ENCLOSURE

CONSUMERS POWER COMPANY
PALISADES PLANT
DOCKET 50-255

FINAL SCENARIO
1996 PALISADES EMERGENCY EXERCISE

Consumers Power

POWERING MICHIGAN'S PROGRESS

1996

PALEX

October 22, 1996

With one of the two diesel electrical generators tagged out for maintenance, (recoverable if maintenance on the diesel is completed) the plant undergoes a Steam Generator tube leak and is tripped off line.

Safety Injection will be initiated to maintain Primary Coolant Pressure and will be subsequently throttled. One of the High Pressure pumps will trip but may be recovered by the crew if timely and appropriate actions occur.

Emergency procedures mitigating the casualty will be entered. An Alert will be declared and the Emergency Plan entered. An accountability exercise will require the plant staff to locate an unaccounted for employee. Two Primary Coolant Pumps will be turned off.

A Primary Coolant Pump will become distressed as it undergoes shaft failure. When it fails (just as it is tripping), debris will enter the Primary Coolant System. Within minutes it enters the fuel region of the core and causes fuel failure due to impingement. Local radiation detectors will then give some indication of the failed fuel. At this time, an uncontrolled cool down of the Primary Coolant System begins due to a structural failure of Steam Generator relief valve RV-0707 which allows the valve to open. As the downstream flange on this valve has been improperly assembled (no gasket), the affected steam generator safety valve downstream piping in the middle level of the Component Cooling Room is also spewing contaminated steam into the room. This area will then be inaccessible due to steam, visibility and unknown radiation dose rates.

Attempts to quantify the extent of failed fuel will be reduced to sample analysis and field data. A significant off site contaminated plume will be manifested for at least an hour.

The Site Emergency Director(SED) at the Emergency Off Site Facility (EOF) should raise the event classification to a General Emergency (GE). Protective Action Recommendations should be given to the State of Michigan Authorities recommending some identified sheltering of local inhabitants. As information from the field begins to come in as to the extent and intensity of the radioactive plume, Protective Action Recommendations are escalated to include evacuation locally and in specific areas.

A security door alarm will be received at the Spent Fuel Pool. The security force is prevented from checking the alarm on time by the Operations Support Center OSC (requires significant communications, notifications, and decision making).

A news media team attempts to breech security at the Emergency Off Site Facility (EOF) to obtain an interview with the Site Emergency Director (SED).

Time jump to stable plant conditions (no further release occurring or threatened).

Drill terminated.

Time:

0815 Initial conditions:

Plant is at 100% Power near the end of Core Life.

1-2 Diesel is tagged out of service for maintenance and work is in progress. Mechanical maintenance has removed the first of two Pressure Control Valves (PCVs) 1489 and 1490 from the Air start motors for their replacement. Instrument Technicians have removed the belly tank fuel switches LS 1468, 1471, 1473, and 1475 for a Functional Equivalent Substitution.

Radiation monitor RIA 2325 (Stack Gas) is out of service for calibration.

No other equipment is out of service.

0830 Scenario begins (post turnover etc.):

0835 **70 g.p.m. tube leak begins in the B Steam Generator.**

0836 Condenser Off Gas Radiation Monitor Alarms (RIA 0631 @ 5xE6) and continues to rise (Will lower if it is isolated from the steam flow stream from the B Steam Generator). The Operators enter the Alarm Response Procedure (ARP) and begin to perform directed actions such as: requests confirmatory Steam Generator samples and consider entry into Off Normal Procedures (ONPs) for Steam Generator Tube Leak (ONP 23.2).

0837 Second Charging pump automatically starts, first Charging pump speeds up in an attempt to maintain level in the Pressurizer.

Operators attempt to quantify the leak (may leave Letdown in service). Failed Fuel Monitor Low Flow alarm if Letdown is isolated.

RIA 2323 "B" Main Steam Line Gamma Radiation monitor alarms in the "alert" range.

RIA 2326 Stack Gas low range monitor reading trends upward.

Stack gas monitor trending up.

PCS Pressure begins to lower.

0838 Third Charging pump automatically starts, first Charging pump at max speed (May take longer if letdown is isolated).

0840 Volume Control Tank Low Level alarm (VCT).

0842 Crew quantifies the leak at greater than 50 gallons per minute and then:

The Control Room Supervisor (CRS) orders the reactor plant "tripped" off and the Shift Supervisor (SS) enters the Emergency Implementation (E.I.) Procedure (per Off Normal Procedure 23.2).

OR.... The CRS orders the plant to commence a down power evolution (per Off Normal Procedure ONP 23.2).

IF.... The plant down power evolution is ordered instead of a plant trip, the scenario controllers will **insert a turbine trip** on the simulator to cause the reactor plant to trip and force Emergency Operating Procedure (EOP) entry by the crew.

Post trip actions and diagnosis of Emergency Operating Procedure EOP 1.0 and Emergency Implementation Plan event classification begins.

0847 Steam Generator Blowdowns isolate (affects the ability to obtain Steam Generator chemistry samples.)

0851 Event diagnosis and classification complete.

Control Room Supervisor conducts a "briefing" of the operating crew.

Operators exit the Reactor Trip procedure (EOP1.0) and enter the Steam Generator Tube Rupture procedure (EOP 5.0) or the Functional Recovery procedure (EOP 9.0).

Operators initiate Emergency Boration of the Primary Coolant System.

Shift Supervisor activates the Site Emergency Plan at the **ALERT** level based on Primary Coolant System Integrity. Emergency Siren sounded, site wide accountability initiated.

Work on the 1-2 Diesel is interrupted.

Note: The Diesel 1-2 can be returned to service after installation of the

Pressure Control Valves and Level Switches. The protective tagging would have to be released and cleared, post maintenance testing performed and operability testing done before it would be considered OPERABLE. This would take several hours if undertaken.

Controllers arrange the detention of an employee in the Nuclear Performance Assessment Department (NPAD) office trailer for an Accountability process check.

0855 Operations requests Chemistry samples for activity and Lithium requested on both steam generators in accordance with Emergency Procedures (sample path may be automatically isolated).

Operators request Radiation surveys for both main steam lines.

0900 Operators continue the actions and notifications of Emergency Operating Procedures (EOP 5.0 or 9.0) and Emergency Implementation Procedure EI-2.1.

0905 Safety Injection Actuation Signal (SIAS) initiates on low Pressurizer Pressure.

Operators begin B Steam Generator isolation.

Operators determine adequate boron to be in the Primary Coolant System (PCS) allowing the cooling of the PCS below 525 degrees F. They then start cooling <525 but >500 degrees F. (They must get the plant below 525 degrees F to be able to isolate the B Steam Generator.)

Operators open Primary system relief valves (PORV) isolation valves in anticipation of future over pressure protection needs.

0907 **P 66A High Pressure Safety Injection (HPSI) pump trips** on a faulty supply breaker over current timed (Y phase) relay (the relay turns but does not reset as it should thus resulting in the unwarranted trip of the breaker).

Note: Recovery of this component enhances the plant safeguards capability should the crew elect to troubleshoot, repair, and recover P66A. The relay could be replaced from plant spared storage or the entire breaker may be exchanged with the spare breaker. The coordination of the activities necessary to restore this pump could take several hours.

0913 Operators remove the first two Primary Coolant Pumps (PCP)s from service.

0916 Operators meet the criteria for throttling and then throttle the equipment initiated by the Safety Injection Actuation Signal (SIAS).

0920 The Duty and Call Superintendent takes the Site Emergency Director (SED) role from the Shift Supervisor (SS). Emergency notifications are turned over from the Control Room to the Technical Support Center (TSC).

Chemistry delivers sample results (activity and lithium) if they were attainable (not isolated).

Operators complete the isolation of B Steam Generator.

0921 Accountability is completed and it is determined that one employee is missing.

Search and rescue activities begin.

0950 Site Emergency Director (SED) transfers Command and Control to the Emergency Off Site Facility (EOF) Director.

The missing employee in the NPAD trailer is recovered.

0956 Operators request that the Turbine Building Sump, Condensate, and connected systems requested be sampled.

Operators request additional radiation surveys per EOP Sup #14.

Operators place Low Temperature Over Protection System in service.

1000 Operators begin a plant cooldown below 500 degrees F to curtail the Steam Generator tube leak.

Emergency Procedure actions and notifications continue.

1015 **Intrusion alarm** is received on the Cask Transfer access door due to a faulty mechanism. Security must coordinate their response through the Operations Support Center (OSC). Due to concerns regarding unknown radiation doses in the area, the response may be delayed by the OSC. Interface between security and the OSC must be sufficient to ensure appropriate permissions and notifications occur with regard to the suspension/delay of normal security requirements.

1020 **Primary Coolant Pump (PCP) P50C vibration distress alert alarm** occurs.

1025 **PCP P50C tripped** (due to distress associated with shaft failure) if the crew has not manually tripped the pump by this time.

1031 **B Steam Generator steam safety valve RV- 0707 undergoes structural failure** allowing the valve to lift, causing an uncontrolled cool down of the plant to begin.

1%Failed fuel (due to PCP shaft component debris) occurs causing some local radiation monitors to begin to reflect elevated radiation indications.

Operators exit any "optimal recovery" procedures that they might have been in (EOP 5.0) and enter Emergency Operating Procedure (EOP) 9.0 (if they were not already using this "functional recovery" procedure).

Main steam line gamma monitors (RIA 2323 and 2324), the corridor monitor outside the Control Room (RIA 2309), the Containment area monitor (RIA 2315), and the Component Cooling Upper Level area monitor (penetration and fan room RIA 5710) radiation readings begin to raise slightly.

The Component Cooling Room (CCW) room is uninhabitable due to steam, visibility and unknown radiation as there was no gasket installed in the downstream flange.

A radioactive plume is initiated with some contamination (only on site at first).

Radiation levels around Chemical and Volume Control System components is unaffected as Letdown flow is isolated.

1040 Failed Fuel Monitor (if in service via Letdown flow) alarms and indicates at the top of its scale. If the crew asks to have this monitor "up scaled", **controllers will only simulate doing so and report that it has been up scaled (leave it on the initial scale where it is at the top of the scale).**

Attempts to obtain Primary Coolant System (PCS) samples via Post Accident Sample Panel (PASM Panel) may be made. (Extent of fuel damage is not discernable from the indications of fuel damage which are available at this time). Radiation dose received by those attempting to draw and process such samples will be significant.

Off Gas and Containment Area Monitors (RIA 1805, 1806, 1807, and 1808) are trending higher. **Controllers will raise the background radiation levels on these detectors about for an hour before allowing them to begin to lower or "decay".**

Entry into the Failed Fuel Procedure Off Normal Procedure (ONP) 11.1 may be delayed due to the time it takes for plant conditions to match the "Symptoms" for entry.

1045 The Emergency Off Site Facility (EOF) Director declares a **General Emergency (GE)**

Protective Action Recommendations given to the State of Michigan for shelter within 2 miles and a radius 5 miles for the downwind sector.

First field team radiation readings detected at ½ mile from the site indicate that an off site release is in progress.

1100 Field team data indicates that the **Protective Action Guidelines are exceeded** at 2 miles.

Emergency Procedure actions and notifications continue.

1115 **Protective Action Recommendations** are generated (evacuation to 5 miles in all **sectors and 10 miles in down wind sectors**).

1150 A media identified vehicle breeches Emergency Off Site Facility (EOF) perimeter security.

Security within the Emergency Off Site Facility (EOF) is notified to anticipate an encounter with the media by the perimeter security.

1155 Media team attempts access to Emergency Off Site Facility (EOF) to film and interview the Site Emergency Director (SED).

Emergency Off Site Facility (EOF) security detains the media team and makes the appropriate notifications.

1200 Emergency Procedure actions and notifications continue.

1300 Emergency Procedure actions and notifications continue.

1400 **"Time jump"** conditions announced: Plant is in Cold Shutdown and depressurized on Shutdown Cooling System flow. All electrical and Safety Train equipment is operable. The release has been terminated. Maintenance has "shored up" the depressurized RV-0707 and its downstream flange (from the B Steam Generator) in the Component Cooling Room middle level.

1415 Scenario concluded.

Scenario: **Palex 96** Date 22 October 1996 Time 0800

Message No: 1 Scenario time 0000

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
All oncoming shift personnel

Simulated Plant Conditions:
See the attached data sheets and the initial conditions listed below.

Message:

The plant has been operating at 99.6 % power for more than 100 days and is very near to the end of core life. The plant is running well and few alarms are annunciated. The 1-2 Diesel Generator has been tagged out of service for workmen protection at 0200 and released for Maintenance at 0300. Mechanical Maintenance has removed the first of two pressure control valves (PCVs 1489 and 1490) from the 1-2 Diesel Generator air start motors for their replacement. Instrument Technicians have removed the belly tank fuel oil switches (LS-1468, 1471, 1473, and 1475) from the 1-2 Diesel Generator for a Functional Equivalent Substitution of the switches. RIA 2325 Radiation Monitor (Stack Gas Effluent particulate Iodine) is out of service for calibration. No other equipment is degraded or out of service. The plant is at 11.7 GWD with PCS boron at 71 ppm. Xenon is at equilibrium and target ASI is .02. Dose equivalent iodine is 8.5 E^{-2} μ/Ci and Iodine 131 is at 2.1 E^{-1} μ/Ci. The Primary to Secondary Leak Rate based on Xenon 133 analysis of condenser off gas is at 7 E^{-5} gpm. The weather is cool, partly cloudy, with a 10% chance of precipitation.

For Controller use only

Controller Notes:

Selected players have been given copies of these initial conditions at the player briefing. The Simulator operator has brought up the **Simulator in IC 21** with 1-2 DG OOC (**Remote ED-45B Local over speed trip lever tripped** and the red "unit" light turned off **override DG 1-2 Pus-R** to simulate "tagged out" configuration). **RIA 2325** is on override "off". The **simulator has been placed in "run" with charts etc. on.**

Action expected:

The SCR staff should thoroughly familiarize themselves with the provided conditions.

Scenario: **Palex 96** Date 22 October 1996 Time 0815

Message No: 2 Scenario time 0015

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:
Instruct the Control Room (simulator) to announce the following message: "Attention all personnel. The Emergency exercise will commence shortly. All announcements related to the exercise will be preceded and followed by the statement 'This is a drill.'"

For Controller use only

Controller Notes:

Note: The Diesel 1-2 can be returned to service after reinstallation of Pressure Control Valves and Level Switches. The protective tagging would have to be released and cleared, post maintenance testing performed and operability testing done before it would be considered fully OPERABLE even if it were placed back in service. This would take several hours if undertaken. The Simulator Operator restores the diesel to service when "clearing" the protective tagging order (remote **ED-45B local over speed trip lever** for and the **red "unit" light DG 1-2 PUS-R** lit on 1-2 DG). AO Controller will have to get word to the Simulator Operator when the "clearing of the tags" has begun.

Action expected:

Control Room makes the Drill preparatory announcement.

Scenario: **Palex 96** Date 22 October 1996 Time 0830

Message No: 3 Scenario time 0030

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

The Simulator Operator will **insert a 70 gpm tube rupture** in the B Steam Generator (**MF- SG01B at .07**) in 5 minutes (0835 and runtime 0035). If a plant down power evolution is ordered instead of a plant trip, the scenario controllers will **insert a turbine trip** (**MF TC 01**) on the simulator to cause the reactor to trip and force Emergency Operating Procedure (EOP) entry.

Action expected:

Operators begin to detect/diagnose the casualty. Condenser Off Gas Radiation Monitor Alarms (RIA 0631 @ 5xE6) and continues to rise (Will lower if it is isolated from the steam flow stream from the B Steam Generator). The Operators enter the **Alarm Response Procedure** (ARP) and begin to perform directed actions such as: request confirmatory Steam Generator samples and consider entry into Off Normal Procedures (ONPs) for Steam Generator Tube Leak (ONP 23.2). They should then enter **ONP 23.2** for procedural guidance. The "B" Charging pump automatically starts and "A" Charging pump speeds up in an attempt to maintain level in the Pressurizer. Operators attempt to quantify the leak (may leave Letdown in service). The Failed Fuel Monitor Low Flow alarm will be received if Letdown is isolated. RIA 2323 "B" Main Steam Line Gamma Radiation monitor alarms in the "alert" range. RIA 2326 Stack Gas low range monitor reading trends upward. Stack gas monitor trending up. PCS Pressure begins to lower. The "C" Charging pump automatically starts, "A" Charging pump reaches maximum speed (if letdown is not isolated). Volume Control Tank Low Level alarm (VCT) annunciates. When the operators determine that the **PCS leak is greater than 50 gpm** and that it possibly is going into one of the Steam Generators, the following should occur: The Control Room Supervisor (CRS) orders the reactor plant "tripped" off or powered down, post trip actions and **diagnosis** per Emergency Operating Procedure **EOP 1.0** begins.

Scenario: **Palex 96** Date 22 October 1996 Time 0845

Message No: 4 Scenario time 0045

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Controllers arrange the detention of an employee in the Nuclear Performance Assessment Department (NPAD) office trailer for an Accountability process check.

Action expected:

Steam Generator Blowdowns isolate (affects the ability to obtain Steam Generator chemistry samples.) Operators should determine that the PCS leak is is a tube leak and that it is most likely in the B Steam Generator. They should have entered EOP 1.0 upon the reactor trip. Operators continue to diagnose the casualty in EOP 1.0. When the post trip actions and event diagnosis are complete, the following activities should occur: Control Room Supervisor (CRS) conducts a "briefing" of the operating crew, Operators exit the Reactor Trip procedure (EOP1.0) and enter the Steam Generator Tube Rupture procedure (**EOP 5.0**) or the Functional Recovery procedure (**EOP 9.0**), Operators initiate Emergency Boration of the Primary Coolant System, the Shift Supervisor completes event classification and activates the **Site Emergency Plan** at the **ALERT** level based on Primary Coolant System Integrity, the **Emergency Siren is sounded, site wide accountability is initiated,** work on the 1-2 Diesel is interrupted as workers assemble in accountability areas, Operators requests Chemistry samples for activity and Lithium on both steam generators in accordance with Emergency Procedures, Operators request Radiation surveys for both main steam lines.

Scenario: **Palex 96** Date 22 October 1996 Time 0900

Message No: 5 Scenario time 0100

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Simulator Operator causes **P 66A High Pressure Safety Injection (HPSI) pump to trip** after it is automatically started on Safety Injection Actuation Signal (SIAS) for low Pressurizer pressure (**MF SI-01**). **Note:** Recovery of this component enhances the plant safeguards capability **should the crew elect to troubleshoot, repair, and recover P66A**. The relay has a faulty supply breaker over current timer on the Y phase (the relay turns but does not reset as it should thus resulting in the unwarranted trip of the breaker). **AO and Maintenance Controllers must know which relay to indicate tripped** to the players. The relay could be replaced from plant spared storage or the entire breaker may be exchanged with the spare breaker. The coordination of the activities necessary to **restore this pump could take several hours.** The **AO controller will have to notify the Simulator Operator** when the initial tagging and final "clearing" has begun to facilitate installation and deletion of (**MF SI-01**) the P 66A malfunction which removes and restores the pump to service. If an **Alert is not declared** by 0910, **Controllers will "force" the Alert** declaration.

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures (EOP 5.0 or 9.0) and Emergency Implementation Procedure EI-2.1 and an **Alert** declared.. The following should be expected: Safety Injection Actuation Signal (SIAS) initiates on low Pressurizer pressure, Operators determine adequate boron to be in the Primary Coolant System (PCS) allowing the cooling of the PCS below 525 degrees F., they then start cooling <525 but >500 degrees F. (They must get the plant below 525 degrees F to be able to isolate the B Steam Generator.), Operators begin B Steam Generator isolation, Operators open Primary system relief valves (PORV) isolation valves in anticipation of future over pressure protection needs, **P 66A High Pressure Safety Injection (HPSI) pump trips**, Operators detect the loss of P66A, Operators remove the first two Primary Coolant Pumps (PCP)s from service at 1300 Psi as directed by procedure.

Scenario: **Palex 96** Date 22 October 1996 Time 0915

Message No: 6 Scenario time 0115

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

If Radiation Protection performs a survey of the steam piping prior to 1030, the **Controller can indicate that the levels are near normal with B generator steam lines slightly elevated** (After 1030, the area will not be accessible).

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures (EOP 5.0 or 9.0) and Emergency Implementation Procedure. This should include the meeting of the SIAS throttling criteria and the possible throttling of some of this equipment, as well as the possible completion of the isolation of B Steam Generator. Chemistry delivers sample results (activity and lithium) if they were attained. **The Duty and Call Superintendent takes the Site Emergency Director (SED) role from the Shift Supervisor (SS). Emergency notifications are turned over from the Control Room to the Technical Support Center (TSC). Accountability is completed and it is determined that one employee is missing. Search and rescue activities begin.**

Scenario: **Palex 96** Date 22 October 1996 Time 0930

Message No: 7 Scenario time 0130

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures (EOP 5.0 or 9.0) and Emergency Implementation Procedure

Scenario: **Palex 96** Date 22 October 1996 Time 0945

Message No: 8 Scenario time 0145

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures (EOP 5.0 or 9.0) and Emergency Implementation Procedure. **Site Emergency Director (SED) transfers Command and Control to the Emergency Off Site Facility (EOF) Director.** The **missing employee in the NPAD trailer is recovered.** Operators request that the Turbine Building Sump, Condensate, and connected systems requested be sampled. Operators request additional radiation surveys per EOP Sup #14. Operators place Low Temperature Over Protection System in service as they are able.

Scenario: **Palex 96** Date 22 October 1996 Time 1000

Message No: 9 Scenario time 0200

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures (EOP 5.0 or 9.0) and Emergency Implementation Procedure. Operators begin a plant cooldown below 500 degrees F to curtail the Steam Generator tube leak.

Scenario: **Palex 96** Date 22 October 1996 Time 1015

Message No: 10 Scenario time 0215

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Controllers cause a the SFP access **door to alarm** (with a "nonplaying" Security Officer). At 1020, Primary Coolant Pump (PCP) P50C vibration distress alert alarm occurs (**Simulator Operator inserts RC-16C**). **PCP P50C tripped by the Simulator operator** after 5 minutes (due to distress IAW shaft failure) if the crew has not manually tripped the pump by this time. Some **component material** from the Primary Coolant Pump (PCP) enter the system and begin to **access the reactor core**. If Letdown has been isolated by the crew, The **Simulator Operator overrides the Control Valve hand switch to close** to prevent its reopening. If it is still in service, then the **Simulator Operator will override the Hand Switch for CV 2001 to "auto" and override TIC 0201 to "1.0"** (could be preloaded on remote 5 for easier implementation).

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures (EOP 5.0 or 9.0) and Emergency Implementation Procedure. Operators may trip P50C Primary Coolant Pump. **Intrusion alarm** is received on the Spent Fuel Pool access door due to a faulty mechanism. Security must **coordinate their response through the Operations Support Center (OSC)**. Due to concerns regarding unknown radiation doses in the area, the response may be delayed by the OSC. Interface between security and the OSC must be sufficient to ensure appropriate permissions and notifications occur with regard to the suspension/delay of normal security requirements.

Scenario: **Palex 96** Date 22 October 1996 Time 1030

Message No: 11 Scenario time 0230

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:
B Steam Generator steam safety valve RV-0707 (last of the 12) **undergoes structural failure and lifts (MS-06B)**, causing an uncontrolled cool down of the plant to begin as **contaminated steam exits the North West Safety Valve plenum (3 valves per plenum) forming a plume (AO Controller).** The downstream flange was improperly assembled (no gasket) and is allowing large quantities of contaminated **steam to flow into the Component Cooling Water (CCW) Room** and out of its "Jail House Doors" (**AO Controller**). Visibility in the CCW Room is zero. **1% Failed fuel** (due to PCP shaft debris) occurs (**RC-22 @ 1.0**) causing some local radiation monitors to begin to reflect elevated radiation indications. If the crew asks for the Failed Fuel monitor "up scaled", **controllers will report it done but not perform the action.** Attempts to obtain Primary Coolant System (PCS) samples via Post Accident Sample Panel (PASM Panel) may be made but will result in significant dose to participants. (Extent of fuel damage is not otherwise discernable). Off Gas and Containment Area Monitors (RIA 1805, 1806, 1807, and 1808) are trending higher. **Controllers will raise the background radiation levels on these detectors for about an hour before allowing them to begin to lower/decay.**

Action expected:
Operators continue the actions and notifications of the Emergency Implementation Procedure. When the Excess Steam Demand Event occurs, Operators exit any "optimal recovery" procedures that they might have been in (EOP 5.0) and enter Emergency Operating Procedure (EOP) 9.0 if they were not already using this "functional recovery" procedure. **Main steam line gamma monitors (RIA 2323 and 2324), the corridor monitor outside the Control Room (RIA 2309), the Containment area monitor (RIA 2315), and the Component Cooling Upper Level area monitor (penetration and fan room RIA 5710) radiation readings begin to raise slightly**. The Component Cooling Room (CCW) room is uninhabitable due to steam, visibility, high radiation, and heated unlagged metal structures. Failed Fuel Monitor (if Letdown is in service) alarms and indicates at the top of its scale. Entry into the Failed Fuel Procedure Off Normal Procedure (ONP) 11.1 is delayed due to "symptoms" not yet matching conditions. the time it takes for plant conditions to match the "Symptoms" for entry.

Scenario: **Palex 96** Date 22 October 1996 Time 1045

Message No: 12 Scenario time 0245

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

First field team radiation readings detected at ½ **mile from the site** indicate that an off site **release is in progress**.

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures 9.0 and Emergency Implementation Procedure. The Emergency Off Site Facility (EOF) Director declares a **General Emergency (GE). Protective Action Recommendations** given to the State of Michigan for **shelter within 2 miles and a radius 5 miles for the downwind sector.** First field team radiation readings detected at ½ mile from the site indicate that an off site release is in progress.

Scenario: **Palex 96** Date 22 October 1996 Time 1100

Message No: 13 Scenario time 0300

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Field team data indicates that the **Protective Action Guidelines are exceeded** at 2 miles.

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure. Field team data indicates that the **Protective Action Guidelines are exceeded** at 2 miles.

Scenario: **Palex 96** Date 22 October 1996 Time 1115

Message No: 14 Scenario time 0315

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Steam, Heat, and Visibility are yet preventing entry into the Component Cooling Water Room. The Air Monitoring Alarm system outside the Control Room (in the plume area) does not alarm (though its read out continues to elevate) because of its background substitution feature. The approximate 4 to 5 mR/hr field is detectable on **RIA 2310 which elevates to its 5 mR/hr alarm** in the near future.

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure. **Protective Action Recommendations** are generated (**5 evacuation to miles in all sectors and 10 miles in down wind sectors**).

Scenario: **Palex 96** Date 22 October 1996 Time 1130

Message No: 15 Scenario time 0330

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure.

Scenario: **Palex 96** Date 22 October 1996 Time 1145

Message No: 16 Scenario time 0345

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

A media identified vehicle ignores/breeches Emergency Off Site Facility (EOF) perimeter security. The media team then attempts to access Emergency Off Site Facility (EOF) puposing to film and interview the Site Emergency Director (SED).

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure. Security within the Emergency Off Site Facility (EOF) is notified to anticipate an encounter with the media reported by the perimeter security. Emergency Off Site Facility (EOF) security detains the media team and makes the appropriate notifications.

Scenario: **Palex 96** Date 22 October 1996 Time 1200

Message No: 17 Scenario time 0400

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure.

Scenario: **Palex 96** Date 22 October 1996 Time 1215

Message No: 18 Scenario time 0415

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure.

Scenario: **Palex 96** Date 22 October 1996 Time 1230

Message No: 19 Scenario time 0430

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure.

Scenario: **Palex 96** Date 22 October 1996 Time 1245

Message No: 20 Scenario time 0445

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure.

Scenario: **Palex 96** Date 22 October 1996 Time 1300

Message No: 21 Scenario time 0500

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure.

Scenario: **Palex 96** Date 22 October 1996 Time 1315

Message No: 22 Scenario time 0515

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure.

Scenario: **Palex 96** Date 22 October 1996 Time 1330

Message No: 23 Scenario time 0530

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure.

Scenario: **Palex 96** Date 22 October 1996 Time 1345

Message No: 24 Scenario time 0545

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

Action expected:

Operators continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure.

Scenario: **Palex 96** Date 22 October 1996 Time 1400

Message No: 25 Scenario time 0600

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

At 1405 "**Time jump**" conditions (24 hours) are announced in **each facility** as follows: "Plant is in Cold Shutdown and depressurized on Shutdown Cooling System flow (**no steam being formed and no plume being released**). All electrical and Safety Train equipment is operable. Maintenance has **closed RV-0707** steam generator relief valve in the middle level Component Cooling Room." **The EOF Director should make this announcement to the Plant over the P.A.** system. The conclusion of the scenario is eminent at the "time jump" announcement.

Action expected:

Operators initially continue the actions and notifications of Emergency Operating Procedures EOP 9.0 and Emergency Implementation Procedure until the "time jump".

Scenario: **Palex 96** Date 22 October 1996 Time 1415

Message No: 26 Scenario time 0615

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

The last set of data sheets reflect the "Cold Shut Down" conditions of the 24 hour "time jump".

Action expected:

Scenario **concluded**, Conclusion announced.

Scenario: **Palex 96** Date 22 October 1996 Time 1415

Message No: 26 Scenario time 0615

Palisades Nuclear Plant
Emergency Preparedness Exercise Form

Message For:
Control Room personnel

Simulated Plant Conditions:
See the attached data sheets.

Message:

For Controller use only

Controller Notes:

The last set of data sheets reflect the "Cold Shut Down" conditions of the 24 hour "time jump".

Action expected:

Scenario **concluded**, Conclusion announced.

PANEL C-13 INSTRUMENTS

:MDSATE STO TANK LVL	78.75	percent
:NMT BLDG DOME TEMP	82.48	Deg F
3IRW TANK LEVEL	96.85	percent
:NMT WR PRESS 1805A	.00	psig
:NMT SUMP WATER LVL	585.01	feet
:NMT FLOOR WATER LVL	590.30	feet
SAFETY INJ T-82A LVL	84.56	percent
SAFETY INJ T-82B LVL	84.30	percent
SAFETY INJ T-82C LVL	84.24	percent
SAFETY INJ T-82D LVL	84.27	percent
SAFETY INJ T-82A PRS	216.90	psig
SAFETY INJ T-82B PRS	215.93	psig
SAFETY INJ T-82C PRS	216.99	psig
SAFETY INJ T-82D PRS	216.80	psig
SIAS SIGNAL STATUS	Normal	

ANNUCIATOR PANEL K-13

HI PRES SIG STAT	Normal
MT HI RAD SIG STAT	Normal

PANEL C-12 INSTRUMENTS

BOR ACID TK T-53A LVL	98.00	percent
BOR ACID TK T-53B LVL	98.00	percent
PRI COOLT PMP A amps	.00	amps
PRI COOLT PMP B amps	.00	amps
PRI COOLT PMP C amps	.00	amps
PRI COOLT PMP D amps	.00	amps
HOT LEG LP 1 TEMP	124.47	Deg F
HOT LEG LP 2 TEMP	124.49	Deg F
COLD LEG LP 1A TEMP	113.31	Deg F
COLD LEG LP 2A TEMP	100.69	Deg F
COLD LEG LP 1B TEMP	113.31	Deg F
COLD LEG LP 2B TEMP	100.69	Deg F
SUBCOOLED MAR LOOP A	89.77	Deg F
SUBCOOLED MAR LOOP B	89.76	Deg F
PZR WIDE RNG PRESS	15.41	psia
PZR SI CHANNEL PRESS	*******	psia
STM GEN E-50A LVL	71.72	percent
STM GEN E-50A PRESS	14.28	psia
STM GEN E-50A STM FLO	.00	Mlbm/hr
FW FLOW SGA	.00	Mlbm/hr
STM GEN E-50B LVL	.00	percent
STM GEN E-50B PRESS	14.28	psia
STM GEN E-50B STM FLO	.00	Mlbm/hr
FW FLOW SGB	.00	Mlbm/hr

Site Emergency Planning Exercise
Plant Status Report

10/23/1996 14:15

PANEL C-01 INSTRUMENTS

STM GEN FD P-1A DISCH	14.99	psig
STM GEN FD P-1B DISCH	14.99	psig
SG AUX FD PMP C DISCH	16.90	psig
AUX FW PMP TURB STM P	.00	psig
SG AUX FD PP DISC HDR	16.90	psig
CNDR HOTWELL LEVEL	170.85	percent
CNDR VACUUM WR	.00	inHg
SG E50B ATMOS RV 779	Closed	
AUX FW PMP P-8A MOTOR	Stopped	
TURB DR AUX FW P-8B	Off	
AUX FW PMP P-8C	Stopped	
HTR DRAIN PMP P-10A	Stopped	
HTR DRAIN PMP P-10B	Stopped	
CONDENSATE PMP P2A	Off	
CONDENSATE PMP P2B	Off	

PANEL C-11 INSTRUMENTS

[redacted]FW FLOW STM E-50A	.00	gpm
[redacted] FW FLOW STM E-50A	.00	gpm
[redacted]X FW FLOW STM E-50B	.00	gpm
AUX FW FLOW STM E-50B	.00	gpm
CNDR VACUUM PRESSURE	.00	inHg

PANELS C-11 AND BACK OF C-11A

CNMT RAD ISO RI1805	.62E+00	rem/hr
CNMT RAD ISO RI1806	.70E+00	rem/hr
CNMT RAD ISO RI1807	.61E+01	rem/hr
CNMT RAD ISO RI1808	.30E+01	rem/hr
CNMT HI R GAM RIA2321	.16E-01	rem/hr
CNMT HI R GAM RIA2322	.15E-01	rem/hr
CNMT H2 CONC RIGHT	.00E+00	percent
CNMT H2 CONC LEFT	.00E+00	percent
STM GEN A GAM RIA2324	.33E+02	rem/hr
STM GEN B GAM RIA2323	.17E+02	rem/hr

DATALOGGER ONLY INPUTS

GEN GROSS OUTPUT	.00	Mw
STAT NET ELEC OUTPUT	.00	Mw
GRP 1 GRP TARGET ROD	.00	inches
GRP 2 GRP TARGET ROD	.00	inches
GRP 3 GRP TARGET ROD	.00	inches
GRP 4 GRP TARGET ROD	.00	inches
GRP A GRP TARGET ROD	.00	inches
GRP B GRP TARGET ROD	.00	inches
AVG CET TEMP	128.43	Deg F

PANEL C-08 INSTRUMENTS

ERVICE WTR PMP P-7A	Started
ERVICE WTR PMP P-7B	Started
ERVICE WTR PMP P-7C	Started
OMP CLG PMP P-52A	Started
OMP CLG PMP P-52B	Stopped
OMP CLG PMP P-52C	Started
NMT AIR CLR FAN V-1A	Stopped
NMT AIR CLR FAN V-2A	Stopped
NMT AIR CLR FAN V-3A	Started
NMT AIR CLR FAN V-4A	Started

PANEL C-03 INSTRUMENTS

IPSI PUMP P-66A	Stopped
IPSI PUMP P-66B	Stopped
LPSI PUMP P-67A	Stopped
LPSI PUMP P-67B	Started
NMT SPRAY PMP P-54A	Stopped
SPRAY PMP P-54B	Stopped
SPRAY PMP P-54C	Stopped
& REF TK CV-3057	Closed
NMT SUMP CV-3029	Closed
SI & REF TK CV-3031	Closed
NMT SUMP CV-3030	Closed

PANEL C-02 INSTRUMENTS

SDC HX PCS OUT TEMP	100.80 Deg F
VOLUME CNTRL TK TEMP	68.83 Deg F
VOLUME CNTRL TK PRESS	35.28 psig
VOLUME CNTRL TK LEVEL	70.00 percent
PRI CLT LETDOWN FLOW	.00 gpm
CHARGING LINE FLOW	.00 gpm
QUENCH TK T-73 PRESS	.01 psig
QUENCH TK T-73 LEVEL	64.16 percent
PZR SI CHANNEL PRESS	15.41 psig
PZR T-72 LEVEL	66.11 percent
PZR WR LEVEL IND	43.23 percent
PZR HTR TRANS amps	.00 amps
PZR HTR TRANS amps	.00 amps
PCS LOOP1 TAVG	118.89 Deg F
PCS LOOP2 TAVG	112.58 Deg F
STUP CNT RATE X NI001	19.09 cps
STUP CNT RATE Y NI002	19.38 cps
WIDE RNG POWER NI003	.00 percent
WIDE RNG POWER NI004	.00 percent
POWER RNG CHANNEL A	.00 percent
POWER RNG CHANNEL B	.00 percent
PZR PWR REL PRV-1042B	Closed
PZR POR BLK VLV 1042A	Open
PZR PWR REL PRV-1043B	Closed
PZR POR BLK VLV 1043A	Open
CHARGING PUMP P-55A	Stopped
CHARGING PUMP P-55B	Stopped
CHARGING PUMP P-55C	Stopped
PRI COOLANT P-50A	Stopped
PRI COOLANT P-50B	Stopped
PRI COOLANT P-50C	Stopped
PRI COOLANT P-50D	Stopped

Site Emergency Planning Exercise
351 Meteorlogical Report 10/23/1996 14:15

Temperture
8.5 C

Stability

E

Height 60 Meters
Wind Direction 230. Circular Degrees
Std Deviation 7. Circular Degrees
Wind Speed 9. mph

Height 10 Meters
Wind Direction 230. Circular Degrees
Std Deviation 7. Circular Degrees
Wind Speed 7. mph

Site Emergency Planning Exercise
Radiological Report

10/23/1996 14:15

Fuel Handling
Mon 1 1.00E-01 mr/hr
Mon 2 1.00E-01 mr/hr

Liquid RAD Monitors			Containment			Stack Monitors		
CW	0915	1.30E-01 cpm	RIA1805	6.16E-01	r/hr	RIA2326	6.07E+01	cpm
W	0833	3.80E+01 cpm	RIA1806	6.98E-01	r/hr	RIA2327	1.10E-01	mr/hr
AD Waste	1049	4.54E+02 cpm	RIA1807	6.08E+00	r/hr			
G Blow dn	0707	1.30E+03 cpm	RIA1808	3.02E+00	r/hr			
ix basin	1323	2.80E-01 cpm	Hi rng L	1.56E-02	r/hr	RIA2318	8.37E+03	cpm
ailed Fuel	0202B	1.00E+02 cpm	Hi rng R	1.46E-02	r/hr	RIA2319	8.37E+01	cpm
ain stm A	2324	3.28E+01 cpm						
ain stm B	2323	1.72E+01 cpm						

Dirty Waste Drain
T-60W 14.2 %
T-60E 8.9 %

Control room
Monitor 9.77E-02 mr/hr

Cnd off gas	2.50E+01	cpm
EESG RAD	2.50E+02	cpm
WESG RAD	2.20E+02	cpm
RAD WSTE VNT	3.80E+01	cpm
SFP North	1.00E-01	mr/hr
SFP South	1.20E-01	mr/hr

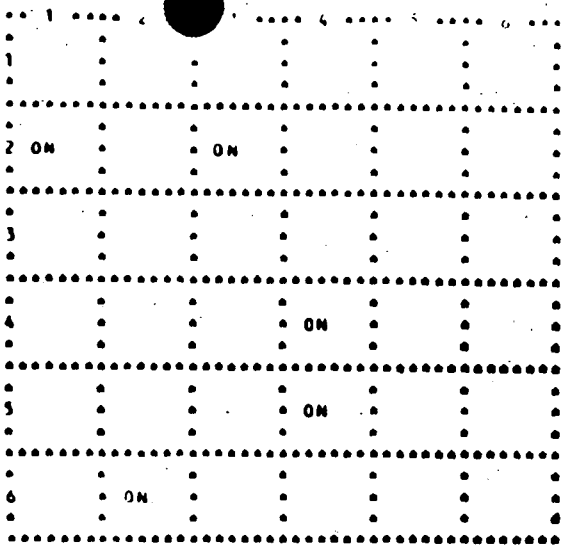
ANNUNCIATOR TEST PRINT OUTS

K-01

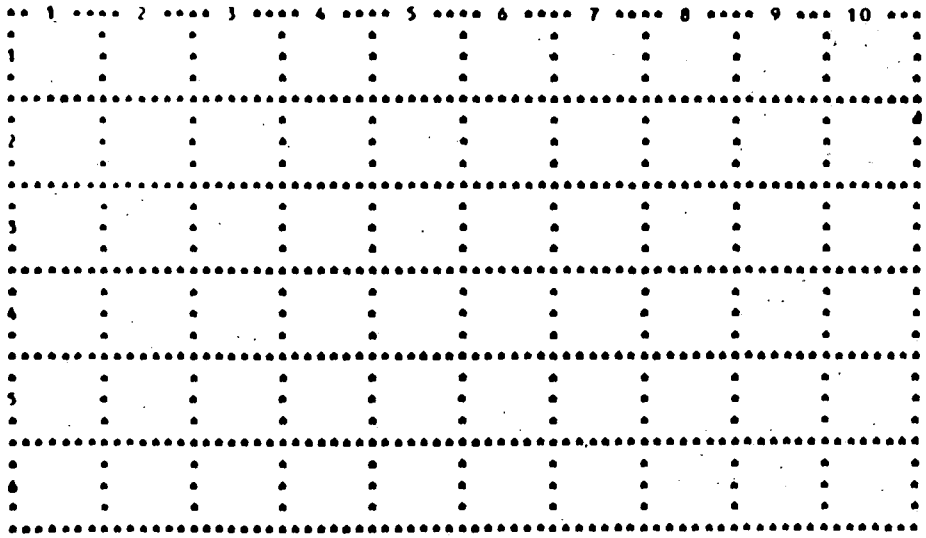
	1	2	3	4	5	6	7	8	9	10	11	12
	ON				ON			ON	ON		ON	
2				ON				ON	ON			
3										ON	ON	
4		ON						ON		ON		
5		ON								ON		
6								ON	ON	ON	ON	

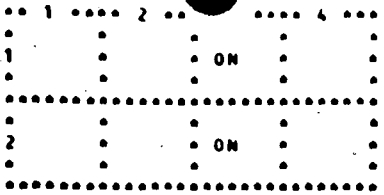
K-02

	1	2	3	4	5	6	7	8	9	10	11	12
1												
2												
3												
4												
5												
6												

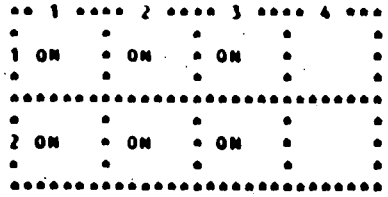


K-05

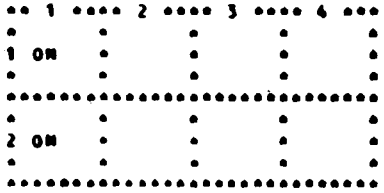




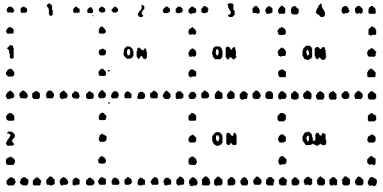
K-06B



K-06C



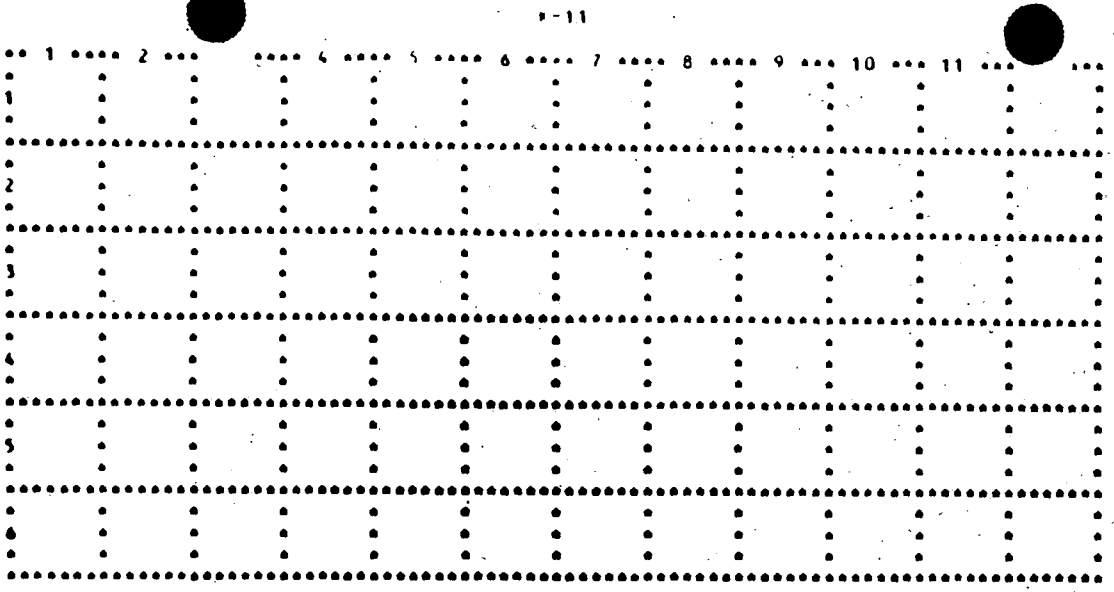
K-06D

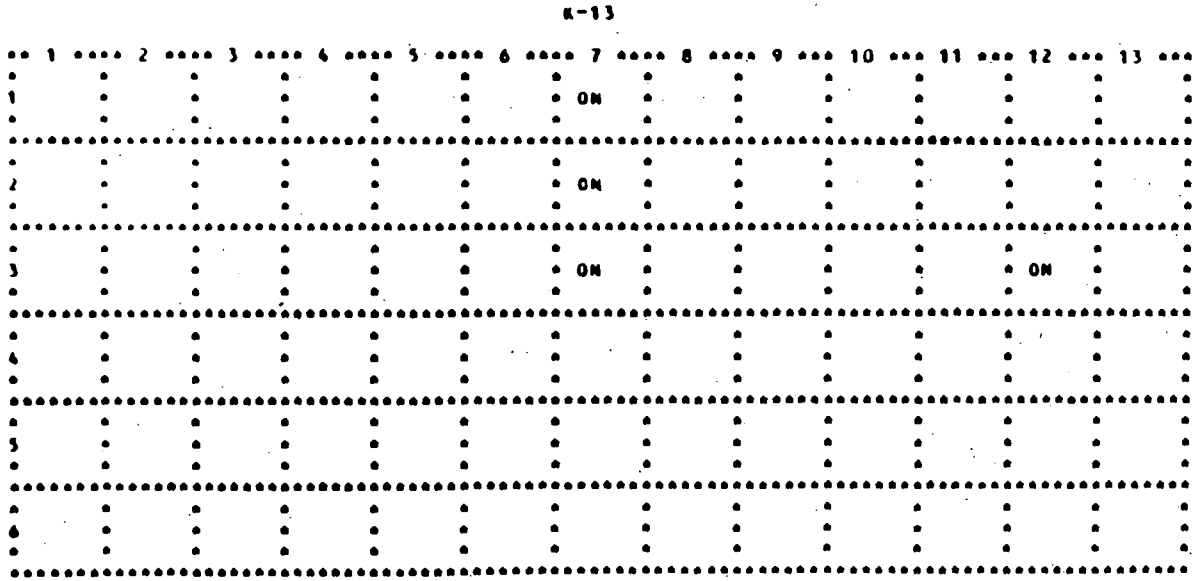


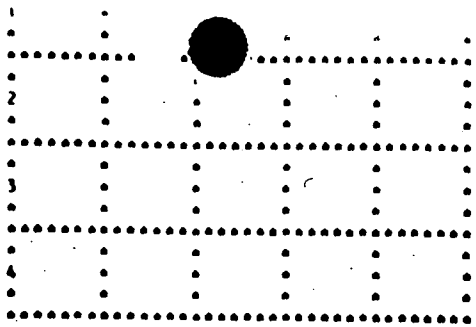
	1	2	3	4	5	6	7	8	9	10	11	
1							ON			ON	ON	
2							ON			ON		
3							ON			ON		
4	ON						ON			ON		ON
5						ON			ON			
6									ON			

K-09

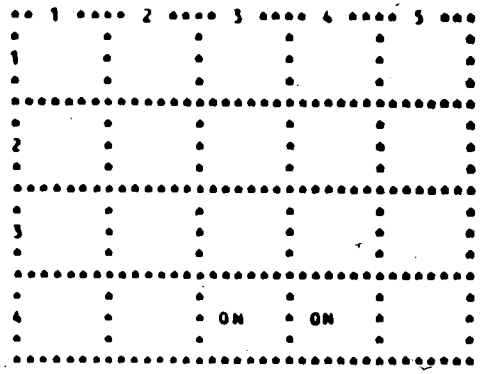
	1	2	3	4	5	6	7	8	9	10	11	12
1		ON					ON	ON	ON			ON
2		ON					ON	ON	ON			ON
3		ON					ON	ON	ON			ON
4		ON					ON	ON	ON		ON	
5			ON	ON	ON	ON	ON	ON				
6				ON	ON	ON	ON					ON


