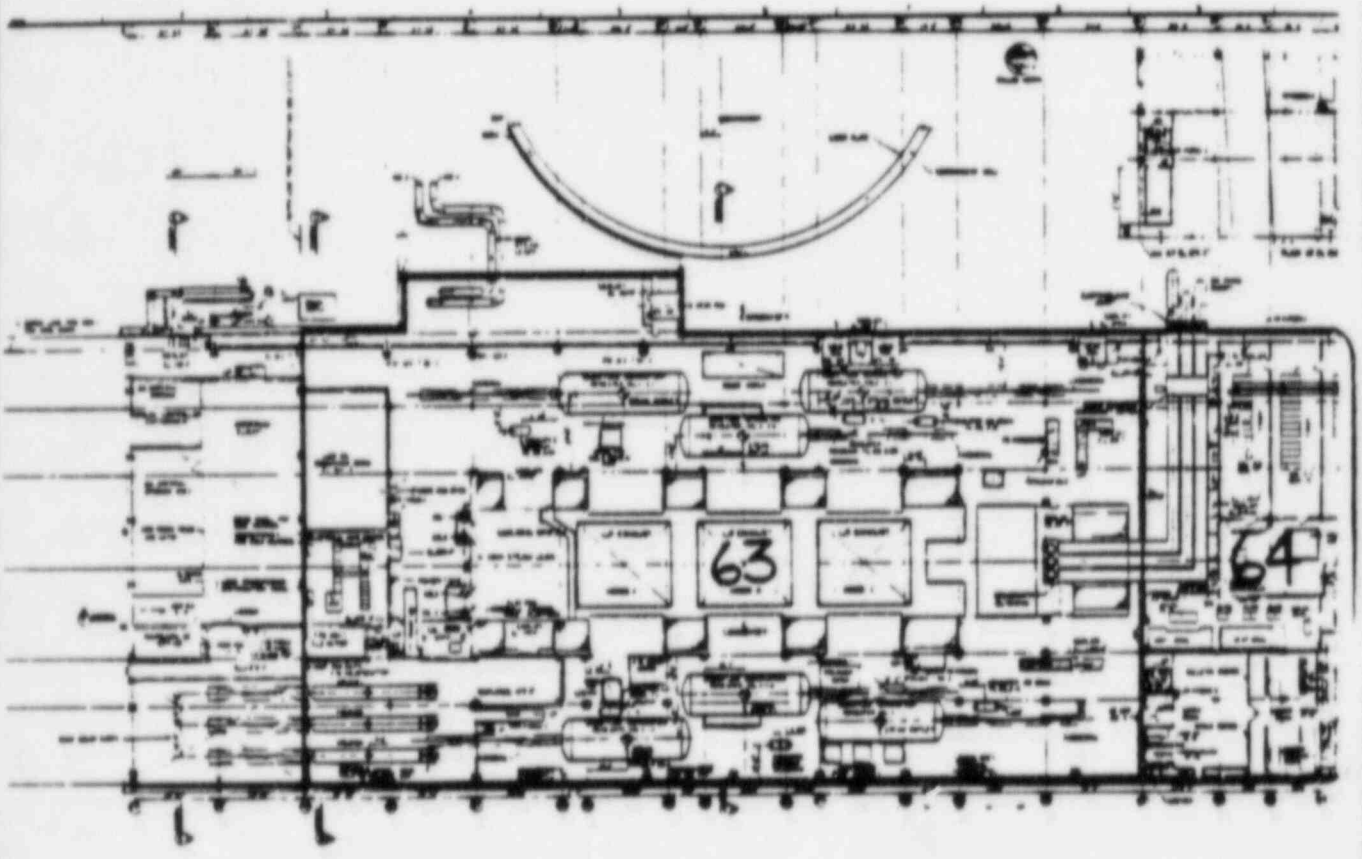

UNIT 2 - TURBINE BUILDING, ELEV. 140'

ATTACHMENT 1 (Cont'd)



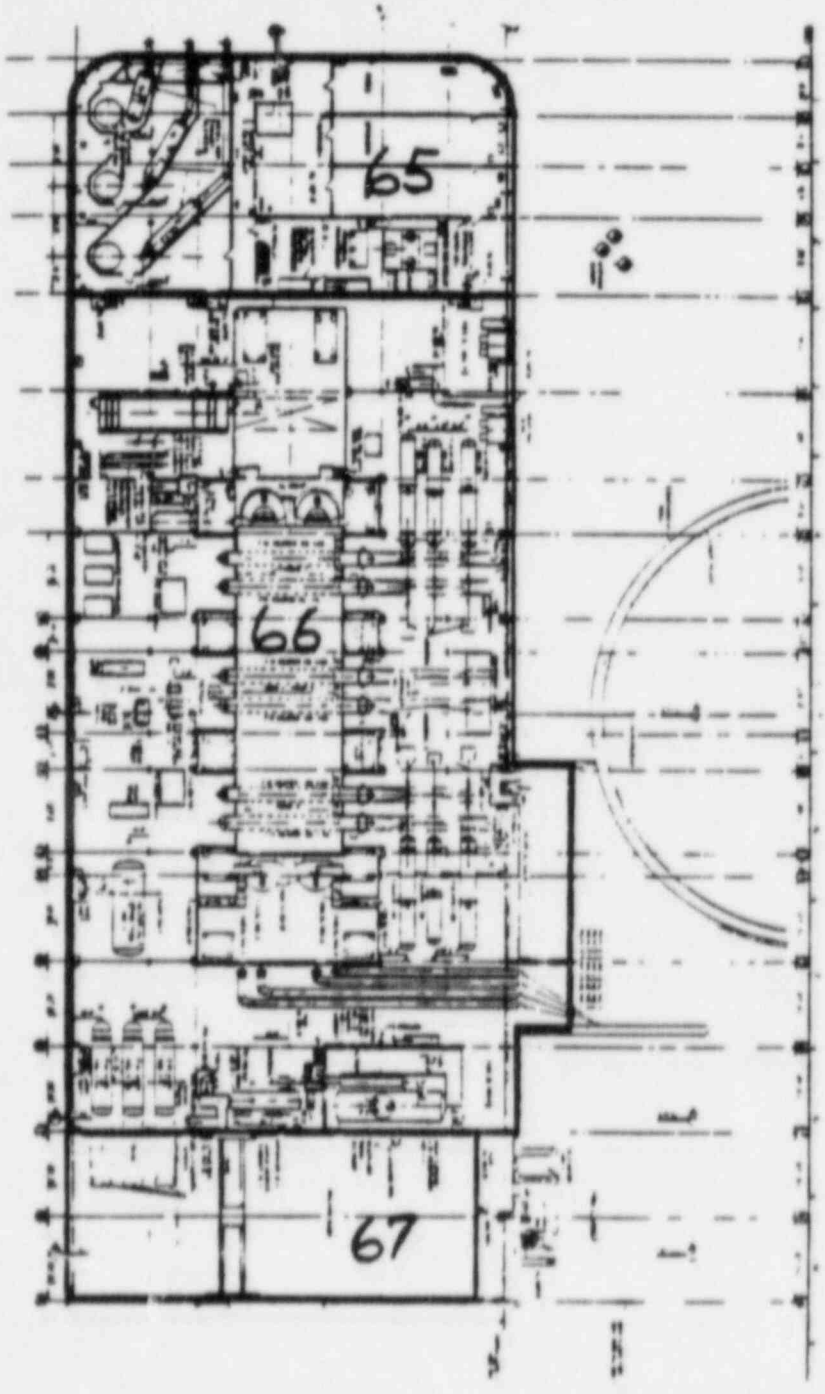

UNIT 1 - TURBINE BUILDING, ELEV. 119'

ATTACHMENT 1 (Cont'd)