A-11
1 2 3 4 5 6 7 8 9 10 11
1
2
3
4
5
6

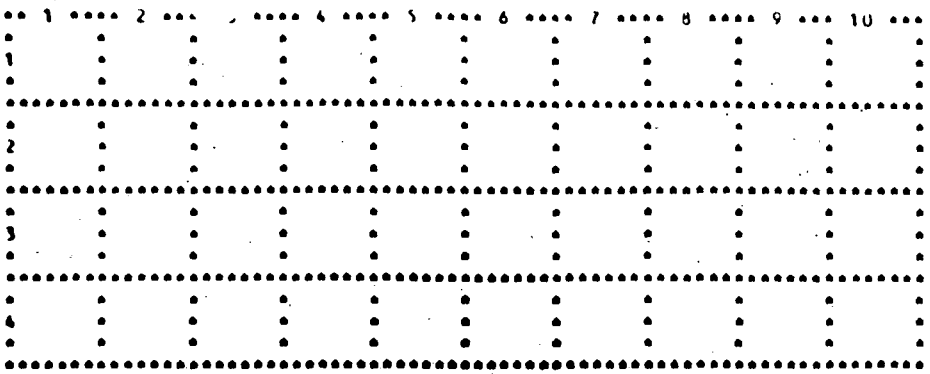

A-13
1 2 3 4 5 6 7 8 9 10 11 12 13
1
ON
2
ON
3
ON
ON
4
5
6



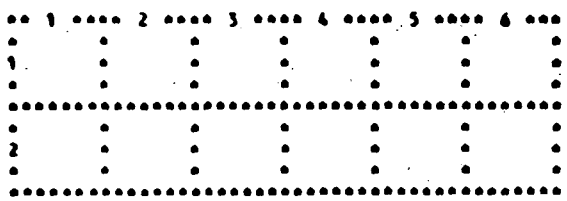
K-22



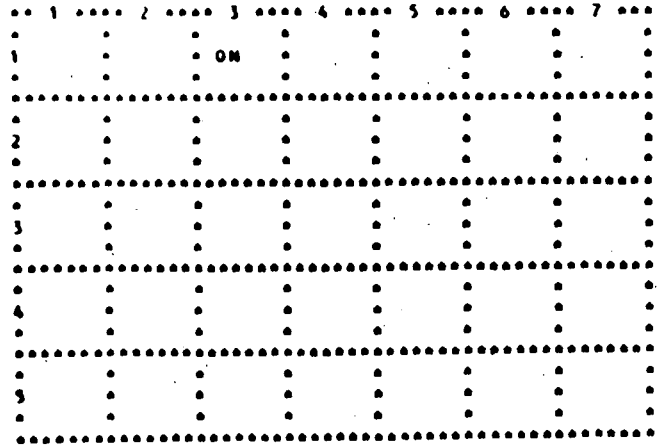
K-33

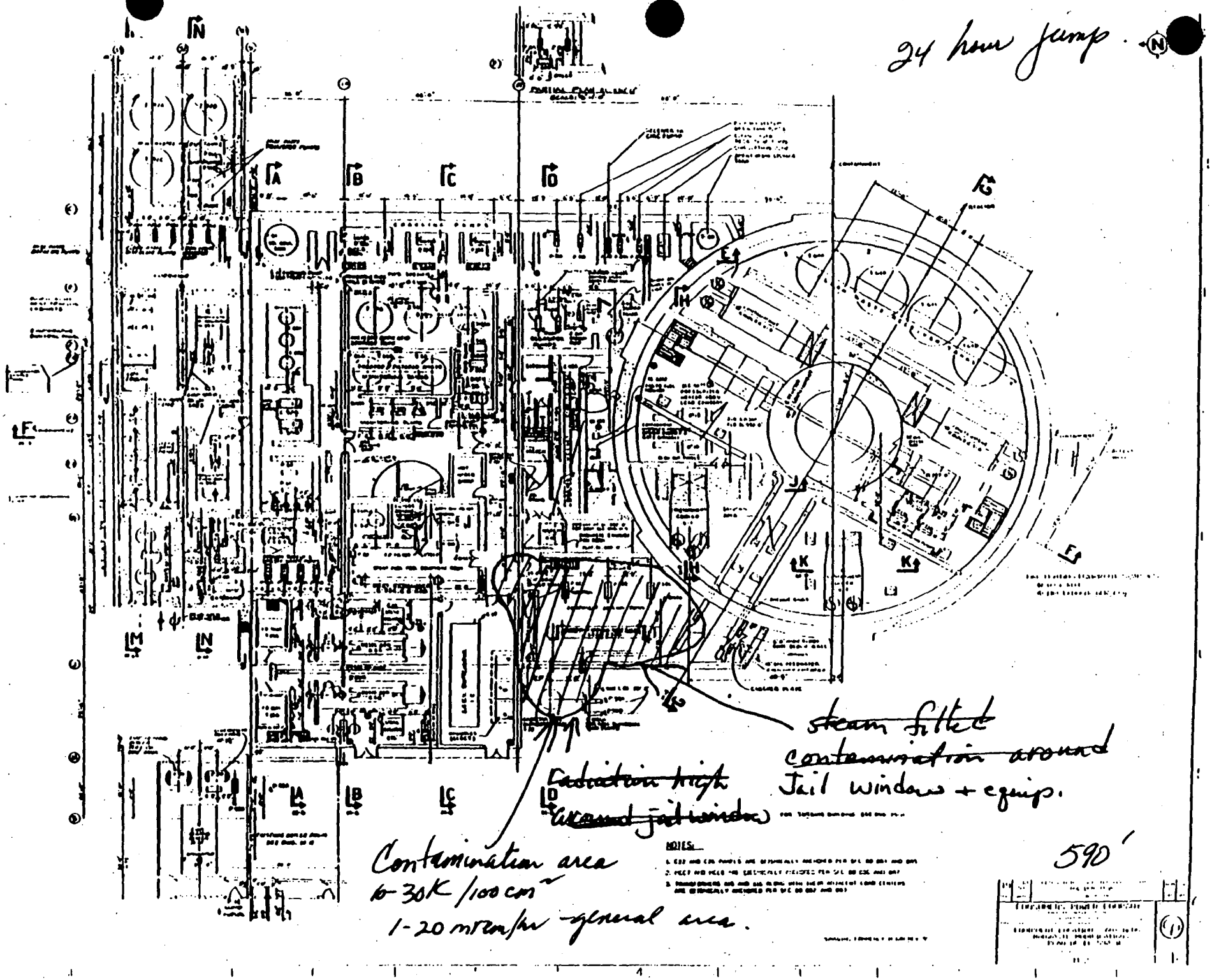


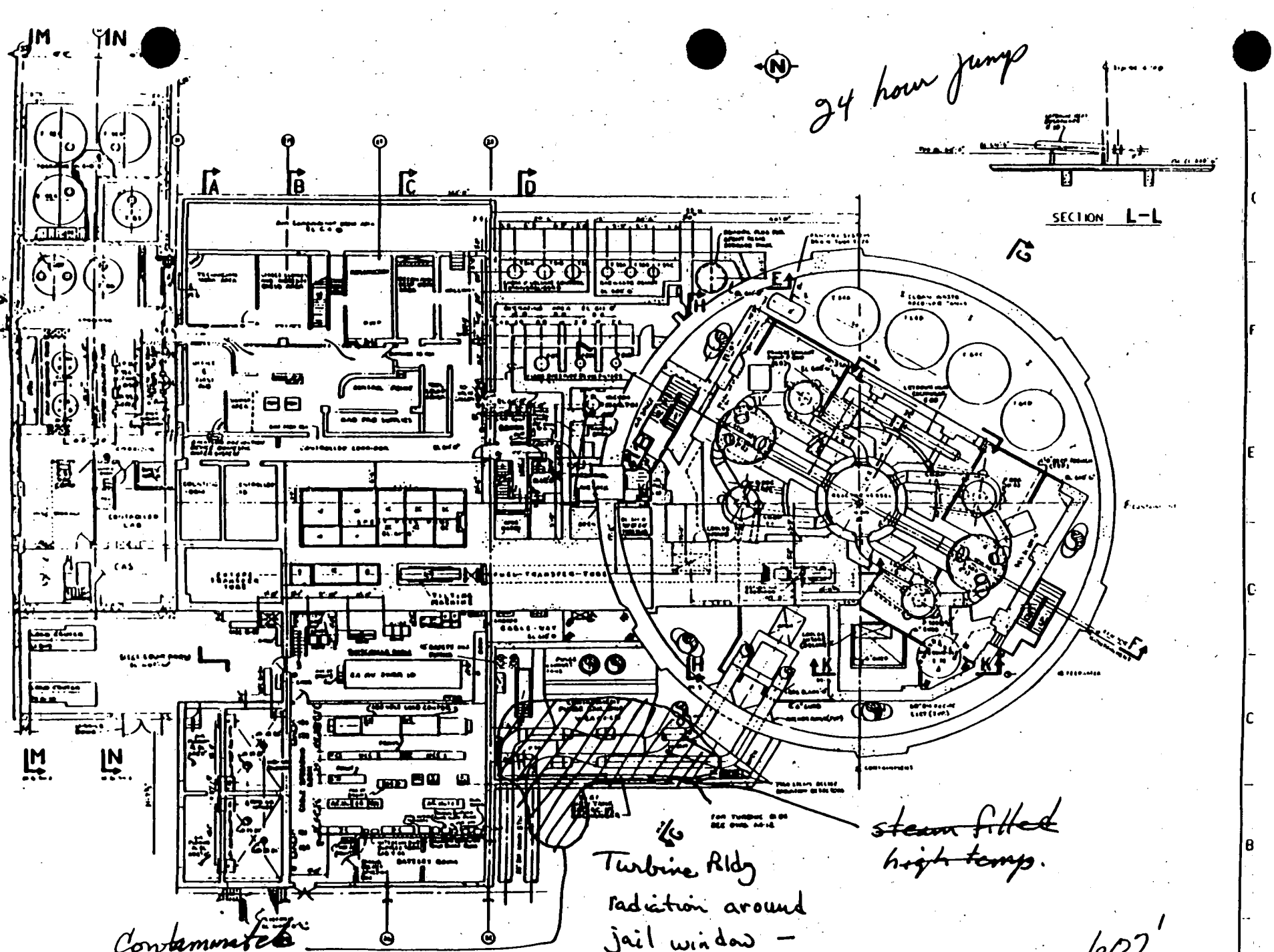
K-34

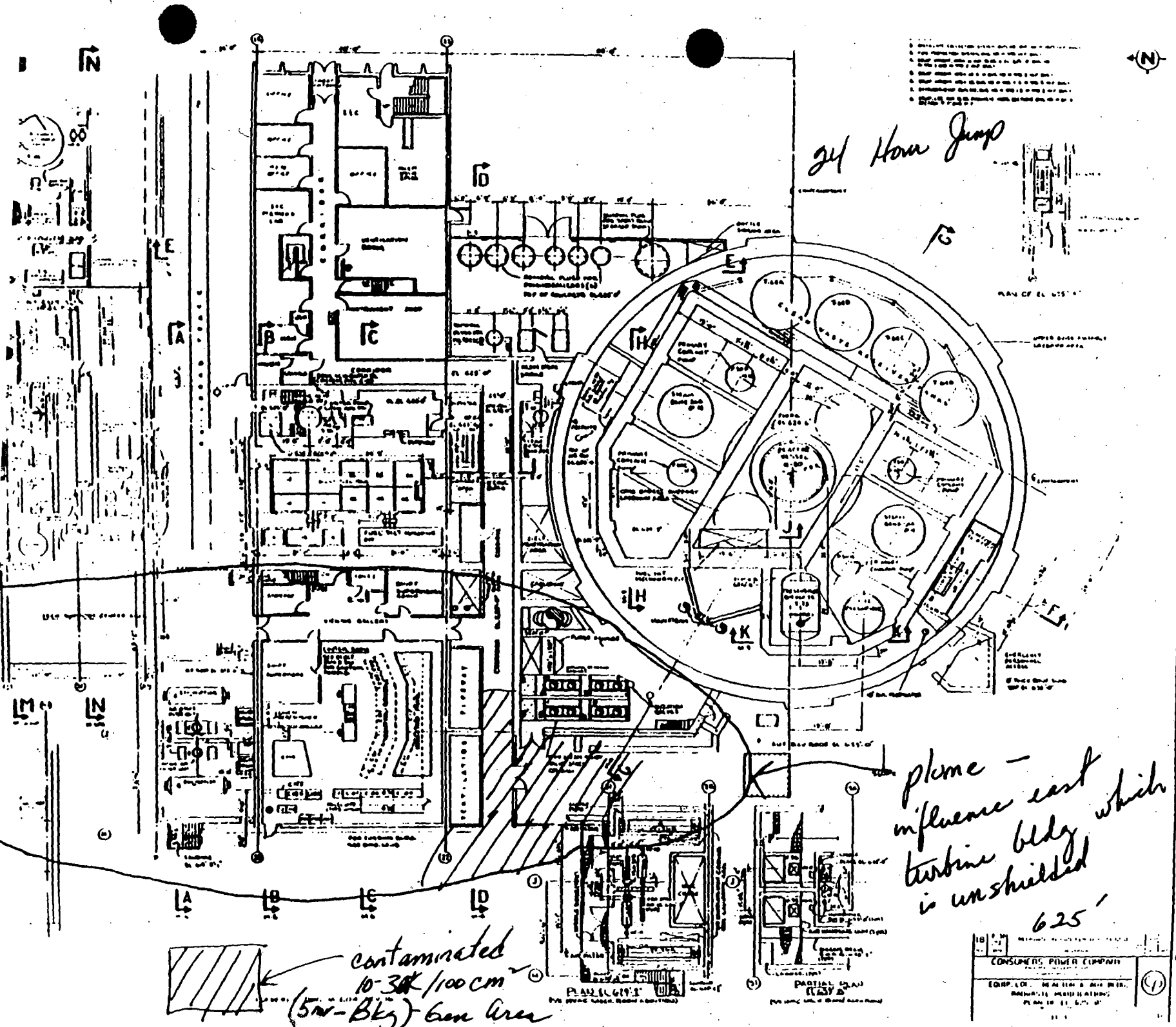


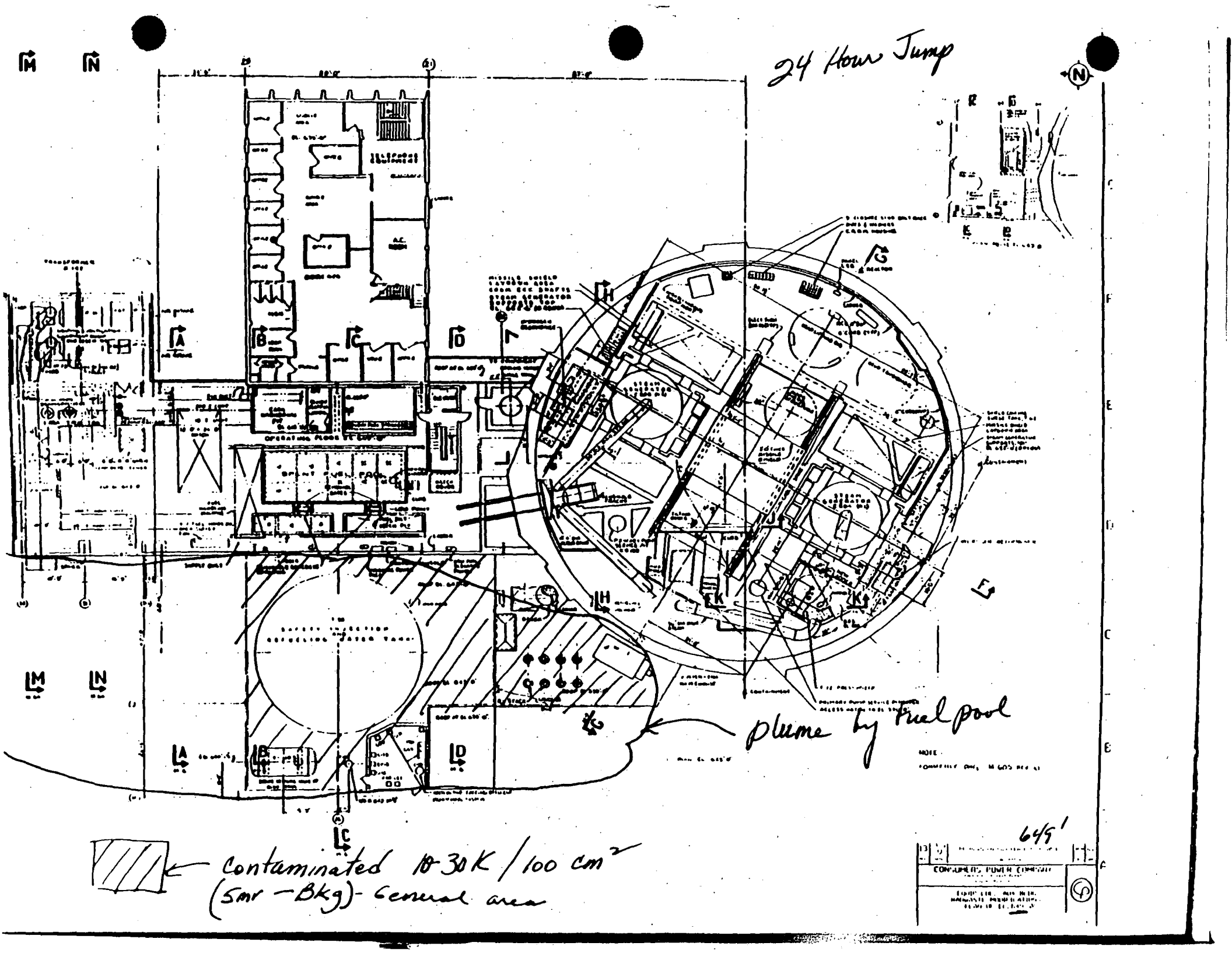
K-35




24 hour jump.
steam filled
contamination around
Jail windows + equip.
~~Radiation high~~
~~around jail windows~~
Contamination area
6-30K /100 cm²
1-20 mRem/hr general area.
590'
NOTES:


24 hour jump
SECTION L-L
steam filled
high temps.
Turbine Bldg
radiation around
jail window -
Contamination on
east turbine bldg
Contaminated
area
30-50K /100 cm
20-50 mRem/hr - general area
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION AUXILIARY AND
REACTOR BLDG RADWASTE MODIFICATION
DRAWING WAS FORMERLY
M-603 REV. 12


24 Hour Jump
plume - influence east turbine bldg which is unshielded
625'
contaminated
10-3 µ/100 cm²
(5 mr - Bkg) 6 acre Area
CONSUMERS POWER COMPANY


24 Hour Jump
plume by Fuel pool
contaminated 10-30K / 100 cm²
(Smr - Bkg) - General area
645'

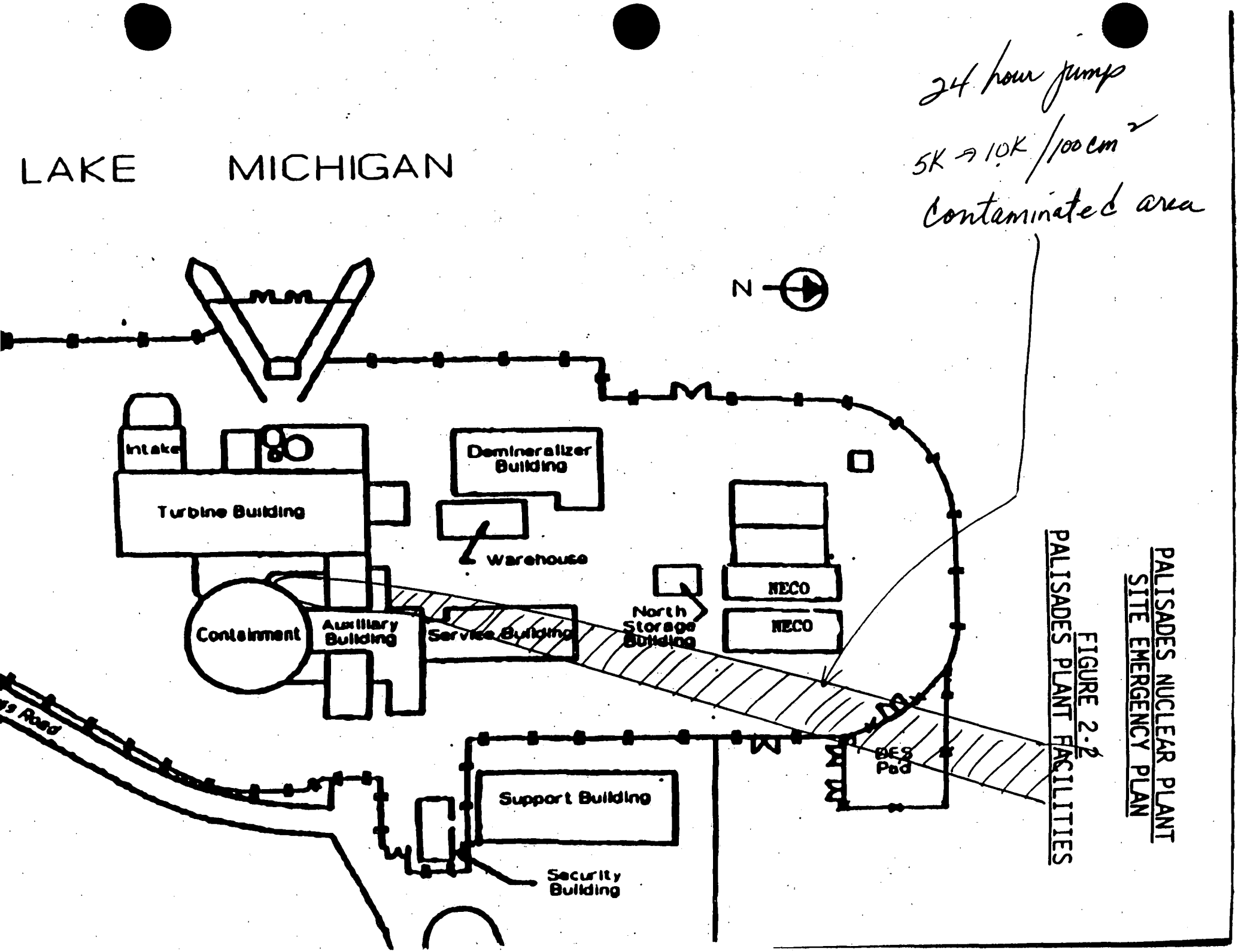
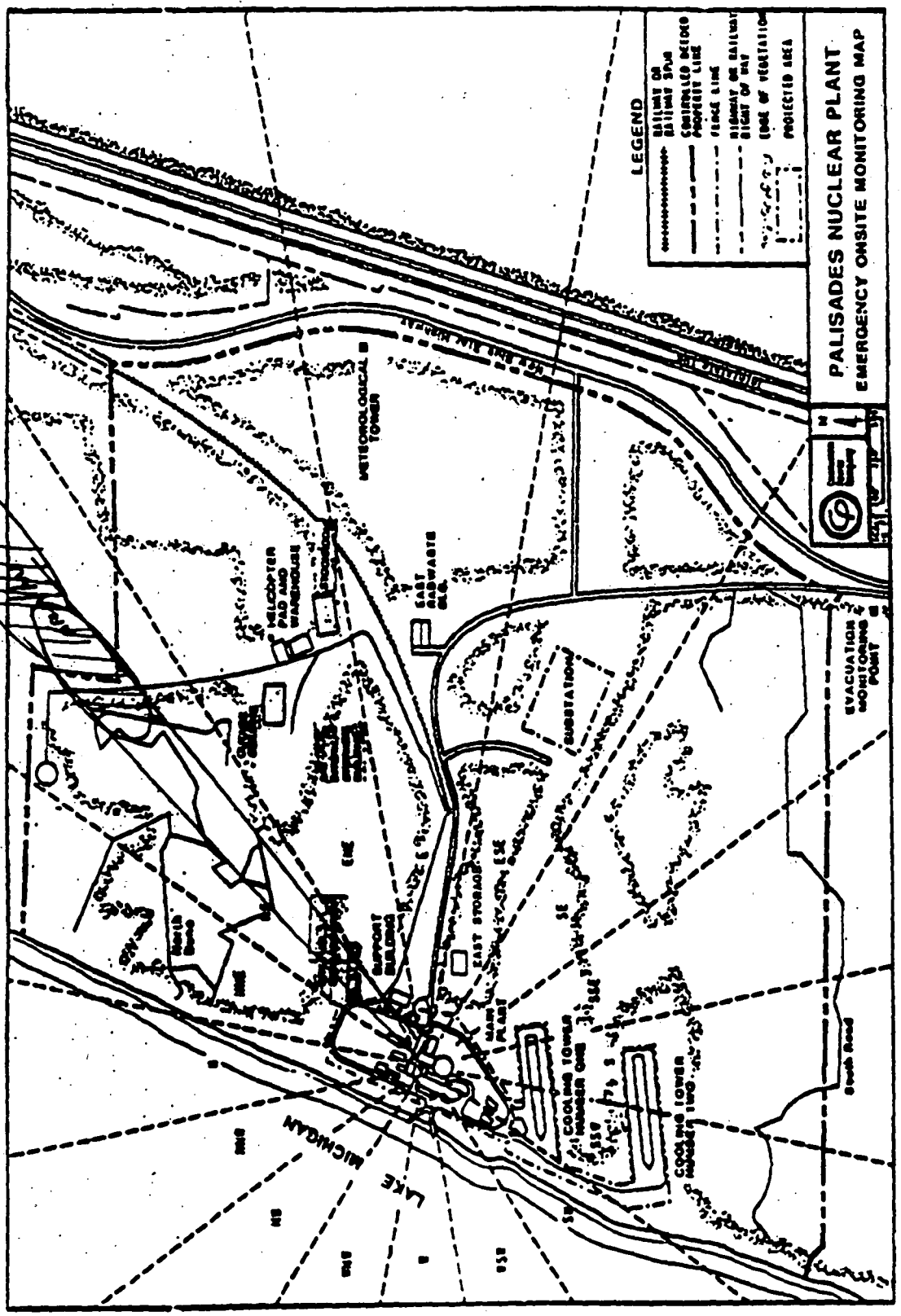
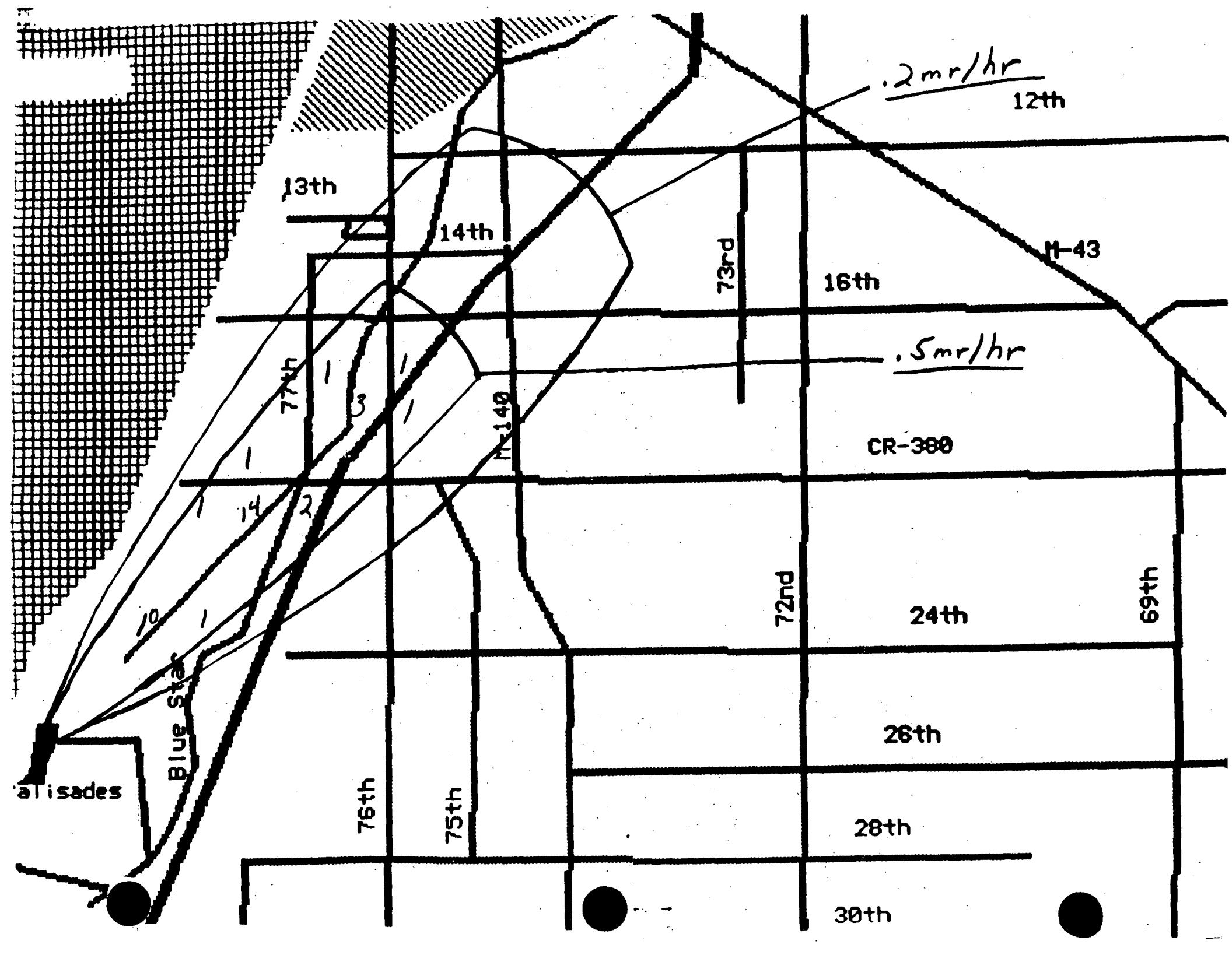

24 hour jump
5K → 10K /100 cm²
Contaminated area
LAKE MICHIGAN
N
Intake
Turbine Building
Demineralizer Building
Warehouse
Containment
Auxiliary Building
Service Building
North Storage Building
NECO
NECO
Support Building
Security Building
PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN
FIGURE 2-2
PALISADES PLANT FACILITIES

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE



24 HOUR TIME JUMP ENVIRONMENTAL DATA

The following map shows the boundary of the ground deposition. The survey data was collected over the last 24 hours. Isotopic analysis is unavailable.


.2mr/hr
12th
13th
14th
73rd
I-43
16th
.5mr/hr
77th
1
1
3
1
1
1
14
2
M-149
CR-380
10
1
72nd
24th
69th
Blue Star
26th
alisades
76th
75th
28th
30th

CHEMISTRY ANALYSIS

RX WATER SAMPLE

OCTOBER 22,1996

0800-1035

I-131=2.1E-02 uCi\ml
DEI =8.5E-02 uCi\ml

1040-1230

PASM ONLY

I-131=1.30E00 uCi\ml
DEI =5.26E00 uCi\ml

* STEAM GENERATOR SAMPLES

NOT ABLE TO OBTAIN AFTER TRIP

0900 →
TURBINE SUMP 3.8 E-05 μci/ml

Use this table to provide the CFMS Met. Data, onsite Met Tower data, and/or the WSI hourly met data.

Met Data for Palex '96								
Scenario Time	Temp ©	Stab. Class (Pas/dT)	Wind Speed (10 m)	Wind Dir. (10 m)	Std. Dev. (10 m)	Wind Speed (60 m)	Wind Dir. (60 m)	Std. Dev. (60 m)
0800	3.0	E/-0.4	13	227	7.2	17	227	7.2
0815	3.2	D/-0.9	13	222	11.2	17	222	11.2
0830	3.5	D/-1.1	18	229	9.5	23	229	9.5
0845	3.5	D/-1.2	22	221	12.0	28	221	12.0
0900	3.7	D/-1.3	19	219	10.4	24	219	10.4
0915	4.0	D/-1.1	15	225	9.2	20	225	9.2
0930	4.5	D/-0.9	13	230	7.9	17	230	7.9
0945	4.6	D/-0.8	15	224	8.3	20	224	8.3
1000	4.9	D/-0.7	12	219	8.1	16	219	8.1
1015	5.2	E/-0.3	8	224	7.2	10	224	7.2
1030	5.5	E/-0.2	9	223	7.0	11	223	7.0
1045	6.0	E/-0.4	7	221	6.9	9	221	6.9
1100	6.2	E/-0.5	5	226	7.0	7	226	7.0
1115	6.8	E/-0.4	4	227	7.0	5	227	7.0
1130	7.1	E/-0.3	5	223	6.8	7	223	6.8
1145	7.3	E/-0.2	6	228	6.5	8	228	6.5
1200	7.3	E/-0.3	5	225	7.0	7	225	7.0
1215	7.5	E/-0.5	3	229	6.7	4	229	6.7
1230	8.2	E/-0.3	5	225	6.9	7	225	6.9
1245	8.5	E/-0.3	8	223	6.0	10	223	6.0
1300	8.7	E/-0.4	9	219	6.2	11	219	6.2
1315	9.3	E/-0.3	8	230	5.5	10	230	5.5
1330	9.2	D/-0.6	11	225	8.2	14	225	8.2
1345	9.5	D/-0.8	10	228	8.9	13	228	8.9
1400	9.1	D/-0.6	12	221	8.2	16	221	8.2
1415	8.9	D/-0.7	13	223	8.1	17	223	8.1
1430	8.8	E/-0.5	7	226	7.1	9	226	7.1
1445	8.8	E/-0.4	9	225	7.2	11	225	7.2
1500	8.5	E/-0.4	7	230	7.2	9	230	7.2
1515	8.7	E/-0.3	5	225	7.0	7	225	7.0
1530	8.9	E/-0.4	4	221	6.4	5	221	6.4
1545	8.8	E/-0.1	5	226	5.3	7	226	5.3

METEOROLOGICAL FORECAST DATA

INTERPOLATED MOS FOR PAL 4219N, 8619W USING ORD, SBN, GRR:

DY/HR	22/23	23/05	23/11	23/17	23/23	24/05	24/11	24/17	GMT
DY/HR	22/18	23/00	23/06	23/12	23/18	24/00	24/06	24/12	EST
WIND-MP	2709	2703	2804	2908	3011	2914	3115	3312	
CLDS-.1	5	9	9	3	2	1	2	1	
HGT-FT	3750	4550	4550	>7500	>7500	>7500	>7500	>7500	
PAS	C	D	D	C	D	E	D	C	

DETECTOR POWER SUPPLIES

Power Supply	Radiation Element	Location
Y10-14	RE-1805	Containment Air Cooler V1
Y20-14	RE-1806	Containment Air Cooler V2
Y30-14	RE-1807	Containment Air Cooler V3
Y40-14	RE-1808	Contaniment Air Cooler V4
Y01-35	RE-2300	East Engineered Safeguards Room
Y01-35	RE-2301	East Service Corridor El - 590'-0"
Y01-35	RE-2302	Radwaste Control Area
Y01-35	RE-2303	Corridor 106A
Y01-35	RE-2304	Controlled Lab Corridor
Y01-35	RE-2305	Access Control Station
Y01-35	RE-2306	El 607' - Air Lock Auxiliary Building
Y01-35	RE-2307	Containment Purge Unit Room
Y01-35	RE-2308	Radwaste Demin Room Roof
Y01-35	RE-2309	El 625' - Corridor 340
Y01-35	RE-2310	Main Control Room
Y01-35	RE-2311	Turbine Operating Floor
Y01-35	RE-2312	Lunchroom
Y01-35	RE-2313	Spent Fuel Pool Area (South)
Y01-35	RE-2314	Air Room
Y01-35	RE-2315	Air Lock - Containment Building
Y10-14	RE-2316	Fuel Handling Area, Containment Building
Y20-14	RE-2317	Fuel Handling Area, Containment Building
Y10-11	RE-2321	Elevation 674' - Containment Building
Y20-15	RE-2322	Elevation 674' - Containment Building
Y01-35	RE-5701	Decontamination Room
Y01-35	RE-5702	Evaporator A
Y01-35	RE-5703	Evaporator B
Y01-35	RE-5704	Evaporator Control Panel
Y01-35	RE-5705	Radwaste Decay Tanks
Y01-35	RE-5706	Controlled Lab Corridor
Y01-35	RE-5707	Radwaste Packaging Area East
Y01-35	RE-5708	Radwaste Packaging Area West
Y01-35	RE-5709	Spent Fuel Pool Area (North)
Y01-35	RE-5710	Penetration and Fan Room

10/22/96	E.Safe grds	Rm Serv Corridor	RW Control Area	2.4 kV Switch Gear	Control 'D' Lab Corr	Access Control Station	Pers Airlock Outside	Cont Purge Unit Rm North	RW Demin Rm Roof	Outside Ctrl Rm Corridor	Crtl Rm Main Entrance	East Turb Op Floor	Old Lunch Room	Spent Fuel Pool Rm NFP	Spent Fuel Pool Rm SFP
	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h
	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	5709	2313
TIME															
08:00 AM	7	0.8	0.8	1	0.9	0.2	.07	.11	0.4	0.2	.10	0.4	0.4	0.12	0.1
08:15 AM	7	0.8	0.8	1	0.9	0.2	.07	.11	0.4	0.2	.10	0.4	0.4	0.12	0.1
08:30 AM	7	0.8	0.8	1	0.9	0.2	.07	.11	0.4	0.2	.10	0.4	0.4	0.12	0.1
08:45 AM	7	0.8	0.8	1	0.9	0.2	.07	.11	0.4	0.2	.10	0.4	0.4	0.12	0.1
09:00 AM	7	0.8	0.8	1	0.9	0.2	.07	.11	0.4	0.2	.10	0.4	0.4	0.12	0.1
09:15 AM	7	0.8	0.8	1	0.9	0.2	07	.11	0.4	0.2	.10	0.4	0.4	0.12	0.1
09:30 AM	7	0.8	0.8	1	0.9	0.2	.07	.11	0.4	0.2	.10	0.4	0.4	0.12	0.1
09:45 AM	7	0.8	0.8	1	0.9	0.2	.07	.11	0.4	0.2	.10	0.4	0.4	0.12	0.1
10:00 AM	7	0.8	0.8	1	0.9	0.2	.07	.11	0.4	0.2	.10	0.4	0.4	0.12	0.1
10:15 AM	7	0.8	0.8	1	0.9	0.2	.07	.11	0.4	0.2	.10	0.4	0.4	0.12	0.1
10:30 AM	7	0.8	0.8	1	0.9	0.2	07	.11	0.4	0.2	.10	0.4	0.4	0.12	0.1
10:45 AM	7	0.8	0.8	1	0.9	0.2	.07	.11	1.0	0.3	.54	60	0.4	50	50
11:00 AM	7	0.8	0.8	1.5	0.9	0.2	.07	.11	1.0	0.5	.78	90	0.4	70	70
11:15 AM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	2.3	4.7	520	0.4	430	430
11:30 AM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	5.2	10.3	1100	0.4	930	930
11:45 AM	7	0.8	0.8	2	0.9	0.2	07	.11	1.0	4.9	9.7	1050	0.4	880	880
12:00 AM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	3.3	6..6	1000	0.4	600	600
12:15 PM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	2.7	5.3	750	0.4	480	480
12:30 PM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	2.2	4.4	600	0.4	400	400
12:45 PM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	1.8	3.5	520	0.4	320	320
01:00 PM	7	0.8	0.8	2	0.9	0.2	07	.11	1.0	1.6	3.1	460	0.4	275	275
01:15 PM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	1.4	2.7	400	0.4	245	245
01:30 PM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	1.3	2.7	310	0.4	245	245
01:45 PM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	1.1	2.2	220	0.4	200	200
02:00 PM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	0.9	1.8	180	0.4	160	160
02:15 PM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	0.7	1.4	150	0.4	130	130
02:30 PM	7	0.8	0.8	2	0.9	0.2	.07	.11	1.0	0.6	1.1	120	0.4	100	100

10/22/96	590' Air Room	Airlock Inside Cont	Cont Rad Mon	Cont Rad Mon	Cont Rad Mon	Cont Rad Mon
	mr/h	mr/h	R/h	R/h	R/h	R/h
	2314	2315	1805	1806	1807	1808
TIME						
08:00 AM	3.1	2.7	.021	.026	.178	.090
08:15 AM	3.1	2.7	.021	.026	.178	.090
08:30 AM	3.1	2.7	.021	.026	.178	.090
08:45 AM	3.1	2.7	.021	.026	.178	.090
09:00 AM	3.1	2.7	.021	.026	.178	.090
09:15 AM	3.1	2.7	.021	.026	.178	.090
09:30 AM	3.1	2.7	.021	.026	.178	.090
09:45 AM	3.1	2.7	.021	.026	.178	.090
10:00 AM	3.1	2.7	.021	.026	.178	.090
10:15 AM	3.1	2.7	.021	.026	.178	.090
10:30 AM	3.1	2.7	.021	.026	.178	.090
10:45 AM	7	2.7	.698	.698	6.08	3.02
11:00 AM	10	2.7	.798	.798	7.08	3.52
11:15 AM	12	2.7	.898	.898	8.08	4.02
11:30 AM	14	2.7	.998	.998	9.08	4.52
11:45 AM	15	2.7	1.10	1.10	10.1	5.02
12:00 PM	14	2.7	1.10	1.10	10.1	5.02
12:15 PM	13	2.7	.998	.998	9.08	4.52
12:30 PM	12	2.7	.898	.898	8.08	4.02
12:45 PM	11	2.7	.798	.798	7.08	3.52
01:00 PM	10	2.7	.698	.698	6.08	3.02
01:15 PM	10	2.7	.698	.698	6.08	3.02
01:30 PM	9	2.7	.698	.698	6.08	3.02
01:45 PM	9	2.7	.698	.698	6.08	3.02
02:00 PM	8	2.7	.698	.698	6.08	3.02
02:15 PM	8	2.7	.698	.698	6.08	3.02
02:30 PM	8	2.7	.698	.698	6.08	3.02

10/22/96	Decon Rm	"A" Evap	"B" Evap	Evap Control Panel	RW Decay Tanks	Control 'D' Lab Corr	RW Packaging Area No	RW Packaging Area West	Spent Fuel Pool Criticality	Exhaust Fan Duct	RW Addition Vent	Fuel Handling Rm Vent
	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h	mr/h
	5701	5702	5703	5704	5705	5706	5707	5708	5709	5710	5711	5712
TIME												
08:00 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	0.1	.1	15	75
08:15 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	0.1	.1	15	75
08:30 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	0.1	.1	15	75
08:45 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	0.1	.1	15	75
09:00 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	0.1	.1	15	75
09:15 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	0.1	.1	15	75
09:30 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	0.1	.1	15	75
09:45 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	0.1	.1	15	75
10:00 AM	0.3	0.35	10	13	0.2	0.9	.25	.01	0.1	.1	15	75
10:15 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	0.1	.1	15	75
10:30 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	0.1	.1	15	75
10:45 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	50	.1	10,000	10,000
11:00 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	70	.1	15,000	15,000
11:15 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	430	.1	OSH	OSH
11:30 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	930	.1	OSH	OSH
11:45 AM	0.3	0.35	10	.13	0.2	0.9	.25	.01	880	.1	OSH	OSH
12:00 PM	0.3	0.35	10	13	0.2	0.9	.25	.01	600	.1	OSH	OSH
12:15 PM	0.3	0.35	10	.13	0.2	0.9	.25	.01	480	.1	OSH	OSH
12:30 PM	0.3	0.35	10	.13	0.2	0.9	.25	.01	400	.1	OSH	OSH
12:45 PM	0.3	0.35	10	.13	0.2	0.9	.25	.01	320	.1	OSH	OSH
01:00 PM	0.3	0.35	10	.13	0.2	0.9	.25	.01	275	.1	OSH	OSH
01:15 PM	0.3	0.35	10	.13	0.2	0.9	.25	.01	245	.1	OSH	OSH
01:30 PM	0.3	0.35	10	.13	0.2	0.9	.25	.01	245	.1	OSH	OSH
01:45 PM	0.3	0.35	10	.13	0.2	0.9	.25	.01	200	.1	OSH	OSH
02:00 PM	0.3	0.35	10	.13	0.2	0.9	.25	.01	160	.1	OSH	OSH
02:15 PM	0.3	0.35	10	.13	0.2	0.9	.25	.01	130	.1	OSH	OSH
02:30 PM		0.35	10	.13	0.2	0.9	.25	.01	100	.1	OSH	OSH

10/22/96	Service Water Discharge	Steam Generator Blowdown	Component Cooling Water	Circ Water Discharge	Liquid RW Monitor	Turbine Bldg Sump
	cpm	cpm	cpm	cpm	cpm	cpm
	0833	0707	0915	1323	1049	5211
TIME						
08:00 AM	380	1300	130	280	454	150
08:15 AM	380	1300	130	280	454	150
08:30 AM	380	1300	130	280	454	150
08:45 AM	380	2.28E04	130	280	454	1200
09:00 AM	380	2.55E04	130	280	454	1300
09:15 AM	380	Fall (OSH)	130	280	454	1800
09:30 AM	380	Fall (OSH)	130	280	454	1800
09:45 AM	380	Fall (OSH)	130	280	454	1800
10:00 AM	380	Fall (OSH)	130	280	454	1800
10:15 AM	380	Fall (OSH)	130	280	454	1800
10:30 AM	380	Fall (OSH)	130	280	454	1800
10:45 AM	380	Fall (OSH)	OSH	280	454	1800
11:00 AM	380	Fall (OSH)	OSH	280	454	1800
11:15 AM	380	Fall (OSH)	OSH	280	454	1800
11:30 AM	380	Fall (OSH)	OSH	280	454	1800
11:45 AM	380	Fall (OSH)	OSH	280	454	1800
12:00 PM	380	Fall (OSH)	OSH	280	454	1800
12:15 PM	380	Fall (OSH)	OSH	280	454	1800
12:30 PM	380	Fall (OSH)	OSH	280	454	1800
12:45 PM	380	Fall (OSH)	OSH	280	454	1800
01:00 PM	380	Fall (OSH)	OSH	280	454	1800
01:15 PM	380	Fall (OSH)	OSH	280	454	1800
01:30 PM	380	Fall (OSH)	OSH	280	454	1800
01:45 PM	380	Fall (OSH)	OSH	280	454	1800
02:00 PM	380	Fall (OSH)	OSH	280	454	1800
02:15 PM	380	Fall (OSH)	OSH	280	454	1800
02:30 PM	380	Fall (OSH)	OSH	280	454	1800

10/22/96	Stack Gas Gross Activity	Stack Gas Single Isotope	RW Vent	East Safeguards Vent	West Safeguards Vent	Cont Bldg Gas Monitor	Waste Gas Monitor	Condenser Offgas	Blowdown Tank Vent Monitor
	cpm	cpm	cpm	cpm	cpm	cpm	cpm	cpm	cpm
	2318	2319	1809	1810	1811	1817	1113	0631	2320
TIME									
08:00 AM	OOS	OOS	38	220	220	3900	<100	2.5E01	400
08:15 AM	OOS	OOS	38	220	220	3900	<100	2.5E01	400
08:30 AM	OOS	OOS	38	220	220	3900	<100	2.5E01	400
08:45 AM	OOS	OOS	38	220	220	3900	<100	2.30E06	400
09:00 AM	OOS	OOS	38	220	220	3900	<100	5.95E06	400
09:15 AM	OOS	OOS	38	220	220	3900	<100	2.5E03	400
09:30 AM	OOS	OOS	38	220	220	3900	<100	2.5E03	400
09:45 AM	OOS	OOS	38	220	220	3900	<100	2.5E03	400
10:00 AM	OOS	OOS	38	220	220	3900	<100	2.5E03	400
10:15 AM	OOS	OOS	38	220	220	3900	<100	2.5E03	400
10:30 AM	OOS	OOS	38	220	220	3900	<100	2.5E03	400
10:45 AM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
11:00 AM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
11:15 AM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
11:30 AM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
11:45 AM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
12:00 PM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
12:15 PM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
12:30 PM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
12:45 PM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
01:00 PM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
01:15 PM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
01:30 PM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
01:45 PM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
02:00 PM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
02:15 PM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400
02:30 PM	OOS	OOS	38	220	220	3900	<100	EEEEEEEE	400

10/22/96	Iodine/Part Gas Eff	Normal Noble Gas Eff	High Range Noble Gas	Main Steam Gamma B	Main Steam Gamma A	Cont High Range	Cont High Range	Failed Fuel Monitor	High Range Effluent Monitor
	cpm	cpm	cpm	cpm	cpm	cpm	cpm	cpm	cpm
	2325	2326	2327	2323	2324	2321	2322	0202	(Rad Gun)
TIME									
08:00 AM	OOS	6.07E01	1.10E-01	20	40	1.55E-02	1.45E-02	2.47E04	BKG
08:15 AM	OOS	6.12E01	1.10E-01	20	40	1.55E-02	1.45E-02	2.47E04	BKG
08:30 AM	OOS	6.17E01	1.10E-01	20	40	1.55E-02	1.45E-02	2.47E04	BKG
08:45 AM	OOS	6.21E01	1.10E-01	400-48	40	1.55E-02	1.45E-02	2.38E04	BKG
09:00 AM	OOS	6.38E01	1.10E-01	48	40	1.55E-02	1.45E-02	1.17E04	BKG
09:15 AM	OOS	6.24E01	1.10E-01	48	40	1.54E-02	1.45E-02	2.46E04	BKG
09:30 AM	OOS	6.16E01	1.10E-01	48	40	1.54E-02	1.45E-02	2.45E04	BKG
09:45 AM	OOS	6.24E01	1.10E-01	47	40	1.54E-02	1.45E-02	2.44E04	BKG
10:00 AM	OOS	6.06E01	1.10E-01	47	40	1.54E-02	1.45E-02	1.36E04	BKG
10:15 AM	OOS	6.17E01	1.10E-01	47	40	1.54E-02	1.45E-02	2.42E04	BKG
10:30 AM	OOS	6.05E01	1.10E-01	47	40	1.54E-02	1.45E-02	2.41E04	BKG
10:45 AM	OOS	6.05E01	1.10E-01	7550	50	1.54E-02	1.46E-02	1.00E05	5
11:00 AM	OOS	6.09E01	1.10E-01	9050	140	1.54E-02	1.46E-02	9.00E05	7
11:15 AM	OOS	6.10E01	1.10E-01	12000	165	1.54E-02	1.46E-02	OSH	9
11:30 AM	OOS	6.10E01	1.10E-01	15000	190	1.54E-02	1.46E-02	OSH	10
11:45 AM	OOS	6.12E01	1.10E-01	13000	140	1.54E-02	1.46E-02	OSH	10
12:00 PM	OOS	6.31E01	1.10E-01	12000	130	1.54E-02	1.46E-02	OSH	9
12:15 PM	OOS	6.39E01	1.10E-01	11000	130	1.54E-02	1.46E-02	OSH	8.5
12:30 PM	OOS	6.39E01	1.10E-01	10000	130	1.54E-02	1.46E-02	OSH	8
12:45 PM	OOS	6.15E01	1.10E-01	9000	130	1.54E-02	1.46E-02	OSH	7.5
01:00 PM	OOS	6.25E01	1.10E-01	8500	130	1.54E-02	1.46E-02	OSH	7
01:15 PM	OOS	6.35E01	1.10E-01	8000	130	1.54E-02	1.46E-02	OSH	6.5
01:30 PM	OOS	6.29E01	1.10E-01	7500	130	1.54E-02	1.46E-02	OSH	6
01:45 PM	OOS	6.32E01	1.10E-01	7000	130	1.54E-02	1.46E-02	OSH	5.5
02:00 PM	OOS	6.10E01	1.10E-01	6500	130	1.54E-02	1.46E-02	OSH	5
02:15 PM	OOS	6.08E01	1.10E-01	6000	130	1.54E-02	1.46E-02	OSH	4.5
02:30 PM	OOS	6.04E01	1.10E-01	5500	130	1.54E-02	1.46E-02	OSH	4

CONVERSIONS

IODINE CONVERSION
WHEN IN PLUME =
GAMMA RDG X 1.5E-08

SERVICE BLDG=
REDUCE GAMMA BY 10
EACH FLOOR.

SHIELDS
BLOCK WALL REDUCE
BY 10

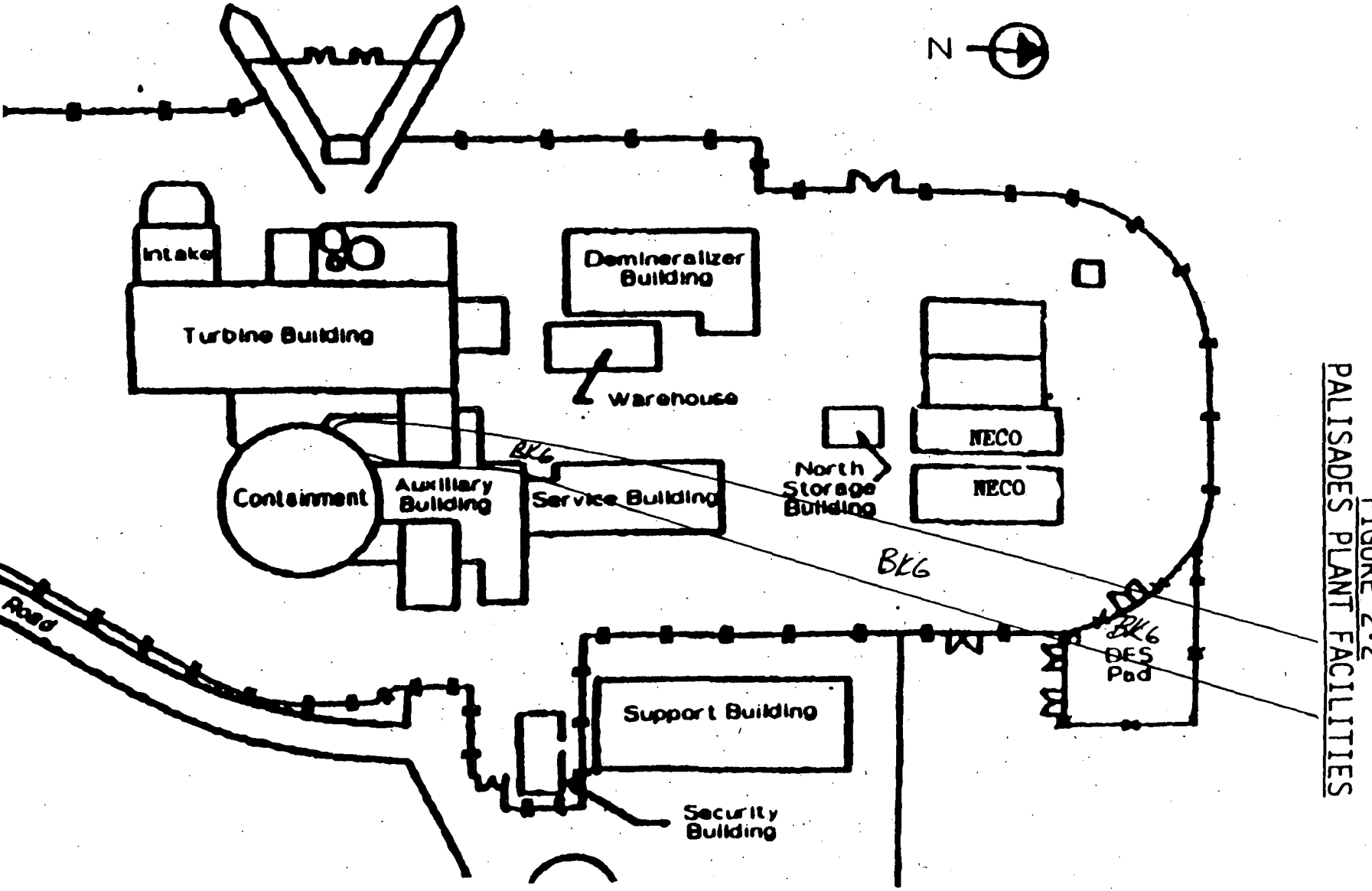
1 FT CONCRETE
REDUCE BY 10
2 FT CONCRETE
REDUCE BY 100

NO CONTAMINATION
UNLESS IN PLUME

WHEN IN PLUME
ESTIMATE A
CONTAMINATION
VALUE

LAKE MICHIGAN

0800 - 1030

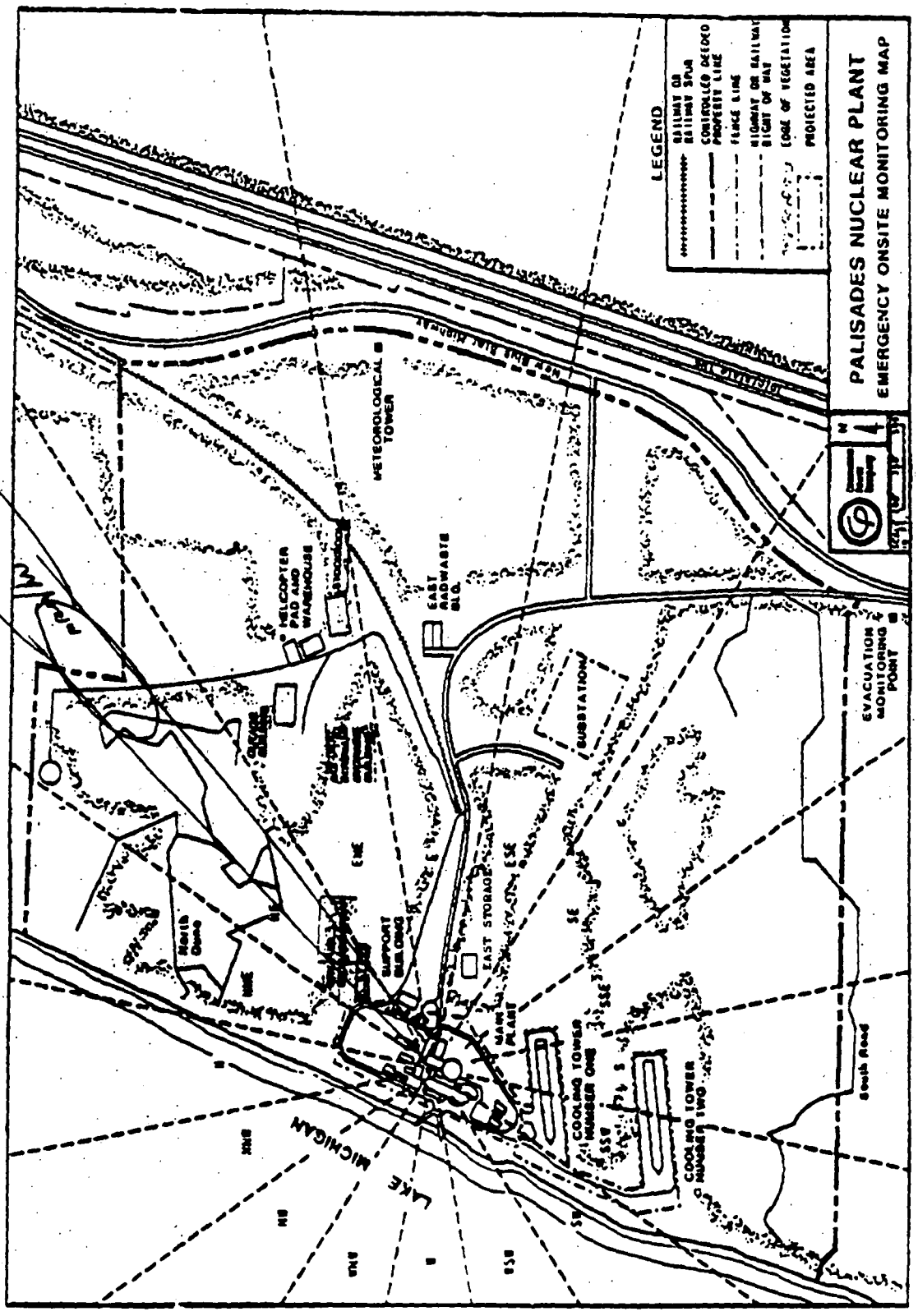


PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

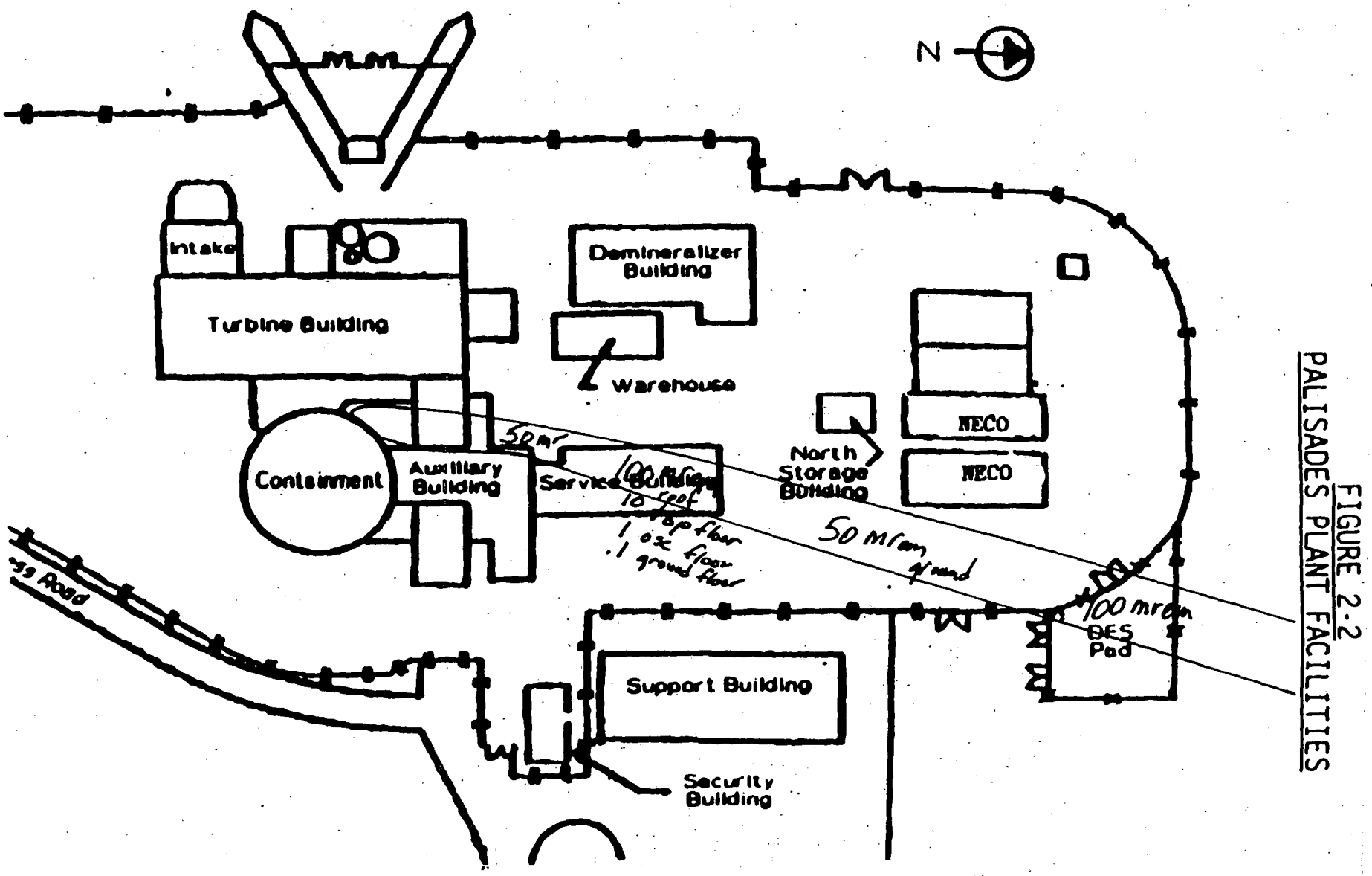
FIGURE 2-2
PALISADES PLANT FACILITIES

0800 - 1630
1030

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE



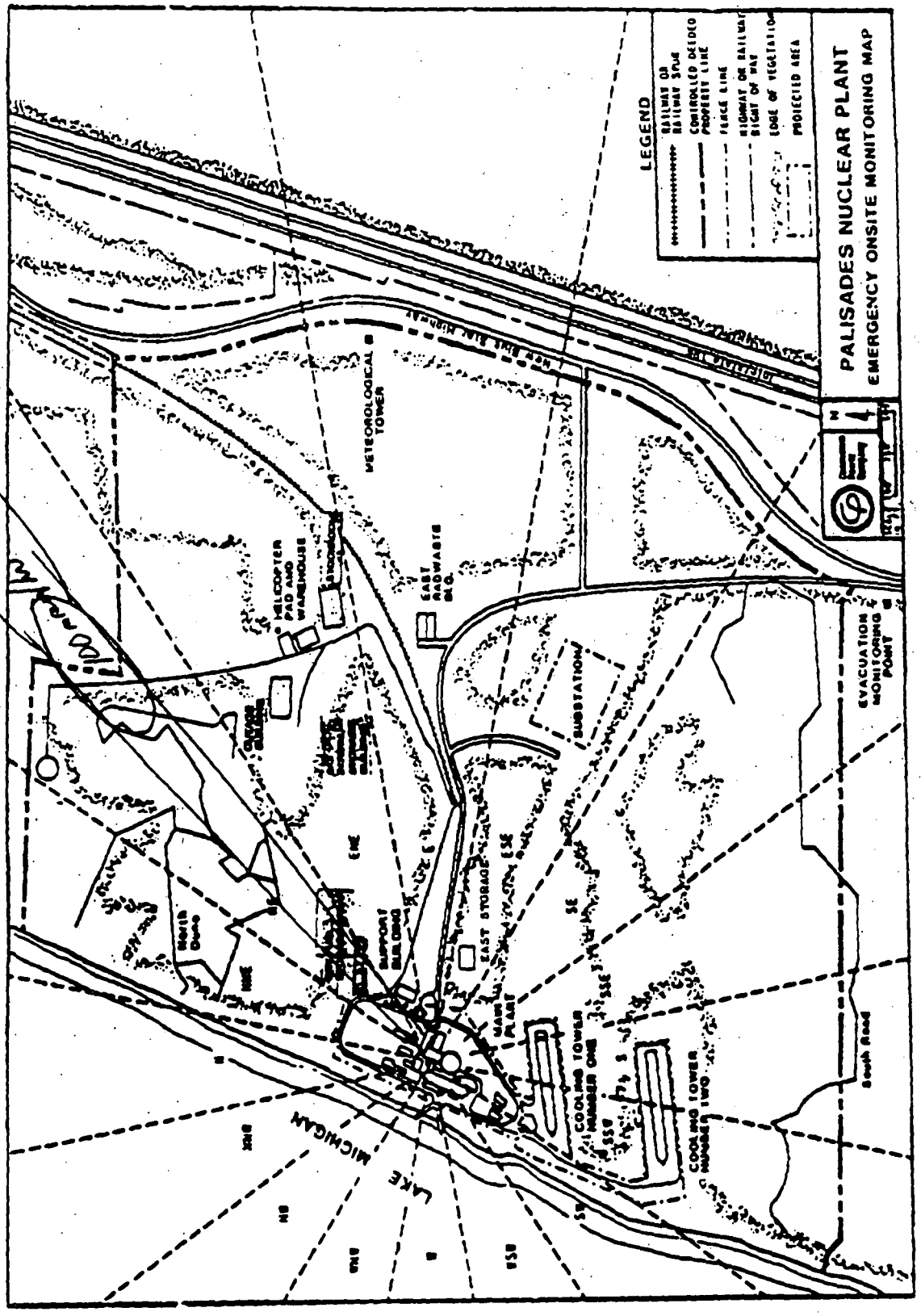
10
1045



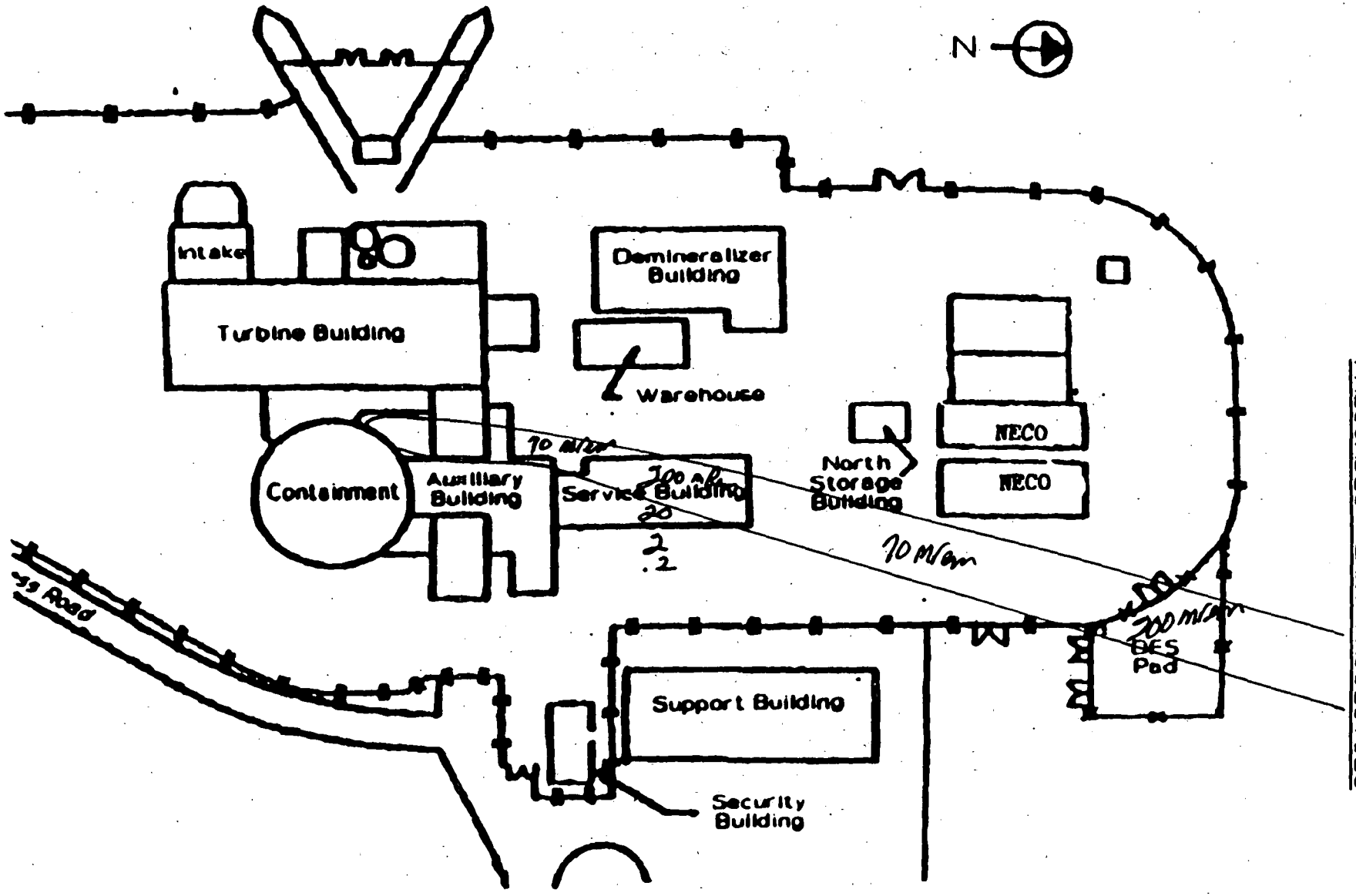
PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-2
PALISADES PLANT FACILITIES

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE



1100

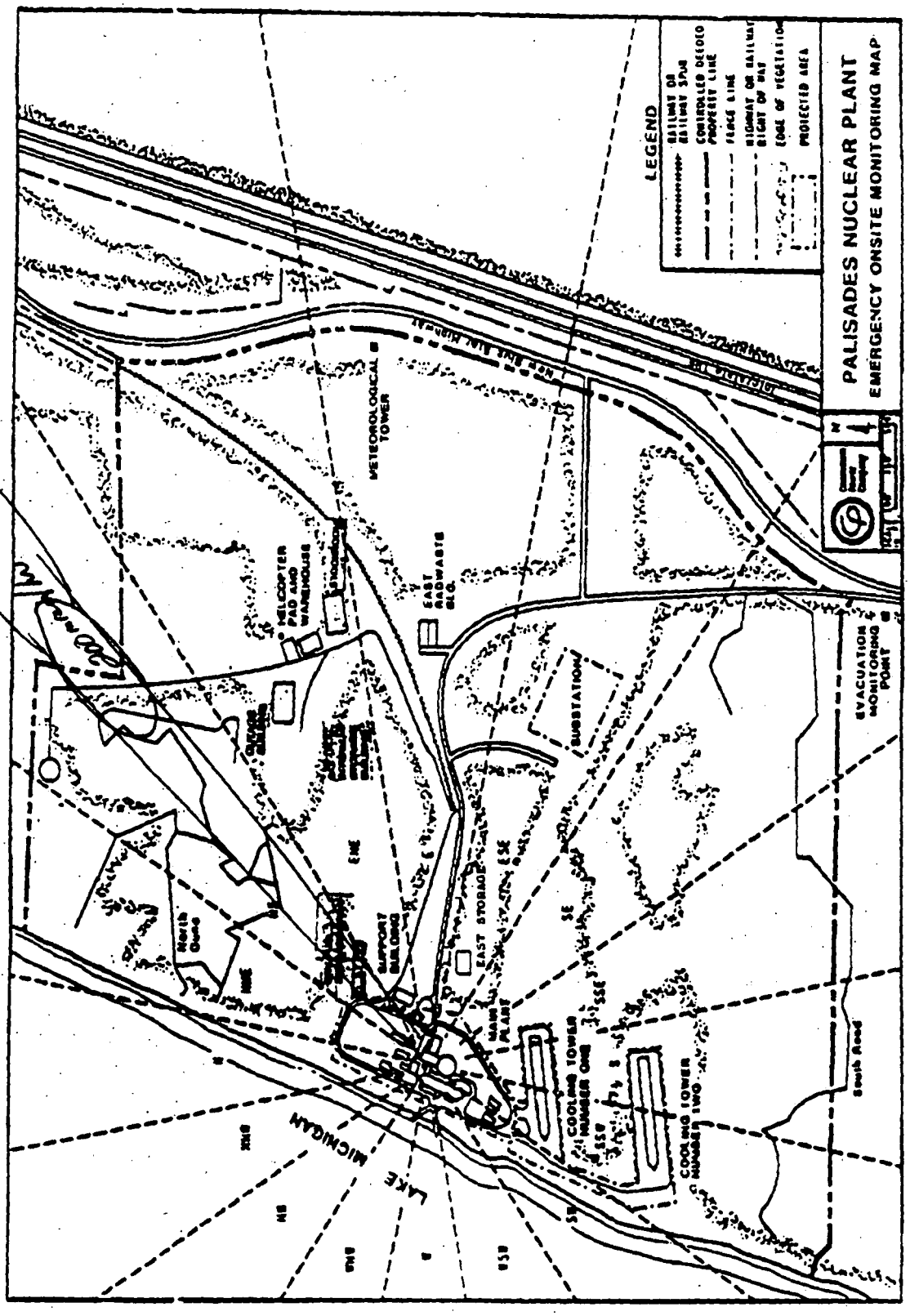


PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-2
PALISADES PLANT FACILITIES

PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE



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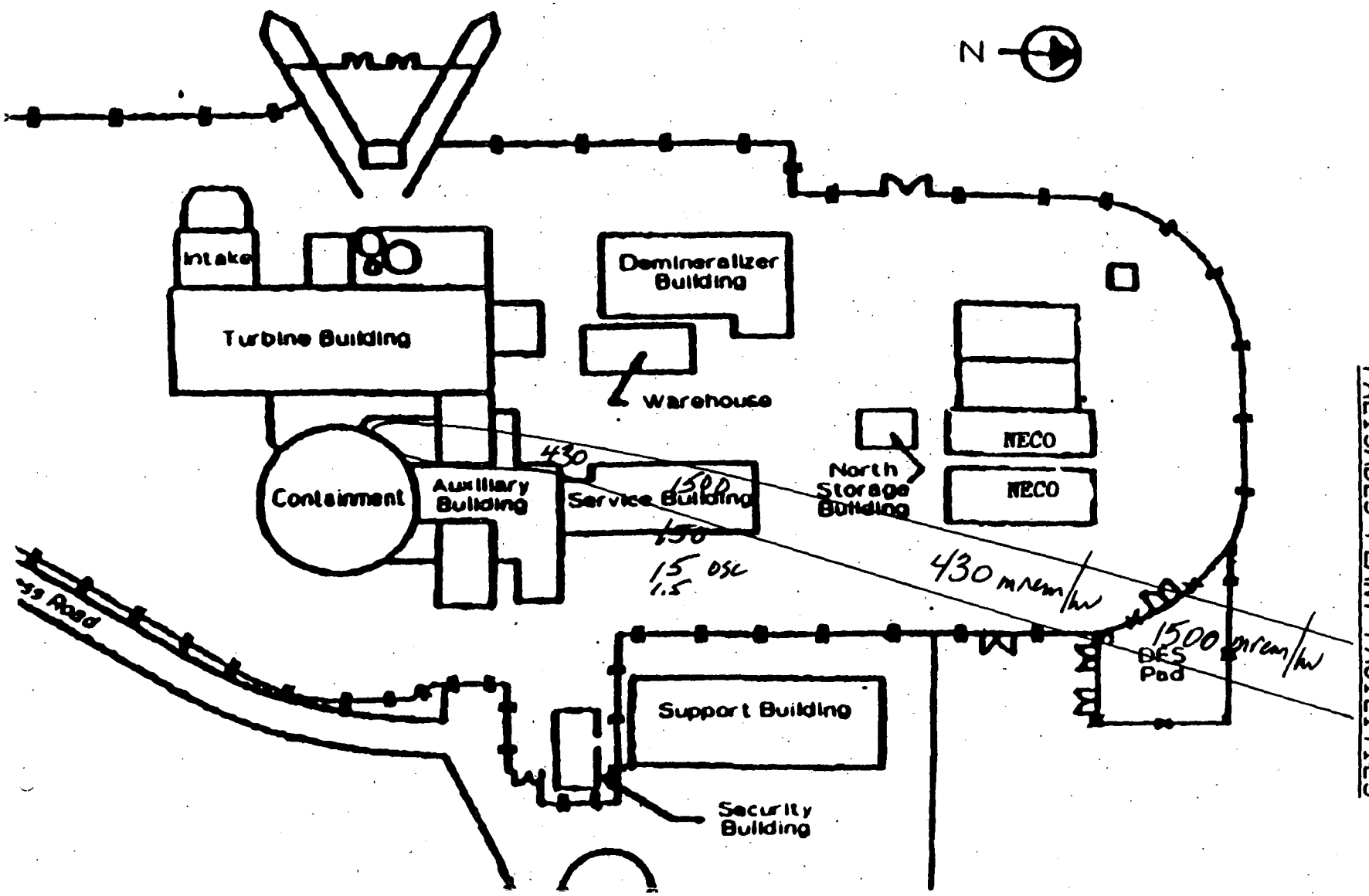
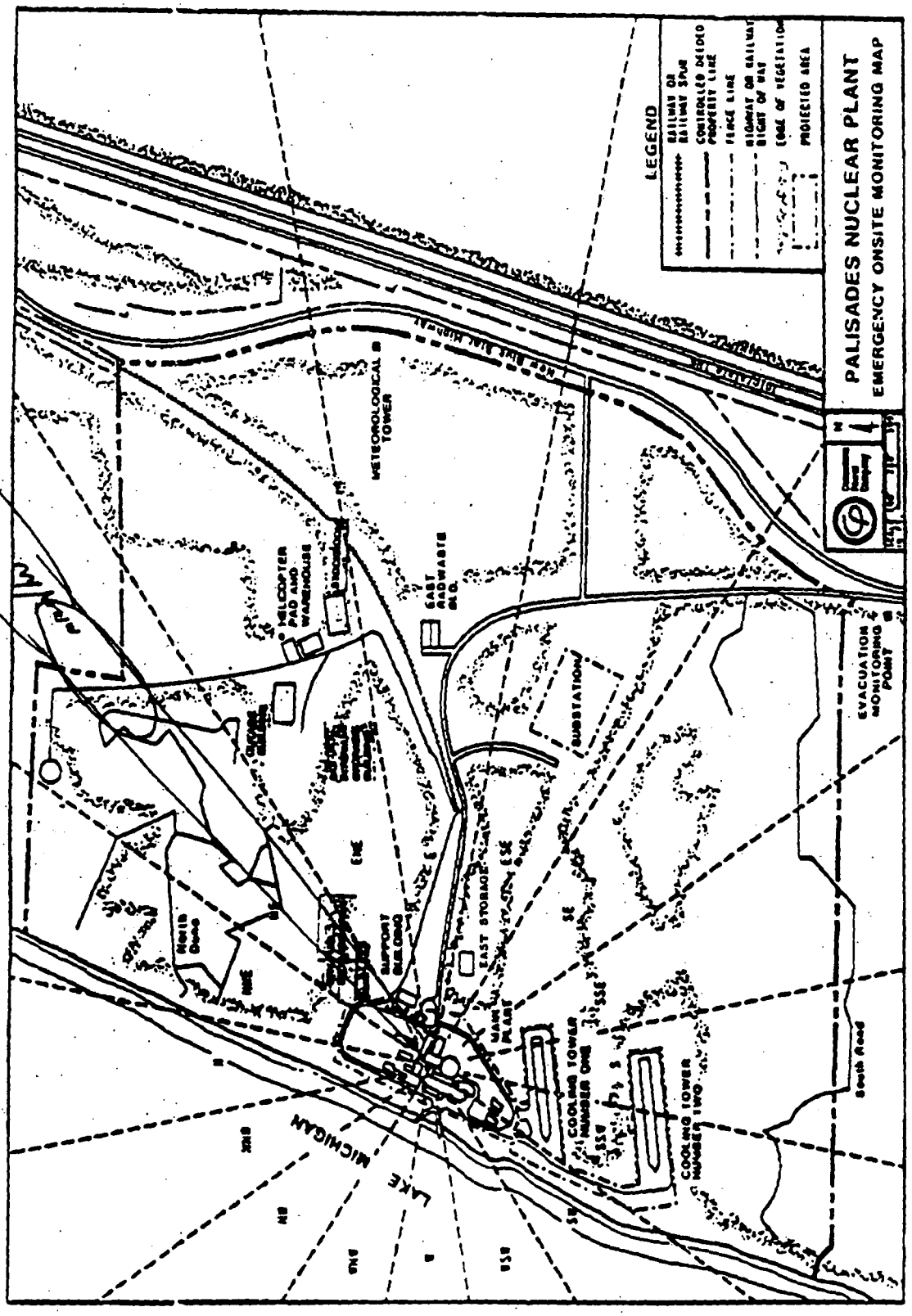


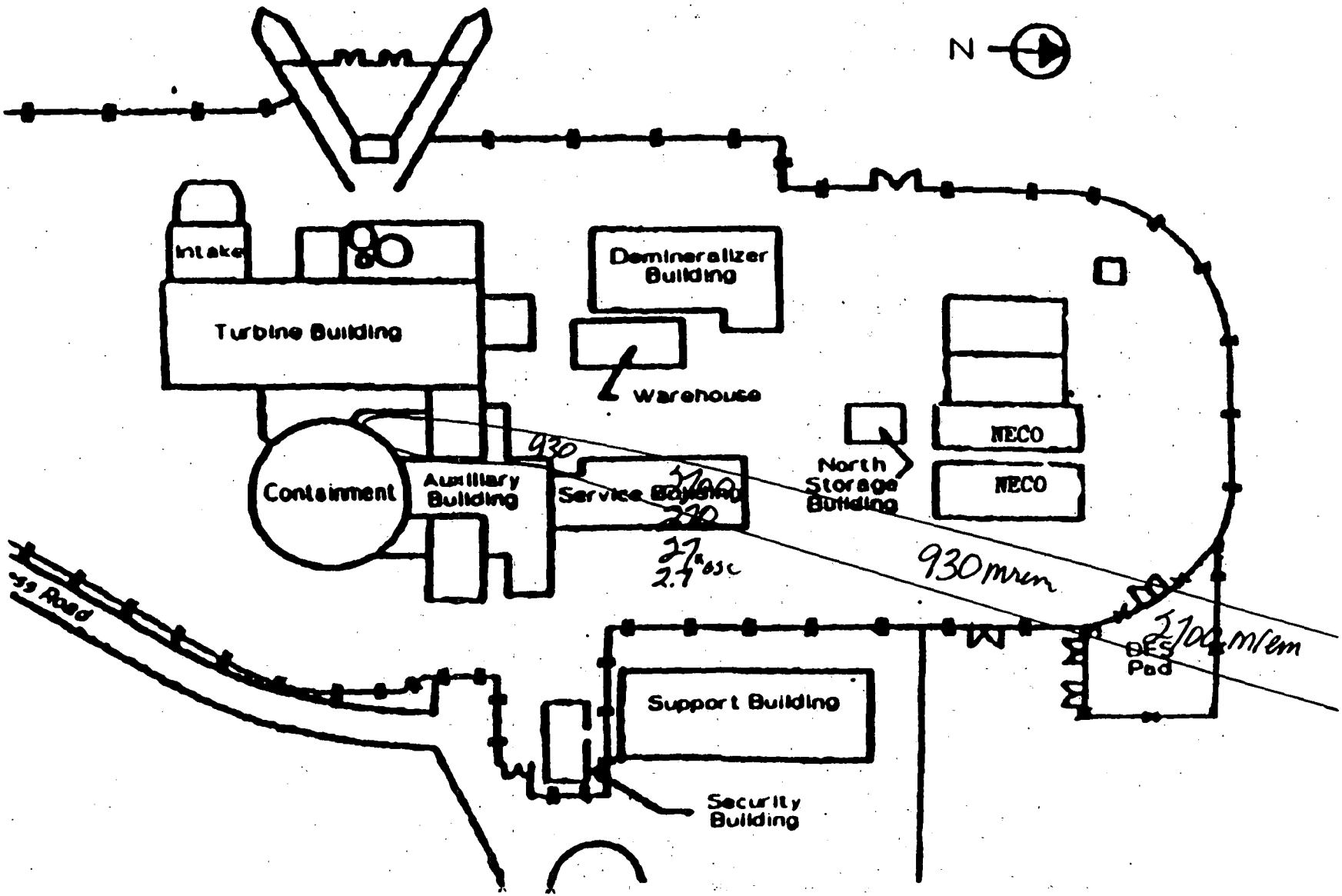
PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-2
PALISADES PLANT FACILITIES

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE



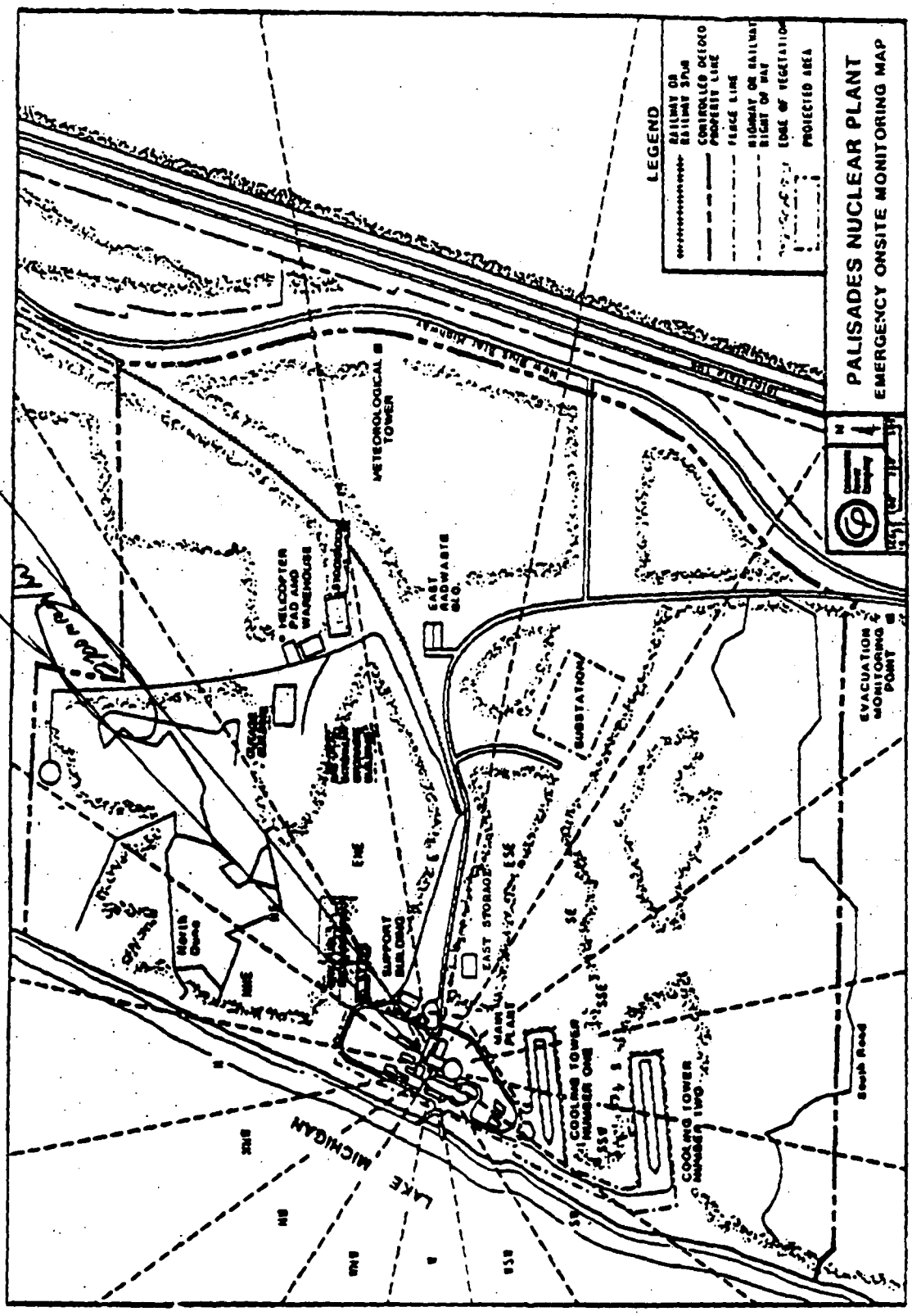
1130

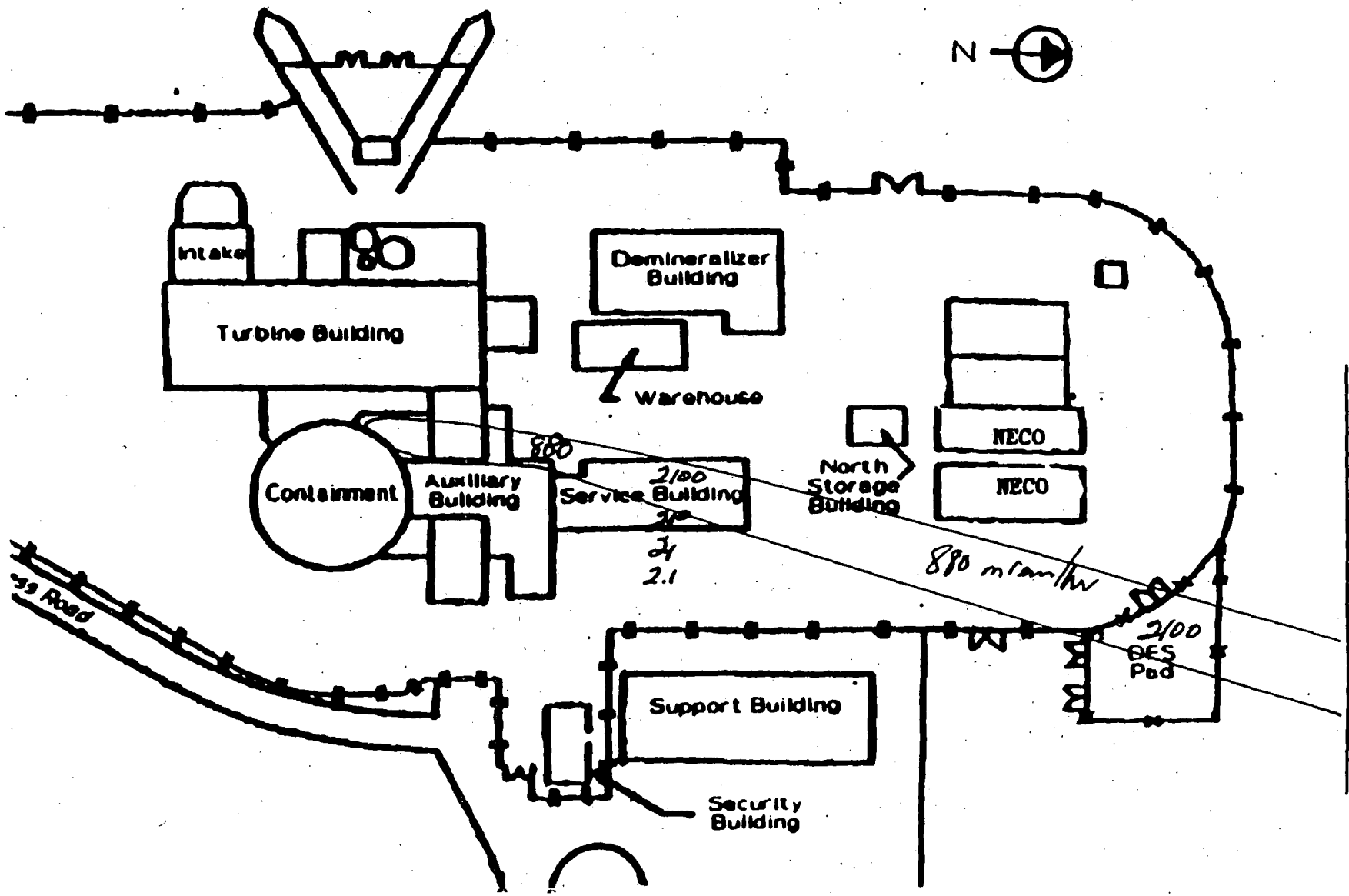


PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-2
PALISADES PLANT FACILITIES