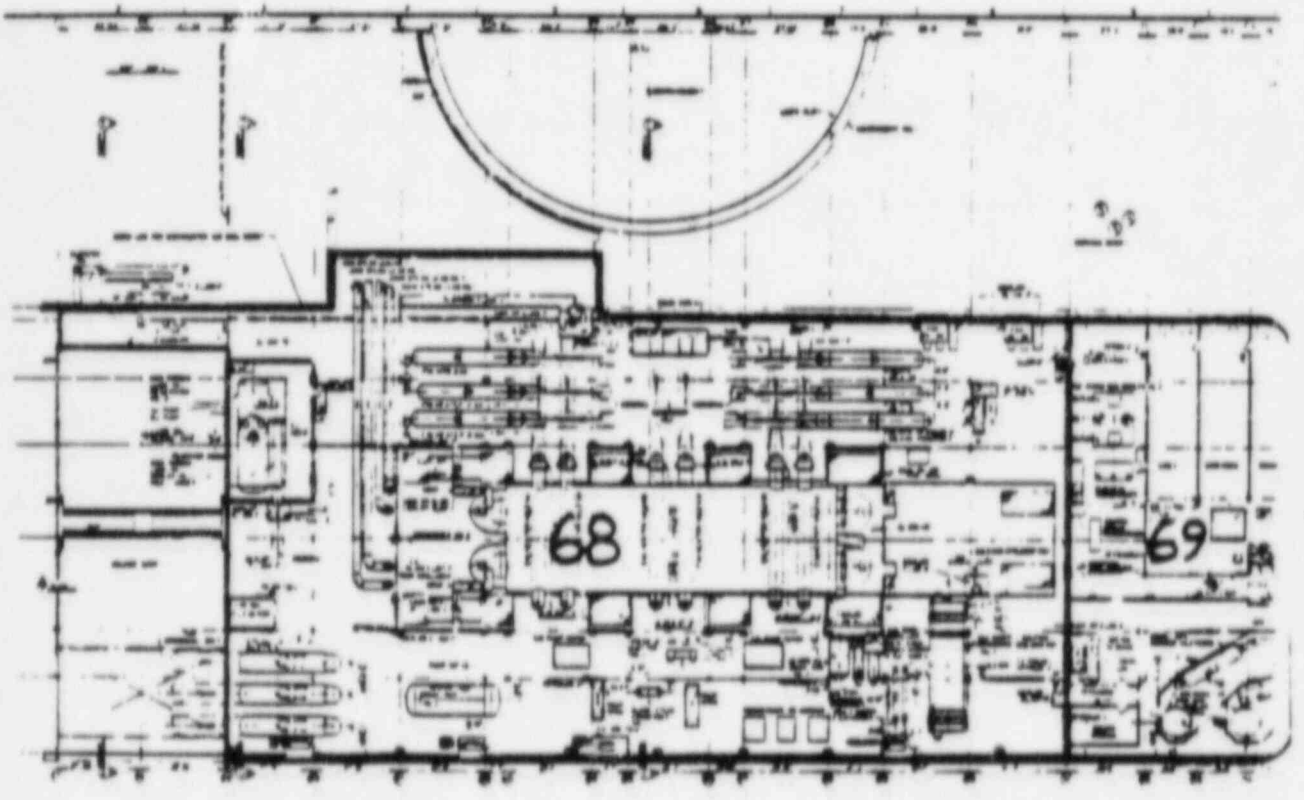

UNIT 2 - TURBINE BUILDING, ELEV. 119'

ATTACHMENT 1 (Cont'd)



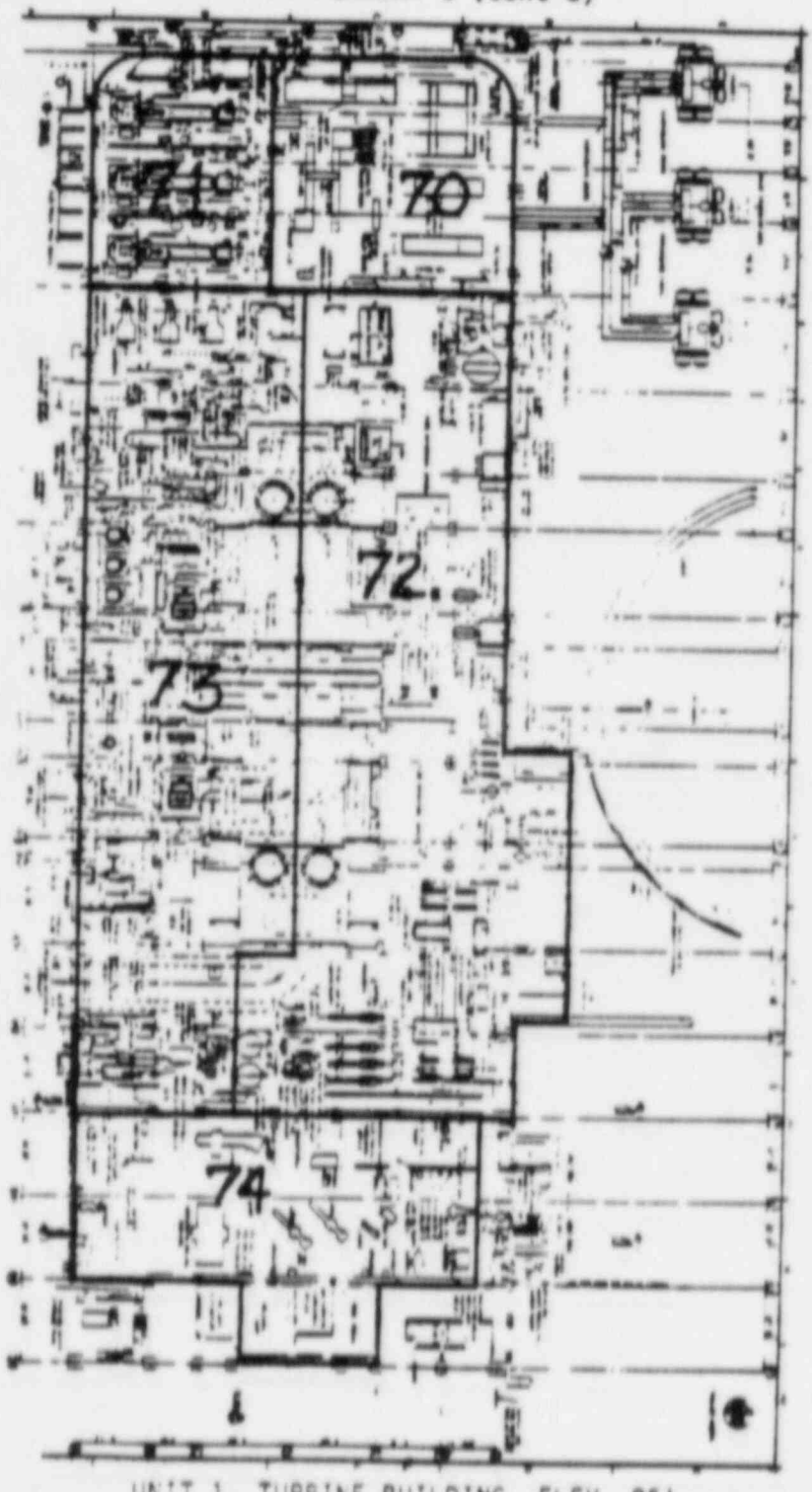

UNIT 1 TURBINE BUILDING, ELEV. 104'

ATTACHMENT 1 (Cont'd)



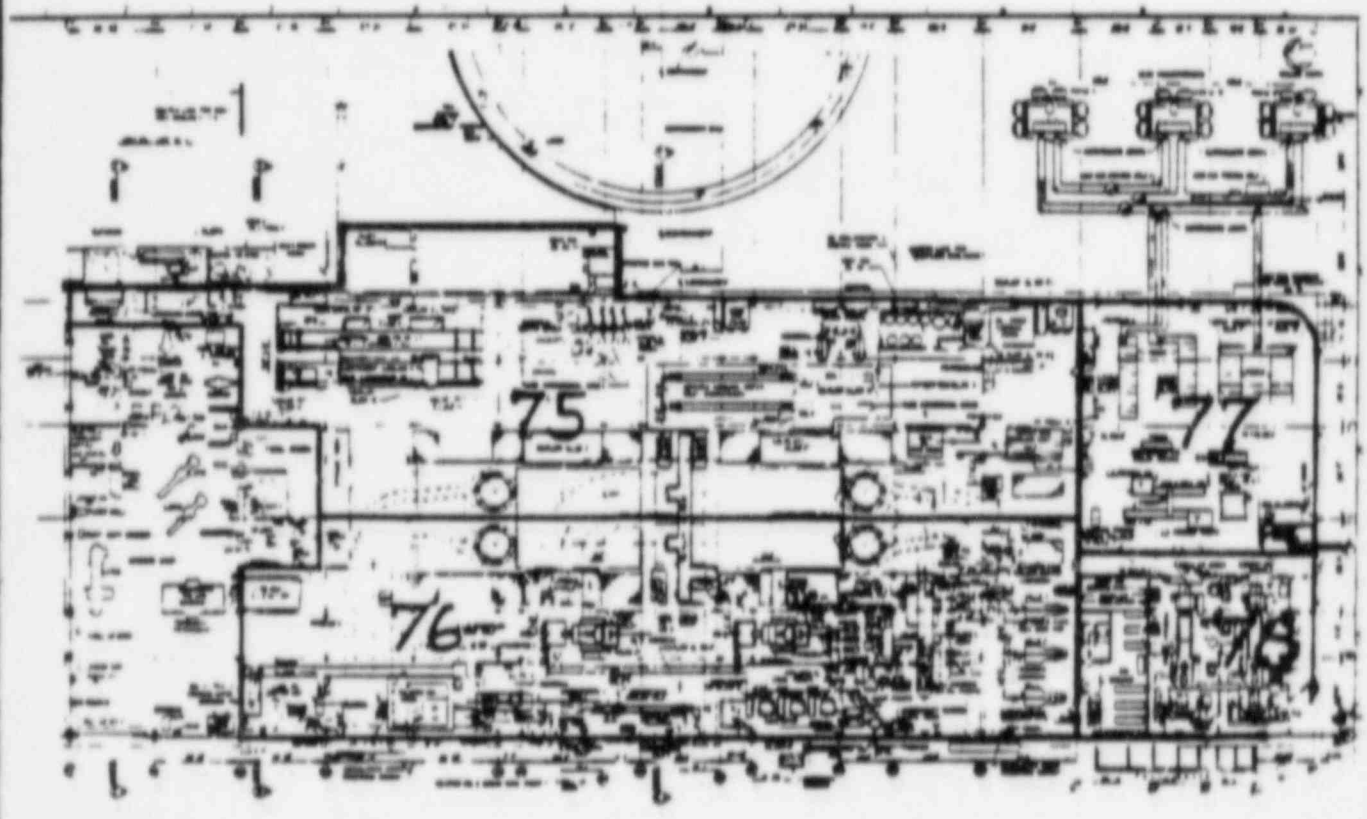

UNIT 2 - TURBINE BUILDING, ELEV. 104'