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE

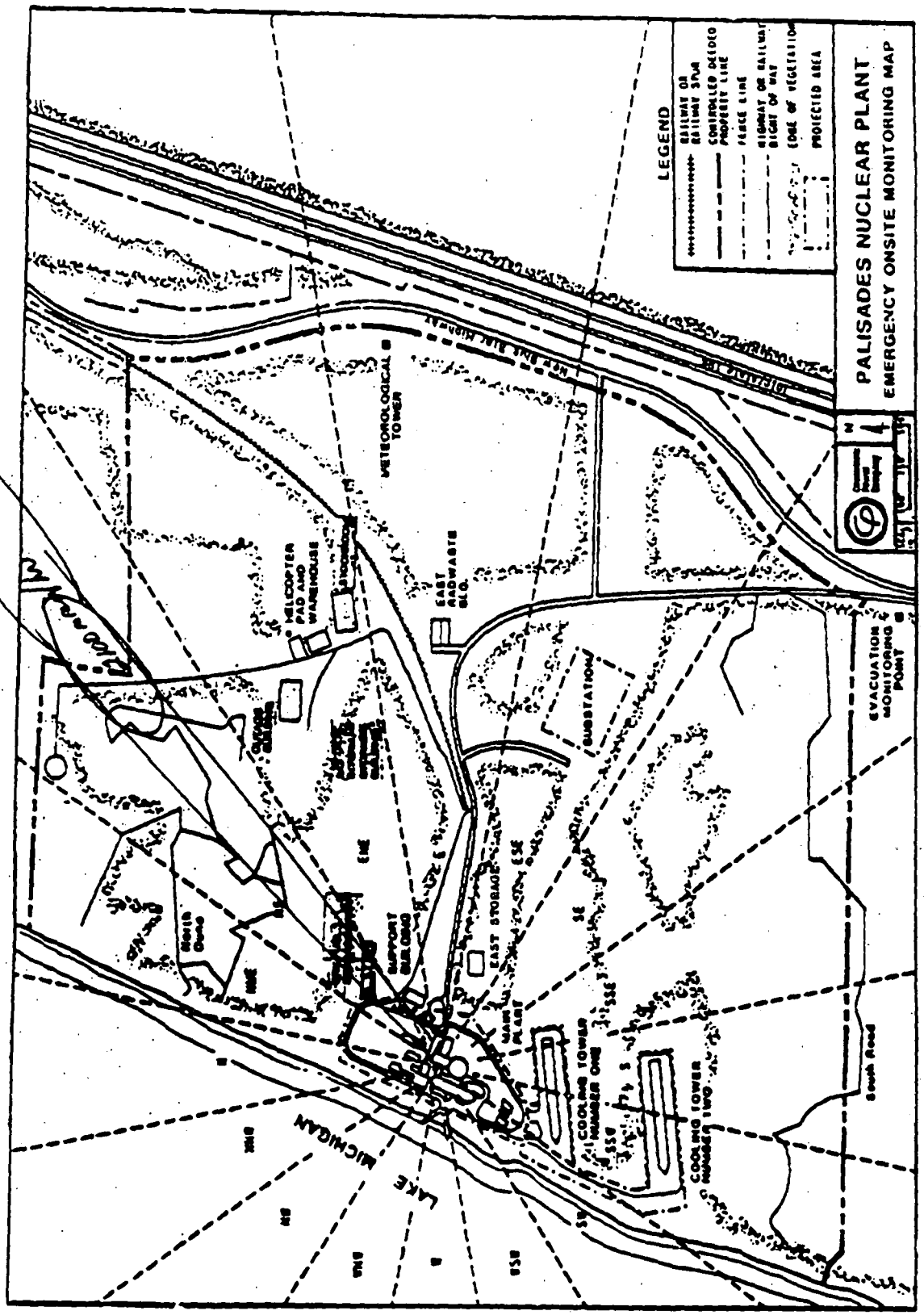




PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

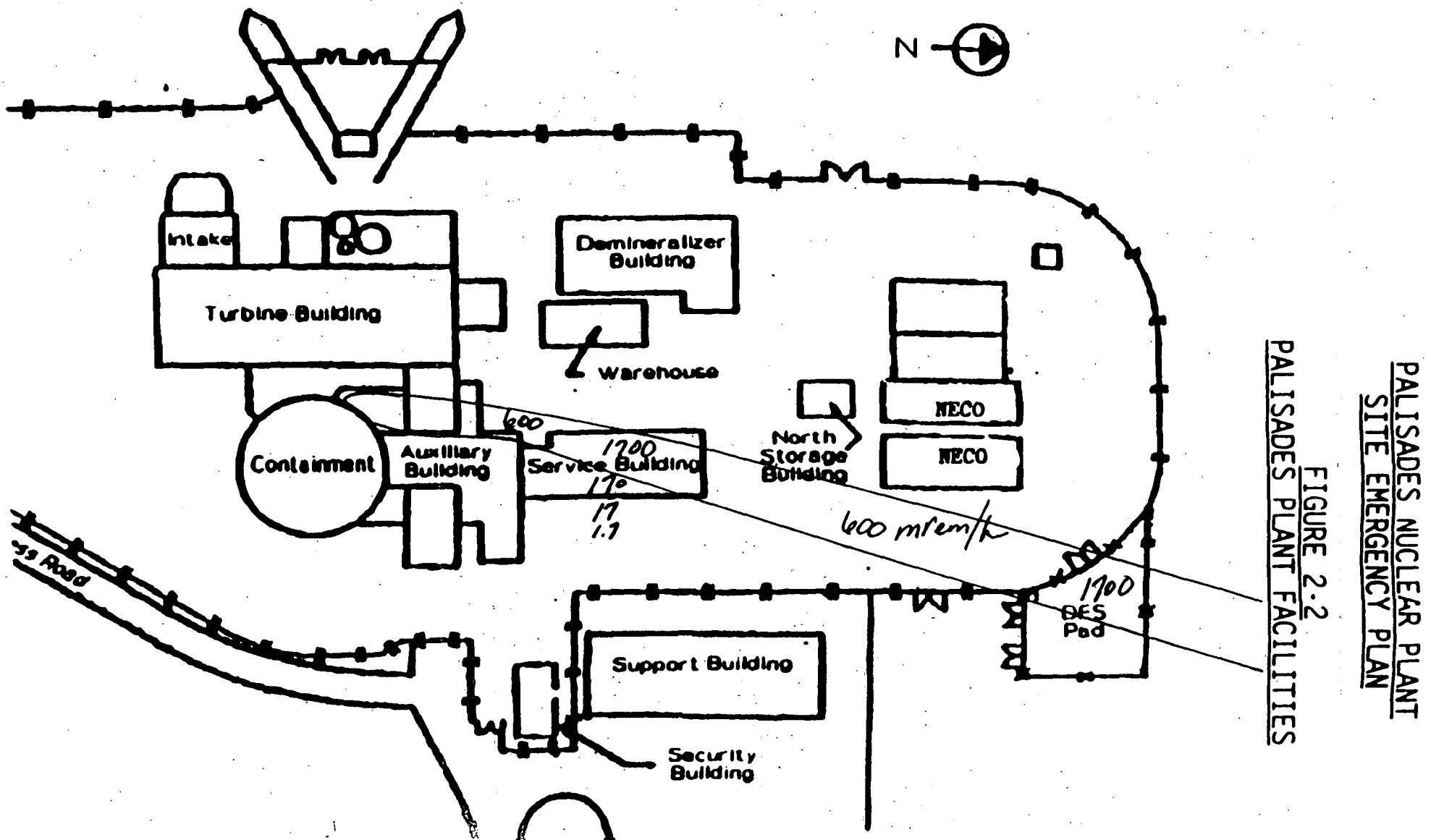
FIGURE 2-2
PALISADES PLANT FACILITIES

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE



200

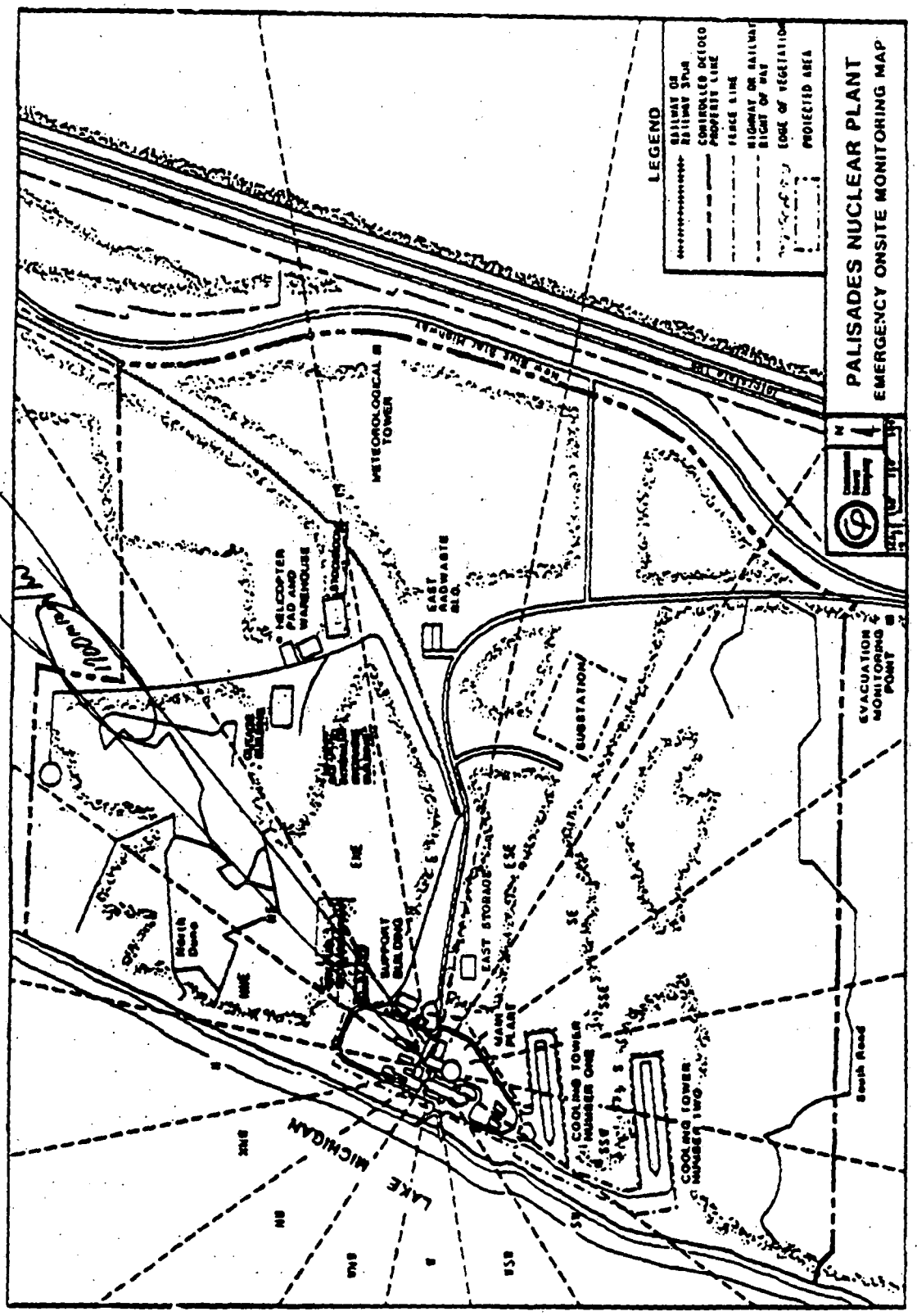
1200

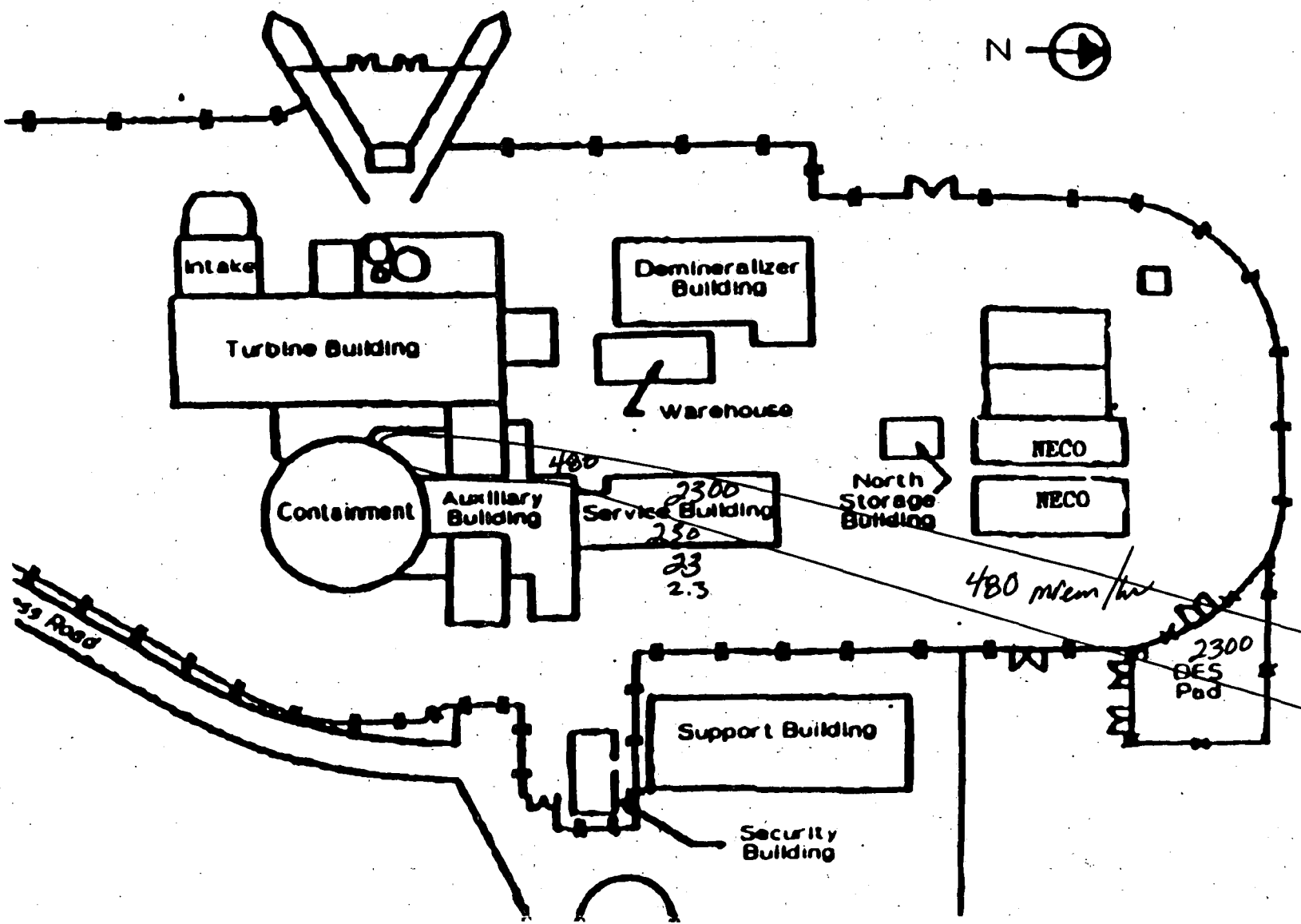


PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-2
PALISADES PLANT FACILITIES

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE

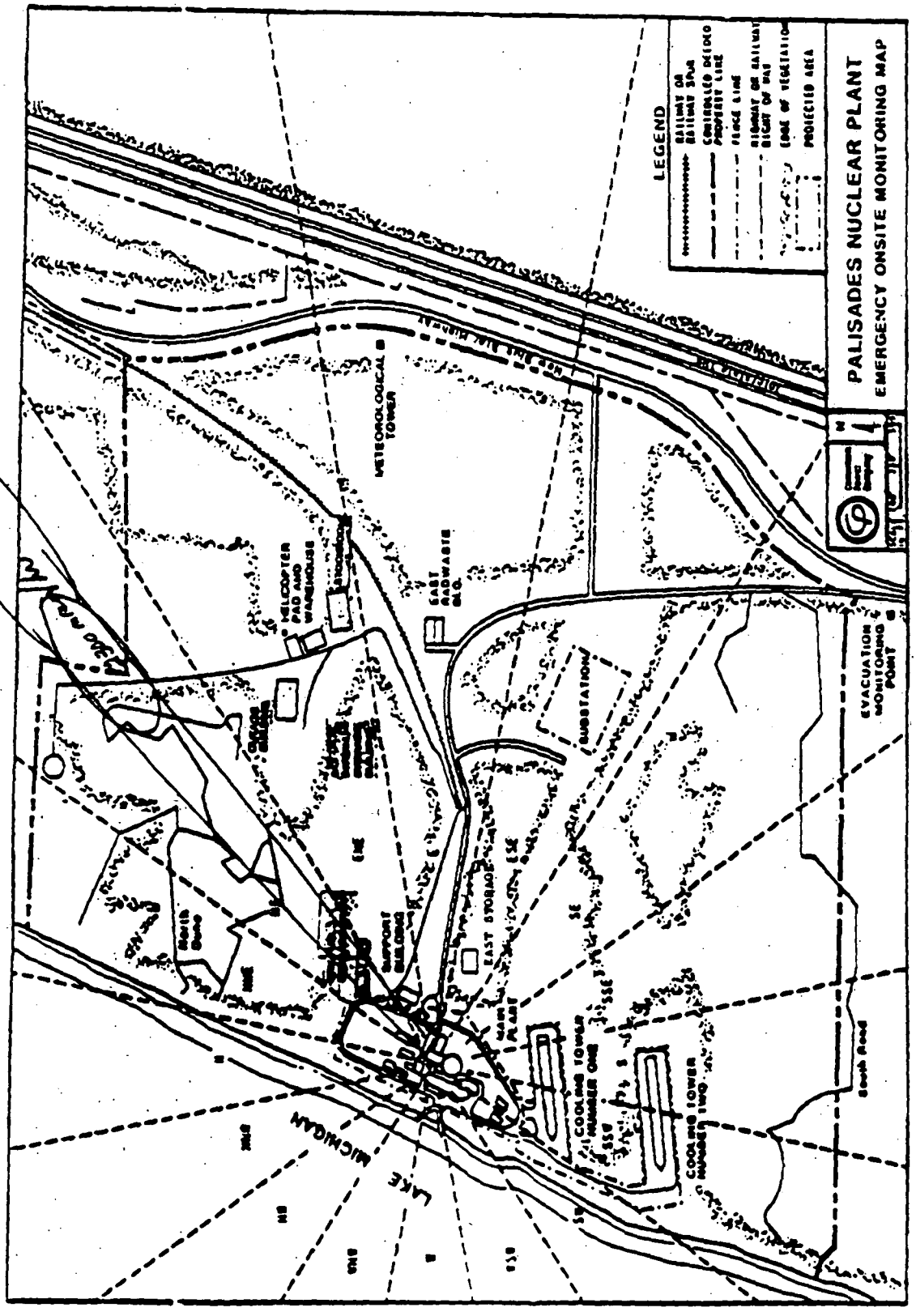




PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

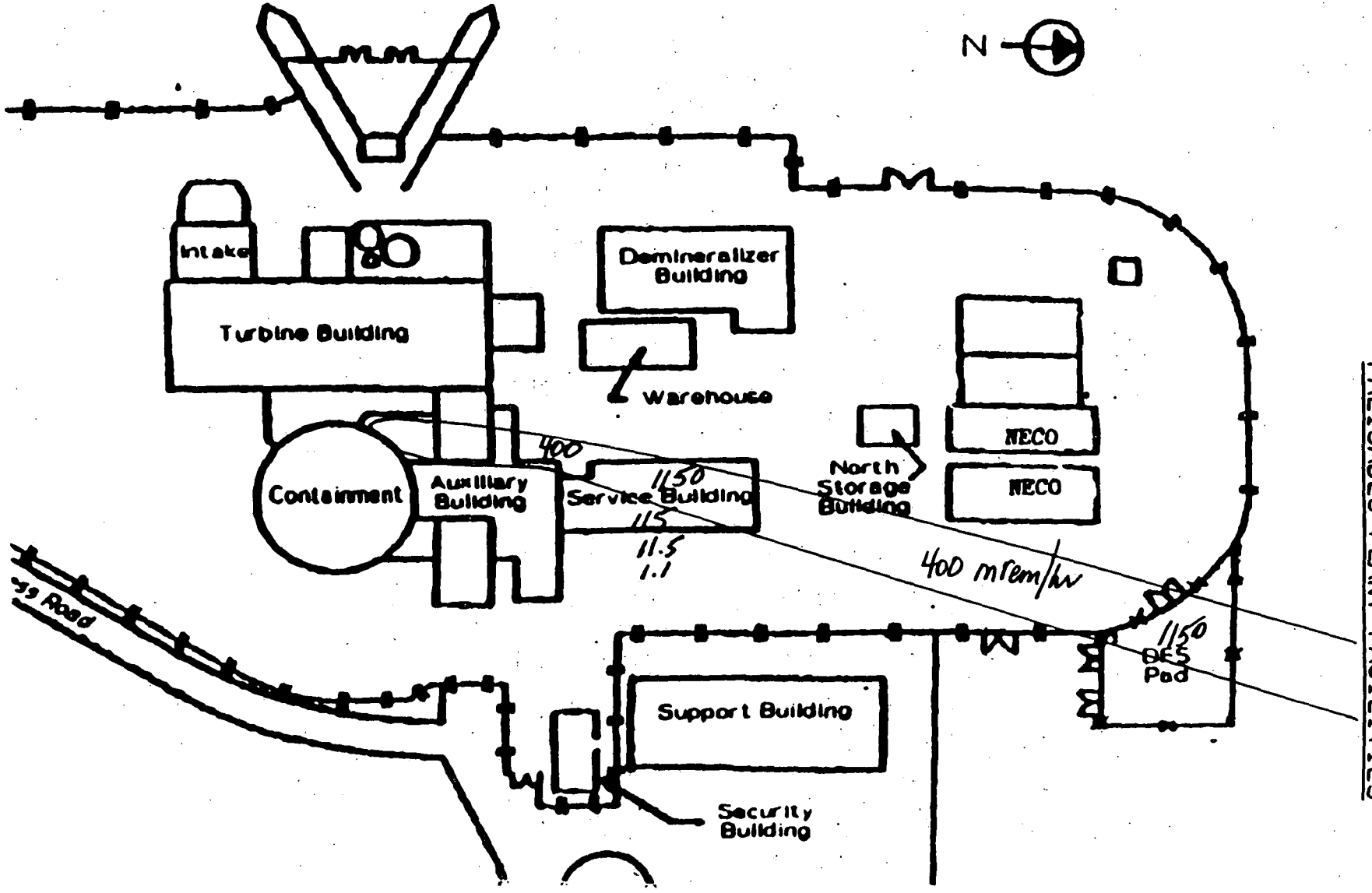
FIGURE 2-2
PALISADES PLANT FACILITIES

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE



12-

1230

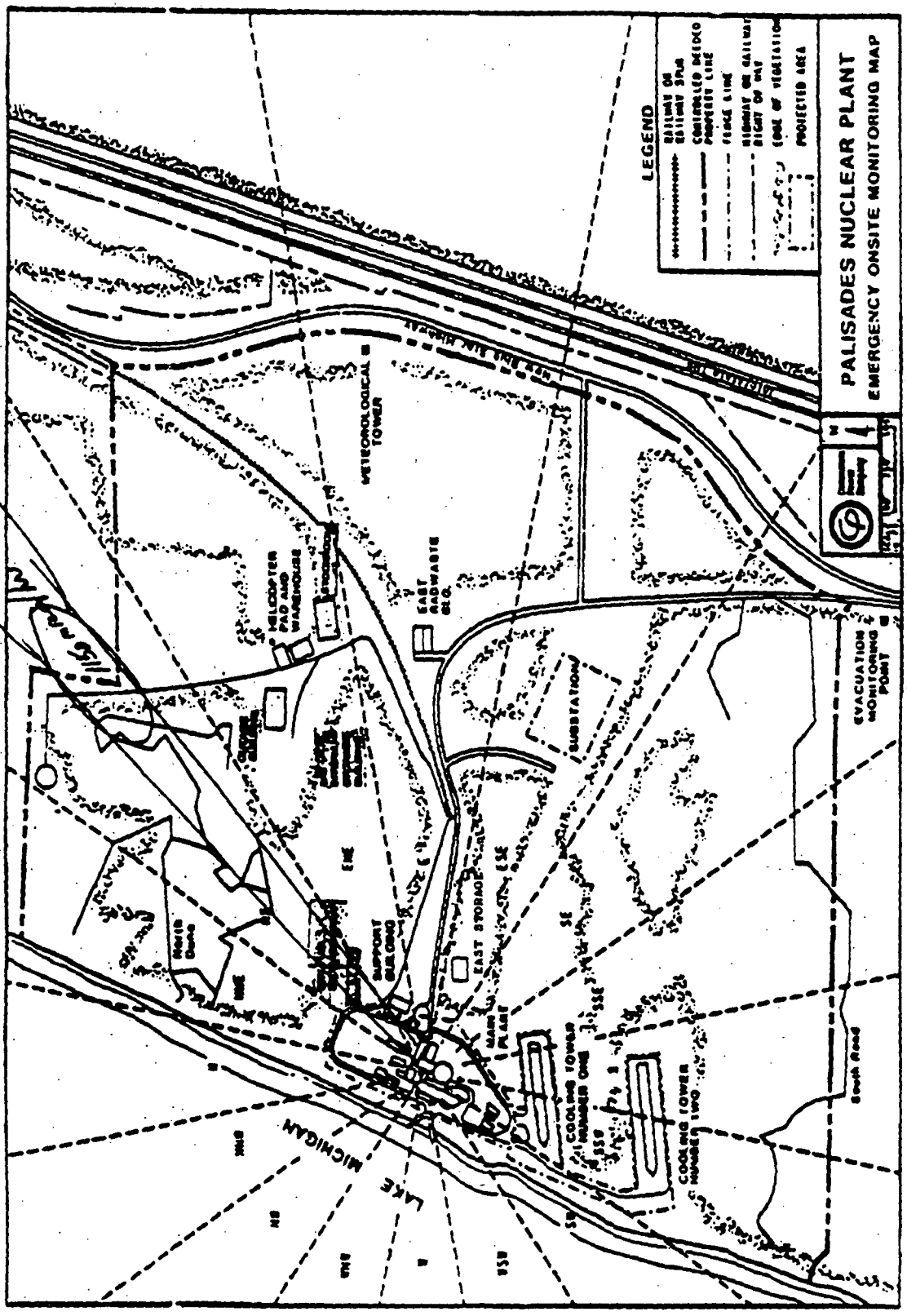


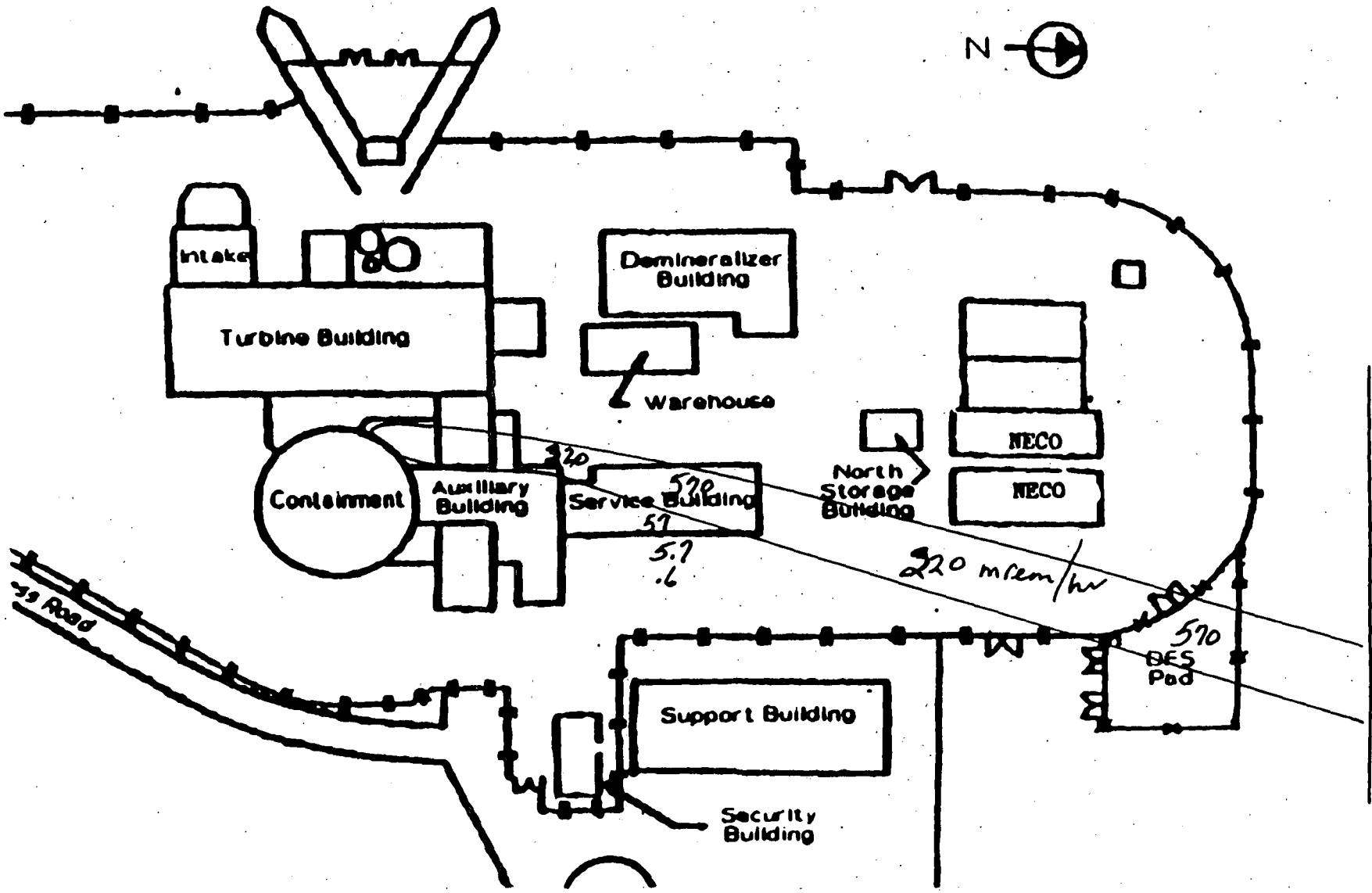
PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-2
PALISADES PLANT FACILITIES

1230

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE



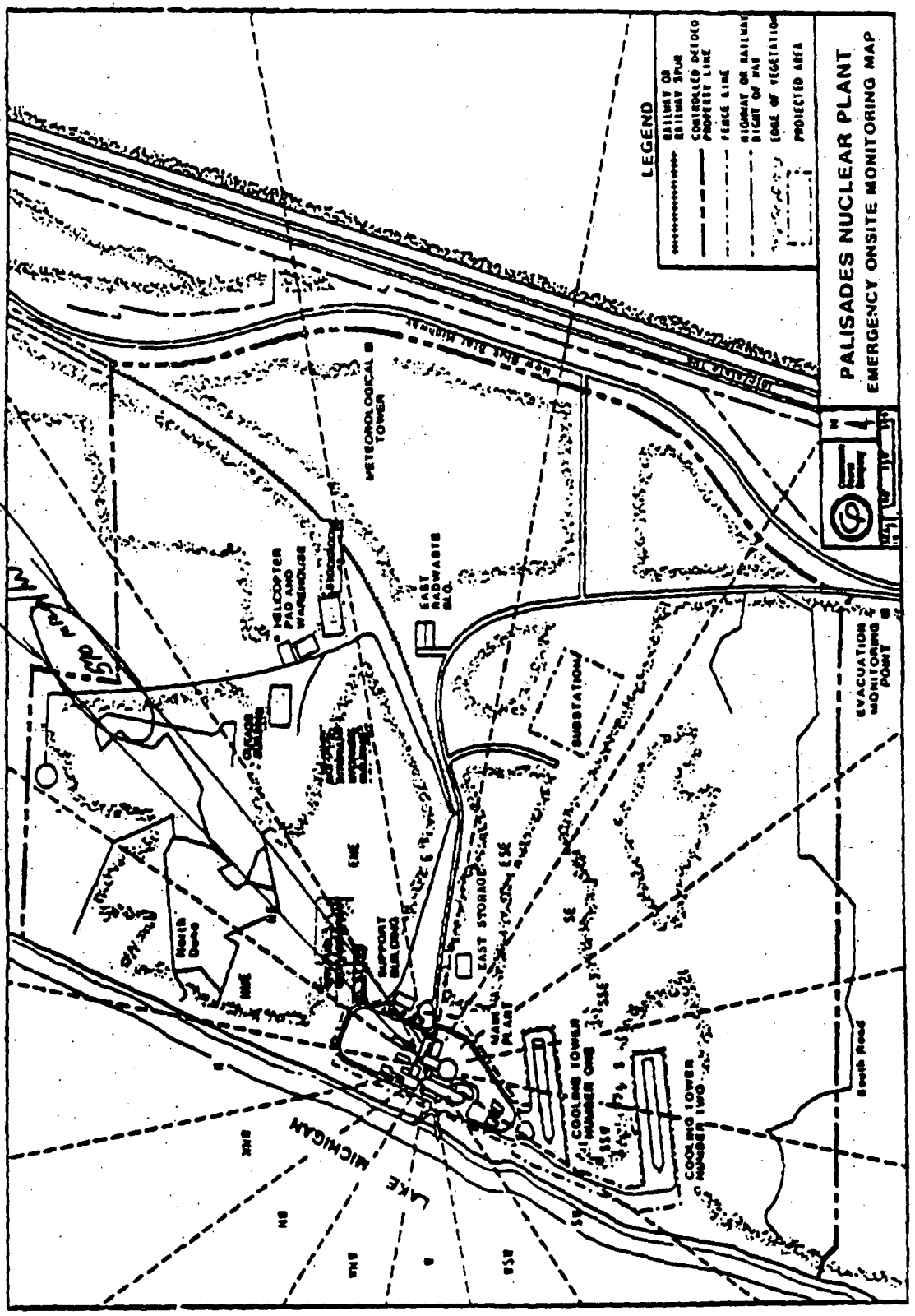


PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

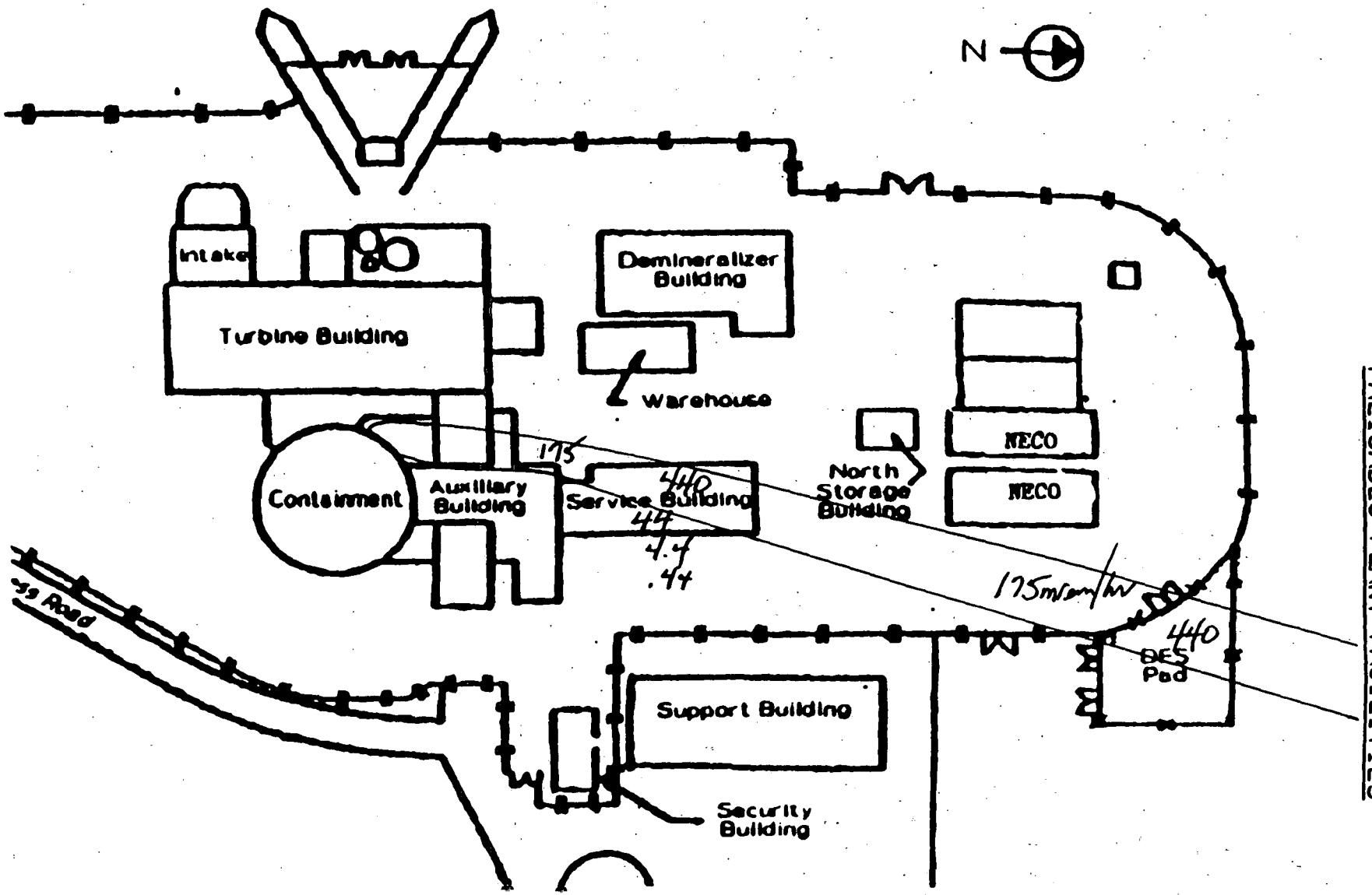
FIGURE 2-2
PALISADES PLANT FACILITIES

1245

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE



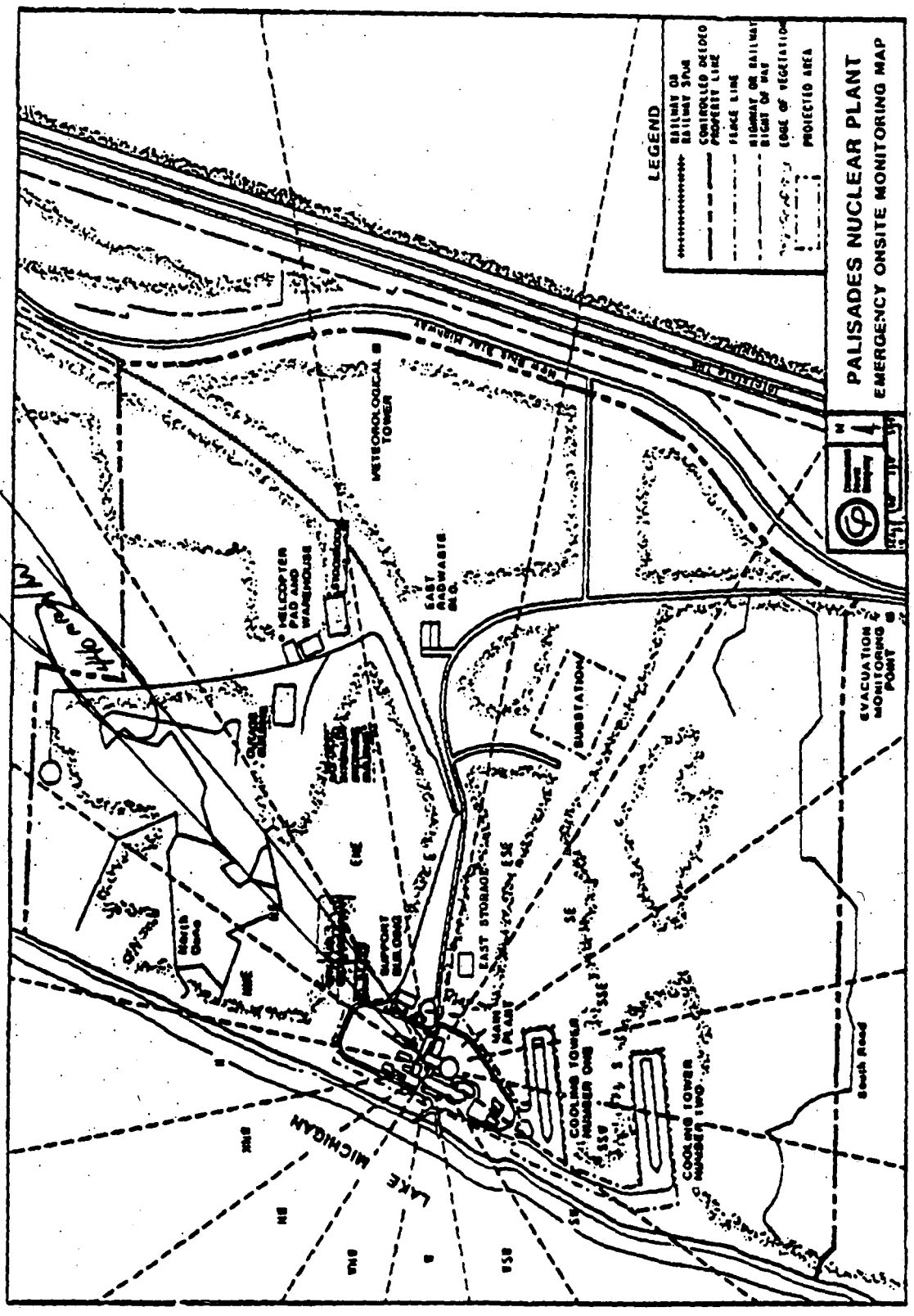
130
1300

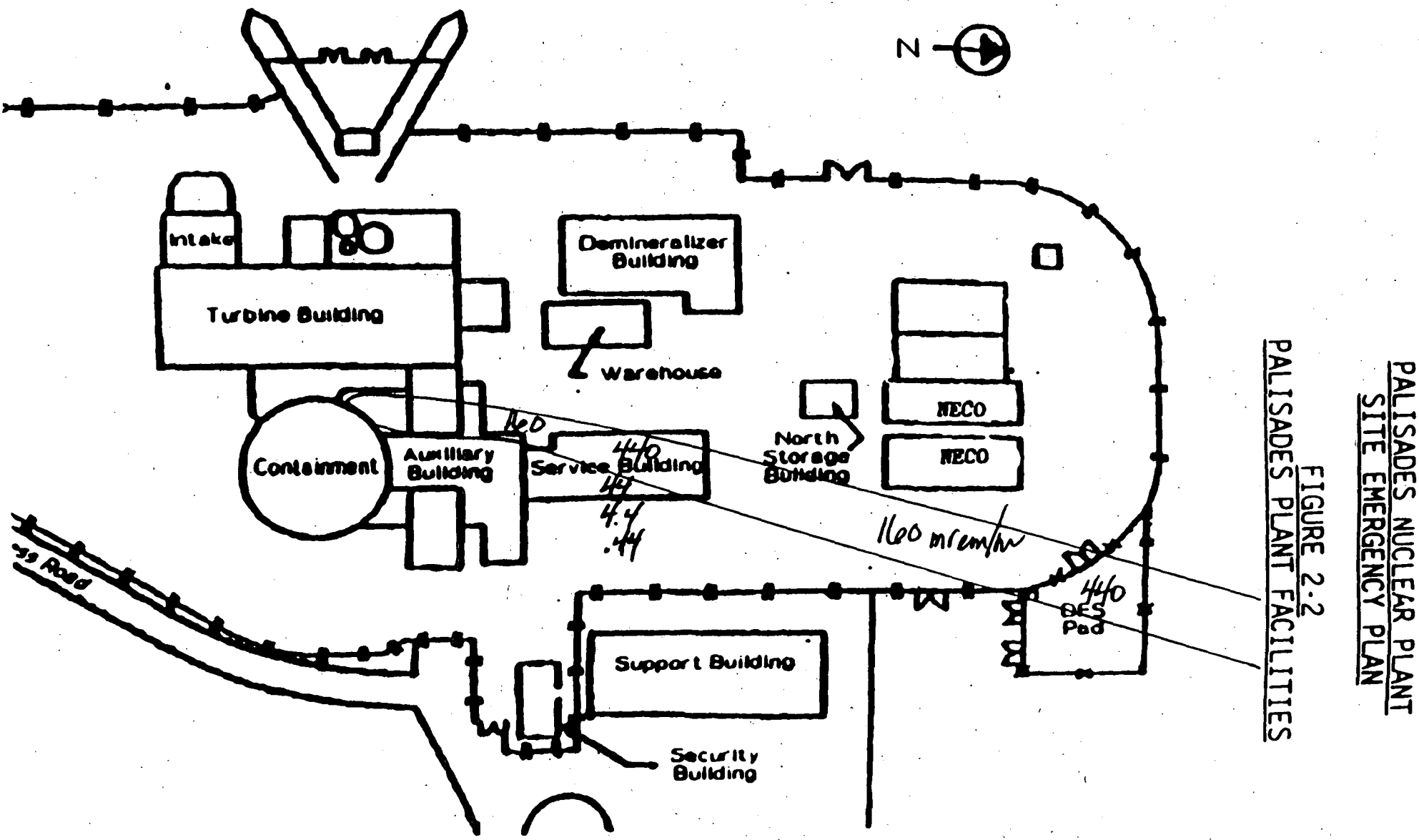


PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-2
PALISADES PLANT FACILITIES

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE

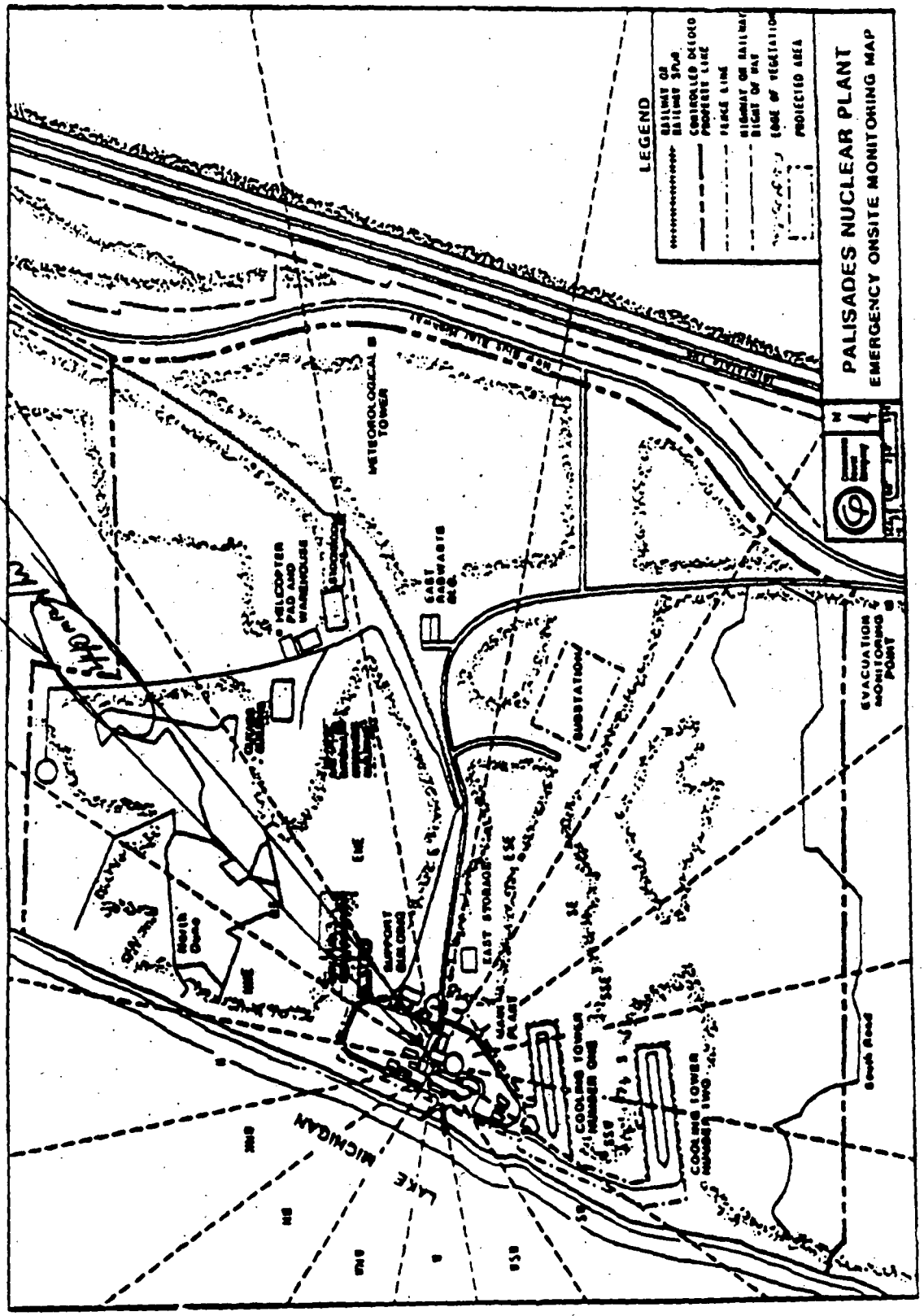


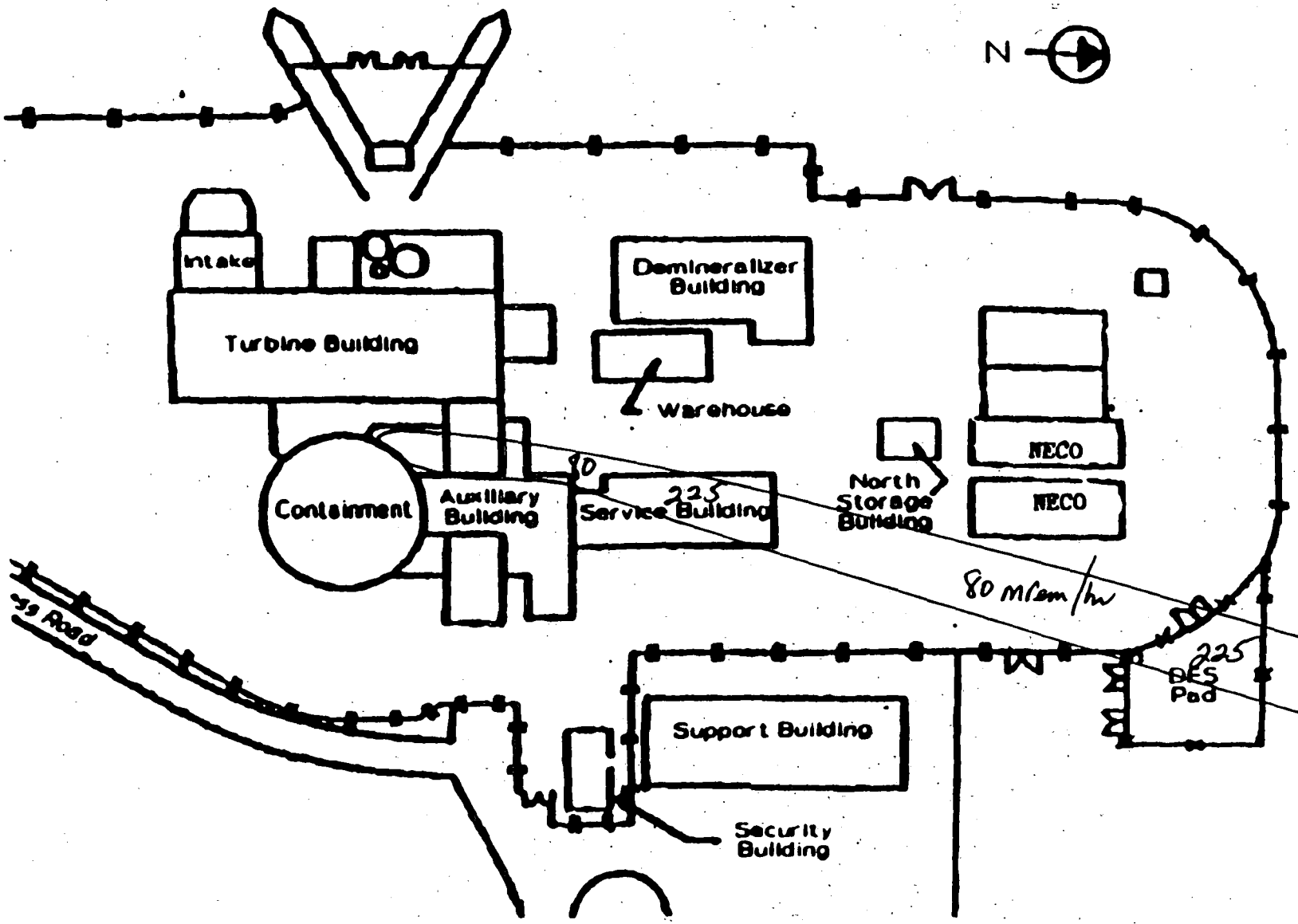


PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-2
PALISADES PLANT FACILITIES

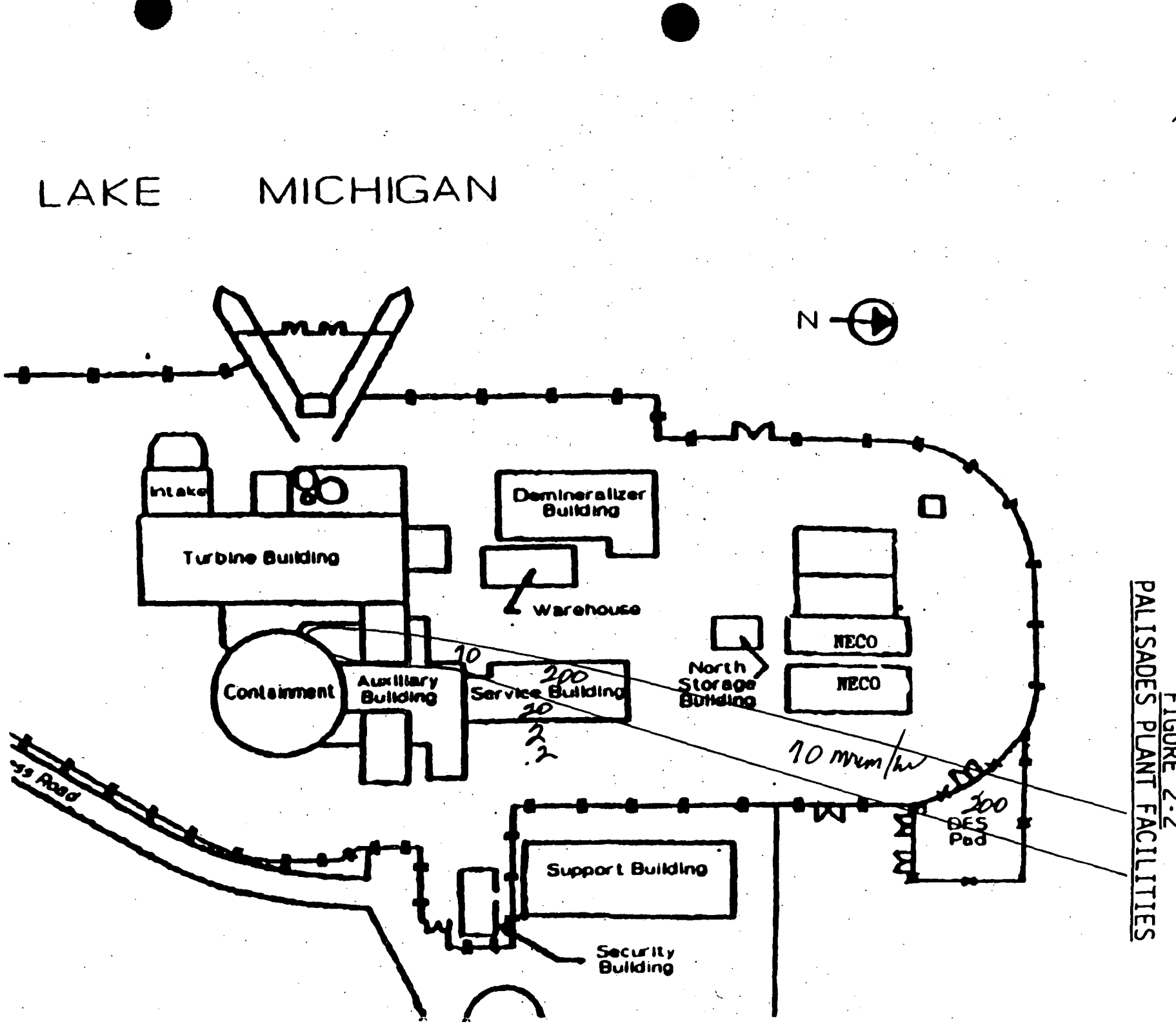
FIGURE 2-3
PALISADES NUCLEAR PLANT SITE





PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-2
PALISADES PLANT FACILITIES



PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-2
PALISADES PLANT FACILITIES

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE

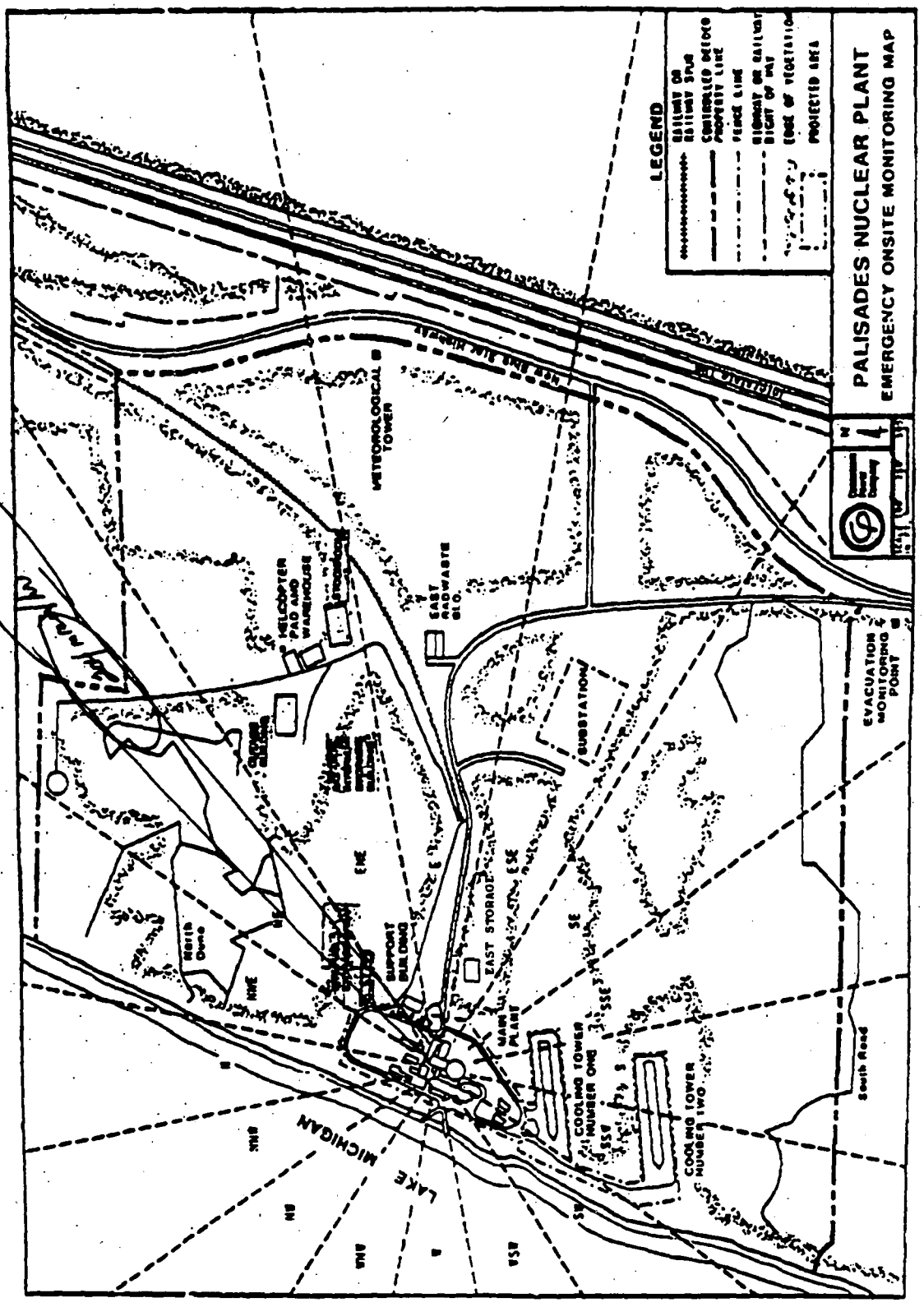
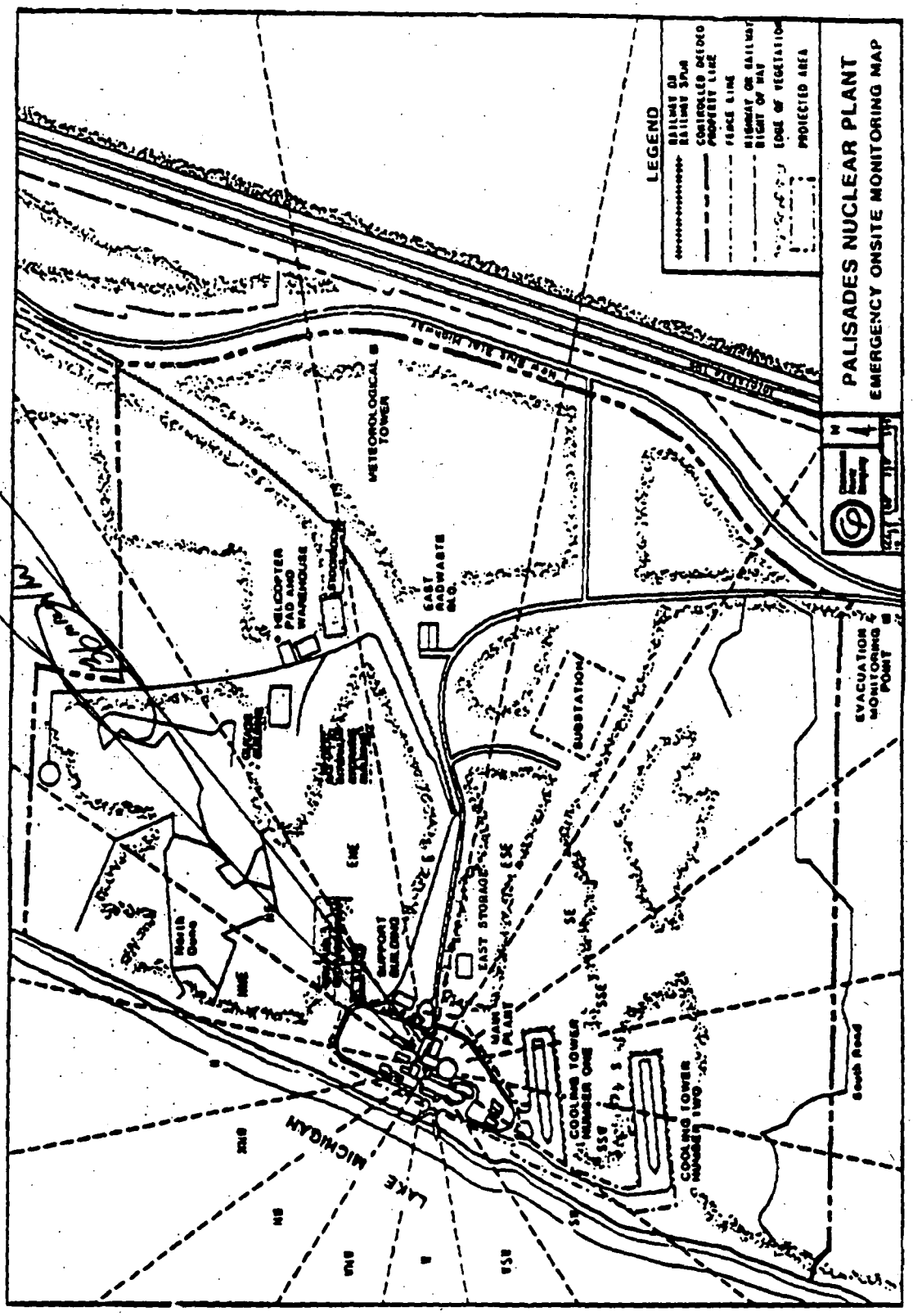
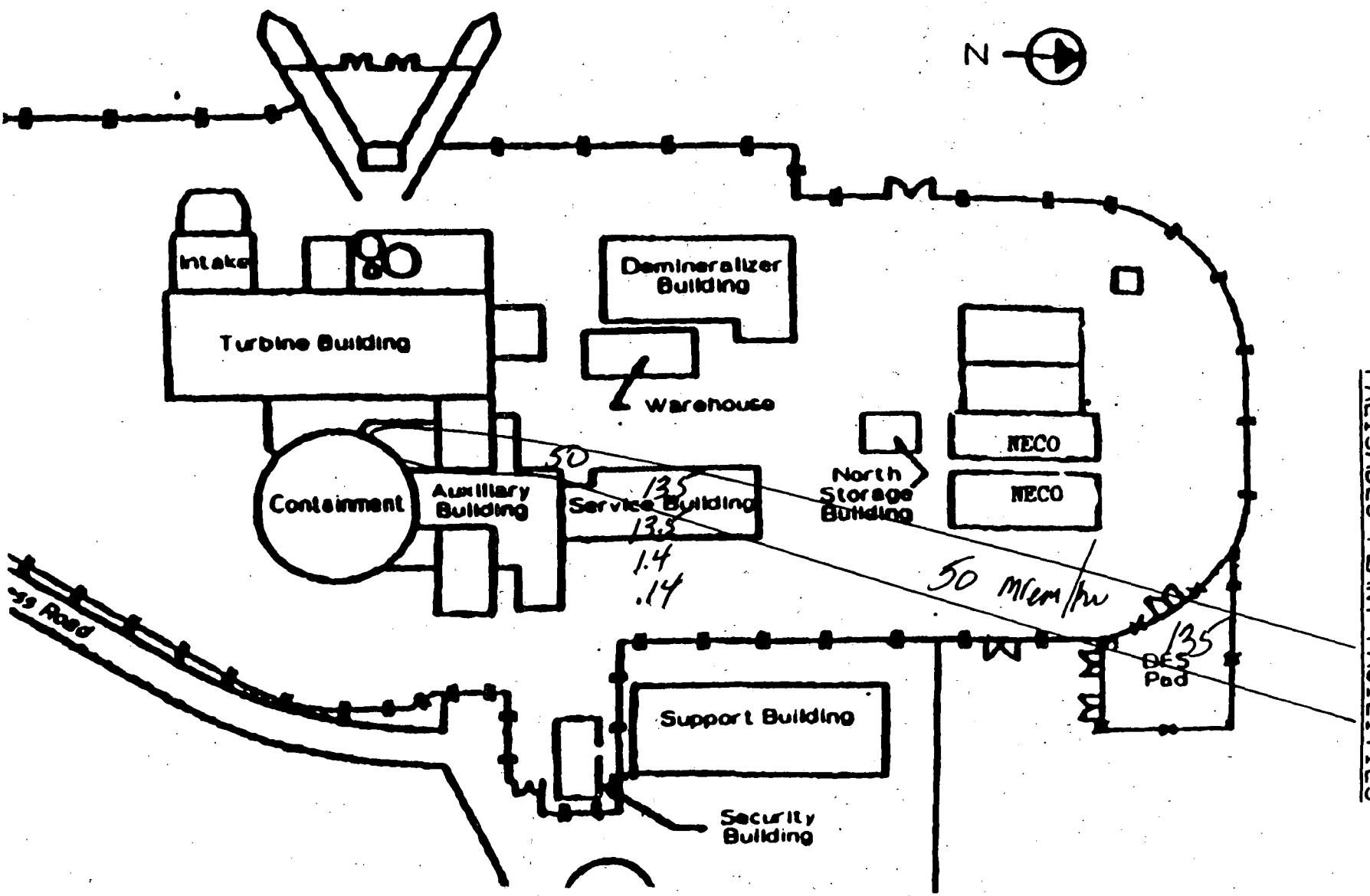


FIGURE 2-3
PALISADES NUCLEAR PLANT SITE



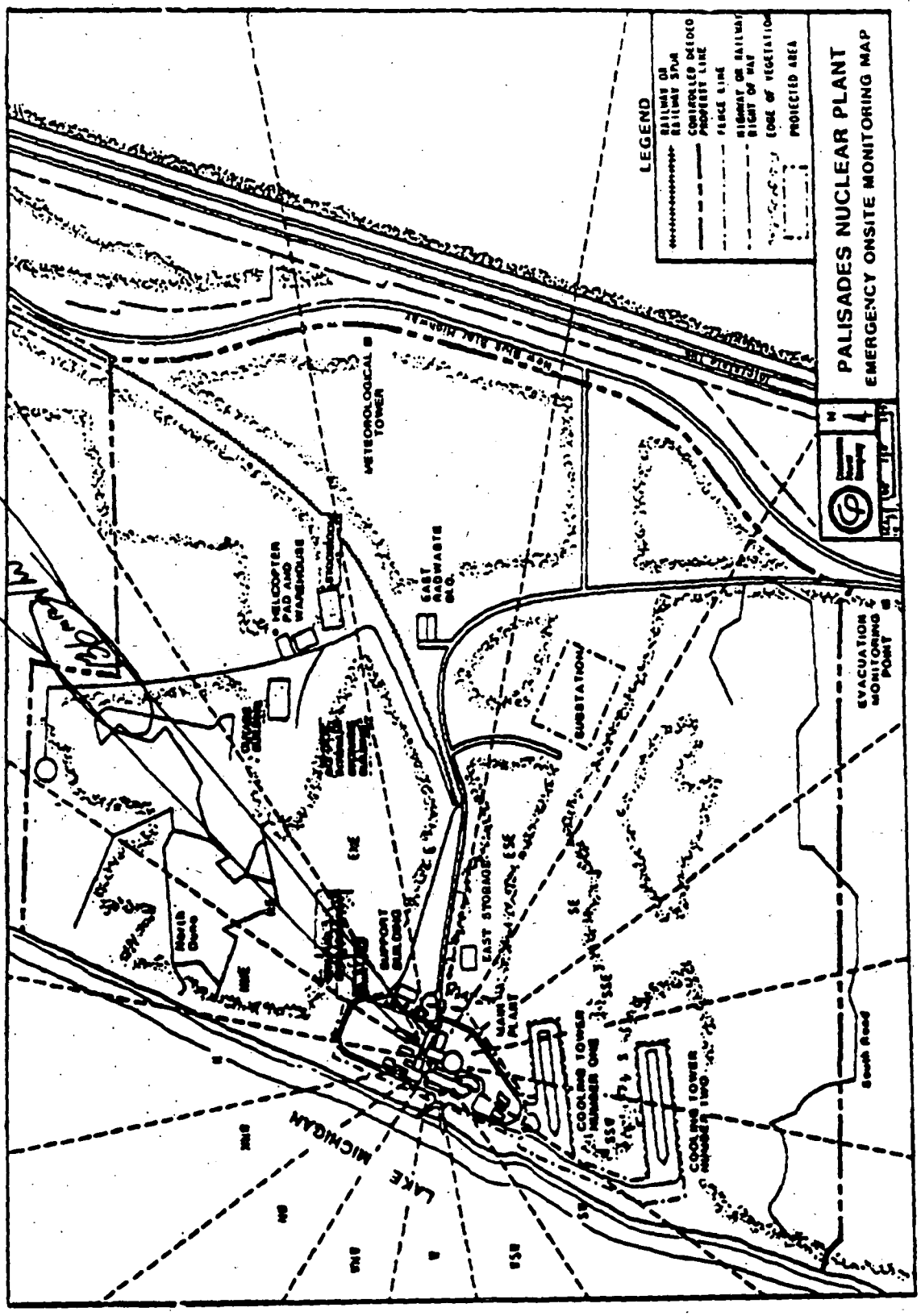
1400



PALISADES NUCLEAR PLANT
SITE EMERGENCY PLAN

FIGURE 2-2
PALISADES PLANT FACILITIES

FIGURE 2-3
PALISADES NUCLEAR PLANT SITE



CONVERSIONS

IODINE CONVERSION
WHEN IN PLUME =
GAMMA RDG X 1.5E-08

SERVICE BLDG=
REDUCE GAMMA BY 10
EACH FLOOR.

SHIELDS
BLOCK WALL REDUCE
BY 10

1 FT CONCRETE
REDUCE BY 10
2 FT CONCRETE
REDUCE BY 100

NO CONTAMINATION
UNLESS IN PLUME

WHEN IN PLUME
ESTIMATE A
CONTAMINATION
VALUE

10/23/96

0830

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: mRem/hr BKG (<0.5)

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr BKG (<0.5)

   b. South Steam Line (from 'A' S/G) Contact mRem/hr BKG (<0.5)

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr BKG (<0.5)

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr < 0.5 mRem

   LOCATION: Above Condensate Pump Pit,
   590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

   NONE

6. Return survey to Shift Supervisor.

Completed By: _____

Reviewed By: _____ (SS)

10/22/96
0845

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: mRem/hr BKG

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr 1

   b. South Steam Line (from 'A' S/G) Contact mRem/hr < 0.5

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr 4

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 0.8 mRem

   LOCATION: Above Condensate Pump Pit,
   590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

   None

6. Return survey to Shift Supervisor.

Completed By: _____

Reviewed By: _____ (SS)

10/22/96
0900

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: mRem/hr 0.6

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr 1.5

   b. South Steam Line (from 'A' S/G) Contact mRem/hr <0.5

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr 5

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 1.0

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

   None

6. Return survey to Shift Supervisor.

Completed By: _____

Reviewed By: _____ (SS)

10/22/96
0915

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: mRem/hr 0.7

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr 0.5

   b. South Steam Line (from 'A' S/G) Contact mRem/hr <0.5

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr 3

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 0.5

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

   None

6. Return survey to Shift Supervisor.

Completed By: _____

Reviewed By: _____ (SS)

10/22/86
0930

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: mRem/hr 0.7

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr 0.5

   b. South Steam Line (from 'A' S/G) Contact mRem/hr <0.5

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr 3

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 0.5

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

   None

6. Return survey to Shift Supervisor.

Completed By: _____

Reviewed By: _____ (SS)

p/22/96
0945

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: mRem/hr 0.7

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr 0.5

   b. South Steam Line (from 'A' S/G) Contact mRem/hr <0.5

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr 3

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 0.5

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

   None

6. Return survey to Shift Supervisor.

Completed By: _____

Reviewed By: _____ (SS)

10/22/96
1000

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: mRem/hr 0.7

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr 0.5

   b. South Steam Line (from 'A' S/G) Contact mRem/hr <0.5

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr 3

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 0.5

   LOCATION: Above Condensate Pump Pit,
   590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building: None

6. Return survey to Shift Supervisor.

Completed By: _____

Reviewed By: _____ (SS)

10/22/98
1015

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: mRem/hr 0.7

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr 0.5

   b. South Steam Line (from 'A' S/G) Contact mRem/hr <0.5

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr 3

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 0.5

   LOCATION: Above Condensate Pump Pit,
   590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

   None

6. Return survey to Shift Supervisor.

Completed By: _____

Reviewed By: _____ (SS)

4/24/96
1030

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: mRem/hr 0.7

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr 0.5

   b. South Steam Line (from 'A' S/G) Contact mRem/hr 0.5

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr 3

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 0.5

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

   _____

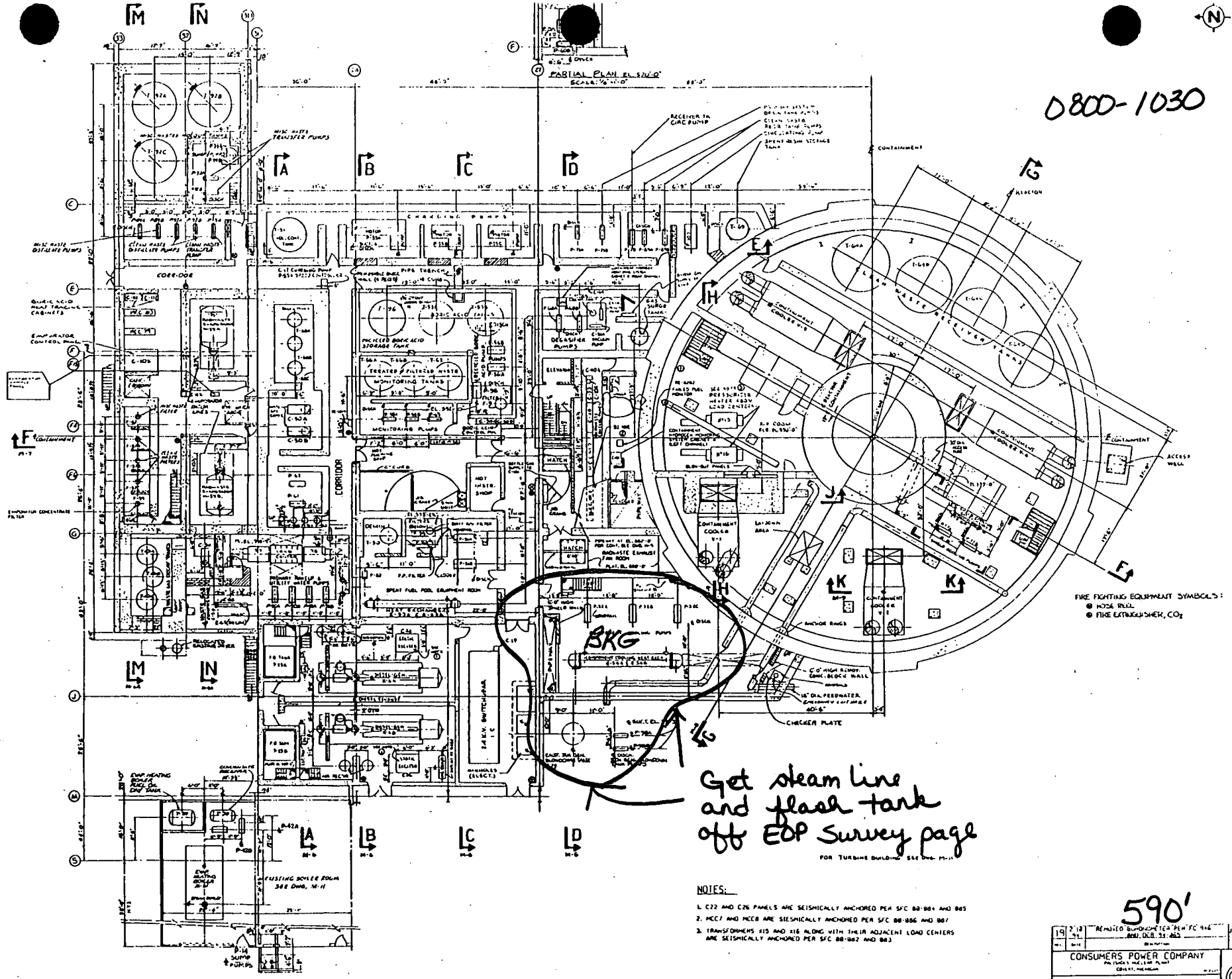
   _____

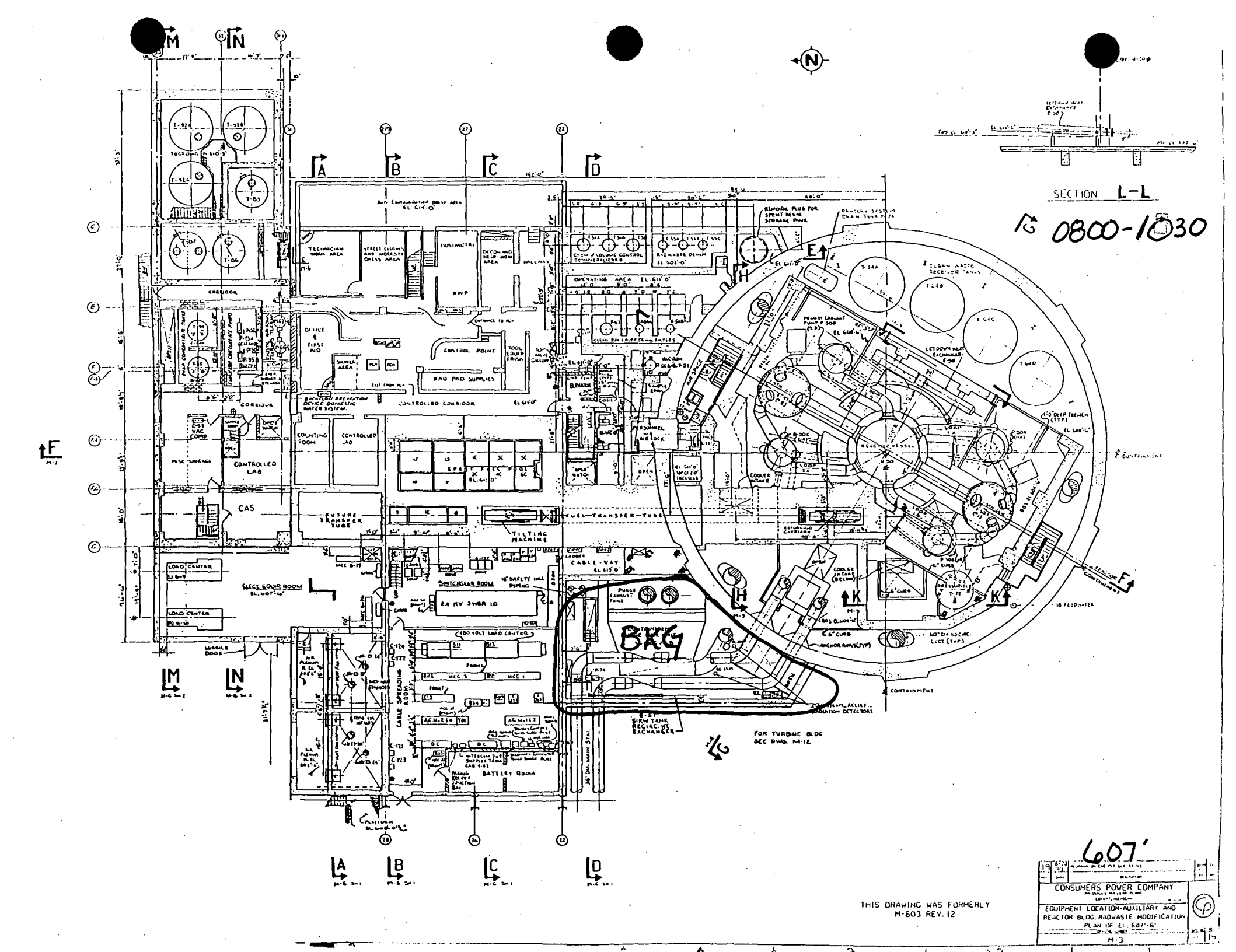
   _____

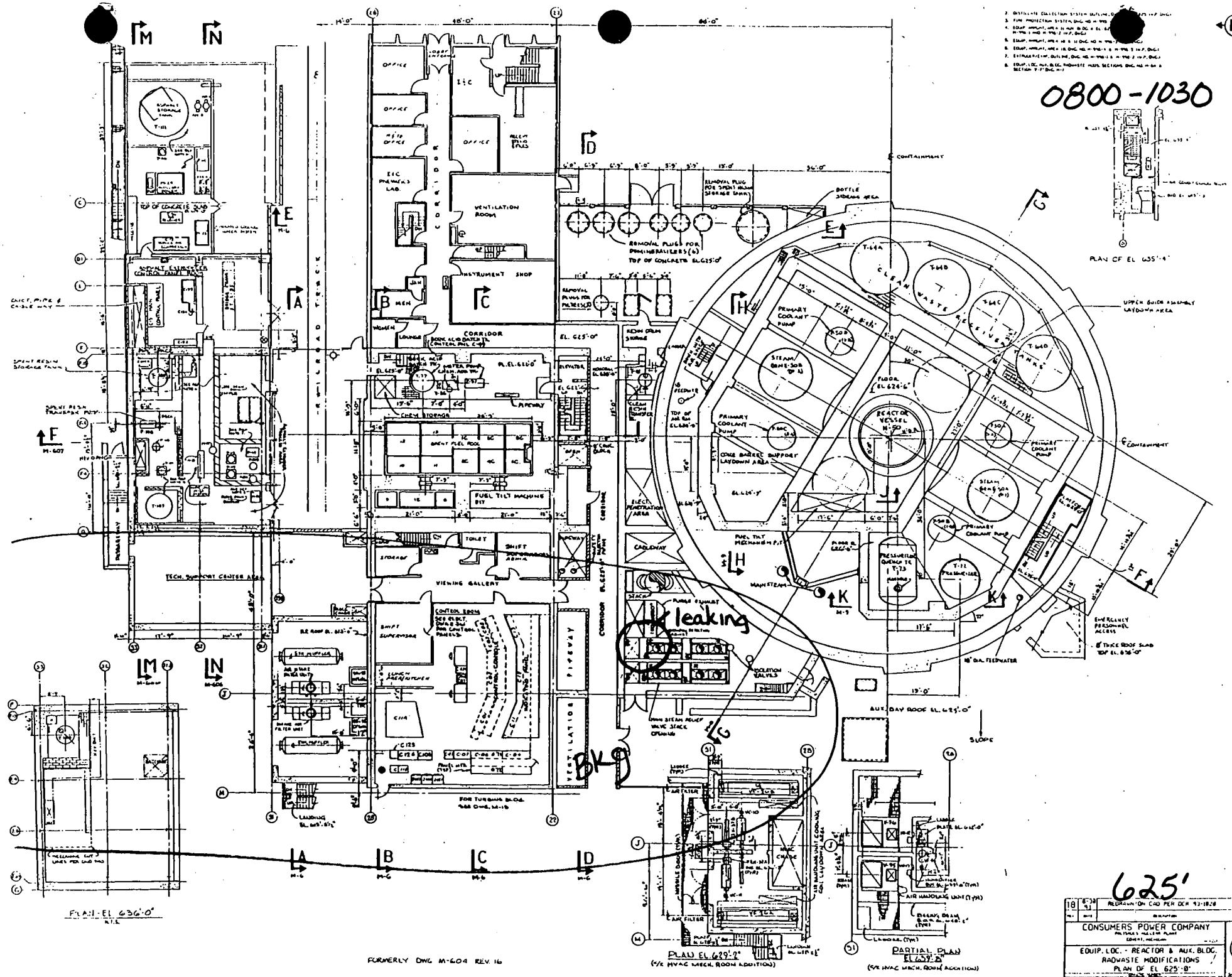
6. Return survey to Shift Supervisor.

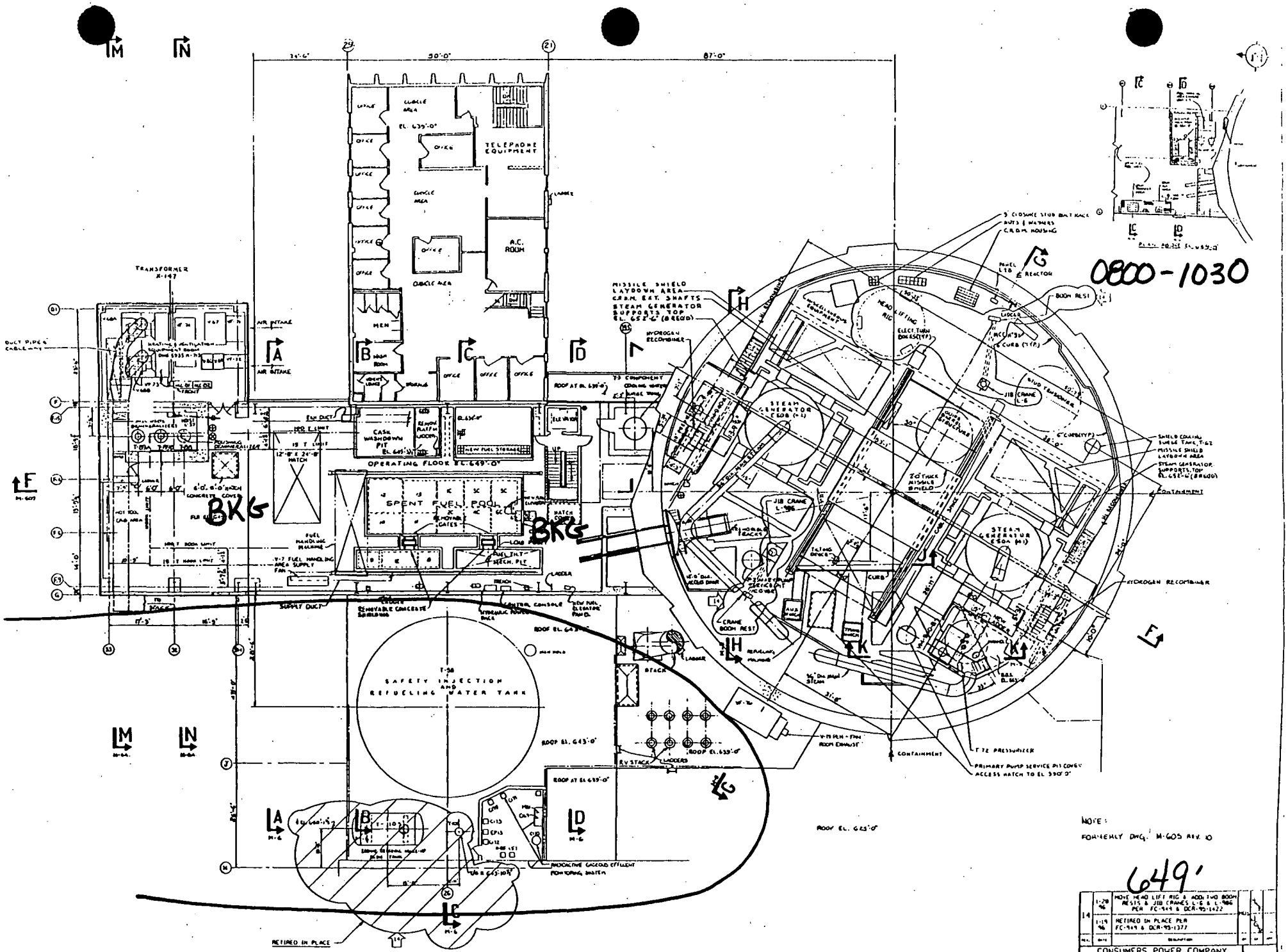
Completed By: _____

Reviewed By: _____ (SS)


0800-1030
PARTIAL PLAN EL 574'-0"
SCALE: 1/8"=1'-0"
CONTAINMENT
REACTOR
CHARGING PUMPS
SPENT FUEL POOL EQUIPMENT ROOM
CORRIDOR
HOT WASTE SHOP
CONTAINMENT COOLERS
ACCESS WELL
CHECKER PLATE
BKG
Get steam line and flash tank off EOP survey page
FIRE FIGHTING EQUIPMENT SYMBOLS:
HOSE REEL
FIRE EXTINGUISHER, CO2
590'
NOTES:
1. C22 AND C26 PANELS ARE SEISMICALLY ANCHORED PER SFC 88-884 AND 885
2. MCC7 AND MCC8 ARE SIESMICALLY ANCHORED PER SFC 88-886 AND 887
3. TRANSFORMERS X15 AND X16 ALONG WITH THEIR ADJACENT LOAD CENTERS ARE SEISMICALLY ANCHORED PER SFC 88-882 AND 883
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 590'-0"
M-2


SECTION L-L
0800-1030
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION-AUXILIARY AND REACTOR BLDG. RADWASTE MODIFICATION
PLAN OF EL. 607'-6"
M-3
THIS DRAWING WAS FORMERLY M-603 REV. 12
FOR TURBINE BLDG SEE DWG. M-12
BKG
CONTROLLED LAB
CONTROL POINT
RAD PRO SUPPLIES
CONTROLLED CORRIDOR
SPENT FUEL POOL
REACTOR VESSEL
CONTAINMENT
TILTING MACHINE
FUEL TRANSFER TUBE
SWITCHGEAR ROOM
CABLE SPREADING ROOM
BATTERY ROOM
CABLE WAY EL 613'-0"
CAS


0800-1030
625'
leaking
BKG
PLAN EL 636'-0"
PLAN EL 629'-2"
(F/E HVAC MECH. ROOM ADDITION)
PARTIAL PLAN EL 659'-8"
(F/E HVAC MECH. ROOM ADDITION)
PLAN OF EL 655'-4"
FORMERLY DWG M-604 REV. 16
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 625'-0"
M-4
REDRAWN ON CAD PER DCR 93-1828



NOTE:

FORMERLY DWG. M-605 REV. 10

14	1-28-96	MOVE HEAD LIFT RIG & ADD TWO BOOM RESTS & JIB CRANES L-16 & L-166 PER FC-949 & DCR-95-1422	
	1-19-96	RETIRED IN PLACE PER FC-949 & DCR-95-1377	
NO.	DATE	DESCRIPTION	BY

CONSUMERS POWER COMPANY
PALISADES NUCLEAR PLANT
COVERT, MICHIGAN

EQUIP. LOC.- AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 649'-8"

DRAWING NUMBER: M-5

NO. 14

10/22/96
1045

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr * (steam plume)

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr ___ (shine from jail house)

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors. (use room reading)

4. Off gas line: Contact mRem/hr 5

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

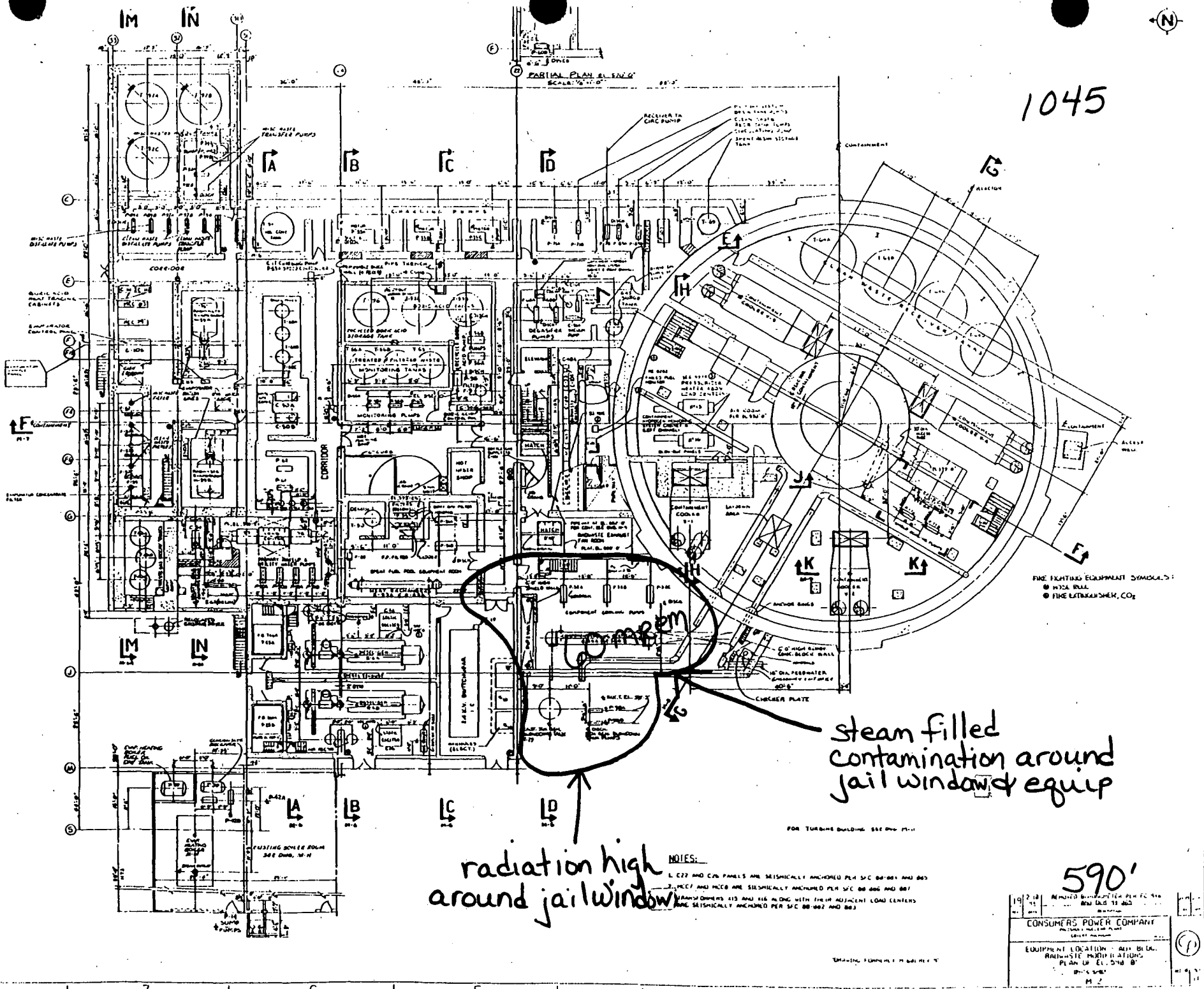
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

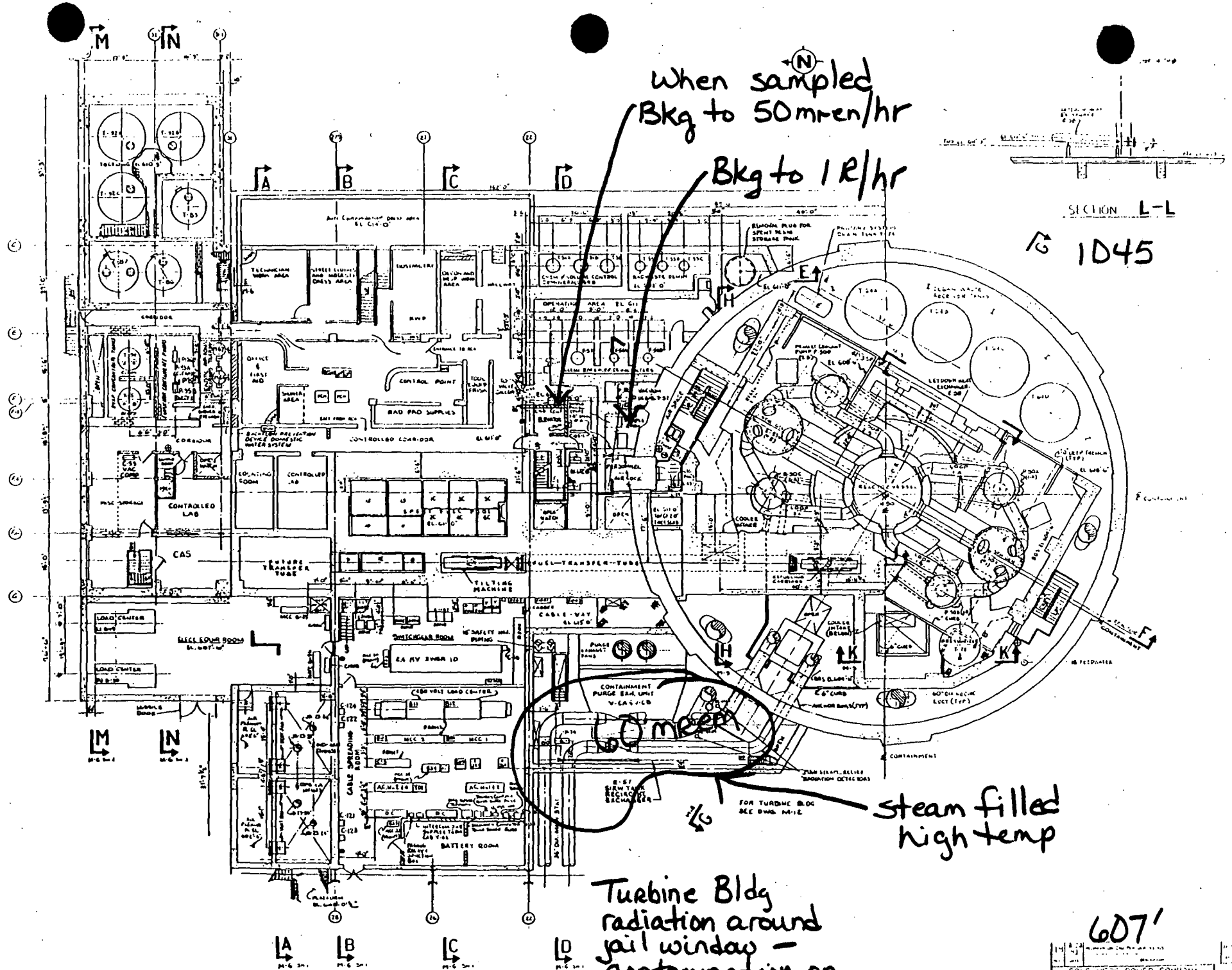
* Use room reading ÷ 10 in plume

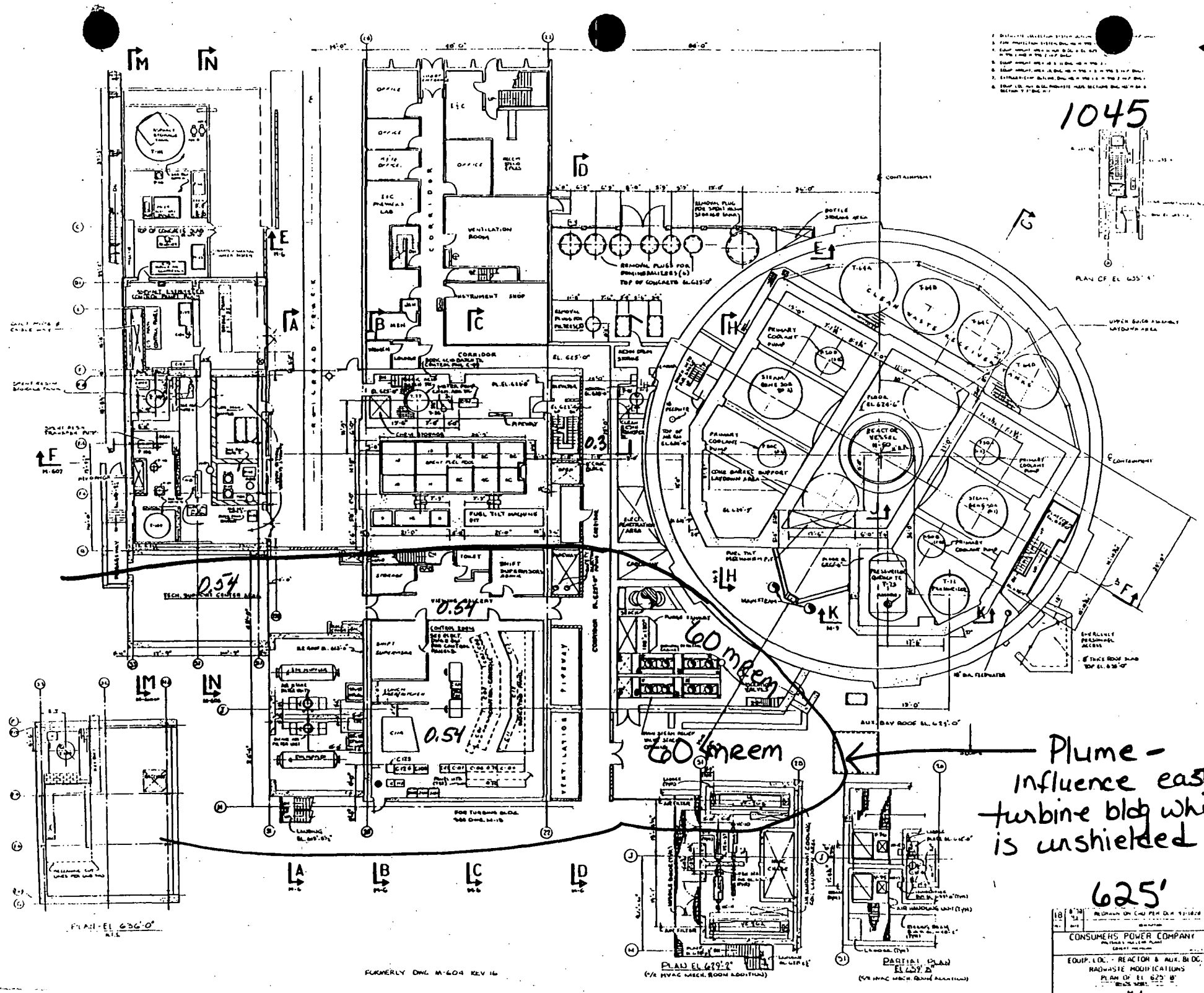
6. Return survey to Shift Supervisor.