ATTACHMENT 1 (Cont'd)



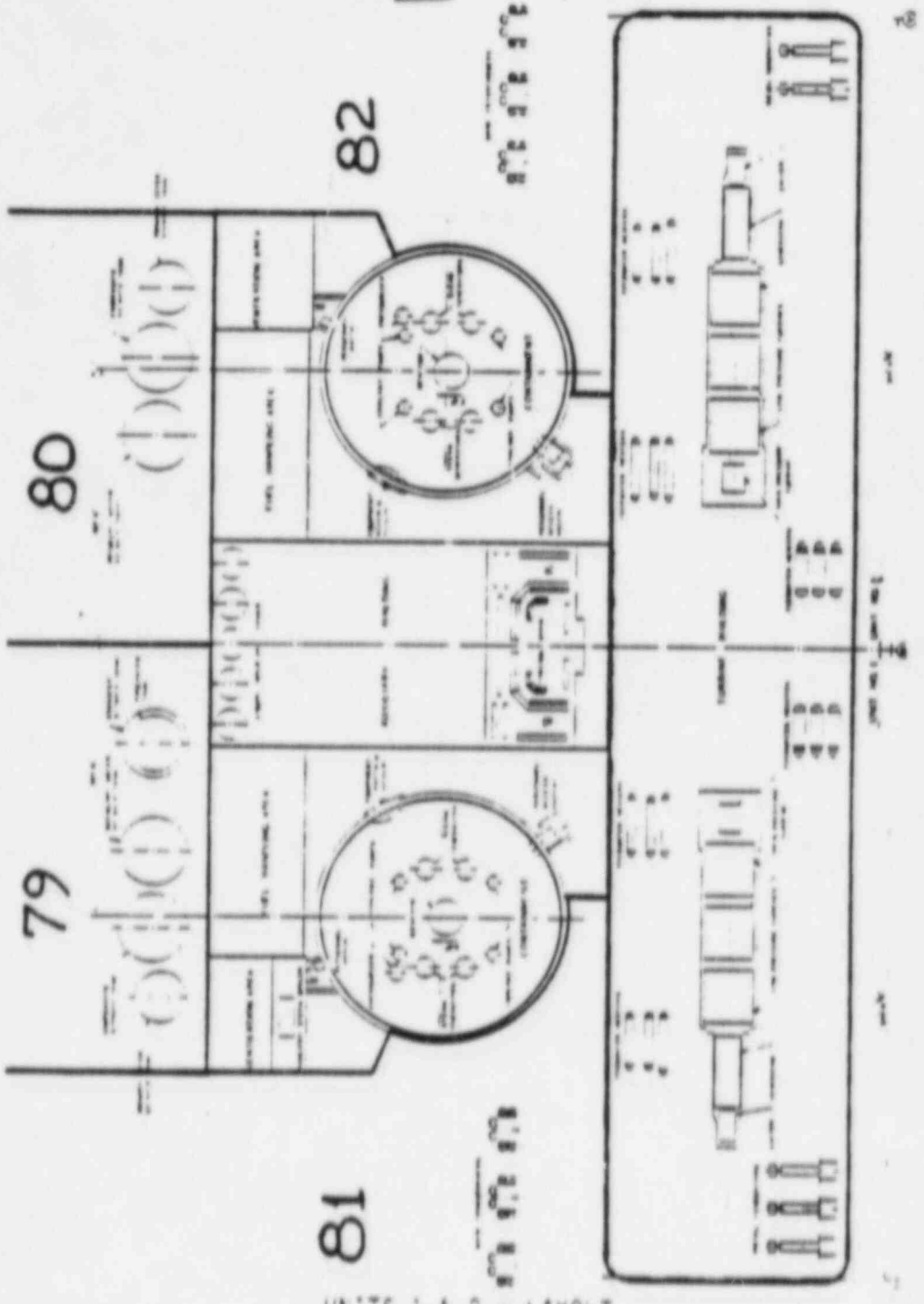

UNIT 1, TURBINE BUILDING, ELEV. 85'

ATTACHMENT 1 (Cont'd)




UNIT 2 - TURBINE BUILDING, ELEV. 85'

ATTACHMENT 1 (Cont'd)




UNITS 1 & 2 - LAYOUT

69-9221 3/82 (100)

DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT

EMERGENCY NOTIFICATION RECORD

EMERGENCY IDENTIFICATION _____ DATE _____ SHEET _____

| PERSON CALLED | AFFILIATION | TIME REACHED | BY | MESSAGE GIVEN | RESPONSE |
|---|---|---|---|---|---|
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DC0036 7111

69-9248 9/84 (10)

DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNITS 1 AND 2

DATA SHEET: POST-EARTHQUAKE EVALUATION SUMMARY, EP M-4

1. DATE/TIME OF QUAKE _____/_____

2. POWER LEVELS: UNIT 1_____MWE, UNIT 2_____MWE

3. PEAK ACCELERATION (FROM EFM-1 or SMA-3)

   NORTH-SOUTH _____G: EAST-WEST_____G: VERTICAL_____G

4. CHECK LISTS

| | TIME / INITIALS |
|---|---|
| a. Seismic Instrument Procedure | / |
| b. Level Indicator Check List | / |
| c. Surveillance Test Check List | / |
| d. Electrical Power Check List | / |
| e. Area Inspection Check List | / |

REMARKS: _____

5. Epicenter: _____ Magnitude _____

   Obtain data after the earthquake from U.C. Berkeley Seismographic Station

Reviewed by:

Power Production Engineer_____

Date/Time_____/_____

DC0036 5011

DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNITS 1 AND 2

DATA SHEET: POST-EARTHQUAKE LEVEL INDICATOR CHECK LIST, EP M-4

UNIT_____ DATE_____

INSTRUCTIONS: Check the indicators twice, at about 15 minutes to one hour apart. Inform the Shift Foreman of any reading outside of its normal range, or which changes by more than expected in the interval.

| UNIT 1 | LEVEL / TIME | |
|---|---|---|
| | Reading 1 | Reading 2 |
| **Vertical Board 1** | | |
| LI-139 CCW Surge Tank 1-1A | ___/___ | ___/___ |
| LI-140 CCW Surge Tank 1-1E | ___/___ | ___/___ |
| LI-931 Spray Additive Tank | ___/___ | ___/___ |
| LI-940 Containment Recirc Sump | ___/___ | ___/___ |
| LI-941 Containment Recirc Sump | ___/___ | ___/___ |
| **Vertical Board 2** | | |
| LI-920 Refueling Water Storage Tank (S.T.) | ___/___ | ___/___ |
| LI-921 Refueling Water S.T. | ___/___ | ___/___ |
| LI-922 Refueling Water S.T. | ___/___ | ___/___ |
| LI-112 Volume Control Tank | ___/___ | ___/___ |
| LI-149 Primary Water Storage Tank | ___/___ | ___/___ |
| **Vertical Board 3** | | |
| LI-148 Condensate Storage Tank 1-1 | ___/___ | ___/___ |
| LI-147 Transfer Tank 0-1 | ___/___ | ___/___ |
| LI-144 Raw Water Res. 01A (West) | ___/___ | ___/___ |
| LI-145 Raw Water Res. 01B (East) | ___/___ | ___/___ |
| LI-146 Fire Water S.T. | ___/___ | ___/___ |
| **Common** | | |
| **Aux. Bldg. Control Panel** | | |
| LI-180 Monitor Tank 1-1 | ___/___ | ___/___ |
| LI-181 Monitor Tank 1-2 | ___/___ | ___/___ |
| LI-188 RCDT 1-1 | ___/___ | ___/___ |
| LI-60 Containment Structure Sump 1-1 | ___/___ | ___/___ |
| LI-61 Containment Structre Sump 1-2 | ___/___ | ___/___ |
| LI-62 Reactor Cavity Sump, Unit 1 | ___/___ | ___/___ |
| LI-229 Waste Conc. Holding Tank 0-1 | ___/___ | ___/___ |

DATA SHEET: POST-EARTHQUAKE LEVEL INDICATOR CHECK LIST, EP M-4

UNIT 1

| Aux. Bldg. Control Panel (Cont'd) | LEVEL / TIME Reading 1 | Reading 2 |
|---|---|---|
| LI-170 Liquid Holdup Tank 1-1 | / | / |
| LI-168 Liquid Holdup Tank 1-2 | / | / |
| LI-167 Liquid Holdup Tank 0-1 | / | / |
| LI-168 Liquid Holdup Tank 2-1 | / | / |
| LI-170 Liquid Holdup Tank 2-2 | / | / |
| LI-165 Concentrate Holding Tank | / | / |
| LI-158 Equip. Drain Receiver (Rec.) 0-1 | / | / |
| LI-160 Equip. Drain Rec. 0-2 | / | / |
| LI-162 Floor Drain Rec. 0-1 | / | / |
| LI-164 Floor Drain Rec. 0-2 | / | / |
| LI-180 Monitor Tank 2-1 | / | / |
| LI-181 Monitor Tank 2-2 | / | / |
| LI-188 RCDT 2-1 | / | / |
| LI-60 Containment Structure Sump 2-1 | / | / |
| LI-61 Containment Structure Sump 2-2 | / | / |
| LI-62 Reactor Cavity Sump, Unit 2 | / | / |

UNIT 2

Vertical Board 1

| | | |
|---|---|---|
| LI-139 CCW Surge Tank 2-1A | / | / |
| LI-140 CCW Surge Tank 2-1B | / | / |
| LI-931 Spray Additive Tank | / | / |
| LI-940 Containment Recirc Sump | / | / |
| LI-941 Containment Recirc Sump | / | / |

Vertical Board 2

| | | |
|---|---|---|
| LI-920 Refueling Water Storage Tank | / | / |
| LI-921 Refueling Water Storage Tank | / | / |
| LI-922 Refueling Water Storage Tank | / | / |
| LI-112 Volume Control Tank | / | / |
| LI-149 Primary Water Storage Tank | / | / |

DATA SHEET: POST-EARTHQUAKE LEVEL INDICATOR CHECK LIST, EP M-4

UNIT 2

| Vertical Board 3 | LEVEL / TIME Reading 1 | Reading 2 |
|---|---|---|
| LI-148 Condensate Storage Tank 2-1 | / | / |
| LI-144 Raw Water Res. 01A (West) | / | / |
| LI-145 Raw Water Res. 01B (East) | / | / |

Data Taken By: _____

REMARKS: _____

Reviewed By:

Shift Foreman: _____ Date/Time _____/_____

DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNITS 1 AND 2

DATA SHEET: POST-EARTHQUAKE AREA INSPECTION CHECK LIST CONTAINMENT (OUTSIDE MISSILE SHIELD), EP M-4

| UNIT 1 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 6* (ELEV. 140' & ABOVE) INCLUDING DOME & LINER, SPRAY HDRS. & PIPING, ETC. | | / |
| AREA - 17 (ELEV. 117') | | / |
| AREA - 30 (ELEV. 91') | | / |

| UNIT 2 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 9 (ELEV. 140' & ABOVE) INCLUDING DOME & LINER, SPRAY HDRS. & PIPING, ETC. | | / |
| AREA - 25 (ELEV. 117') | | / |
| AREA - 45 (ELEV. 91') | | / |

REMARKS: _____

Reviewed By:

Shift Foreman _____

Time/Date _____ / _____

*Area designations refer to Attachment 1 to Emergency Procedure M-4.

DATA SHEET: POST-EARTHQUAKE AREA INSPECTION CHECK LIST CONTAINMENT (INSIDE MISSILE SHIELD), EP M-4

NOTE: TO BE COMPLETED ONLY IF UNIT IS SHUT DOWN.

| UNIT 1 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 16* (ELEV. 117') | | / |
| AREA - 29 (ELEV. 91') | | / |
| AREA - 44 (BELOW ELEV. 91') | | / |

| UNIT 2 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 24 (ELEV. 117') | | / |
| AREA - 29 (ELEV. 91') | | / |
| AREA - 51 (ELEV. 91') | | / |

REMARKS: _____

Reviewed By:

Shift Foreman _____

Time/Date _____ /

*Area designations refer to Attachment 1 to Emergency Procedure M-4.

DATA SHEET: POST-EARTHQUAKE AREA INSPECTION CHECK LIST AUXILIARY BUILDING (MAIN AREA), EP M-4

| UNITS 1 & 2 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 10* (ELEV. 140') | | / |
| AREA - 10A (ROOF AREA & EQUIP. ABOVE ELEV 140') | | / |
| AREA - 13 (ELEV. 115' & 126') | | / |
| AREA - 19 (ELEV. 115') | | / |
| AREA - 20 (ELEV. 127') | | / |
| AREA - 21 (ELEV. 115') | | / |
| AREA - 22 (ELEV. 115') | | / |
| AREA - 32 (ELEV. 100') | | / |
| AREA - 33 (ELEV. 100') | | / |
| AREA - 34 (ELEV. 100') | | / |
| AREA - 35 (ELEV. 100') | | / |
| AREA - 45 (ELEV. 85') | | / |
| AREA - 46 (ELEV. 85') | | / |
| AREA - 47 (ELEV. 85') | | / |
| AREA - 48 (ELEV. 85') | | / |
| AREA - 52 (ELEV. 73') | | / |
| AREA - 53 (ELEV. 73') | | / |
| AREA - 54 (ELEV. 60' & 64') | | / |
| AREA - 55 (ELEV. 60' & 64') | | / |
| AREA - 56 (ELEV. 60' & 64') | | / |
| AREA - 57 (ELEV. 64') | | / |

REMARKS: _____

Reviewed By:

Shift Foreman _____

Time/Date _____ / _____

*Area designations refer to Attachment 1 to Emergency Procedure M-4.

DATA SHEET: POST-EARTHQUAKE AREA INSPECTION CHECK LIST AUXILIARY BUILDING (PENETRATION AREAS), EP M-4

| UNIT 1 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 7 (ELEV. 140') | | / |
| AREA - 18 (ELEV. 115') | | / |
| AREA - 28 (ELEV. 100') | | / |
| AREA - 43 (ELEV. 85') | | / |

| UNIT 2 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 8 (ELEV. 140') | | / |
| AREA - 23 (ELEV. 115') | | / |
| AREA - 38 (ELEV. 100') | | / |
| AREA - 49 (ELEV. 85') | | / |

REMARKS: _____

DATA SHEET: POST-EARTHQUAKE AREA INSPECTION CHECK LIST FUEL HANDLING BUILDING (MAIN AREA), EP M-4

| UNIT 1 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA -2 (ELEV. 140') | | / |
| AREA - 3 (ELEV. 140') HOT SHOP AREA | | / |
| AREA - 12 (ELEV. 115' & 126') | | / |
| AREA - 27 (ELEV. 100') | | / |

| UNIT 2 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 4 (ELEV. 140') | | / |
| AREA - 14 (ELEV. 115' & 126') | | / |
| AREA - 36 (ELEV. 100') | | / |

REMARKS: _____

DATA SHEET: POST-EARTHQUAKE AREA INSPECTION CHECK LIST FUEL HANDLING BUILDING (VENT EQUIPMENT AREAS), EP M-4

| UNIT 1 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 1 (ELEV. 140') | | / |
| AREA - 11 (ELEV. 115') | | / |
| AREA - 26 (ELEV. 100') | | / |
| AREA - 42 (ELEV. 85') | | / |

| UNIT 2 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 5 (ELEV. 140') | | / |
| AREA - 15 (ELEV. 115') | | / |
| AREA - 37 (ELEV. 100') | | / |
| AREA - 50 (ELEV. 85') | | / |

REMARKS: _____

DATA SHEET: POST-EARTHQUAKE AREA INSPECTION CHECK LIST UNIT 1 TURBINE BUILDING, EP M-4

| UNIT 1 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 58 (ELEV. 140') | | / |
| AREA - 60 (ELEV. 107' & 119') | | / |
| AREA - 61 (ELEV. 119' & 125') | | / |
| AREA - 62 (ELEV. 119' & 123') | | / |
| AREA - 65 (ELEV. 107') | | / |
| AREA - 66 (ELEV. 104' & 108') | | / |
| AREA - 67 (MACH. SHOP OVERHEAD) | | / |
| AREA - 31 (ELEV. 109') MN. STM. LINE PLTFM. | | / |
| AREA - 70 (ELEV. 85' & BELOW) | | / |
| AREA - 71 (ELEV. 85') | | / |
| AREA - 72 (ELEV. 85' & BELOW) | | / |
| AREA - 73 (ELEV. 85' & BELOW) | | / |
| AREA - 74 (ELEV. 85') | | / |