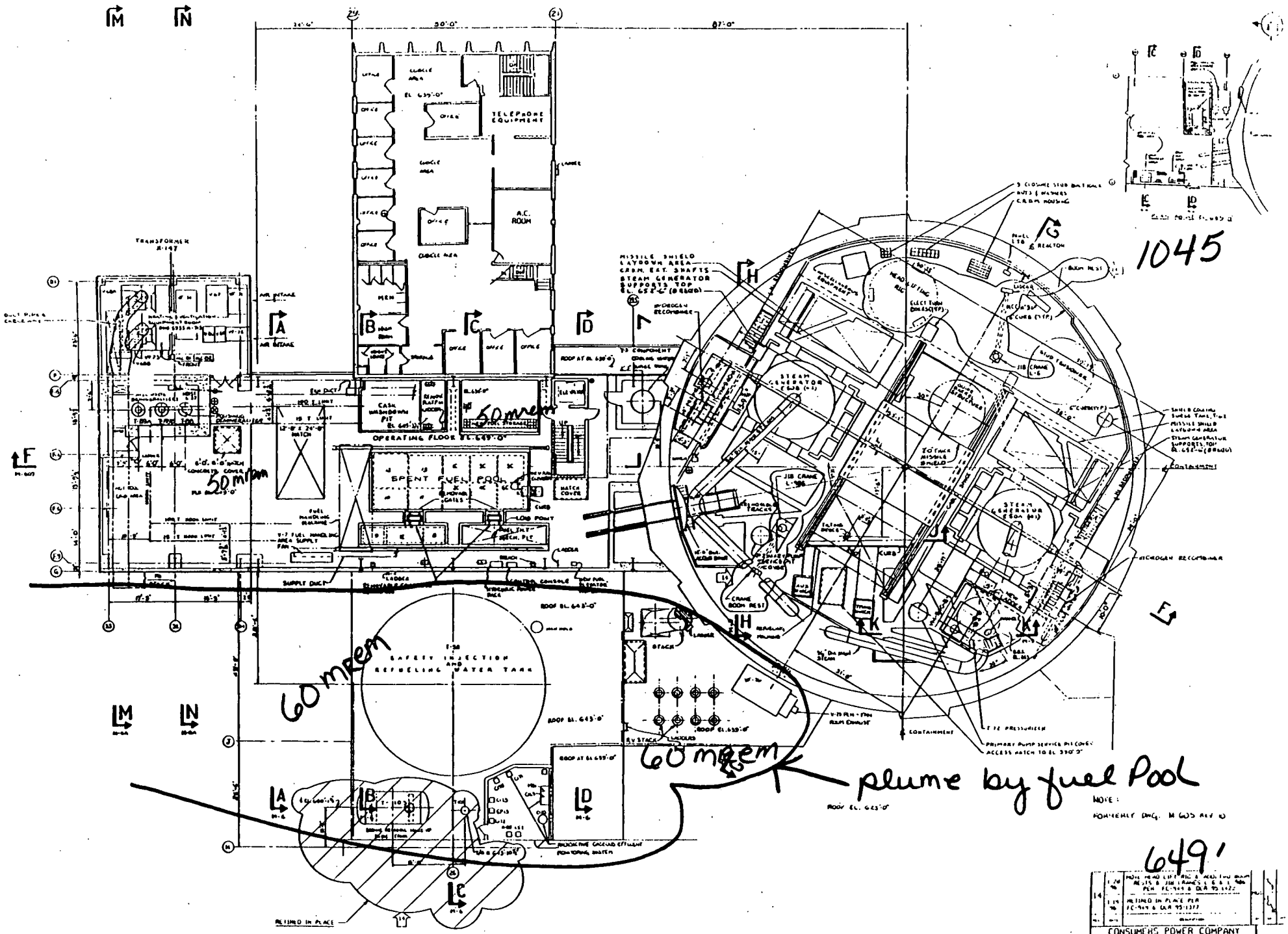
Completed By: _____

Reviewed By: _____ (SS)


1045
590'
steam filled contamination around jail window & equip
radiation high around jail window
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX BLDG. RADWASTE MODIFICATIONS PLAN OF EL. 590'-0"


When sampled
Bkg to 50 mrem/hr
Bkg to 1 R/hr
SECTION L-L
1045
50 mrem
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION-AUXILIARY AND
REACTOR BLDG. RADWASTE MODIFICATION
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1045
625'
60 mrem
60 mrem
Plume - influence east turbine bldg which is unshielded
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 625'-0"
PLAN EL 636'-0"
PLAN EL 679'-2"
PARTIAL PLAN EL 659'-8"
FORMERLY DWG M-604 REV 16


TELEPHONE EQUIPMENT
A.C. ROOM
OPERATING FLOOR EL. 669'-0"
SPENT FUEL POOL
SAFETY INJECTION AND REFUELING WATER TANK
STEAM GENERATOR
REACTOR
CONTAINMENT
60mrem
50mrem
60mrem
60mrem
plume by fuel Pool
1045
649'
RETIRED IN PLACE
CONSUMERS POWER COMPANY
AUX. BLDG. RADWASTE MODIFICATIONS
PLAN OF EL. 649'-0"

1/22/96
1100

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr * (steam plume)

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating.

3. Flash Tank T-29A: Contact mRem/hr ___ (shine from jail house; use room reading)

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 5.5

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

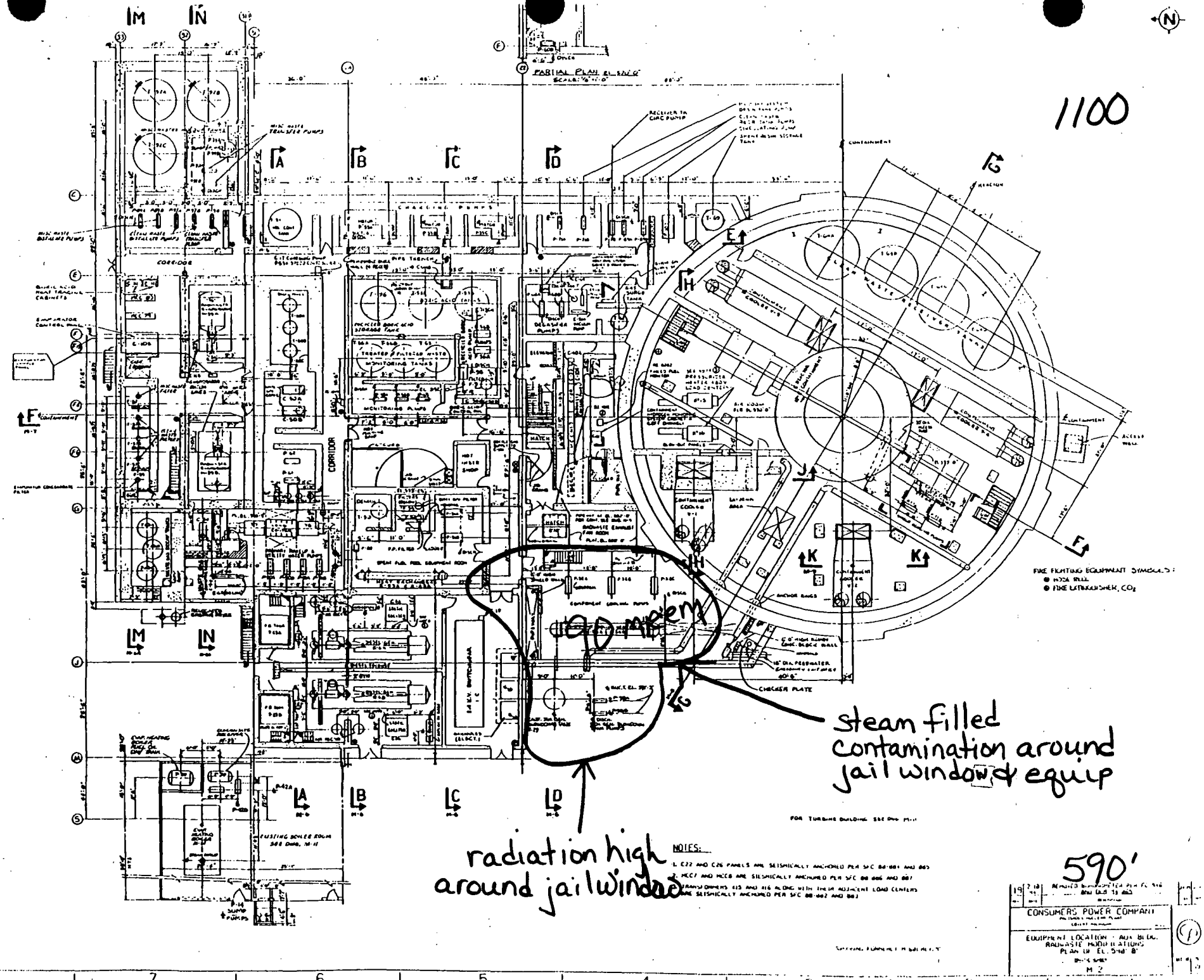
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

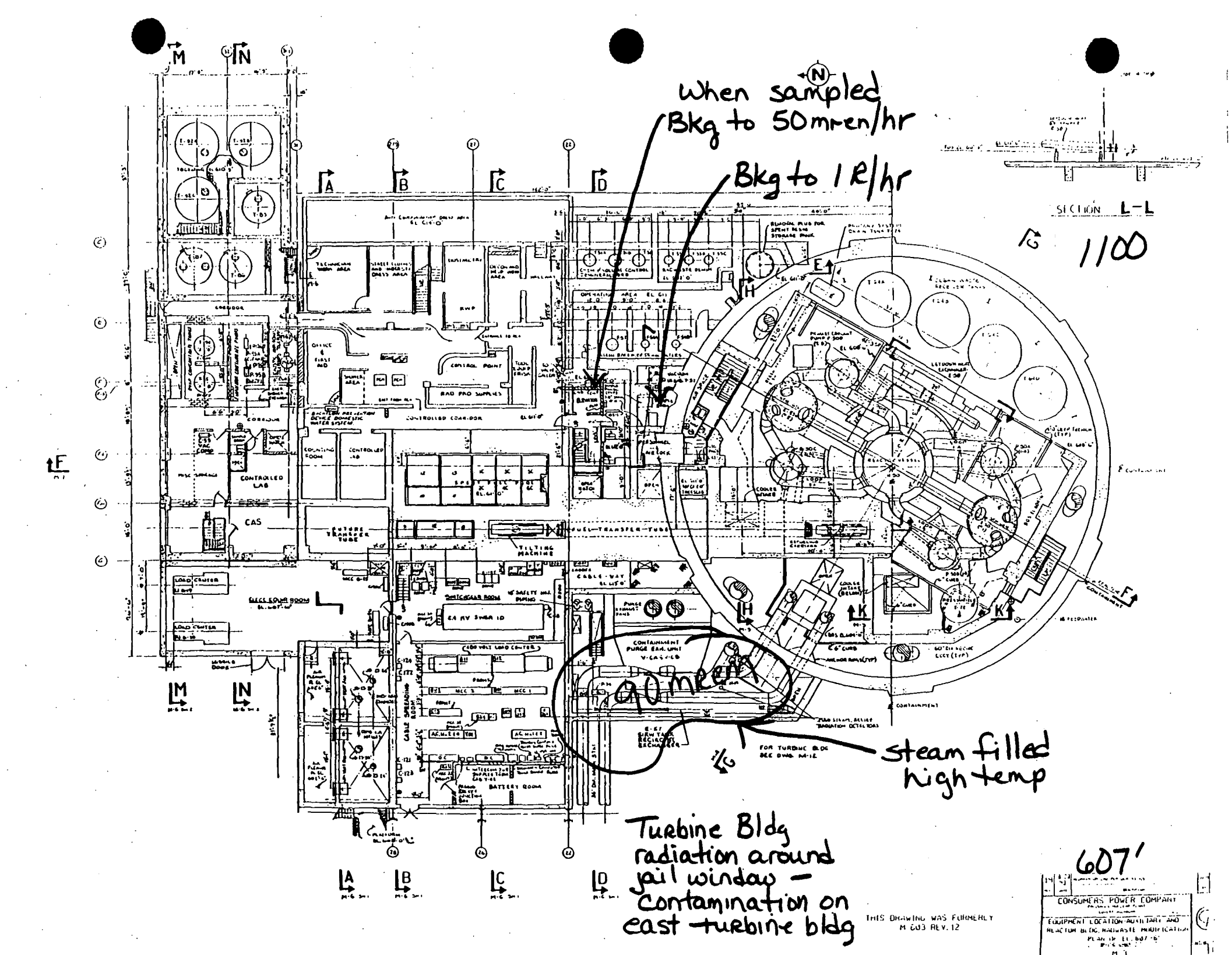
   * Use room reading ÷ 10 in plume

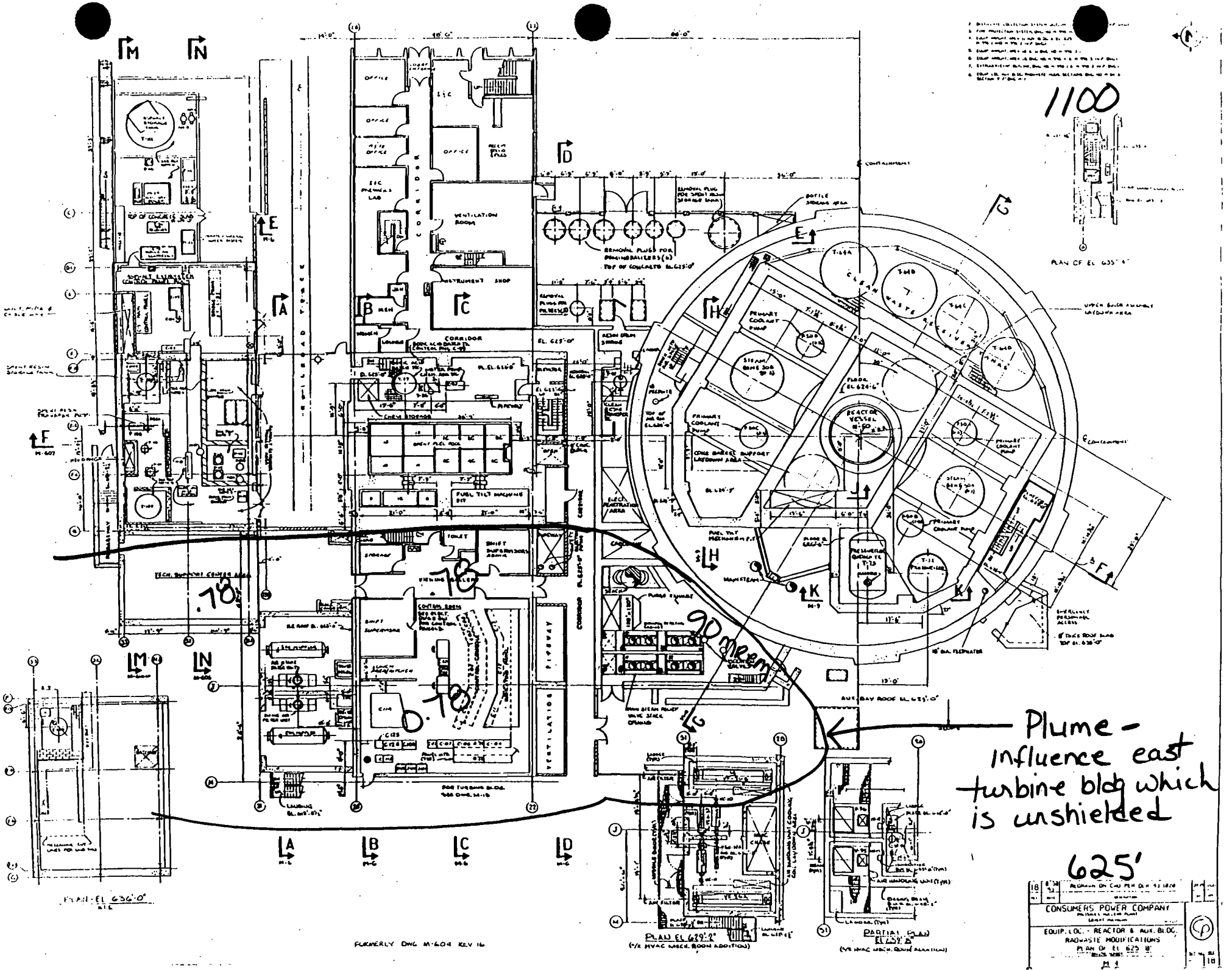
6. Return survey to Shift Supervisor.

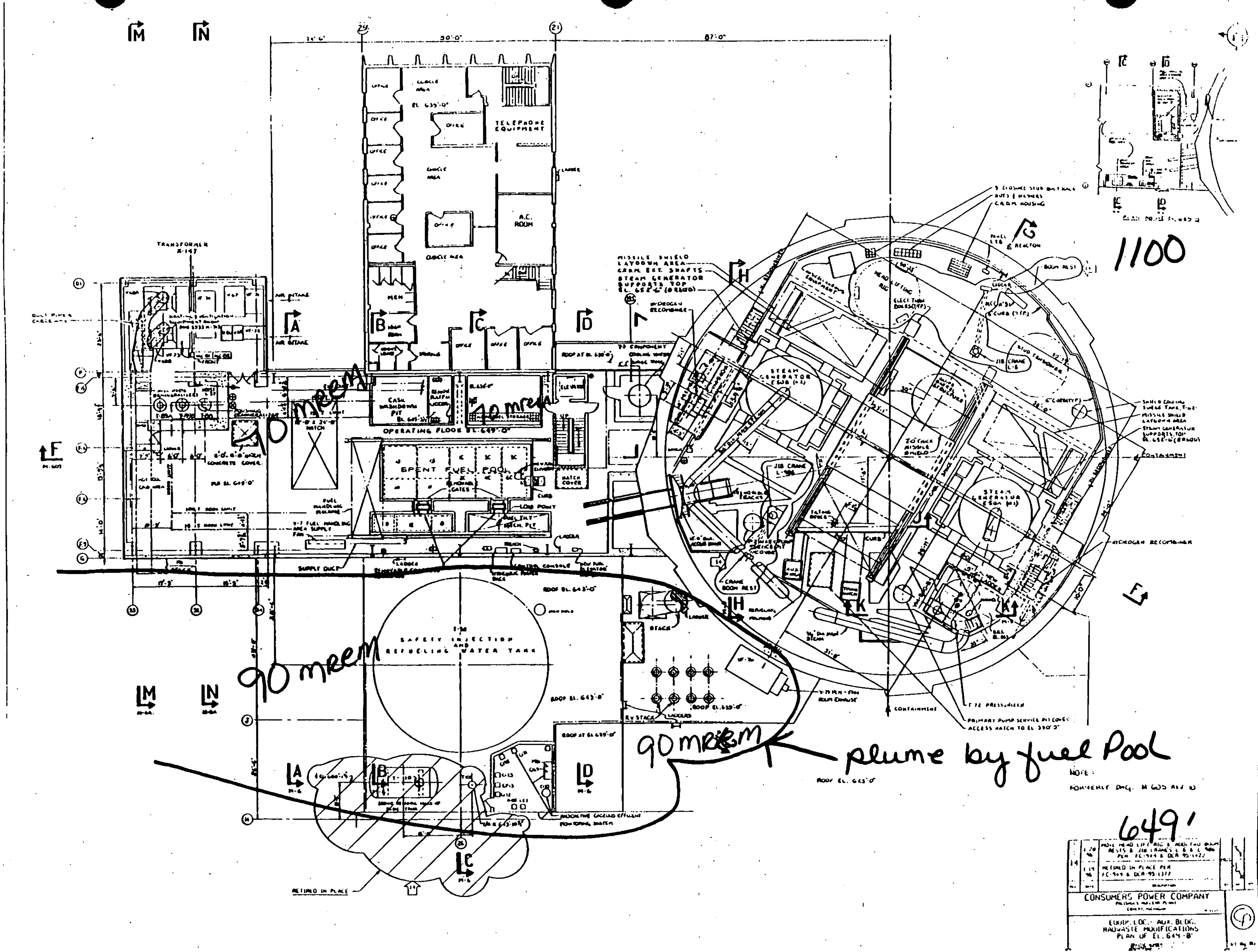
Completed By: _____

Reviewed By: _____ (SS)


1100
590 mrem
steam filled contamination around jail window & equip
radiation high around jail window
590'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX BLDG.
RADWASTE MODIFICATIONS
PLAN @ EL. 590'-8"
M-2
CORRIDOR
CHARGING PUMPS
CONTAINMENT
REACTOR
CHECKER PLATE
NOTES:


When sampled
Bkg to 50 mrem/hr
Bkg to 1 R/hr
SECTION L-L
1100
90 mrem
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION AUXILIARY AND
REACTOR BLDG. RADWASTE MODIFICATION
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1100
PLAN OF EL 635'-6"
CLEAN
WASTE
RECEIVE
TANK
REACTOR VESSEL
PRIMARY COOLANT PUMP
CORE BARREL SUPPORT LAYDOWN AREA
FUEL TILT MACHINE PIT
SPENT FUEL POOL
CONTROL ROOM
INSTRUMENT SHOP
VENTILATION ROOM
CORRIDOR
TURBINE BLDG.
90 mrem
10
Plume - influence east turbine bldg which is unshielded
625'
PLAN - EL 636'-0"
PLAN EL 629'-2"
PARTIAL PLAN EL 629'-2"
FORMERLY DWG M-604 REV 16
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 625'-0"
M-1



1100
90 mrem
90 mrem
90 mrem
90 mrem
plume by fuel Pool
649'
OPERATING FLOOR EL. 649'-0"
SPENT FUEL POOL
SAFETY INJECTION AND REFUELING WATER TANK
TELEPHONE EQUIPMENT
A.C. ROOM
CASK WASHDOWN PIT
STEAM GENERATOR
CONTAINMENT
HYDROGEN RECOMBINER
SUPPLY DUCT
STACK
RETIRED IN PLACE
CONSUMERS POWER COMPANY
EQUIP. LOC. - AUX. BLDG. RADWASTE MODIFICATIONS PLAN OF EL. 649'-0"

4/22/94
1115

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Steam plume Contact mRem/hr *

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: shine from jail house Contact mRem/hr ___
   use room reading direct.

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 5.5

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

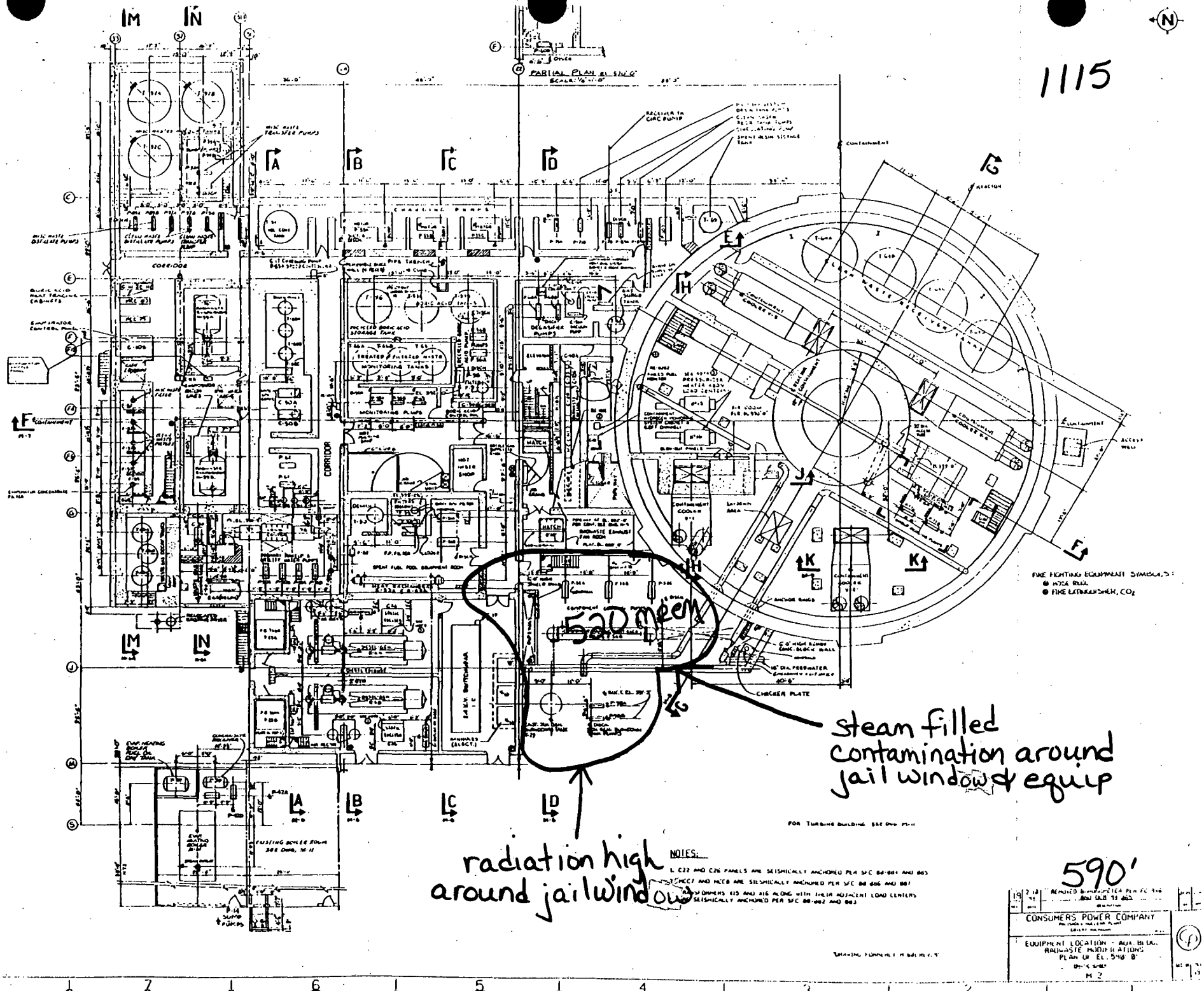
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

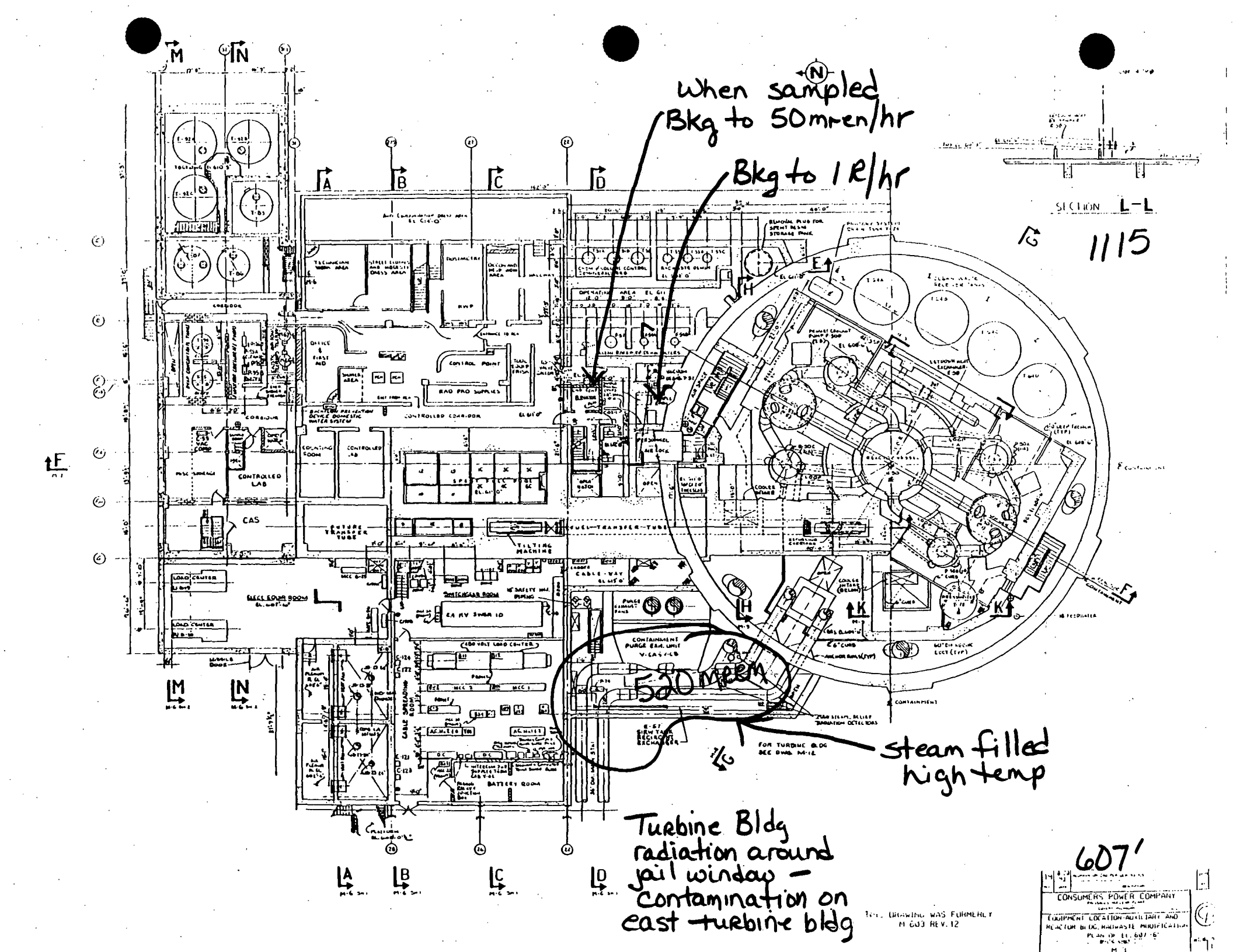
   * Use room reading ÷ 10 in plume

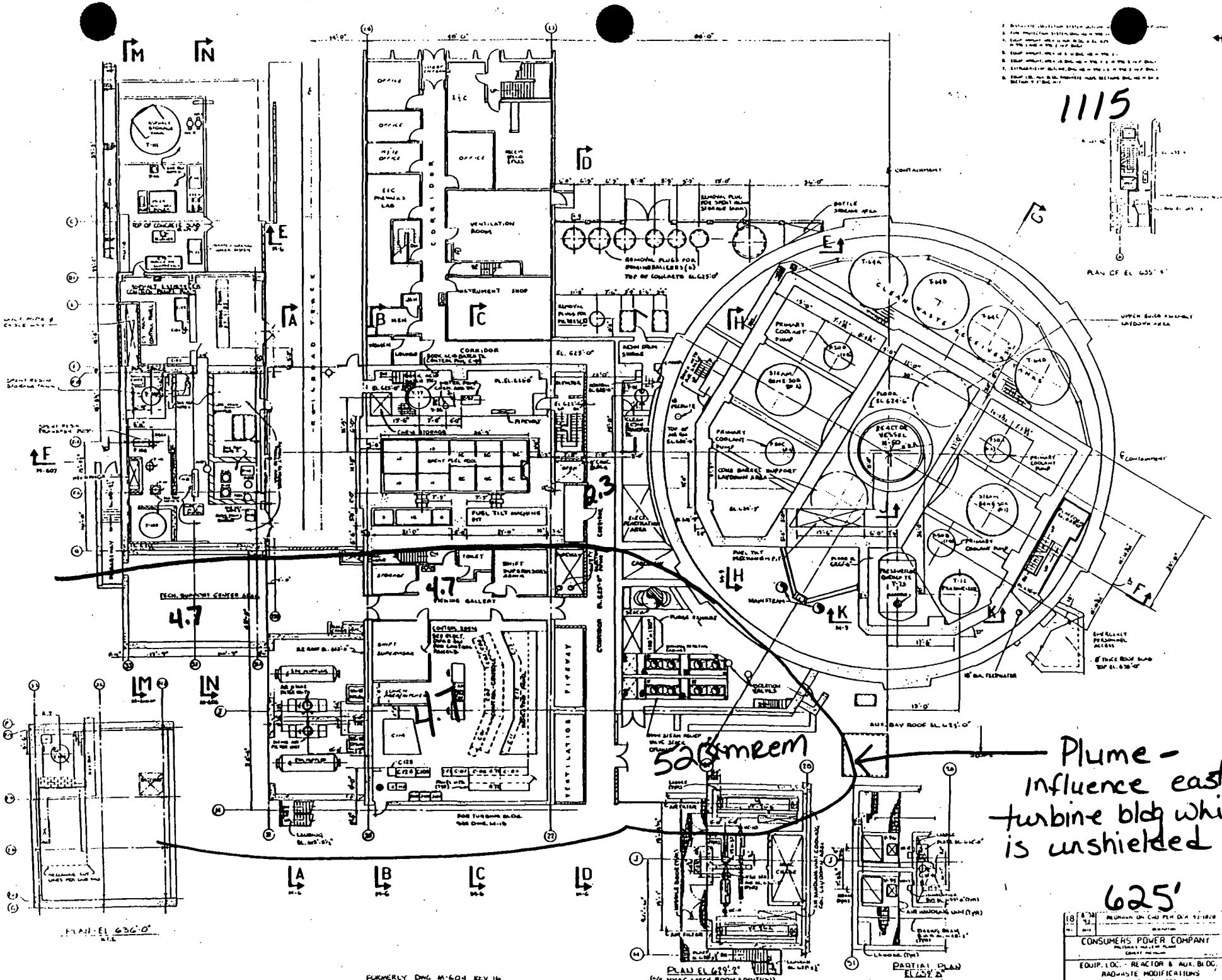
6. Return survey to Shift Supervisor.

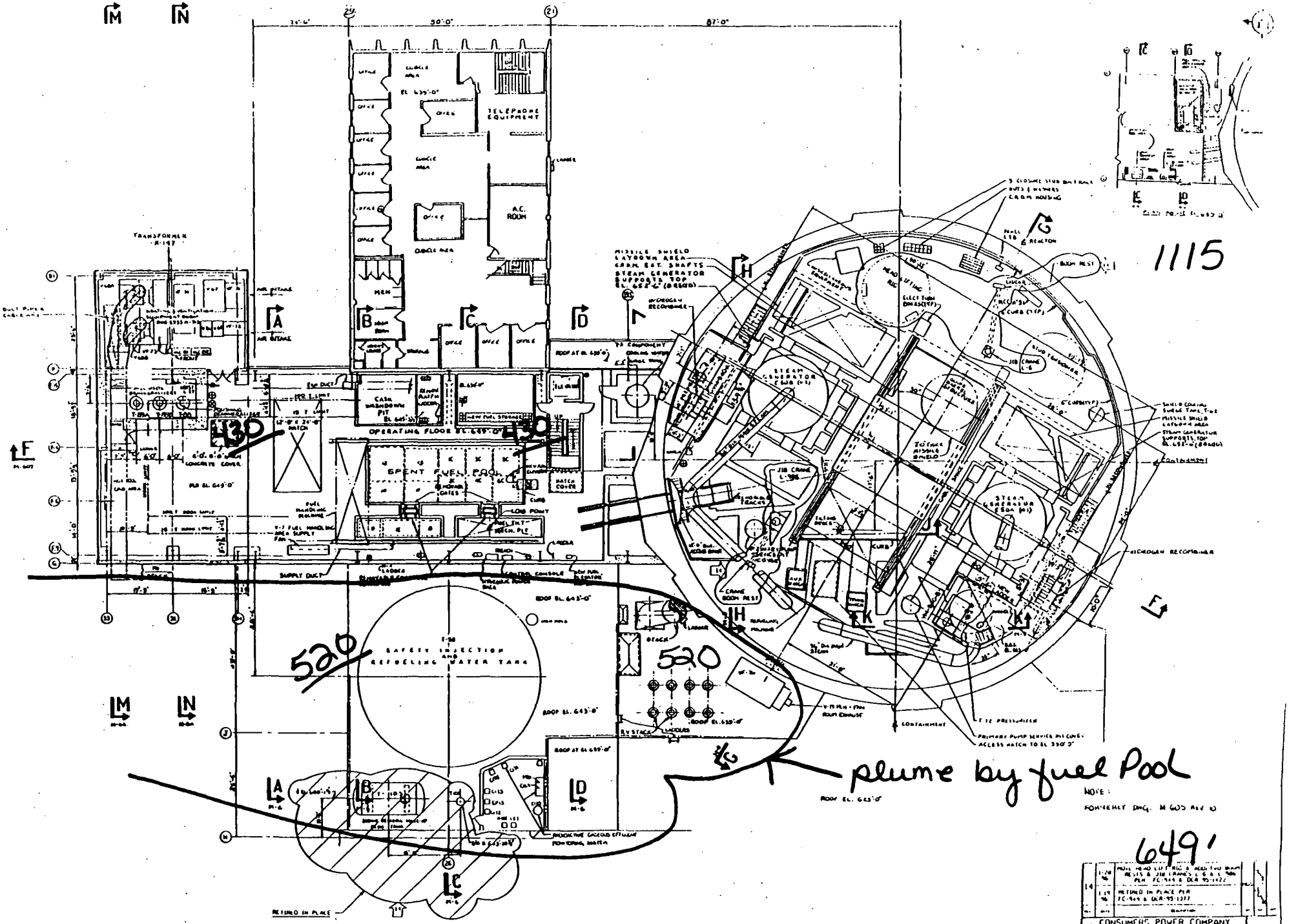
Completed By: _____

Reviewed By: _____ (SS)


1115
520 mrem
steam filled contamination around jail window & equip
radiation high around jail window
590'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 590' 8"
M-2
PARTIAL PLAN EL 590'-0"
CHARGING PUMPS
CORRIDOR
CONTAINMENT
CHECKER PLATE
NOTES:


When sampled
Bkg to 50mrem/hr
Bkg to 1R/hr
SECTION L-L
1115
520 mrem
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION AUXILIARY AND
REACTOR BLDG. HARDWASTE MODIFICATION
PLAN OF EL. 607'-6"


1115
526 mrem
Plume - influence east turbine bldg which is unshielded
625'
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG. RADWASTE MODIFICATIONS
PLAN OF EL 625 0"
PLAN EL 636'-0"
PLAN EL 629'-2"
PARTIAL PLAN EL 629' 2"
FORMERLY DWG M-604 REV 16


1115
520
520
plume by fuel Pool
649'
CONSUMERS POWER COMPANY
AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 649'-0"

12/22/96
1130

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Steam plume Contact mRem/hr *

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: shine from jail house Contact mRem/hr ___

   use room reading

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 50

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

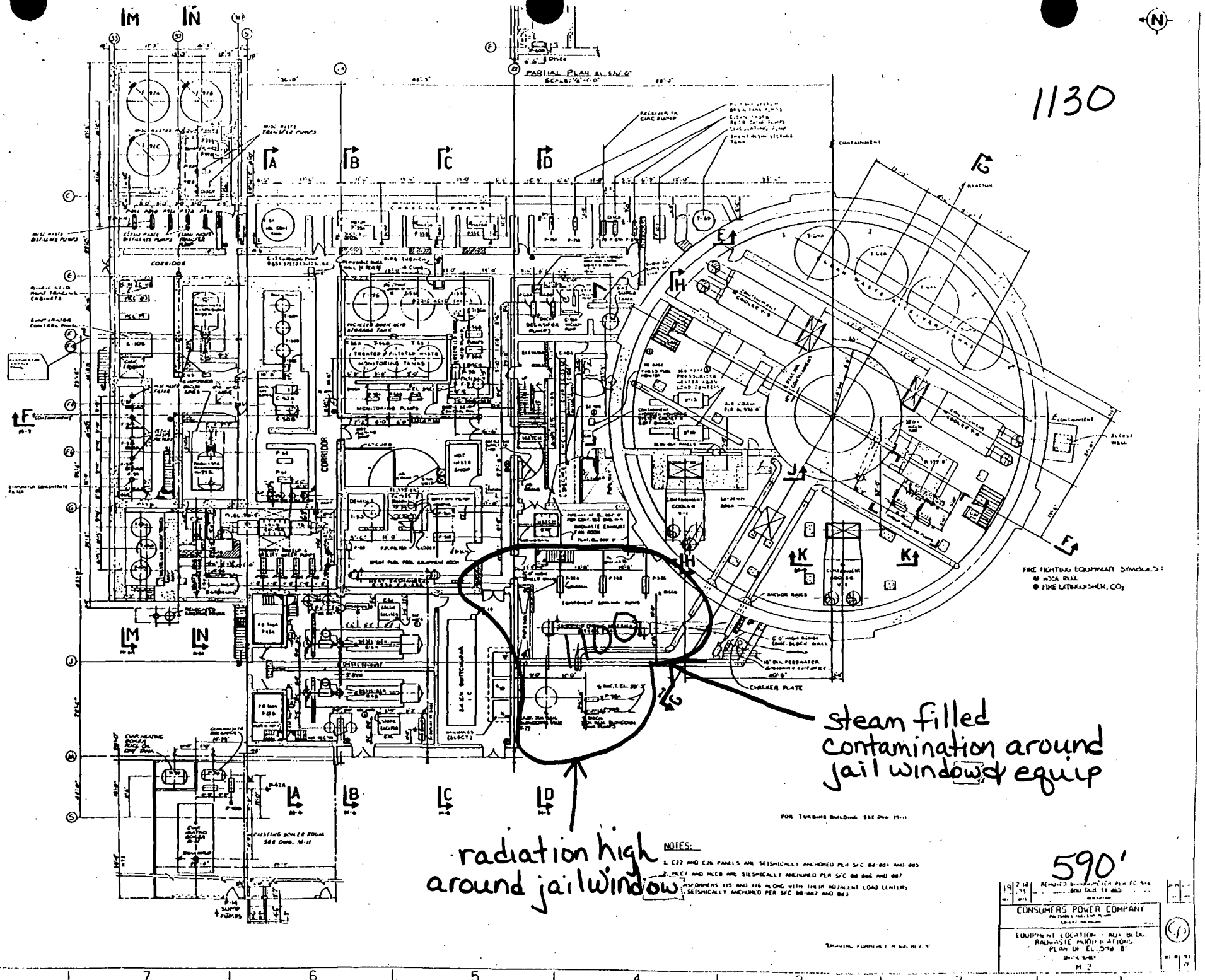
5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

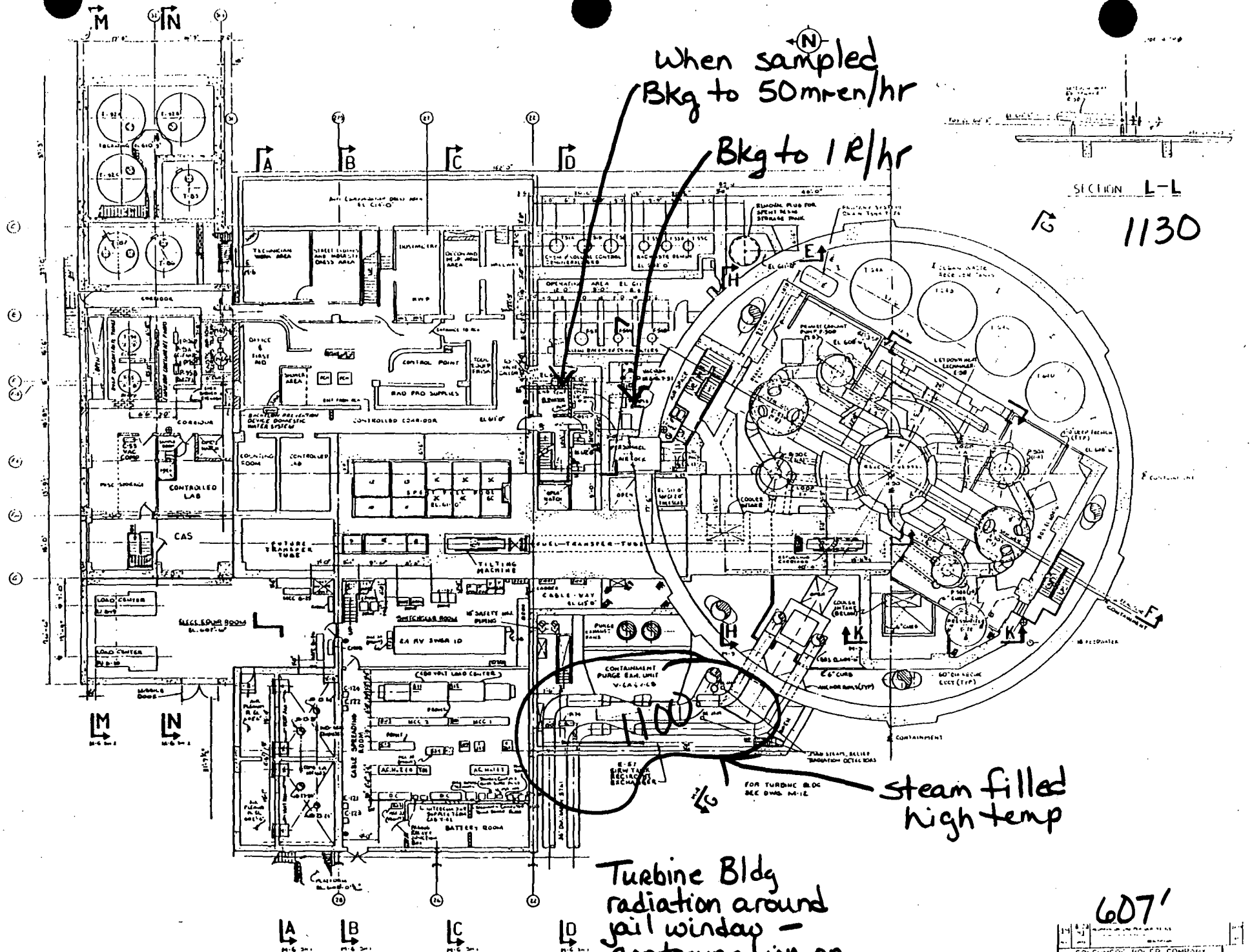
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

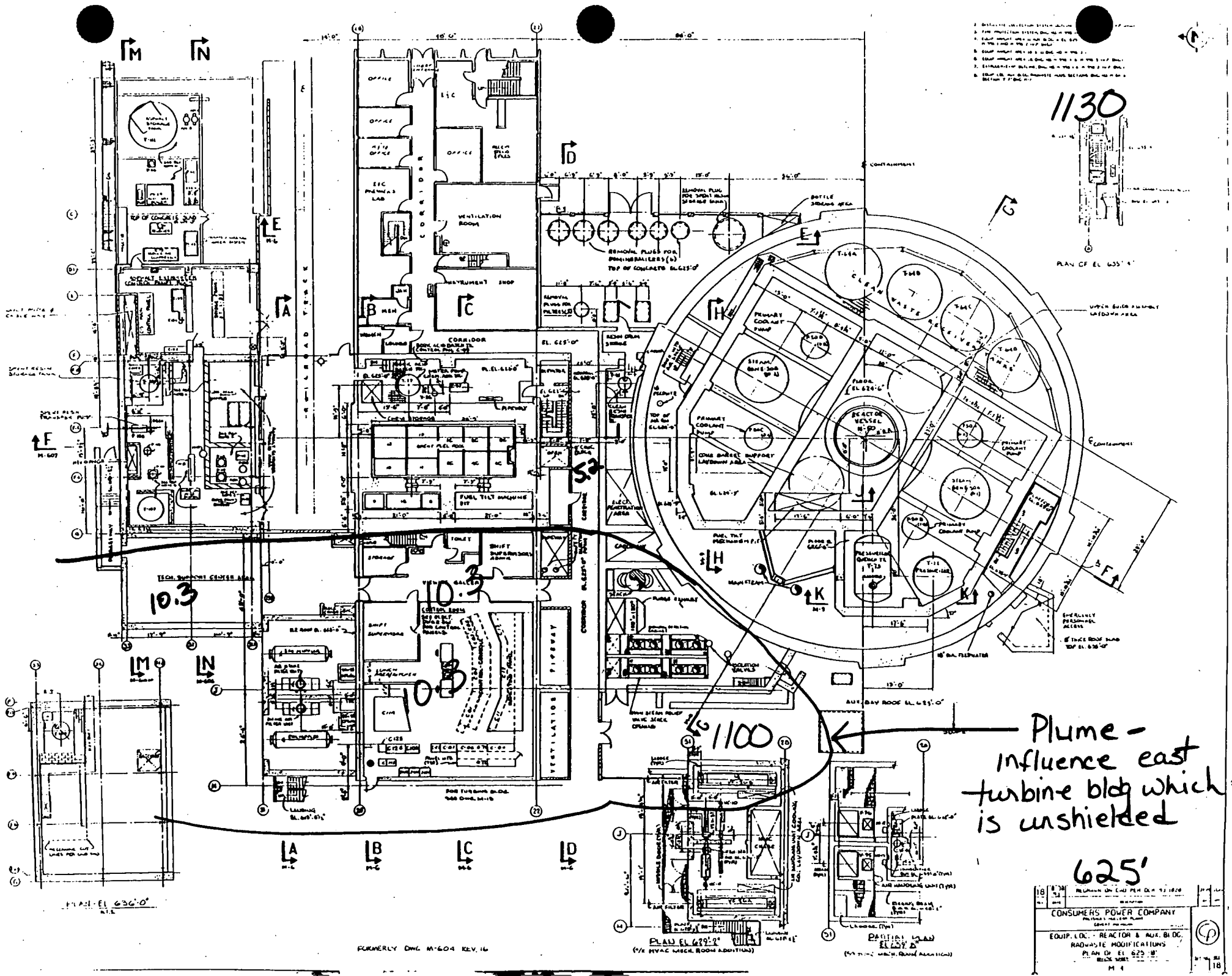
6. * Use room reading ÷ 10 in plume
   Return survey to Shift Supervisor.

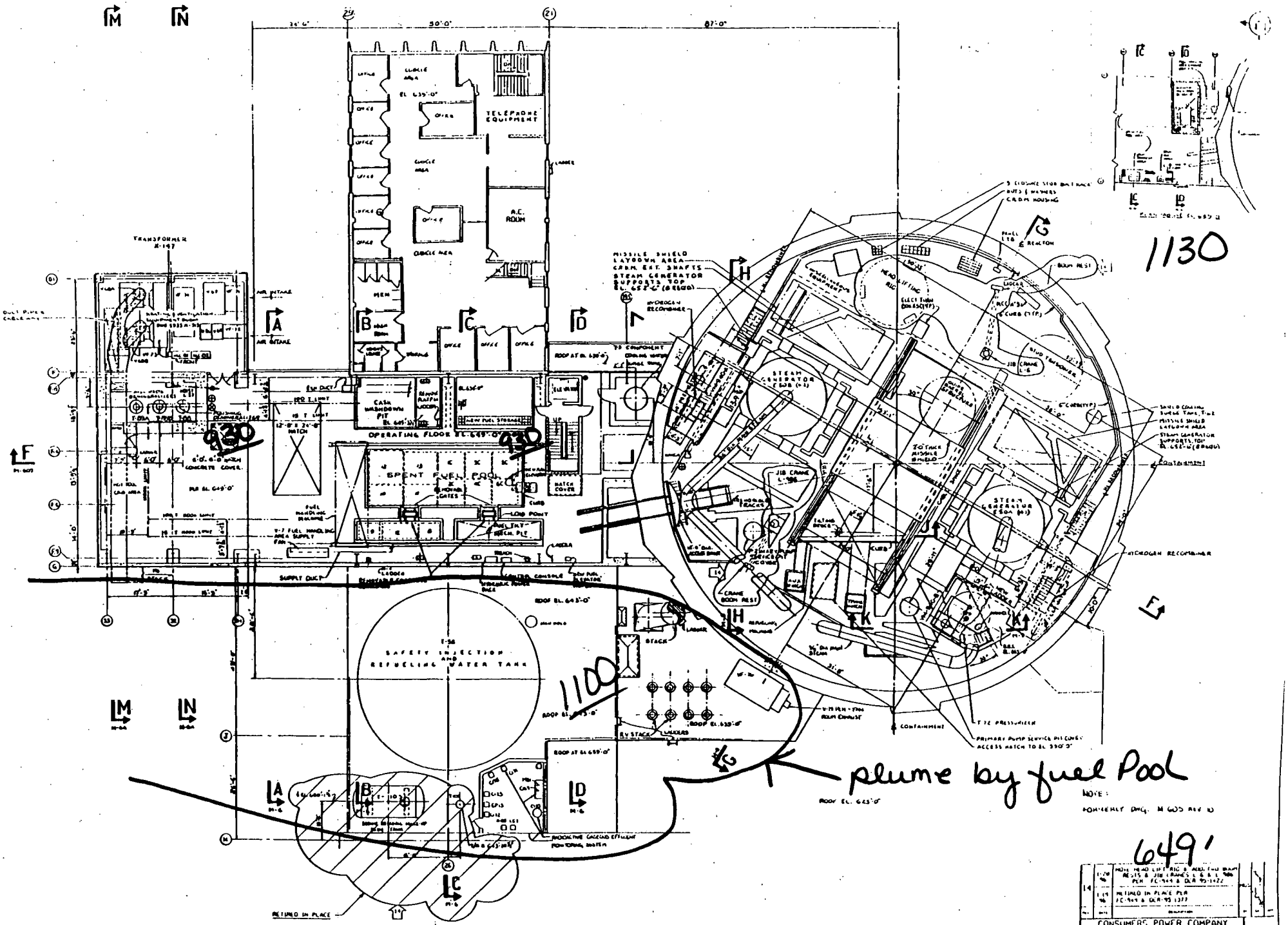
Completed By: _____

Reviewed By: _____ (SS)


1130
590'
steam filled contamination around jail window & equip
radiation high around jail window
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 590' 8"
M-2


When sampled
Bkg to 50mrem/hr
Bkg to 1R/hr
SECTION L-L
1130
steam filled
high temp
100
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION-AUXILIARY AND
REACTOR BLDG. RADWASTE MODIFICATION
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1130
10.3
10.3
0.3
1100
Plume - influence east turbine bldg which is unshielded
625'
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 625'-0"
PLAN EL 636'-0"
PLAN EL 629'-2"
PARTIAL PLAN EL 651'-8"
FORMERLY DWG M-604 REV. 16


TELEPHONE EQUIPMENT
A.C. ROOM
TRANSFORMER X-147
SPENT FUEL POOL
SAFETY INJECTION AND REFUELING WATER TANK
1130
1100
930
930
plume by fuel Pool
649'
RETURNED IN PLACE
CONSUMERS POWER COMPANY
EQUIP. LOC.: AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 649'-8"

10/22/96
1145

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr * steam plume

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr ___ shine from jail house

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors. use room reading

4. Off gas line: Contact mRem/hr 45

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

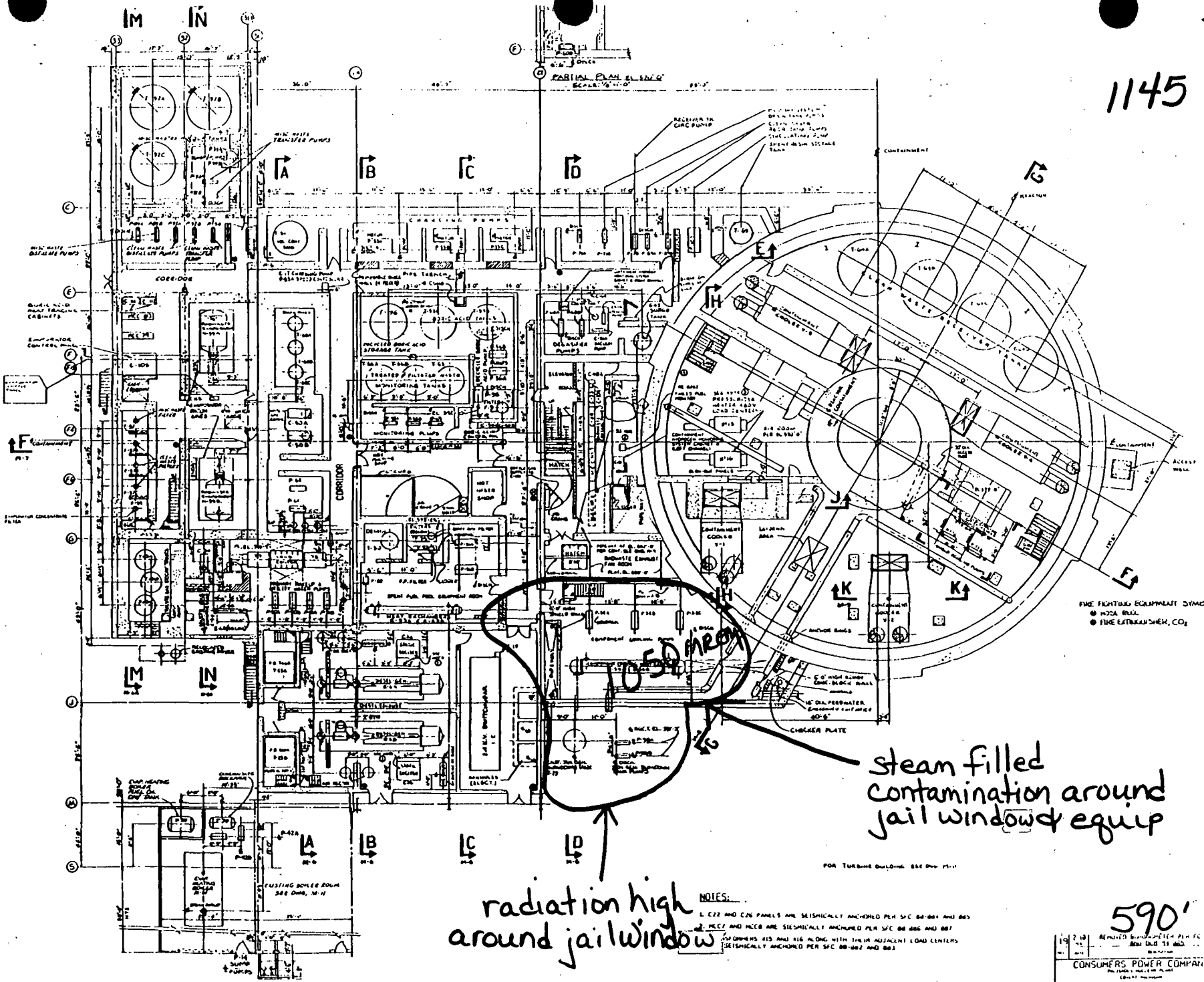
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

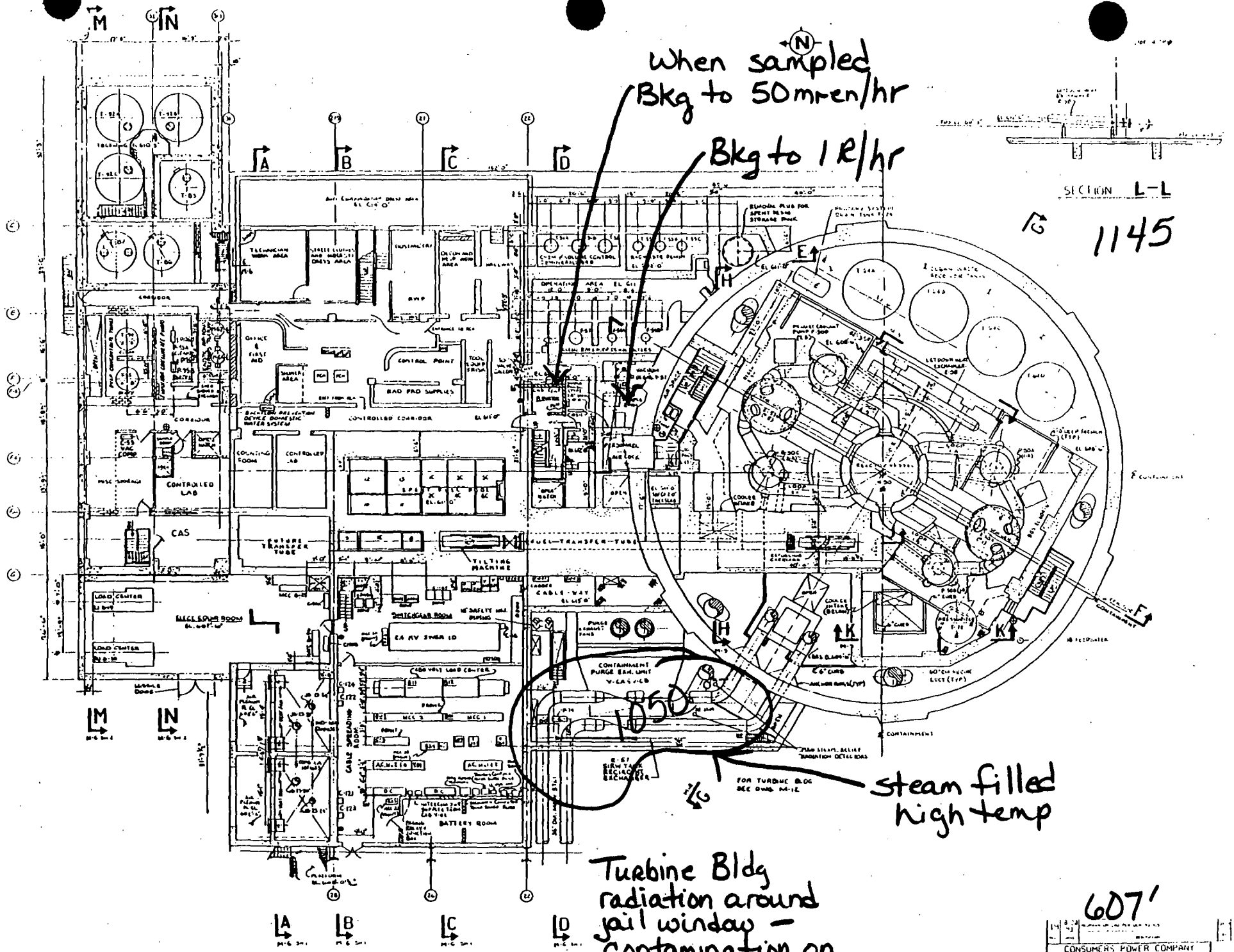
   * Use room reading ÷ 10 in plume

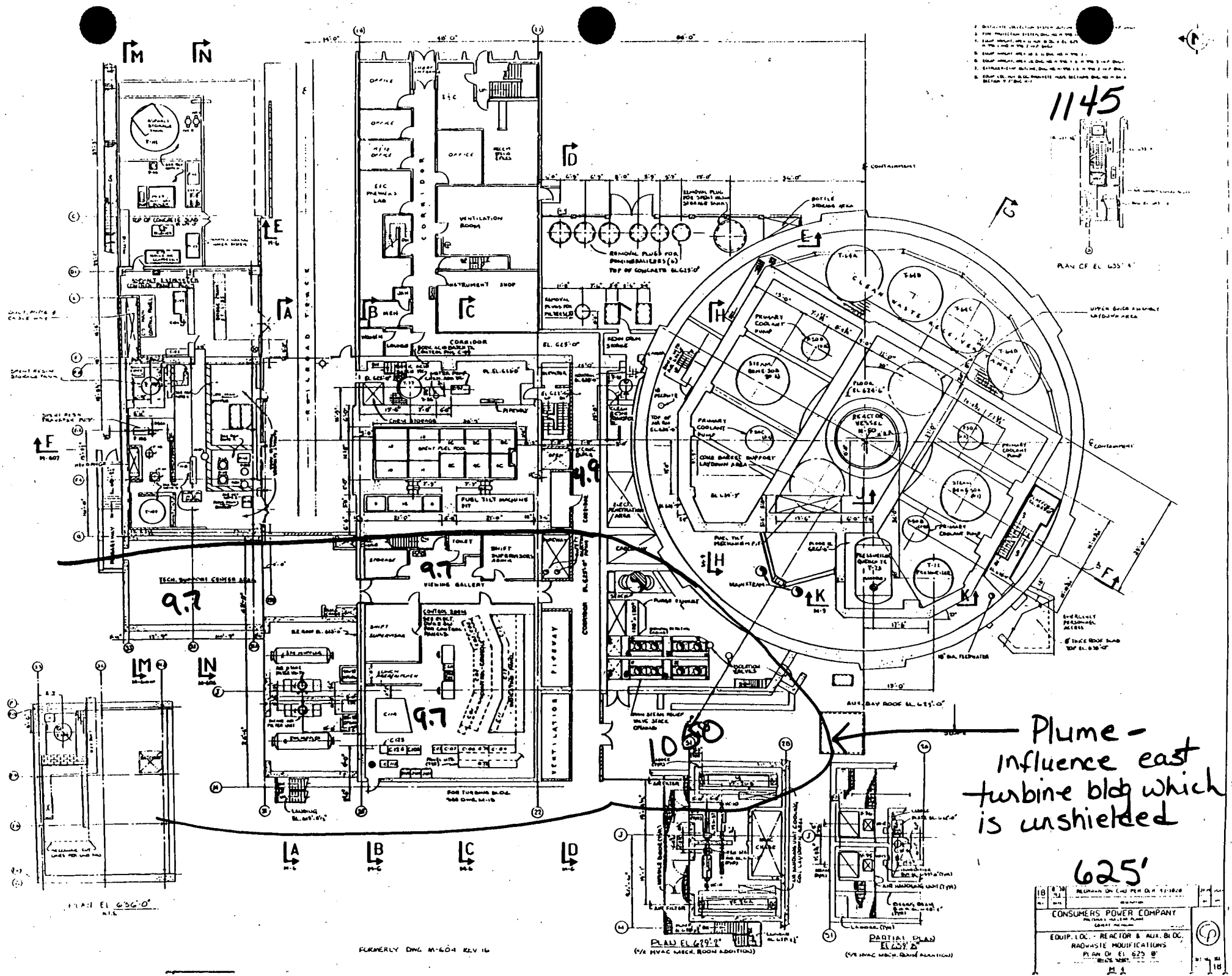
6. Return survey to Shift Supervisor.

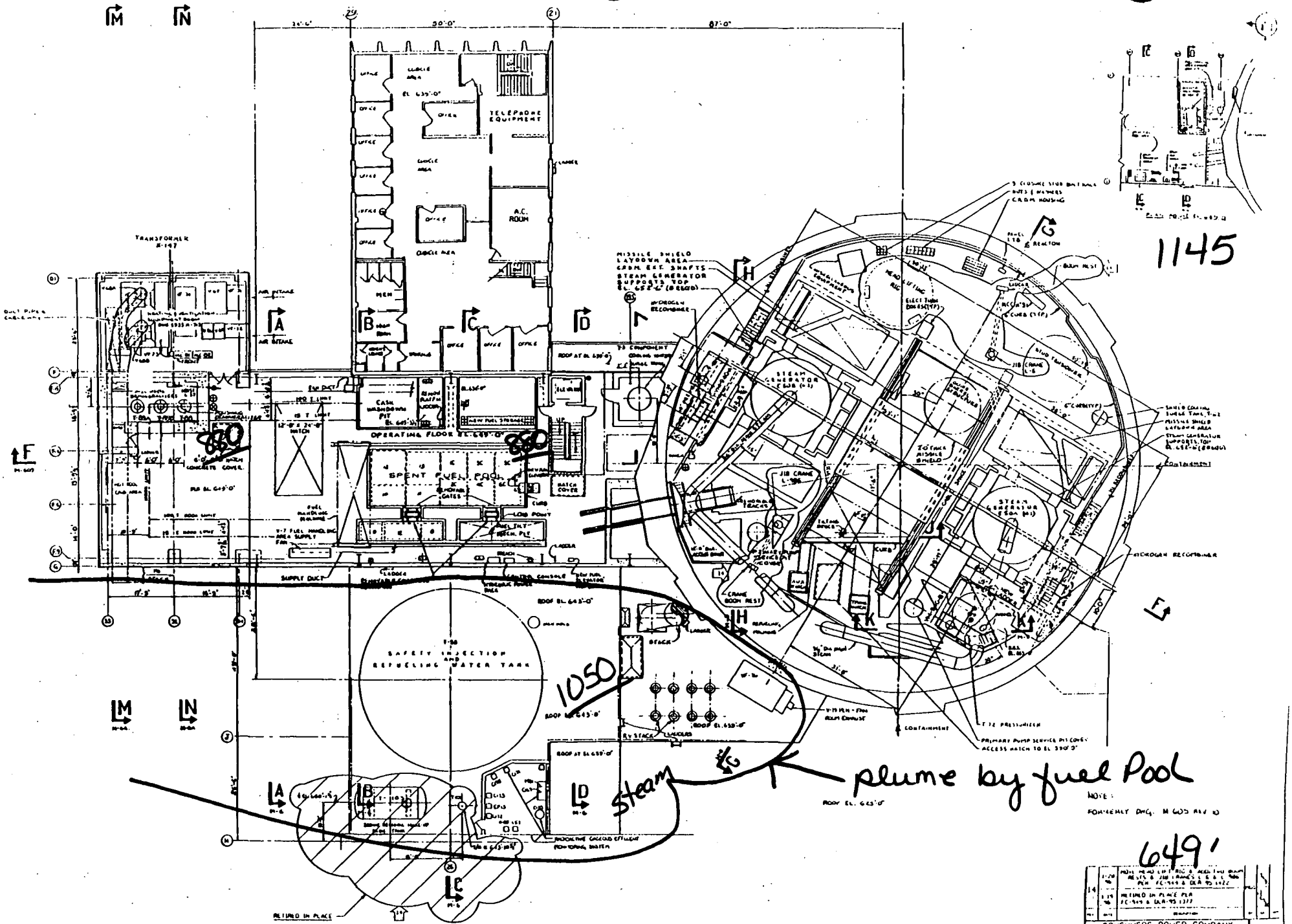
Completed By: _____

Reviewed By: _____ (SS)


1145
1050 mrem
steam filled contamination around jail window & equip
radiation high around jail window
590'
NOTES:
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX. BLDG. RADWASTE MODIFICATIONS PLAN OF EL. 590' 0"
M-2


When sampled
Bkg to 50 mrem/hr
Bkg to 1 R/hr
SECTION L-L
1145
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION AUXILIARY AND
REACTOR BLDG. RADWASTE MODIFICATION
PLAN OF EL. 607'-0"
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1145
9.7
9.7
9.7
4.9
10.50
Plume - influence east turbine bldg which is unshielded
625'
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 625'-0"
PLAN EL 636'-0"
PLAN EL 625'-2"
PARTIAL PLAN EL 625'-0"
FORMERLY DWG M-604 REV 16


1145
1050
steam
plume by fuel Pool
649'
CONSUMERS POWER COMPANY
EMERG. LOC. - AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 649'-8"

1200
9/22/96

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr * (steam plume)

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr ___ (shine from jail house)

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors. (use room reading)

4. Off gas line: Contact mRem/hr 4.0

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

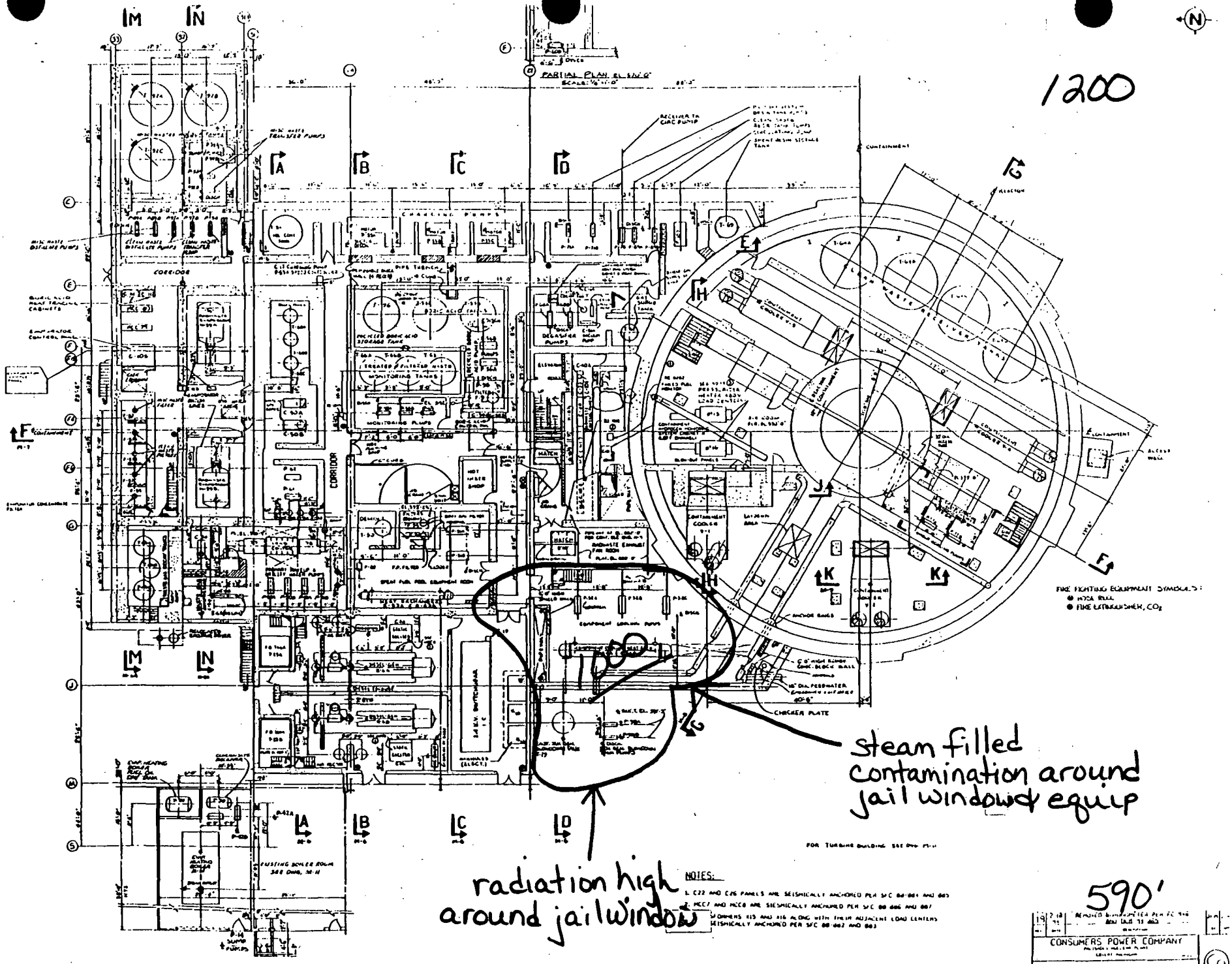
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

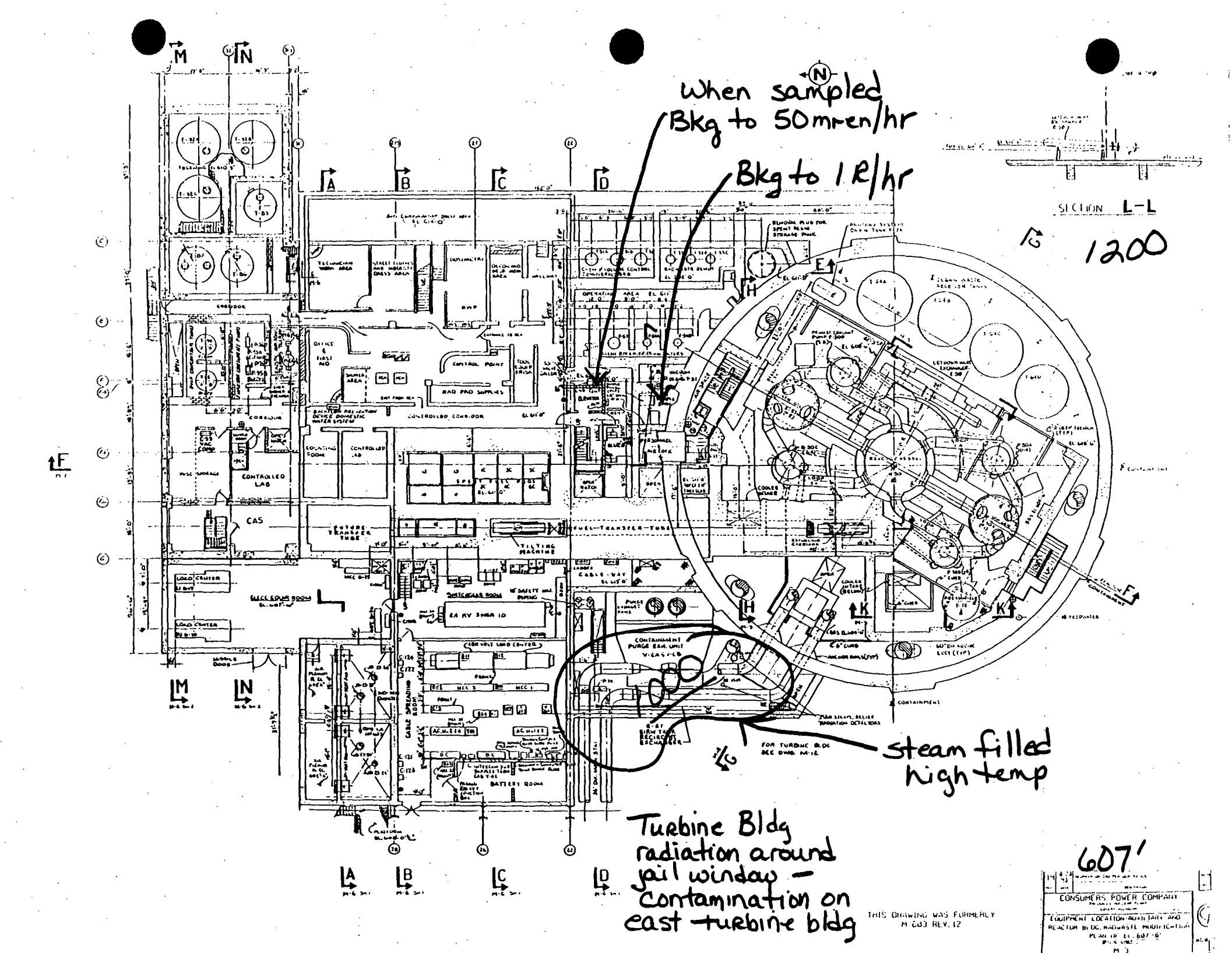
   * Use room reading ÷ 10 in plume

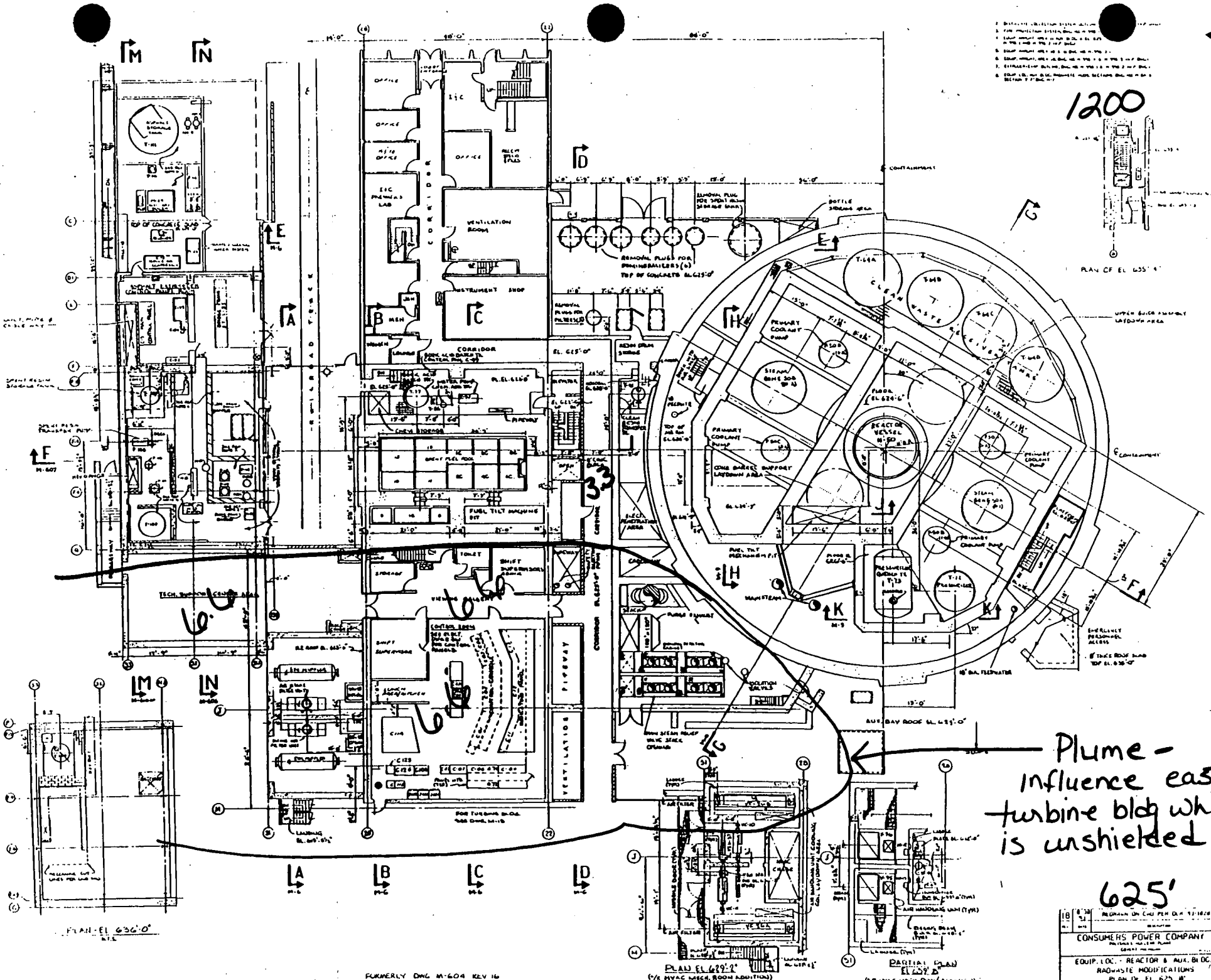
6. Return survey to Shift Supervisor.

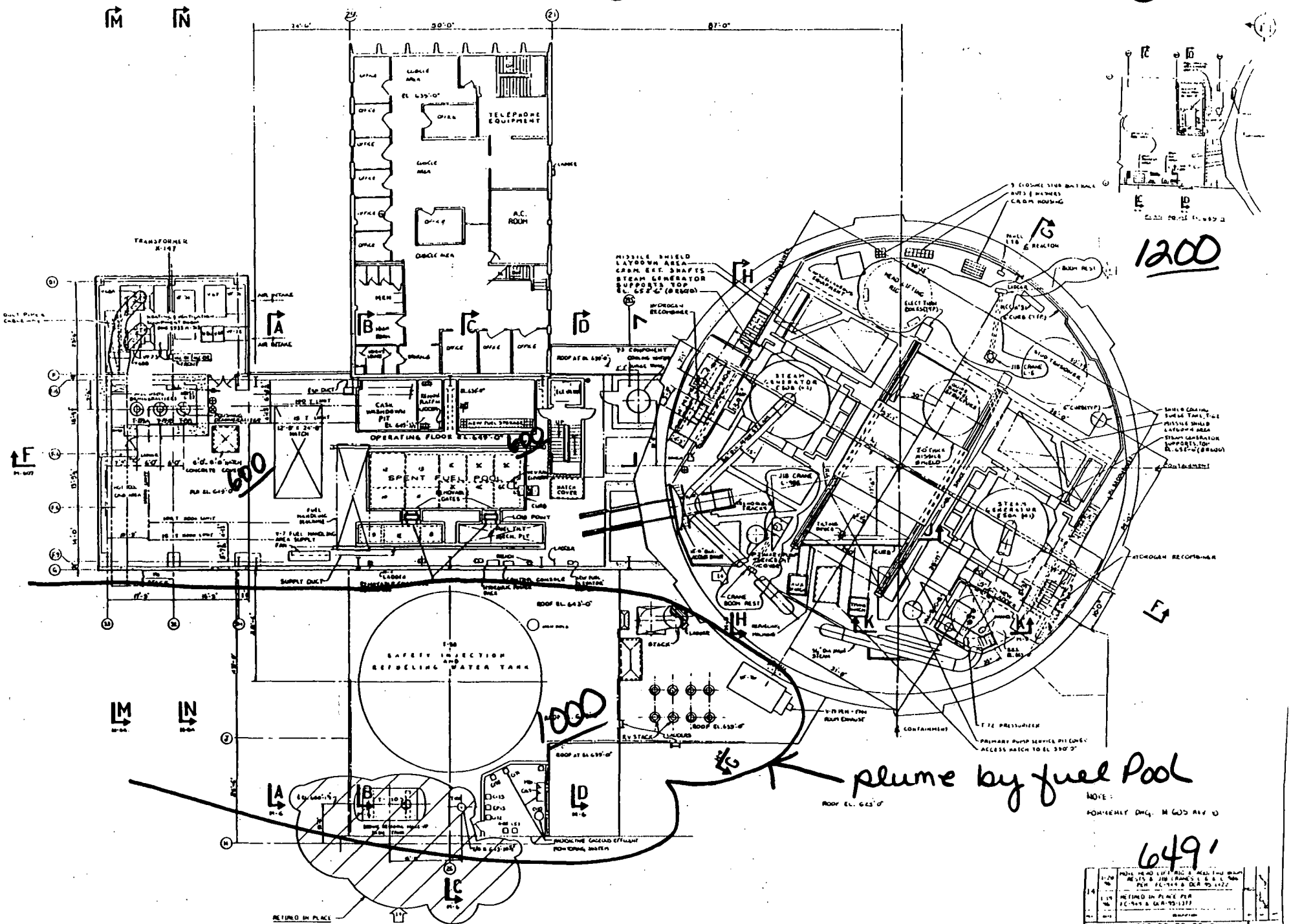
Completed By: _____

Reviewed By: _____ (SS)


1200
1700
steam filled contamination around jail window & equip
radiation high around jail window
590'
PARTIAL PLAN EL. 590'-0"
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 590'-0"
M-2
NOTES:


When sampled
Bkg to 50 mrem/hr
Bkg to 1 R/hr
SECTION L-L
1200
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION AUXILIARY AND
REACTOR BLDG. RADWASTE MODIFICATION
PLAN OF EL. 607'-6"
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1200
PLAN OF EL 655'-0"
625'
Plume - influence east turbine bldg which is unshielded
PLAN-EL 636'-0"
PLAN EL 629'-0"
PARTIAL PLAN EL 629'-0"
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG. RADWASTE MODIFICATIONS
PLAN OF EL 629'-0"
FORMERLY DWG M-604 REV 16



NOTE:
FORMERLY DWG. M 605 REV 0

CONSUMERS POWER COMPANY

EQUIP. LOC.: AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 649'-0"

10/22/96
1215

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr * steam plume

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating.

3. Flash Tank T-29A: Contact mRem/hr ___ shine from jail house use room reading

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 3.8

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

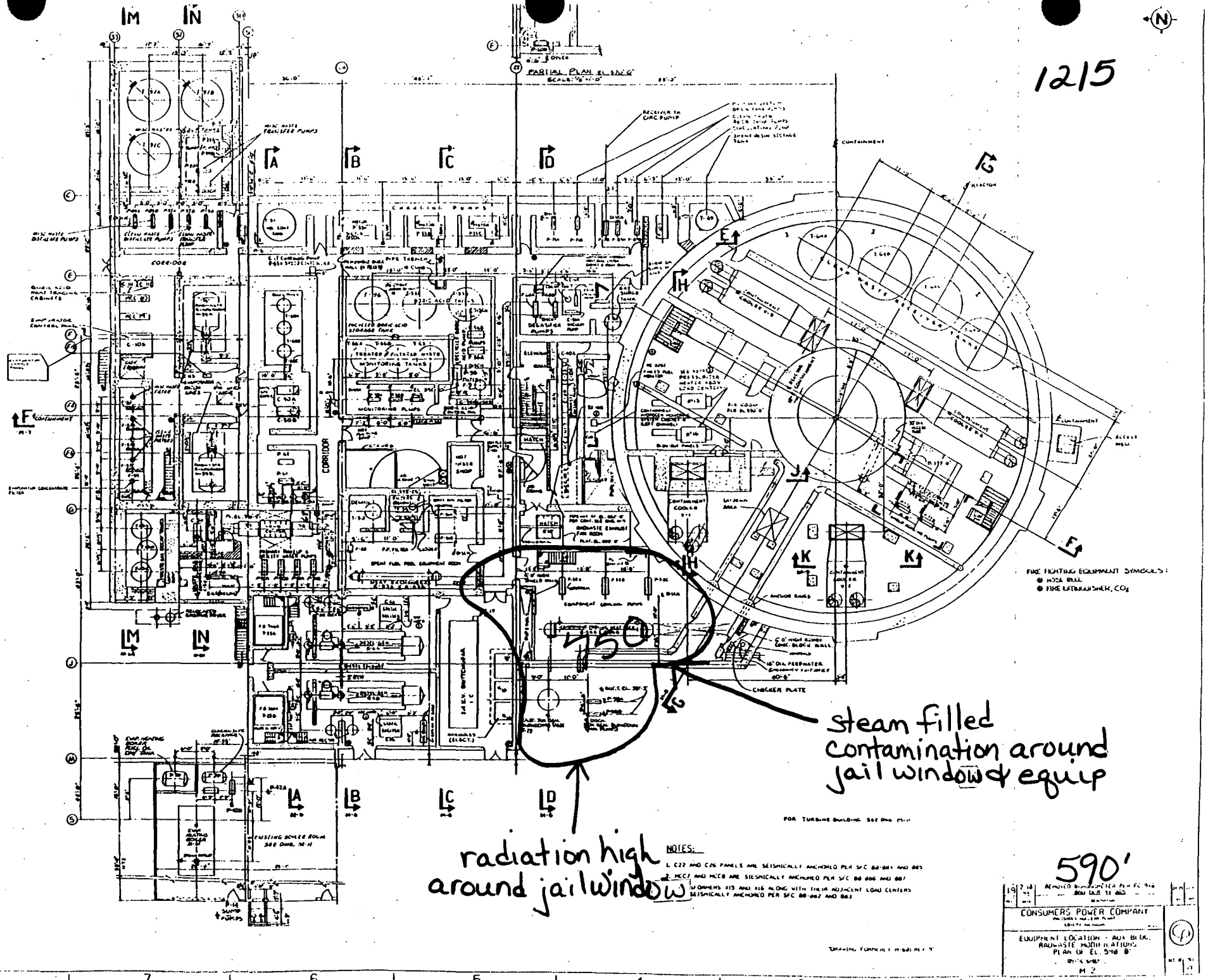
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

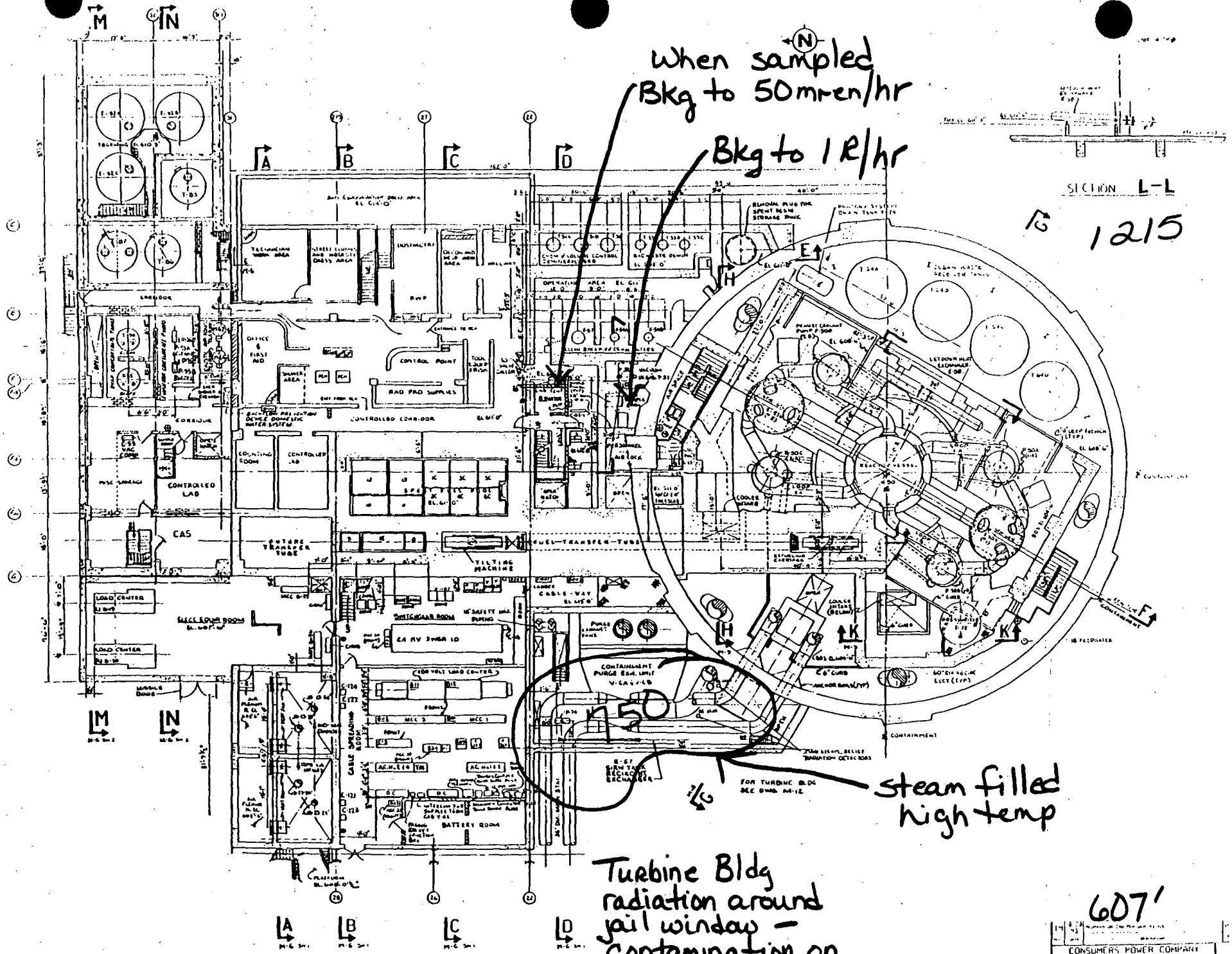
   * Use room reading ÷ 10 in plume

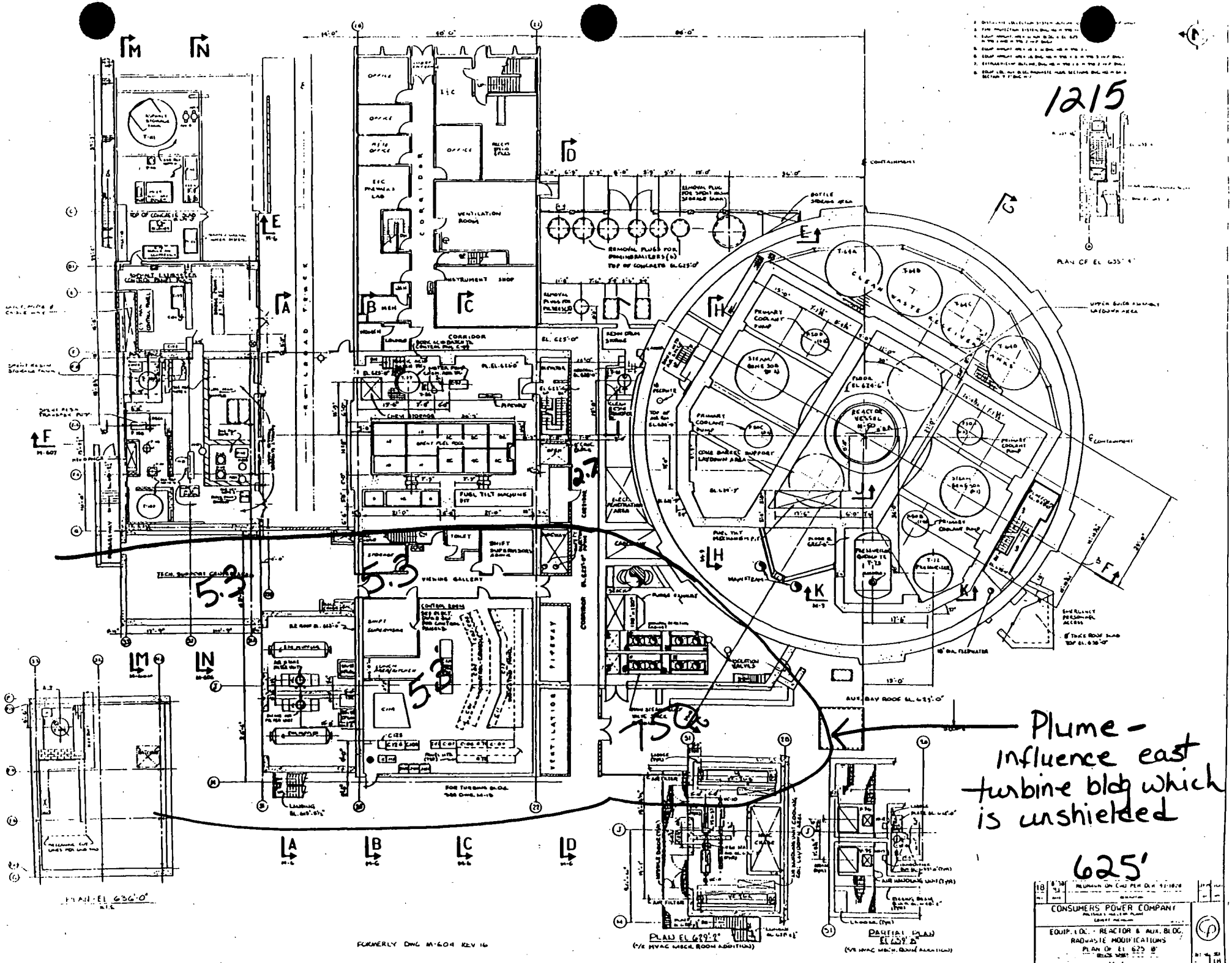
6. Return survey to Shift Supervisor.