REMARKS: _____

DATA SHEET: POST-EARTHQUAKE AREA INSPECTION CHECK LIST UNIT 2 TURBINE BUILDING, EP M-4

| UNIT 2 | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 59 (ELEV. 140') | | / |
| AREA - 63 (ELEV. 119' & 125') | | / |
| AREA - 64 (ELEV. 107' & 119') | | / |
| AREA - 68 (ELEV. 104' & 108') | | / |
| AREA - 41 (ELEV. 109') MN. STM. LINE PLATFM. | | / |
| AREA - 69 (ELEV. 107') | | / |
| AREA - 75 (ELEV. 85' & BELOW) | | / |
| AREA - 76 (ELEV. 85' & BELOW) | | / |
| AREA - 77 (ELEV. 85' & BELOW) | | / |
| AREA - 78 (ELEV. 85') | | / |

REMARKS: _____

DATA SHEET: POST-EARTHQUAKE AREA INSPECTION CHECK LIST OUTSIDE AREAS, EP M-4

| | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 79 (UNIT 1 F.H. BLDG. EXTERIOR, STOR. TKS, STOR. AREAS, ETC.) | | / |
| AREA - 80 (UNIT 2 F.H. BLDG. EXTERIOR, STOR. TKS, STOR. AREAS, ETC.) | | / |
| AREA - 81 (UNIT 1 BLDG. EXTERIORS, MN, AUX. & STUP. XFMR. BKS. & STRUCTURES, ETC.) | | / |
| AREA - 82 (UNIT 2 BLDG. EXTERIORS, MN, & AUX. XFMR. BKS. & STRUCTURES, ETC.) | | / |
| AREA - 83 (UNITS 1 & 2 DISCH. STRUCTURE) | | / |
| AREA - 84 (230 KV SWYD. & LINES) | | / |
| AREA - 85 (RAW WTR. STOR. PONDS) | | / |
| AREA - 86 (500 KV SWYD. & LINES) | | / |

REMARKS: _____

DATA SHEET: POST-EARTHQUAKE AREA INSPECTION CHECK LIST INTAKE STRUCTURE, EP M-4

| | CHECKED BY | TIME/DATE |
|---|---|---|
| AREA - 87 (ELEV. 17.5') | | / |
| AREA - 88 (ELEV. -2') | | / |
| AREA - 89 (AUX. SALT WATER PUMP COMPARTMENTS & VENT. SHAFTS) | | / |
| | | / |
| AREA - 90 (PIPE & DISCHARGE VALVE GALLERIES) | | / |
| | | / |

REMARKS:

DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNITS 1 AND 2

DATA SHEET: POST-EARTHQUAKE SURVEILLANCE TEST CHECK LIST, EP M-4

UNIT_____ DATE_____

INSTRUCTIONS: Check the data sheet when the time test is completed and the initials of the person performing the test.

| | TIME / INITIALS |
|---|---|
| A. Instrument Surveillance Tests | |
| 1. I-1, Channel Check (shift and daily portions only) | ____/____ |
| a. Shift Data Sheet | ____/____ |
| b. Daily Data Sheet | ____/____ |
| 2. I-29, Emergency Signals and Communications System Functional Test | ____/____ |
| B. Reactor and Auxiliaries | |
| 1. R-1A, Exercising Full Length Control Rods | ____/____ |
| 2. R-1C, Reactor Coolant System Leakage Evaluation. | ____/____ |
| C. Miscellaneous and Integrated Tests | |
| 1. M-16B Operation of Slave Relays K604A and K604B (Safety Injection). | ____/____ |
| 2. M-16C Operation of Slave Relay K606A (Safety Injection). | ____/____ |
| 3. M-16D Operation of Slave Relay K606B (Safety Injection). | ____/____ |
| 4. M-16E Operation of Slave Relay K633A and K609A (Safety Injection and Auxiliary FW Pump Start). | ____/____ |
| 5. M-16F Operation of Slave Relay K633B and K609B (Safety Injection and Auxiliary FW Pump Start). | ____/____ |
| 6. M-16I Operation of Slave Relays K606A and K606B (Phase A Containment Isolation). | ____/____ |

REMARKS: _____

Reviewed By:
Shift Foreman _____
Time/Date _____/_____

PACIFIC GAS AND ELECTRIC COMPANY
DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNIT NOS. 1 AND 2

DATA SHEET: POST-EARTHQUAKE ELECTRICAL POWER CHECK LIST, EP M-4

DATE: _____

INSTRUCTIONS: Insure that the lines indicated are functioning properly. Insure that the batteries are undamaged and that the chargers continue to supply the load. Start all diesels and bring them to rated voltage.

| | | TIME / INITIALS |
|---|---|---|
| A. | 500 KV System | |
| | 1. Midway #2 line | / |
| | 2. Midway #3 line | / |
| | 3. Gates line | / |
| | 4. Tie line to Unit 1 | / |
| | 5. Tie line to Unit 2 | / |
| | 6. 500 KV Switchyard | / |
| B. | 230 KV System | |
| | 1. Morro Bay-Diablo line | / |
| | 2. Morro Bay-Mesa line | / |
| | 3. Tie line to startup bank 1-1 | / |
| | 4. Tie line to startup bank 2-1 | / |
| | 5. 230 KV Switchyard | / |
| C. | Station Batteries & Chargers | |
| | 1. Battery 1-1 | / |
| | 2. Battery 1-2 | / |
| | 3. Battery 1-3 | / |
| | 4. Battery 2-1 | / |
| | 5. Battery 2-2 | / |
| | 6. Battery 2-3 | / |
| D. | Diesel Generators | |
| | 1. Generator 1-1 | / |
| | 2. Generator 1-2 | / |
| | 3. Generator 1-3 | / |
| | 4. Generator 2-1 | / |
| | 5. Generator 2-2 | / |

REMARKS: _____

Reviewed By:
Shift Foreman _____ Time/Date _____ / _____

PACIFIC GAS AND ELECTRIC COMPANY
DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNIT NOS. 1 AND 2

TITLE: CALIBRATION AND TEST DATA SHEET, EP M-4

PEAK SHOCK RECORDER TM

PSR1200 - H (NORTH/SOUTH)

RECORDER S/N 701 CALIBRATION DATE 5/3/84 INITIALS

RECORD PLATES S/N SURFACE

| REED NUMBER | FREQUENCY (Hertz) | ACCELERATION SENSITIVITY (g/inch) | DISPLACEMENT (inches) | EQUIVALENT STATIC ACCELERATION (g) |
|---|---|---|---|---|
| 1 | 1.96 | 0.351 | | |
| 2 | 2.56 | 0.550 | | |
| 3 | 3.23 | 0.810 | | |
| 4 | 3.97 | 1.19 | | |
| 5 | 5.18 | 2.23 | | |
| 6 | 6.38 | 3.24 | | |
| 7 | 8.10 | 5.08 | | |
| 8 | 10.2 | 7.63 | | |
| 9 | 12.7 | 11.6 | | |
| 10 | 16.1 | 19.2 | | |
| 11 | 20.2 | 27.8 | | |
| 12 | 25.6 | 46.5 | | |

Damping: 2% viscous damping (C of 25)

TESTER TEST DATE

TEST LOCATION PREPARED BY

TEST NUMBER DATE

*Values based on Kinemetrics Calibration Test Report and Certification for DCPP Seismic Instrumentation.

TITLE: CALIBRATION AND TEST DATA SHEET, EP M-4

PEAK SHOCK RECORDER ™

PSR1200 - H (East/West)

RECORDER S/N 710 CALIBRATION DATE 5/3/84 INITIALS

RECORD PLATES S/N SURFACE

| REED NUMBER | FREQUENCY (Hertz) | ACCELERATION SENSITIVITY (g/inch) | DISPLACEMENT (inches) | EQUIVALENT STATIC ACCELERATION (g) |
|---|---|---|---|---|
| 1 | 1.92 | 0.343 | | |
| 2 | 2.50 | 0.537 | | |
| 3 | 3.13 | 0.823 | | |
| 4 | 3.97 | 1.17 | | |
| 5 | 5.20 | 2.20 | | |
| 6 | 6.40 | 3.22 | | |
| 7 | 7.96 | 4.94 | | |
| 8 | 10.1 | 11.7 | | |
| 9 | 12.7 | 12.2 | | |
| 10 | 16.1 | 19.4 | | |
| 11 | 20.3 | 30.8 | | |
| 12 | 25.4 | 45.5 | | |

Damping: 2% viscous damping (Q of 25)

TESTER TEST DATE

TEST LOCATION PREPARED BY

TEST NUMBER DATE

TITLE: CALIBRATION AND TEST DATA SHEET, EP M-4

PEAK SHOCK RECORDER ™

PSR1200 - V (VERT.)

RECORDER S/N 728 CALIBRATION DATE 5/3/84 INITIALS _____

RECORD PLATES S/N _____ SURFACE _____

| REED NUMBER | FREQUENCY (Hertz) | ACCELERATION SENSITIVITY (g/inch) | DISPLACEMENT (inches) | EQUIVALENT STATIC ACCELERATION (g) |
|---|---|---|---|---|
| 1 | 1.92 | 0.315 | | |
| 2 | 2.49 | 0.493 | | |
| 3 | 3.23 | 0.816 | | |
| 4 | 3.83 | 1.10 | | |
| 5 | 5.15 | 2.08 | | |
| 6 | 6.43 | 3.13 | | |
| 7 | 8.08 | 4.98 | | |
| 8 | 10.2 | 7.55 | | |
| 9 | 12.7 | 12.5 | | |
| 10 | 16.1 | 18.2 | | |
| 11 | 20.2 | 28.6 | | |
| 12 | 25.4 | 44.4 | | |

Damping: 2% Viscous damping (Q of 25)

TESTER _____ TEST DATE _____

TEST LOCATION _____ PREPARED BY _____

TEST NUMBER _____ DATE _____

PACIFIC GAS AND ELECTRIC COMPANY
DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNIT NOS. 1 AND 2

TITLE: CALIBRATION AND TEST DATA SHEET - PEAK ACCELERATION RECORDER, EP M-4

DATE _____ TIME _____ PAR 400- 1 RECORDER S/N 669

RECORD PLATE S/N _____ CAL. DATE 10/1/81

LOCATION: CONTAINMENT BASE SLAB UNIT 1, EL. 89', 180°

| SENSOR | ACCELERATION SENSITIVITY g/in | g/mm | DISPLACEMENT Inches | mm | ACCELERATION (g) | PERFORMED BY |
|---|---|---|---|---|---|---|
| L | 16.3 | 0.640 | | | | |
| T | 16.1 | 0.635 | | | | |
| V | 15.4 | 0.606 | | | | |

DATE _____ TIME _____ PAR 400- 2 RECORDER S/N 654

RECORD PLATE S/N _____ CAL. DATE 10/1/81

LOCATION: TOP OF UNIT 1 CONTAINMENT, EL. 303.5', 225°

| SENSOR | ACCELERATION SENSITIVITY g/in | g/mm | DISPLACEMENT Inches | mm | ACCELERATION (g) | PERFORMED BY |
|---|---|---|---|---|---|---|
| L | 32.5 | 1.28 | | | | |
| T | 30.1 | 1.18 | | | | |
| V | 32.3 | 1.27 | | | | |

DATE _____ TIME _____ PAR 400- 1 RECORDER S/N 673

RECORD PLATE S/N _____ CAL. DATE 10/1/81

LOCATION: INTAKE NEAR ASW PUMP 1-2 BAY, EL. 2'

| SENSOR | ACCELERATION SENSITIVITY g/in | g/mm | DISPLACEMENT Inches | mm | ACCELERATION (g) | PERFORMED BY |
|---|---|---|---|---|---|---|
| L | 13.1 | 0.515 | | | | |
| T | 15.4 | 0.606 | | | | |
| V | 13.8 | 0.543 | | | | |

TITLE: CALIBRATION AND TEST DATA SHEET - PEAK ACCELERATION RECORDER, EP M-4

DATE _____ TIME _____ PAR 400- 1 RECORDER S/N 672

RECORD PLATE S/N _____ CAL. DATE 10/1/81

LOCATION: TURBINE BUILDING, MACHINE SHOP EL. 85'

| SENSOR | ACCELERATION SENSITIVITY g/in | g/mm | DISPLACEMENT Inches | mm | ACCELERATION (g) | PERFORMED BY |
|---|---|---|---|---|---|---|
| L | 16.2 | 0.635 | | | | |
| T | 15.6 | 0.615 | | | | |
| V | 14.2 | 0.558 | | | | |

DATE _____ TIME _____ PAR 400- 1 RECORDER S/N 682

RECORD PLATE S/N _____ CAL. DATE 10/1/81

LOCATION: AUXILIARY BUILDING, HOT SHOP EL. 140'

| SENSOR | ACCELERATION SENSITIVITY g/in | g/mm | DISPLACEMENT Inches | mm | ACCELERATION (g) | PERFORMED BY |
|---|---|---|---|---|---|---|
| L | 15.3 | 0.601 | | | | |
| T | 15.4 | 0.608 | | | | |
| V | 12.7 | 0.500 | | | | |

DATE _____ TIME _____ PAR 400- 1 RECORDER S/N 683

RECORD PLATE S/N _____ CAL. DATE 10/1/81

LOCATION: AUXILIARY BUILDING NEAR CONTROL ROOM DOOR, EL. 140'

| SENSOR | ACCELERATION SENSITIVITY g/in | g/mm | DISPLACEMENT Inches | mm | ACCELERATION (g) | PERFORMED BY |
|---|---|---|---|---|---|---|
| L | 16.2 | 0.635 | | | | |
| T | 16.0 | 0.630 | | | | |
| V | 14.3 | 0.562 | | | | |

CURRENT

EMERGENCY PLAN

IMPLEMENTING PROCEDURES

TABLE OF CONTENTS

Volume 3B

| | TITLE | REV |
|---|---|---|
| RB-15C | SPASS Containment Air Sampling | 2 |
| RB-15D | SPASS Gas Chromatographic Hydrogen Analysis | 2 |
| RB-15E | SPASS RCS Liquid and Gas Sample Handling | 2 |
| RB-15F | SPASS Data Analysis | 1 |
| RB-15G | SPASS Ion Chromatographic Chloride Analysis | 1 |
| RB-15H | SPASS pH/Conductivity/Dissolved Oxygen | 1 |
| RB-15I | SPASS Sample Storage and Disposal | 0 |
| RB-16 | SPASS Subsequent Sampling | 0 |
| RB-16A | SPASS Initial Actions During An Emergency (Not Intended to Meet The 3-Hour Time Limit) | 2 |
| RB-16B1 | SPASS Diluted Liquid Sampling From Reactor Coolant (Not Intended to Meet The 3-Hour Time Limit) | 1 |
| RB-16B2 | SPASS Undiluted Liquid Sampling From Reactor Coolant (Not Intended to Meet The 3-Hour Time Limit) | 1 |
| RB-16B3 | SPASS Reactor Coolant Stripped Gas Sampling (Not Intended to Meet The 3-Hour Time Limit) | 1 |
| RB-16B4 | SPASS Diluted Liquid Sampling From Radwaste (Not Intended to Meet The 3-Hour Time Limit) | 2 |
| RB-16B5 | SPASS Undiluted Liquid Sampling From Radwaste (Not Intended to Meet The 3-Hour Time Limit) | 2 |
| RB-16C | SPASS Containment Air Sampling (Not Intended to Meet the 3-Hour Time Limit) | 1 |
| RB-16D | SPASS Gas Chromatographic Hydrogen Analysis (Not Intended to Meet the 3-Hour Time Limit) | 1 |
| RB-16E | SPASS Liquid and Gas Sample Handling (Not Intended to Meet The 3-Hour Time Limit) | 1 |
| RB-16F | SPASS Data Analysis (Not Intended to Meet The 3-Hour Time Limit) | 0 |
| RB-16G | SPASS Ion Chromatographic Chloride Analysis (Not Intended to Meet The 3-Hour Time Limit) | 1 |
| RB-16H | SPASS Ph/Conductivity Dissolved Oxygen (Not Intended to Meet The 3-Hour Time Limit) | 1 |
| RB-16I | SPASS Undiluted Containment Air Sampling (Not Intended to Meet The 3-Hour Time Limit) | 0 |
| RB-16J | SPASS Sample Storage and Disposal (Not Intended to Meet The 3-Hour Time Limit) | 0 |

PG&E **Pacific Gas and Electric Company**

DEPARTMENT OF NUCLEAR PLANT OPERATIONS

DIABLO CANYON POWER PLANT UNIT NO(S) 1 AND 2

NUMBER EP OR-1
REVISION 5
DATE 5/15/85
PAGE 1 OF 2

TITLE: EMERGENCY PROCEDURE
OFFSITE SUPPORT AND ASSISTANCE

APPROVED: R. A. Thornberry 7-5-85
PLANT MANAGER DATE

IMPORTANT TO SAFETY

## SCOPE

This procedure provides a functional list of non-PGandE organizations which are available for emergency response support and assistance. Telephone numbers are provided which are to be used for initial notification of the need for emergency support. Organizations required to be notified of an emergency are addressed in the procedures referenced below or in the procedure dealing with the type of event. This procedure and changes thereto requires PSRC review.

## GENERAL

1. Requests for support or assistance from non-company organizations should be specific concerning the nature of the support or assistance requested, the location where needed, when it is needed, and the phone number to use to return a call. Requests may be made to mobilize support on a standby basis.

2. All initial request for support shall be approved by the Site Emergency Coordinator or the Recovery Manager at the EOF. Subsequent requests shall receive the same approval if they require additional resources. Requests for assistance from organizations supporting San Luis Obispo County also require County Emergency Services Director approval prior to making the request.

3. Emergency response organizations are listed in Appendix 1 under the following functional titles:

   Radiological Emergency Protective Actions
   Medical Emergency
   Fire Emergency
   Health Physics/Assessment Support
   Plant Operation/Repair Support
   Offsite Emergency Response Support

   Law enforcement emergency contact means are addressed in the appropriate security procedures.

SUPPORTING PROCEDURES

NPAP C11, and its supplements, "Non-routine Notification and Reporting to the NRC and Other Governmental Agencies"

EP G-3 "Notification of Offsite Organizations"

ATTACHMENTS

1. Attachment 1 - Offsite Support and Assistance Functional Description

2. Table 1 - Offsite Emergency Support Organization Phone List.

PACIFIC GAS AND ELECTRIC COMPANY
DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNIT NOS. 1 AND 2

ATTACHMENT 1

TITLE: OFFSITE SUPPORT AND ASSISTANCE CONTACT LIST - EP OR-1

I. Radiological Emergency Protection Actions

The organizations listed in Table 1 under this heading provide support to the San Luis Obispo County Emergency Organization in implementing protective actions for the general public.

All support requests from these organizations should be coordinated with San Luis Obispo County. Direct requests for support would not ordinarily be required, but exceptions to this may be necessary in the event of an initial notification to San Luis Obispo County requiring immediate protective actions in the low population zone (6 mile radius) or beyond in the affected sectors.

II. Medical Emergency

The organizations listed in Table 1 under this heading provide assistance in the transportation or treatment of persons injured and contaminated with radioactive material, and/or overexposed to radiation or radioactive materials. Persons so injured will normally be treated at French Hospital in San Luis Obispo, however, Saint Francis Memorial Hospital is also available should the need for additional hospital services arise.

III. Fire Emergency

The organizations listed in Table 1 under this heading provide backup fire fighting support to the California Department of Forestry (CDF), in the site area. Assistance is coordinated through CDF in all cases.

IV. Health Physics/Assessment Support

The organizations listed in Table 1 under this heading provide assistance in on or offsite monitoring, radiation protection or radiological accident assessment. Requests for assistance are coordinated through the Emergency Radiological Advisor for onsite or near site activities and with San Luis Obispo County for offsite activity.

V. Plant Operation/Repair Support

The organizations listed in Table 1 under this heading provide assistance in technical assessment of plant conditions, and in maintenance/repair projects. Only those organizations with defined emergency response roles are included. Assistance from these organizations and from the resources of PGandE, other utilities and vendors are available through the Corporate Emergency Response Organization.

TITLE: OFFSITE SUPPORT AND ASSISTANCE CONTACT LIST - EP OR-1

VI. Offsite Emergency Response Support

The organizations listed in Table 1 under this heading provide offsite response support to the San Luis Obispo County Emergency Organization, or are available for support of PGandE offsite operations. These support organizations are categorized as:

1) Transportation
2) Law Enforcement
3) Traffic Control
4) Public Alerting and Care

PACIFIC GAS AND ELECTRIC COMPANY
DEPARTMENT OF NUCLEAR PLANT OPERATIONS
DIABLO CANYON POWER PLANT UNIT NOS. 1 AND 2

TABLE 1

TITLE: OFFSITE EMERGENCY SUPPORT ORGANIZATION PHONE LIST - EP OR-1

| Organization | Function(s) | Location(s) | Phone Number(s) |
|---|---|---|---|
| I. Radiological Emergency Protective Actions | | | |
| US Coast Guard | 1) Clear craft from water near DCPP<br>2) Shipboard radiological monitoring<br>3) Vessel decontamination | Marine Safety Office San Francisco or Monterey Operation | [redacted] |
| State Department of Parks & Recreation | Protective actions in State Parks & Beaches:<br>Montana De Oro<br>Avila State Beach<br>Pismo State Beach<br>Morro Bay State Park<br>Atascadero State Beach | San Luis Obispo Headquarters<br>Hearst Castle<br>Pismo Ranger Station<br>Pismo Dunes Station | |
| State Department of Public Health-Radiological Health Section | Ingestion pathway monitoring coordination and food stuff interdiction as required. | 744 "P" St. Sacramento, CA | |
| II. Medical Emergency (See procedures M-1 and R-1 also) | | | |
| San Luis Ambulance Service, Inc. | Onsite ambulance service. | 358 Santa Rosa San Luis Obispo | |
| Air Ambulance, Inc. | Air Transportation (fixed wing or helicopter) from site or airport (under PGandE contract). | 701 Skyway San Carlos, CA | |
| California Air National Guard | Medivac | Hunter Ligget | |

TITLE: OFFSITE EMERGENCY SUPPORT ORGANIZATION PHONE LIST - EP OR-1 (continued)

| Organization | Function(s) | Location(s) | Phone Number(s) |
|---|---|---|---|
| San Francisco Ambulance Service | Ambulance Service in the San Francisco Area. | 2829 California Street San Francisco | [redacted] |
| French Hospital | Emergency Medical Treatment | 1911 Johnson Ave. San Luis Obispo | |
| Dr. Fred Mettler (REMS Corp.) | Consultant on Radiological Injuries | VA Hospital Albuquerque, New Mexico - or - 3004 La Mancha St N.W. Albuquerque, NM | |
| Saint Francis Memorial Hospital | Emergency Medical Treatment | 900 Hyde Street San Francisco | |
| III. Fire Emergency | | | |
| California Department of Forestry | Primary Site Fire Fighting Response | Highway 1 San Luis Obispo Air Attack Base Paso Robles Airport | |
| Arroyo Grande Fire Department | Backup fire fighting support. | 140 Traffic Way Arroyo Grande | |
| Pismo Beach Fire Department | Backup fire fighting support. | 1000 Bello Ave. Pismo Beach | |
| San Luis Obispo Fire Department | Backup fire fighting support. | Garden & Pismo Streets San Luis Obispo | |
| South Bay Fire Department | Backup fire fighting support. | 2315 Bayview Heights Drive Los Osos | |
| Morro Bay Fire Department | Backup fire fighting support. | 715 Harbor Morro Bay | |

TITLE: OFFSITE EMERGENCY SUPPORT ORGANIZATION PHONE LIST - EP OR-1 (continued)

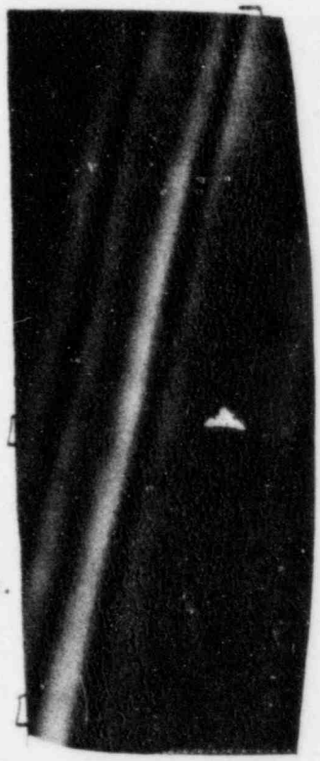
| Organization | Function(s) | Location(s) | Phone Number(s) |
|---|---|---|---|
| IV. Health Physics/Assessment Support | | | |
| | | Onsite | |
| Nuclear Regulatory Commission Region V | 1) Onsite assessment<br>2) Coordinate federal technical response<br>3) Develop protective action recommendations.<br>4) Radiological monitoring | 1450 Maria Lane Suite 260 Walnut Creek, CA<br><br>Incident Response Center | [redacted] |
| Sacramento Municipal Utility District | Chemical-Radiation assistants and equipment. | Rancho Seco Heald, CA Control Room | |
| Southern California Edison | Health Physics technicians and equipment. | San Onofre San Clemente, CA | |
| Portland General Electric | Chemistry and/or Radiation Protection Technicians and Equipment. | Portland, Oregon V.P. Nuclear Gen. Mgr., Tech. Funct.<br><br>Trojan Plant General Manager | |
| Washington Public Power Supply System | Health Physicist and Health Physics/Chemistry Technicians and equipment | WNP-2, Hanford, Wash. Emerg. Coordinator or Security Control | |
| Arizona Public Service | Radiological Engineer or Supervising Radiation Physicist, Chemist or Supervising Chemist, Radiation Protection Tech, Chemistry Techs. | Shift Supv. or<br><br>Rad. Prot. Offic | |

TITLE: OFFSITE EMERGENCY SUPPORT ORGANIZATION PHONE LIST - EP OR-1 (continued)

| Organization | Function(s) | Location(s) | Phone Number(s) |
|---|---|---|---|
| Department of Energy | 1) Federal offsite monitoring and assessment coordination.<br>2) Coordination of Federal response (IREP Coordination). | San Francisco Operations Office-Region 7<br>7333 Broadway<br>Oakland, CA | [redacted] |
| | | Nevada Operations Office<br>Las Vegas, Nevada | not in service |
| Environmental Protection Agency | Complete radiological monitoring and assessment assistance. | Dave Duncan, Regional Radiation Representative, Region IX, San Francisco | [redacted] |
| | | Wayne Bliss, Director of Office of Radiation Programs, Las Vegas Facility | |
| Department of Defense (Army) | Assist in monitoring and medical assistance if requested by the IRAP coordinator or local authorities (Nuclear Accident Incident Control Teams). | HQ-6th Army<br>Presidio of San Francisco | |
| Department of Defense (Navy) | Assist in monitoring and medical assistance if requested by the IRAP Coordinator (Nuclear Accident Teams). | Commander - Naval Base<br>San Diego, CA | |
| National Weather Service (NOAA) | Weather reports, forecasts and special advice from Weather Service Forecasting Offices (WSFO)-normally coordinated through Meterology personnel in CIRC. | WSFO-Redwood City<br>WSFO-Los Angeles | |

TITLE: OFFSITE EMERGENCY SUPPORT ORGANIZATION PHONE LIST - EP OR-1 (continued)

| Organization | Function(s) | Location(s) | Phone Number(s) |
|---|---|---|---|
| State Office of Emergency Services | Assessment support to local agencies. | Emergency Response Center Sacramento, CA | |
| State Department of Public Health-Radiological Health Bureau | Ingestion pathway monitoring coordination and food stuff interdiction as required. | 744 "P" Street Sacramento, CA | |
| San Luis Obispo County of Emergency Services | Coordinate county emergency response activities and emergency planning. | County Gov't. Center San Luis Obispo | |
| San Luis Obispo County Environmental Health | Direct offsite monitoring and assessment activities of San Luis Obispo County. | 2191 Johnson Ave. San Luis Obispo | |
| | | 5574 Capistrano Ave. Atascadero | |



V. Plant Operation/Repair Support

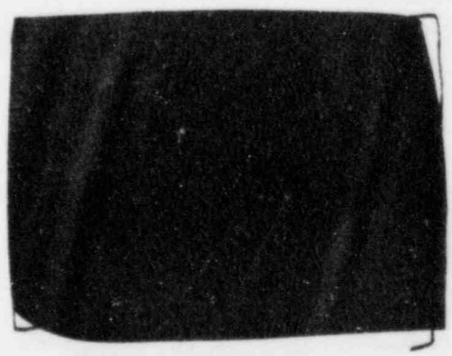
| | | | |
|---|---|---|---|
| Westinghouse Electric Company | Technical, onsite or materials assistance or reactor systems or components. | Monroeville Nuclear Center | (Notify as Indicated Below) |

NOTIFY ONLY IF TECHNICAL, ONSITE OR MATERIALS ASSISTANCE ON REACTOR SYSTEMS IS NEEDED PROVIDE PLANT EMERGENCY NUMBER [805-595-7335] FOR REPLY. NOTIFY ONE WESTINGHOUSE CONTACT ONLY USING THE BELOW LIST IN THE ORDER SHOWN.

| TITLE | NAME | OFFICE/HOME/HOME HOT LINE |
|---|---|---|

NOTE: Unless indicated otherwise, all phone numbers are area code [412]. Where an area code other than [412] is shown, it applies to the office, home, and HHL numbers.

| | | |
|---|---|---|
| 1. | SITE SERVICES MANAGER | RON BUCHHOLZ |
| 2. | OPERATING PLANT RESIDUAL MANAGER | GIL KUBANSEK |
| | 1ST ALTERNATE | JOHN GALLIK |
| | 2ND ALTERNATE | JOHN MISKO |



TITLE: OFFSITE EMERGENCY SUPPORT ORGANIZATION PHONE LIST - EP OR-1 (continued)

| TITLE | NAME | OFFICE/HOME/HOME HOT LINE |
|---|---|---|
| 3. SERVICE RESPONSE MANAGER | TOM MITLO | [redacted] |
| 1ST ALTERNATE | BOB STOKES | |
| 2ND ALTERNATE | JOE LEBLENG | |
| 4. EMERGENCY RESPONSE DIRECTOR | TOM ANDERSON | |
| 5. EMERGENCY RESPONSE DEPUTY DIRECTOR | RON LEHR | |
| 6. EMERGENCY NEWS COMMUNICATIONS | MIKE MANGAN | |

| Organization | Function(s) | Location(s) | Phone Number(s) |
|---|---|---|---|
| Institute of Nuclear Power Operations | 1) Locating emergency manpower and equipment<br>2) Operational analysis<br>3) Information dissemination<br>4) Organization of experts for advice | Emergency Response Center Atlanta, Georgia | [redacted] |
| Rogers Helicopter | Helicopter on standby under PGandE contract sound system and lighting. | Rogers Helicopter Clovis, CA<br><br>Rory Rogers (home<br>- or -<br>Robin Rogers | |
| Rotor-Aids, Inc. | Helicopter(s), as available, under PGandE contract. | Rotor-Aids, Inc. Oxnard, CA | |
| Aris Helicopter | Helicopter(s), as available under PGandE contract. Medivac capability. | San Jose | |

TITLE: OFFSITE EMERGENCY SUPPORT ORGANIZATION PHONE LIST - EP OR-1 (continued)

| Organization | Function(s) | Location(s) | Phone Number(s) |
|---|---|---|---|
| Condor Helicopters | Helicopter(s), as available, under PGandE contract. At least 1 light duty helicopter available at all times. | Condor Helicopters and Aviation Inc. Oxnard Airport Ventura, CA or Mr. Gary O'Conner Chief Pilot | |
| Air Ambulance, International | Fixed wing or helicopter air ambulance service under PGandE contract. | Mr. Steve Smith 795 Skyway San Carlos, CA | |
| California Department of Forestry | Fixed wing and helicopter for county/state support, as available. | Air Attack Base Paso Robles Airport | |

VI. Offsite Emergency Response Support

Transportation

| | | | |
|---|---|---|---|
| California Highway Patrol | 1) Fixed wing or helicopter for transportation of essential personnel.<br>2) Escort of priority vehicles. | San Francisco Area 455 8th Street San Francisco | |
| State Parks and Recreation Department<br><br>Ken Huddlescon Emergency Coordinator | San Luis Obispo Area | S.L.O. H.Q.<br><br>Hearst Castle | |
| 24 Hour Dispatcher Pismo Beach (Ranger Station) | | | |

TITLE: OFFSITE EMERGENCY SUPPORT ORGANIZATION PHONE LIST - EP OR-1 (continued)

| Organization | Function(s) | Location(s) | Phone Number(s) |
|---|---|---|---|
| **Law Enforcement** | | | |
| San Luis Obispo County Sheriff | 1) Law enforcement in county areas not under city PD's.<br>2) Primary response agency under SLO County emergency plan. | Dispatch office County Operational Facility Highway 1 San Luis Obispo | |
| Arroyo Grande Police Department | Law enforcement in Arroyo Grande. | 200 N. Halcyon Rd. Arroyo Grande | |
| Atascadero Police Department | Law enforcement in Atascadero. | Administration Building Lewis Ave. Atascadero | |
| Morro Bay Police Department | Law enforcement in Morro Bay. | 850 Morro Bay Boulevard Morro Bay | |
| Pismo Beach Police Department | Law enforcement in Pismo Beach. | 1000 Bello Ave. Pismo Beach | |
| San Luis Obispo Police Department | Law enforcement in San Luis Obispo. | 575 Santa Rosa San Luis Obispo | |
| Monterey County Sheriff | Law enforcement in Monterey County. | Salinas | |
| Santa Barbara County Sheriff | Law enforcement in Santa Barbara County. | Santa Barbara | |
| **Traffic Control** (City police, fire and public work also support) | | | |
| California Highway Patrol | 1) Primary traffic control support to SLO County.<br>2) Fixed wing or helicopter traffic surveillance. | 675 Calif. Blvd. San Luis Obispo<br>Coastal Div. H.Q. 1122 Laurel Lane San Luis Obispo | |

TITLE: OFFSITE EMERGENCY SUPPORT ORGANIZATION PHONE LIST - EP OR-1 (continued)

| Organization | Function(s) | Location(s) | Phone Number(s) |
|---|---|---|---|
| | Public Alerting and Car | | |
| American Nuclear Insurers (ANI) | Emergency assistance funding of the public for emergency response expenses from an extraordinary nuclear occurance. Assistance is coordinated through CIRC, Corporate Liaison Coordinator. | 270 Farmington Ave. Farmington, Conn. | |
| American Red Cross | Primary operator of care and feeding facilities in support of SLO County. | 1216 Morro San Luis Obispo | |
| Emergency Broadcast Stations | Primary stations for providing emergency public information in support of SLO County. | KVEC 820 Walnut San Luis Obispo | |
| | | KSLY 2895 S. Higuera San Luis Obispo | |
| | | KATY 1146 Monterey San Luis Obispo | |