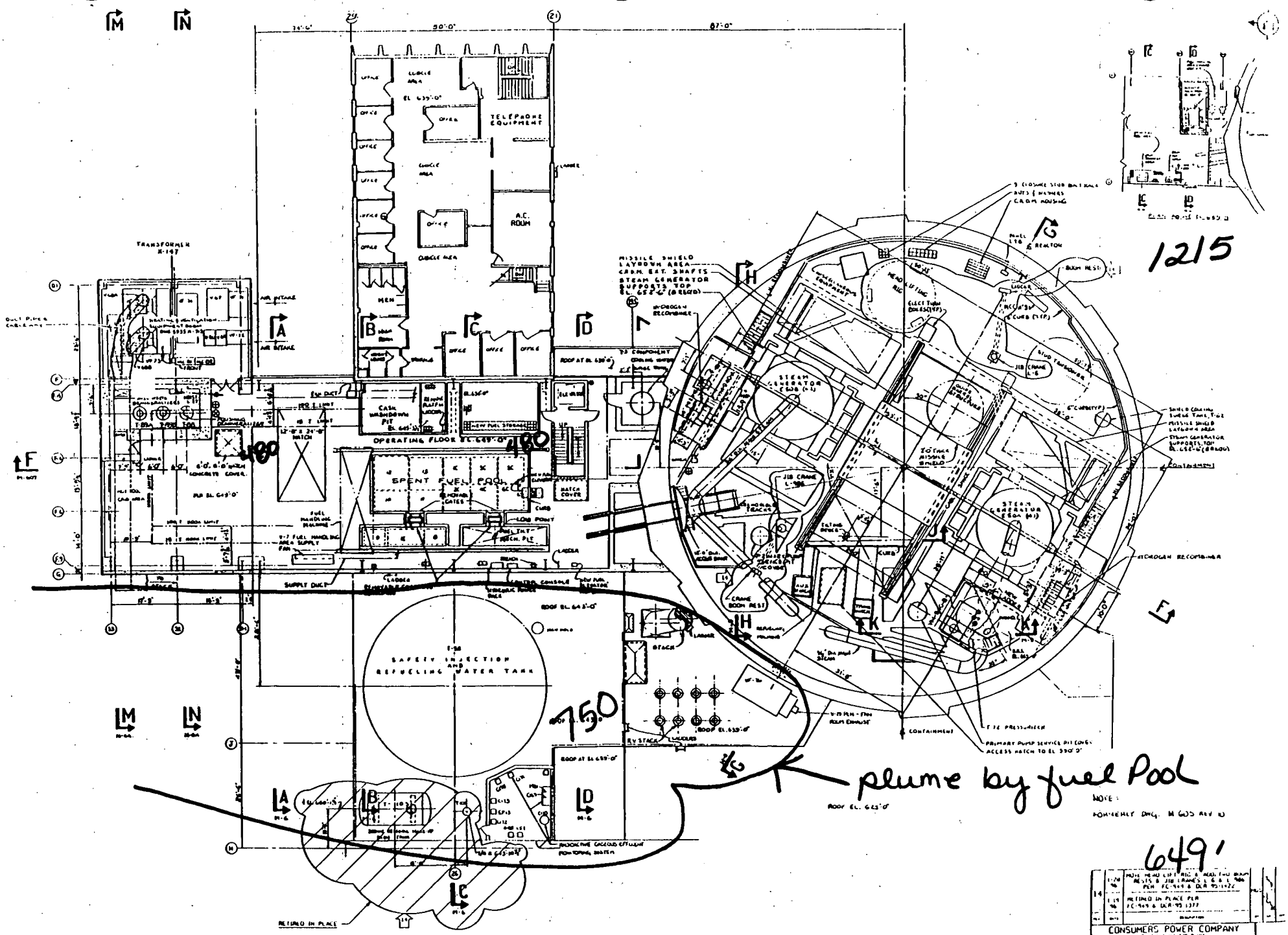
Completed By: _____

Reviewed By: _____ (SS)


1215
PARTIAL PLAN EL 590'-0"
CONTAINMENT
CORRIDOR
FUEL HANDLING BUILDING
CRANE RAIL
CHECKER PLATE
750'
steam filled
contamination around
jail window & equip
radiation high
around jail window
590'
NOTES:
FOR TURBINE BUILDING SEE DWG M-11
FIRE FIGHTING EQUIPMENT SYMBOLS:
HOSE REEL
FIRE EXTINGUISHER, CO2
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 590'-0"
M-2


When sampled
Bkg to 50 mren/hr
Bkg to 1 R/hr
SECTION L-L
1215
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION AUXILIARY AND
REACTOR BLDG. RADWASTE MODIFICATION
PLAN OF EL. 607'-6"
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1215
5.3
5.3
5.3
150
Plume - influence east turbine bldg which is unshielded
625'
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 625'-0"
PLAN EL 636'-0"
PLAN EL 679'-2"
PARTIAL PLAN EL 639'-2"
FORMERLY DWG M-604 REV 16



CONSUMERS POWER COMPANY

EQUIP. LOC.: AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 649'-0"

10/22/96
1230

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) steam plume Contact mRem/hr *

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: shine from jail house Contact mRem/hr ___

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" use room reading doors.

4. Off gas line: Contact mRem/hr 3.6

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

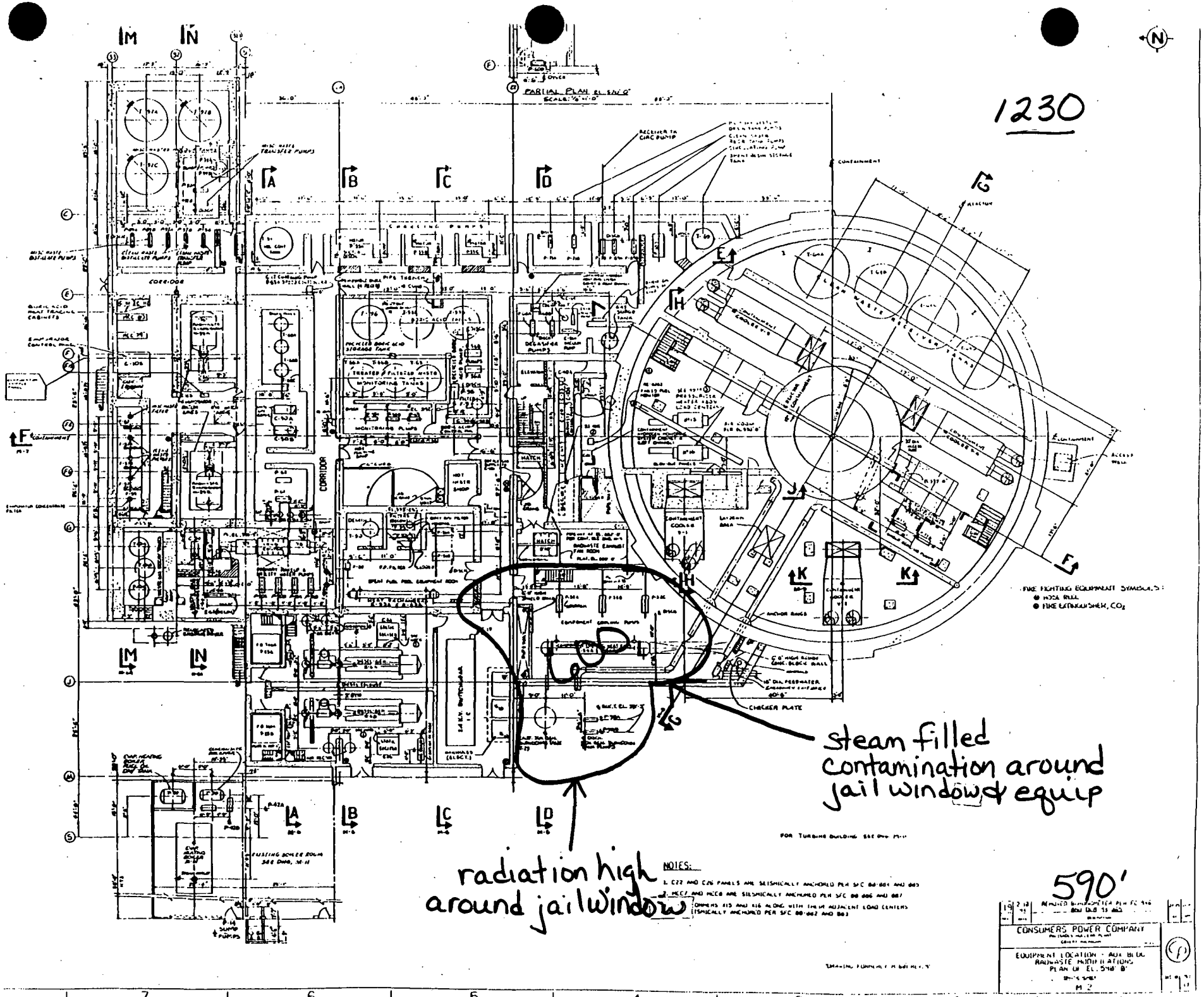
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

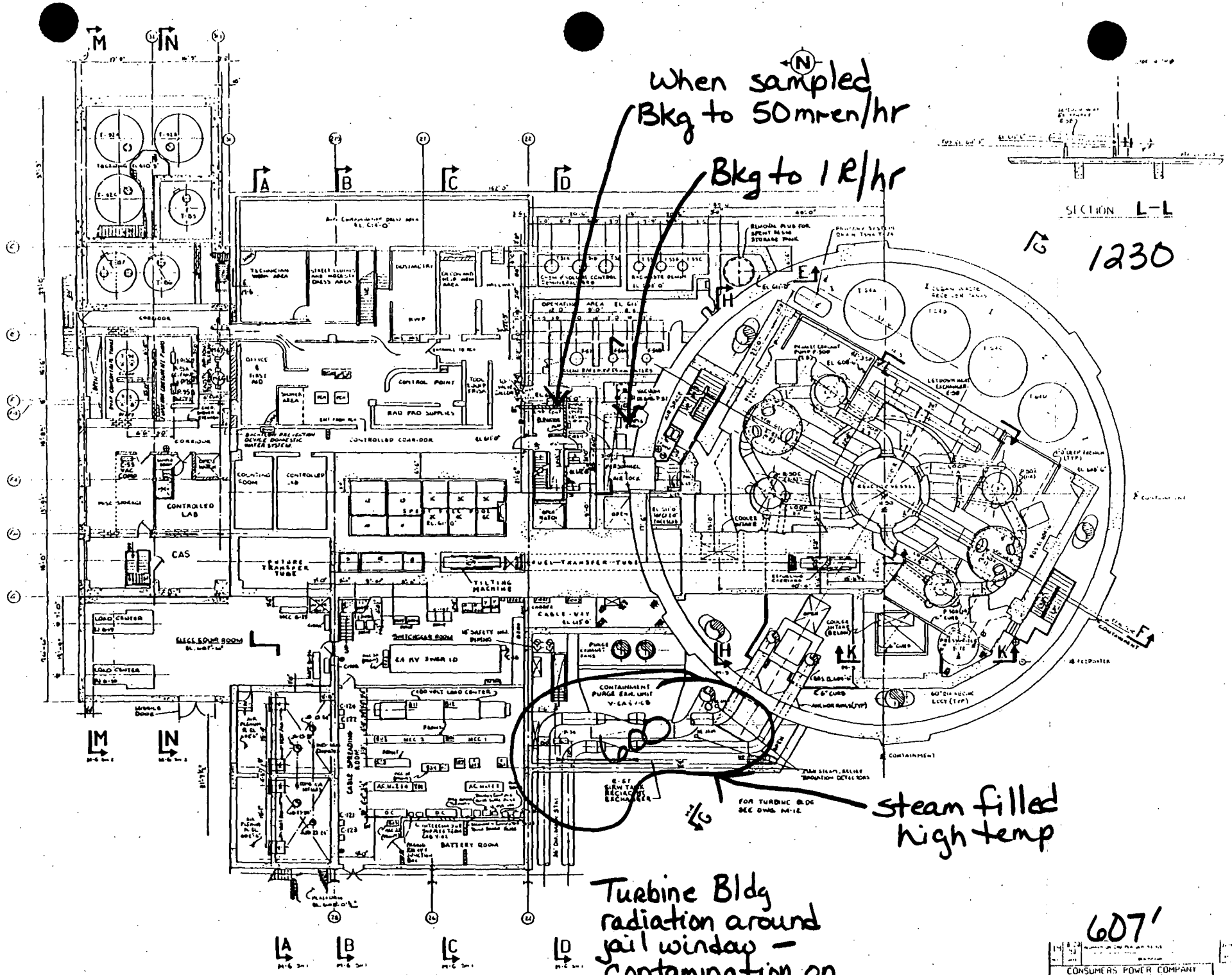
   * Use room reading ÷ 10 in plume

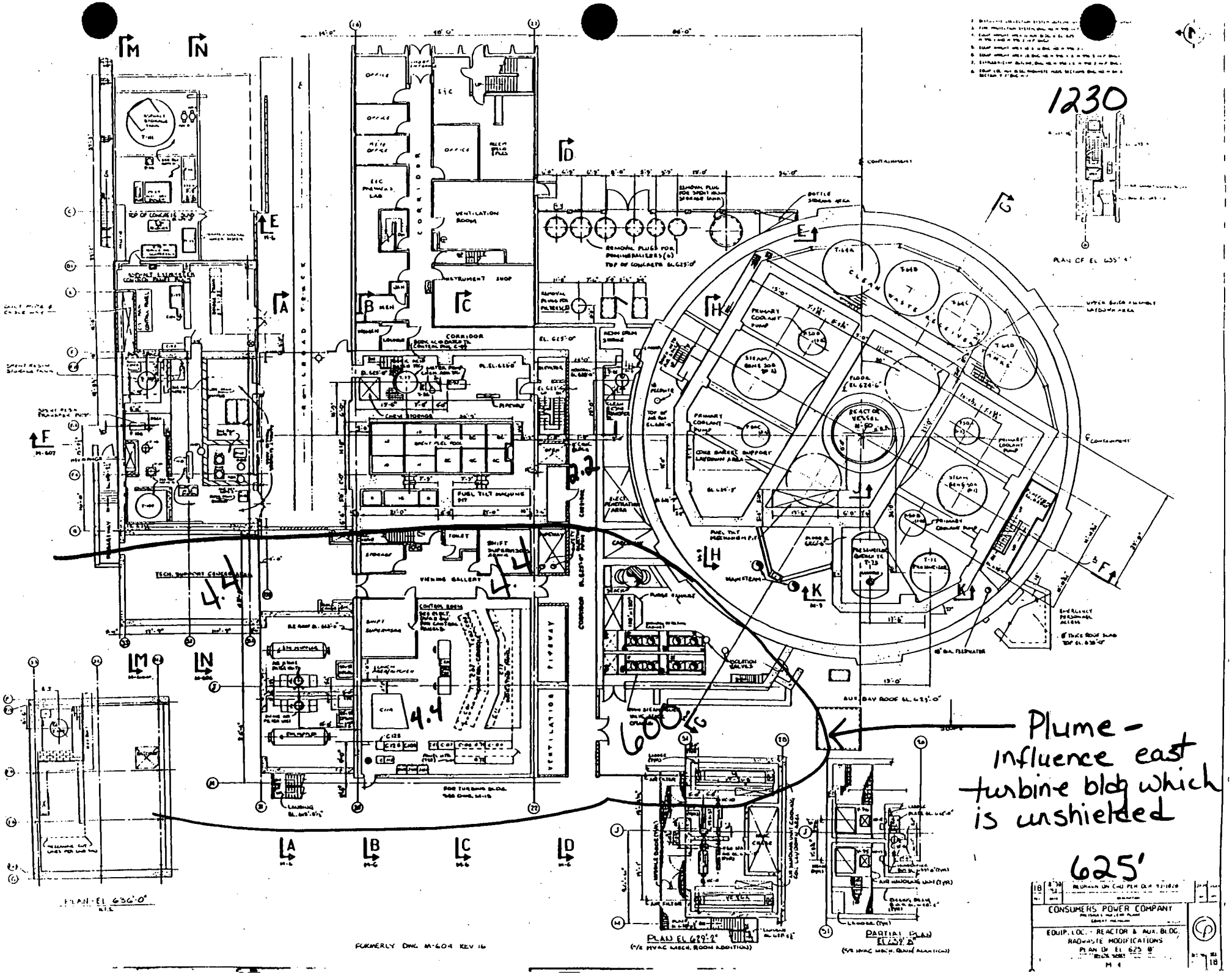
6. Return survey to Shift Supervisor.

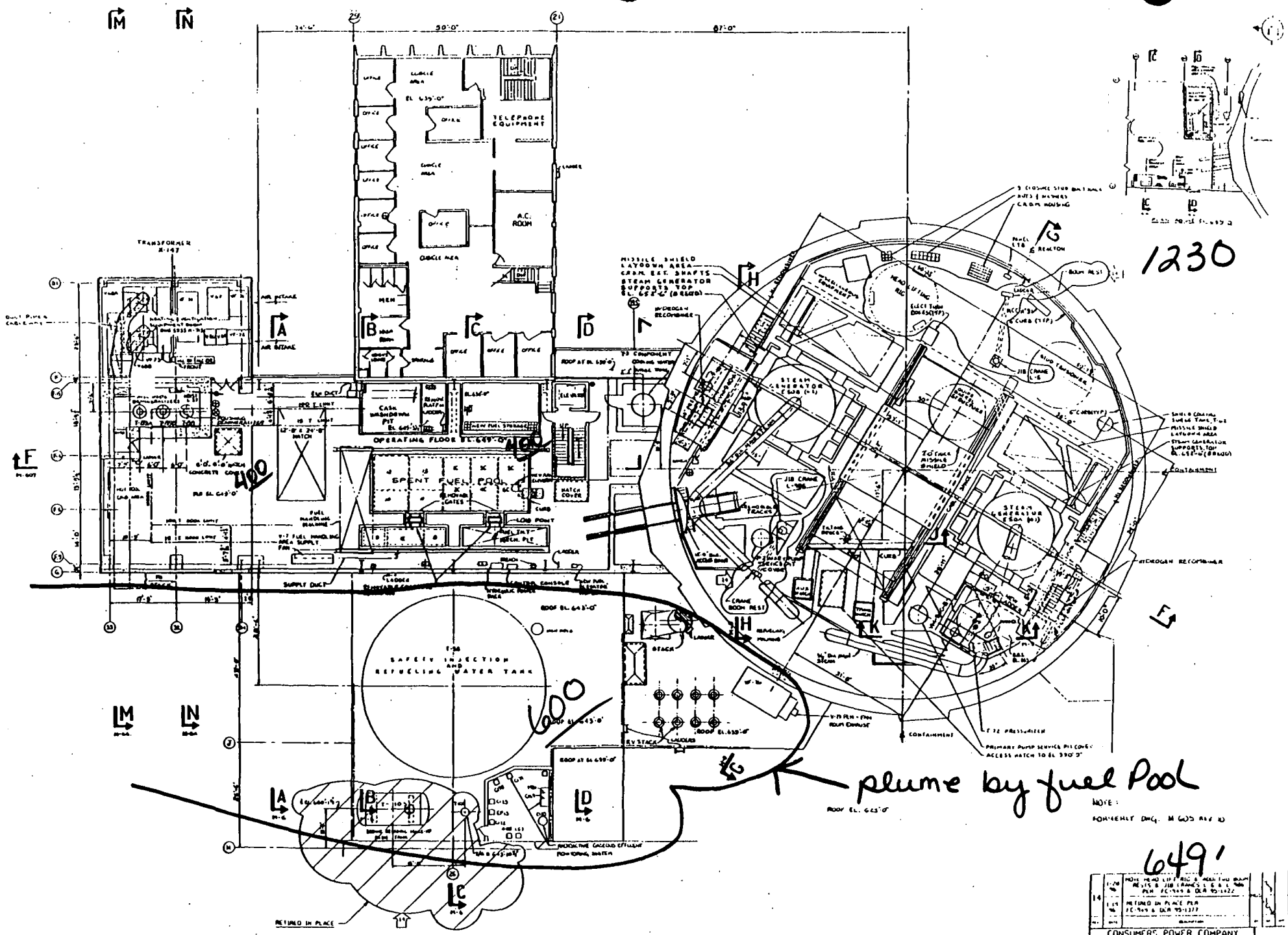
Completed By: _____

Reviewed By: _____ (SS)


1230
590'
steam filled contamination around jail window & equip
radiation high around jail window
PARTIAL PLAN EL 590'-0"
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX BLDG
RADWASTE MODIFICATIONS
PLAN OF EL. 590'-0"
M-2


When sampled
Bkg to 50 mrem/hr
Bkg to 1 R/hr
SECTION L-L
1230
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION-AUXILIARY AND
REACTOR BLDG. RADWASTE PROTECTION
PLAN OF EL. 607'-6"
M-3
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1230
Plume - influence east turbine bldg which is unshielded
625'
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 625'-0"
PLAN EL 625'-0"
PARTIAL PLAN EL 639'-0"
FORMERLY DWG M-604 REV 16


1230
480
480
600
649'
plume by fuel Pool
SPENT FUEL POOL
SAFETY INJECTION AND REFUELING WATER TANK
TELEPHONE EQUIPMENT
A.C. ROOM
OPERATING FLOOR EL. 649'-0"
CONSUMERS POWER COMPANY
EQUIP. LOC.: AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 649'-0"

10/22/96
1245

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr * (steam plume)

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr ___ (shine from jail house)

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors. (use room reading)

4. Off gas line: Contact mRem/hr 3.4

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

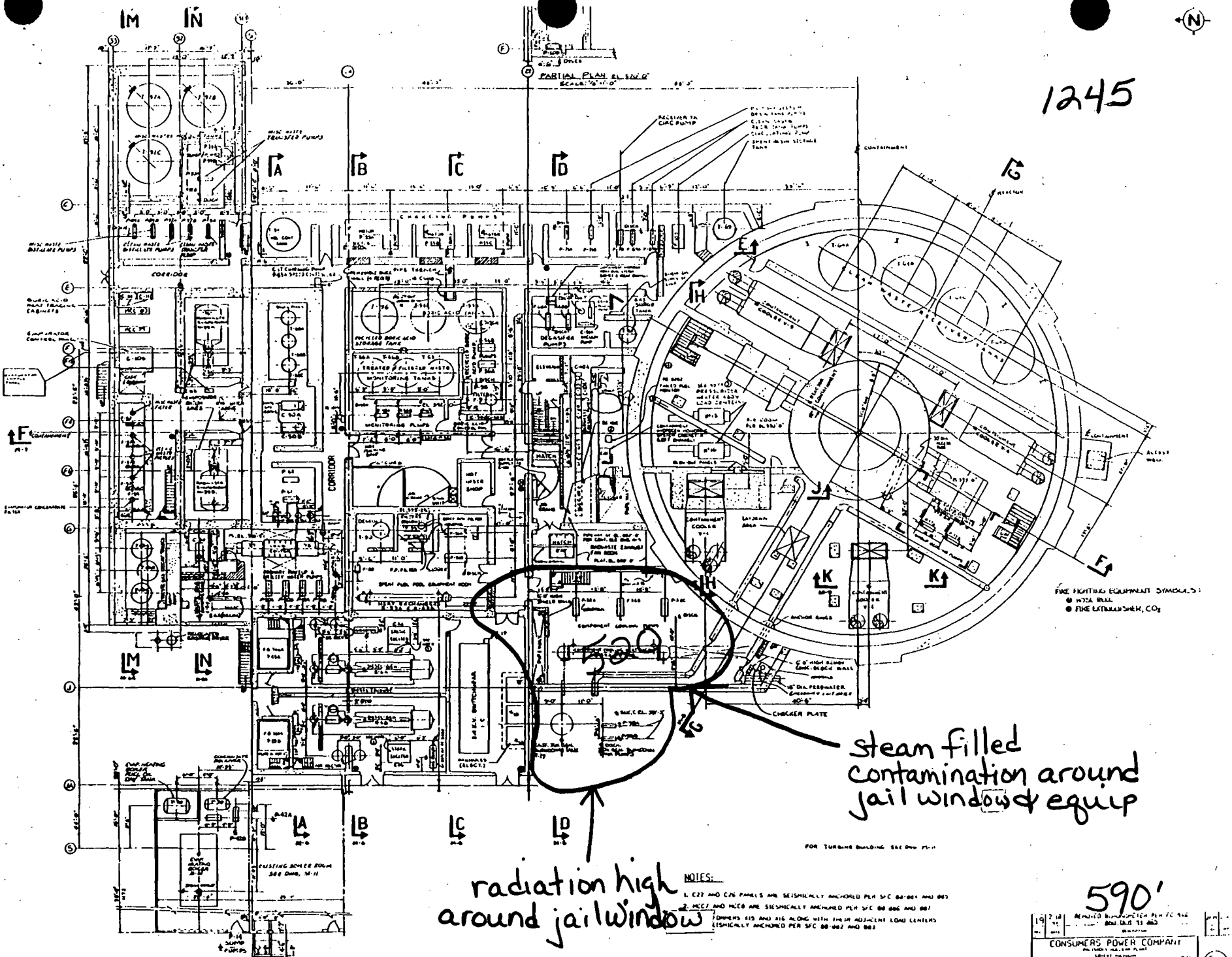
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

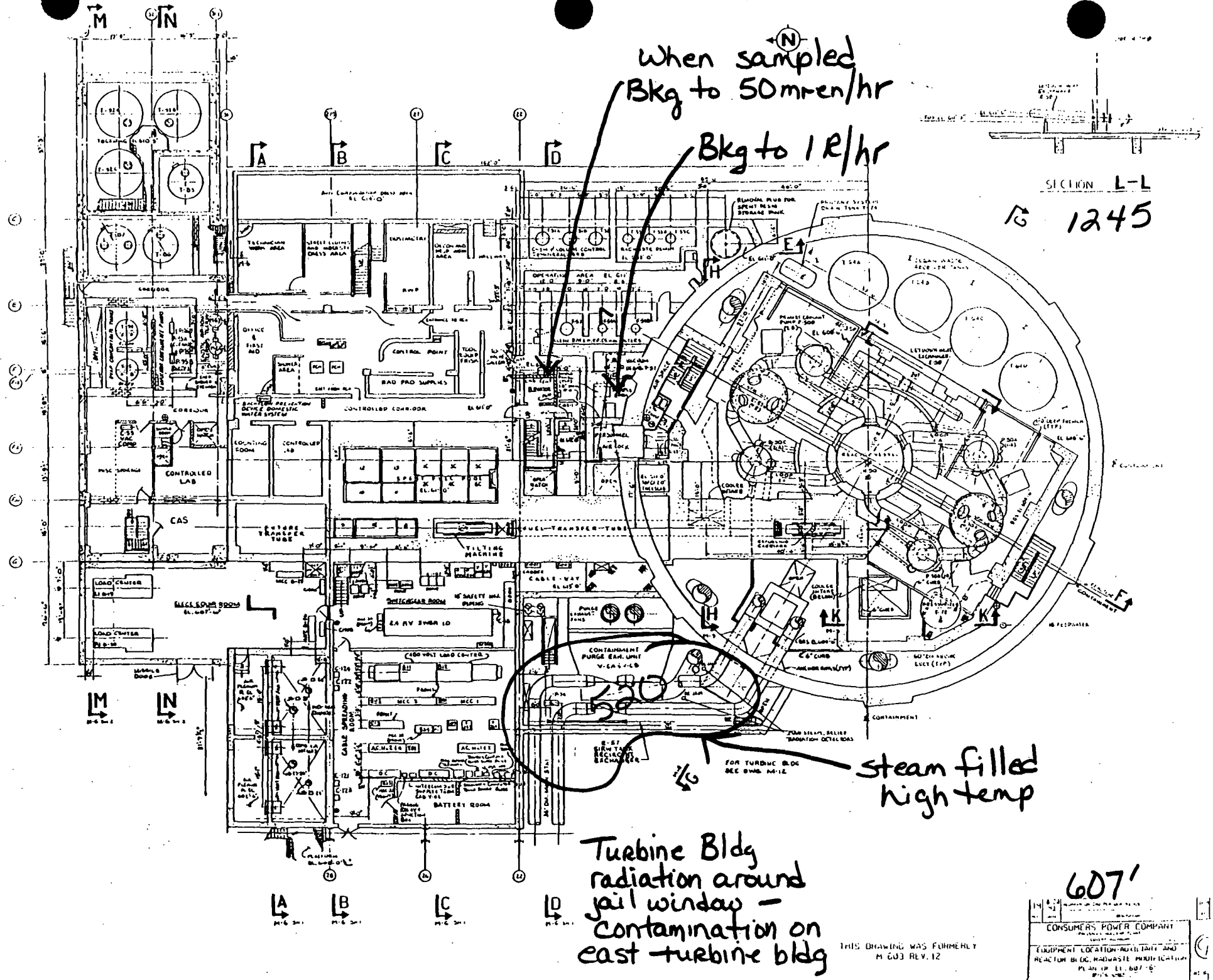
* Use room reading ÷ 10 in plume

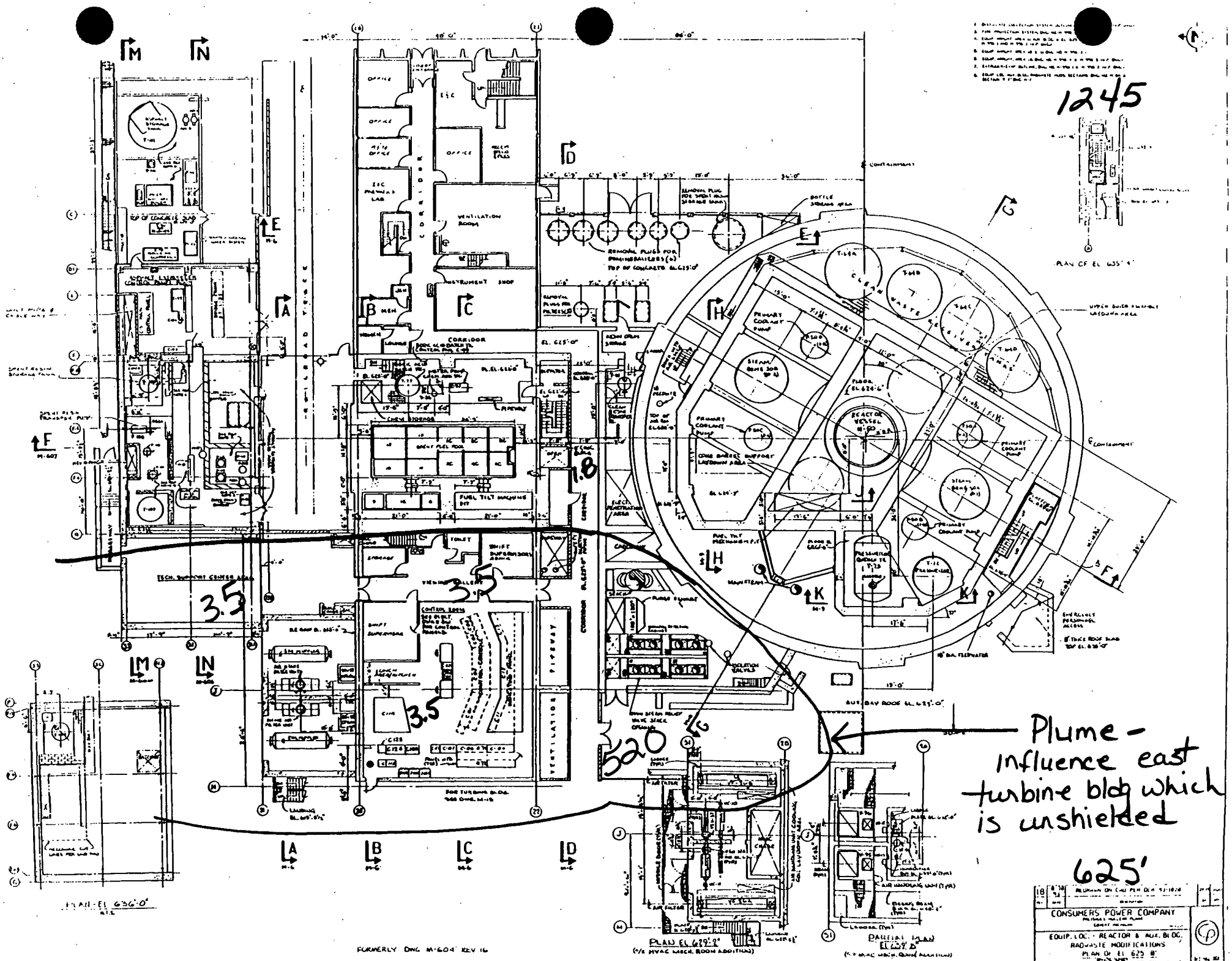
6. Return survey to Shift Supervisor.

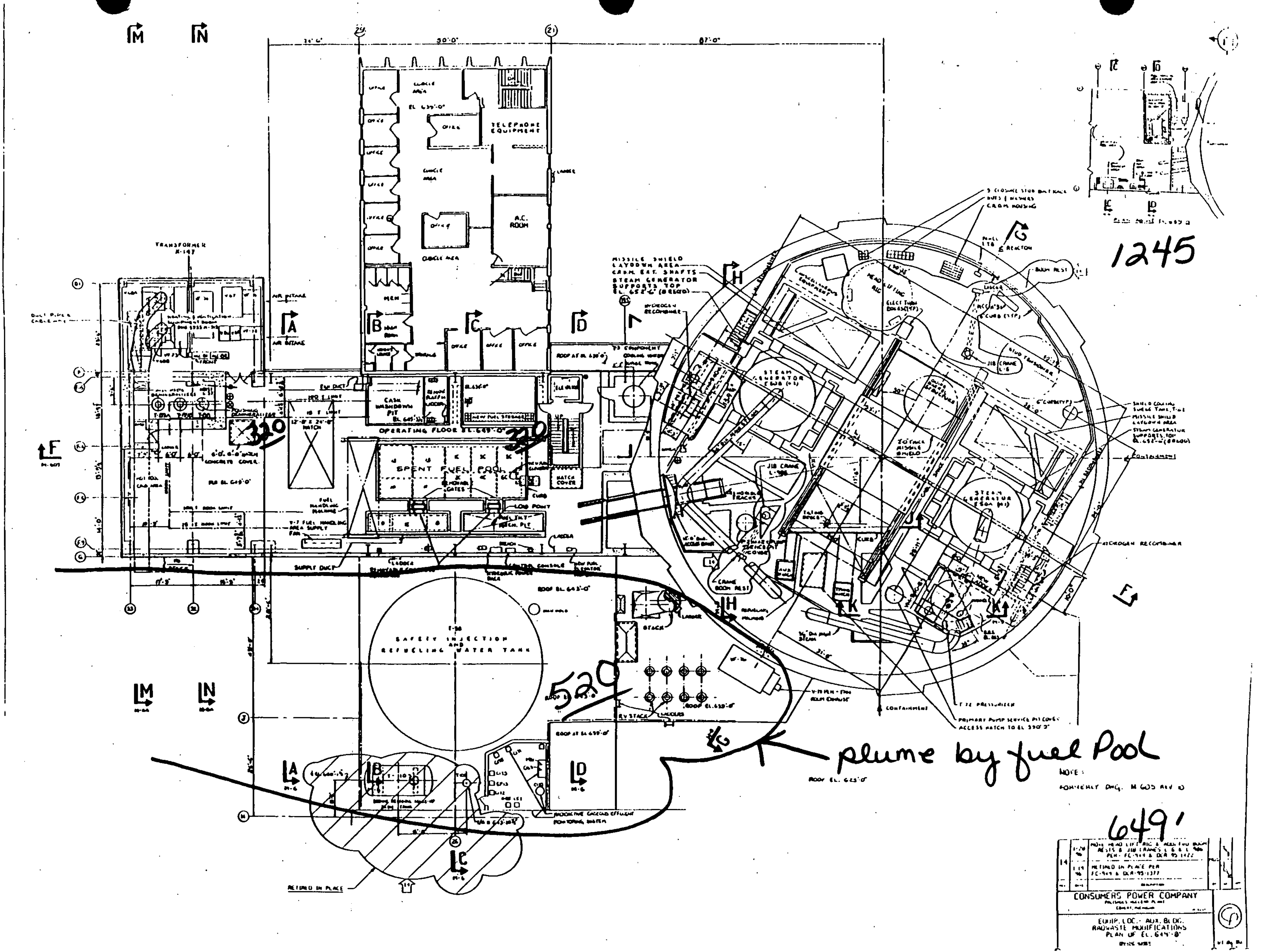
Completed By: _____

Reviewed By: _____ (SS)


1245
PARTIAL PLAN EL 590'-0"
CORRIDOR
CHARGING PUMPS
CONTAINMENT
CHARGER PLATE
590'
steam filled
contamination around
jail window & equip
radiation high
around jail window
NOTES:
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 590' 0"
M-2


When sampled
Bkg to 50 mrem/hr
Bkg to 1 R/hr
SECTION L-L
1245
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION AUXILIARY AND
REACTOR BLDG. RADWASTE MODIFICATION
PLAN OF EL. 607'-0"
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1245
3.5
3.5
3.5
520
1.8
625'
Plume - influence east turbine bldg which is unshielded
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 625'-0"
FORMERLY DWG M-604 REV 16


1245
320
320
520
plume by fuel Pool
649'
TRANSFORMER
AIR INTAKE
TELEPHONE EQUIPMENT
A.C. ROOM
CASK WASHDOWN PIT
OPERATING FLOOR EL. 649'-0"
SPENT FUEL POOL
NEW FUEL STORAGE
HATCH COVER
SAFETY INJECTION AND REFUELING WATER TANK
STEAM GENERATOR
HYDROGEN RECOMBINER
CONTAINMENT
SUPPLY DUCT
STACK
RETIRED IN PLACE
RADIOACTIVE GASEOUS EFFLUENT MONITORING SYSTEM
PRIMARY PUMP SERVICE PIT COVER
ACCESS HATCH TO EL 590'-0"
CONSUMERS POWER COMPANY
EQUIP. LOC. - AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 649'-0"
RETIRED IN PLACE PER
FC-949 & DCR-95-1377

1300
1-22-96

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr * steam plume

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr ___ shine from jail house

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors. use room reading

4. Off gas line: Contact mRem/hr 3.7

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

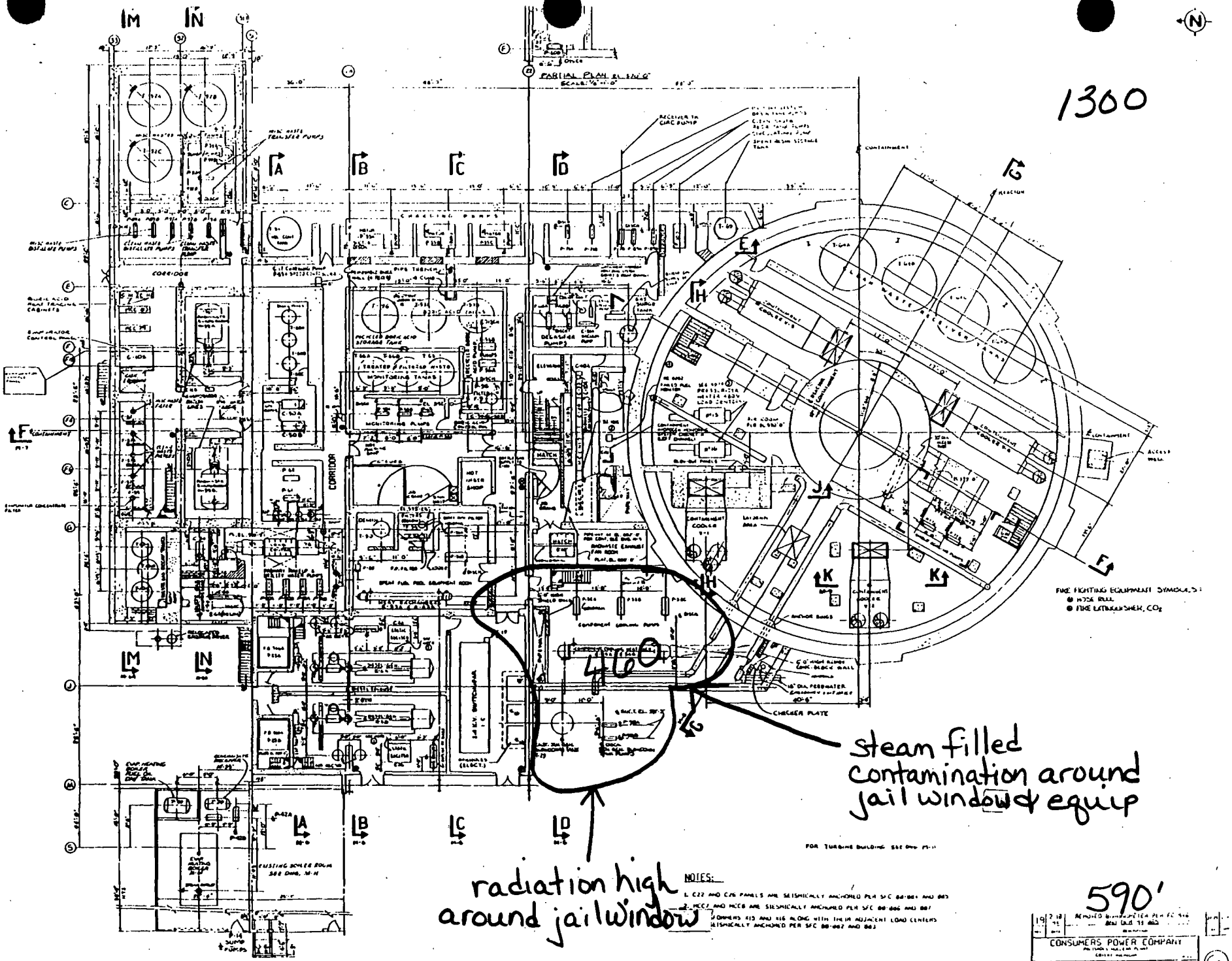
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

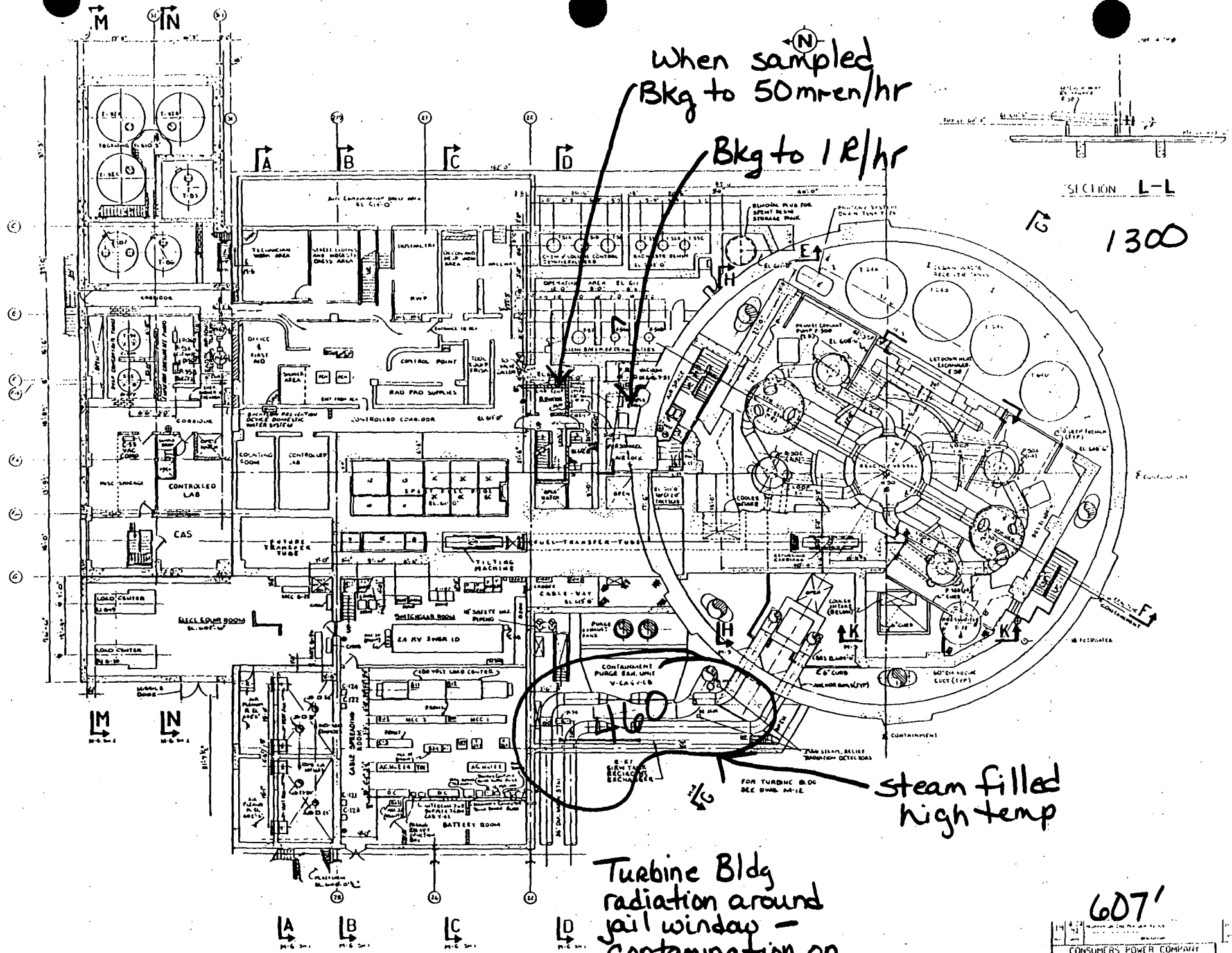
   * Use room reading ÷ 10 in plume

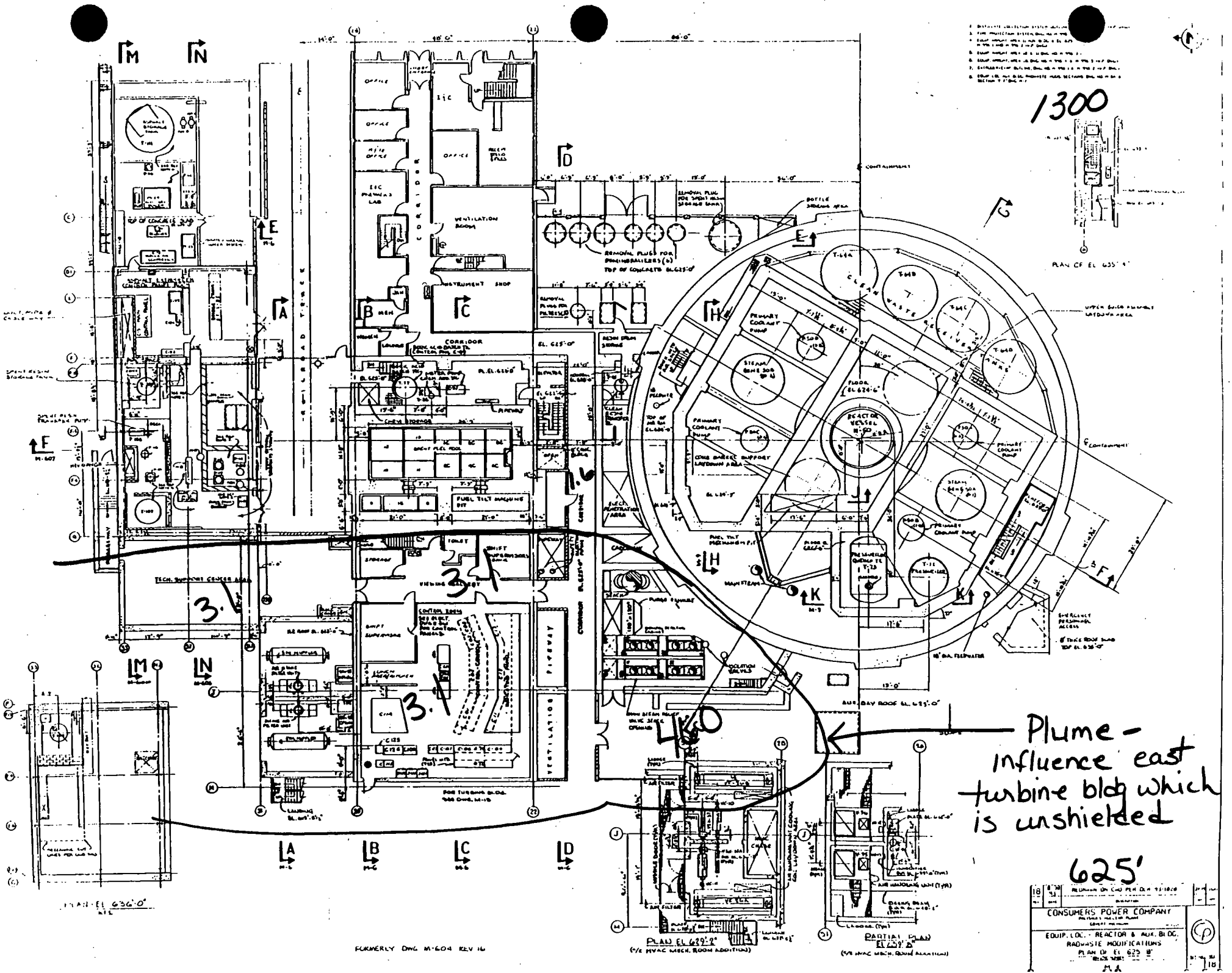
6. Return survey to Shift Supervisor.

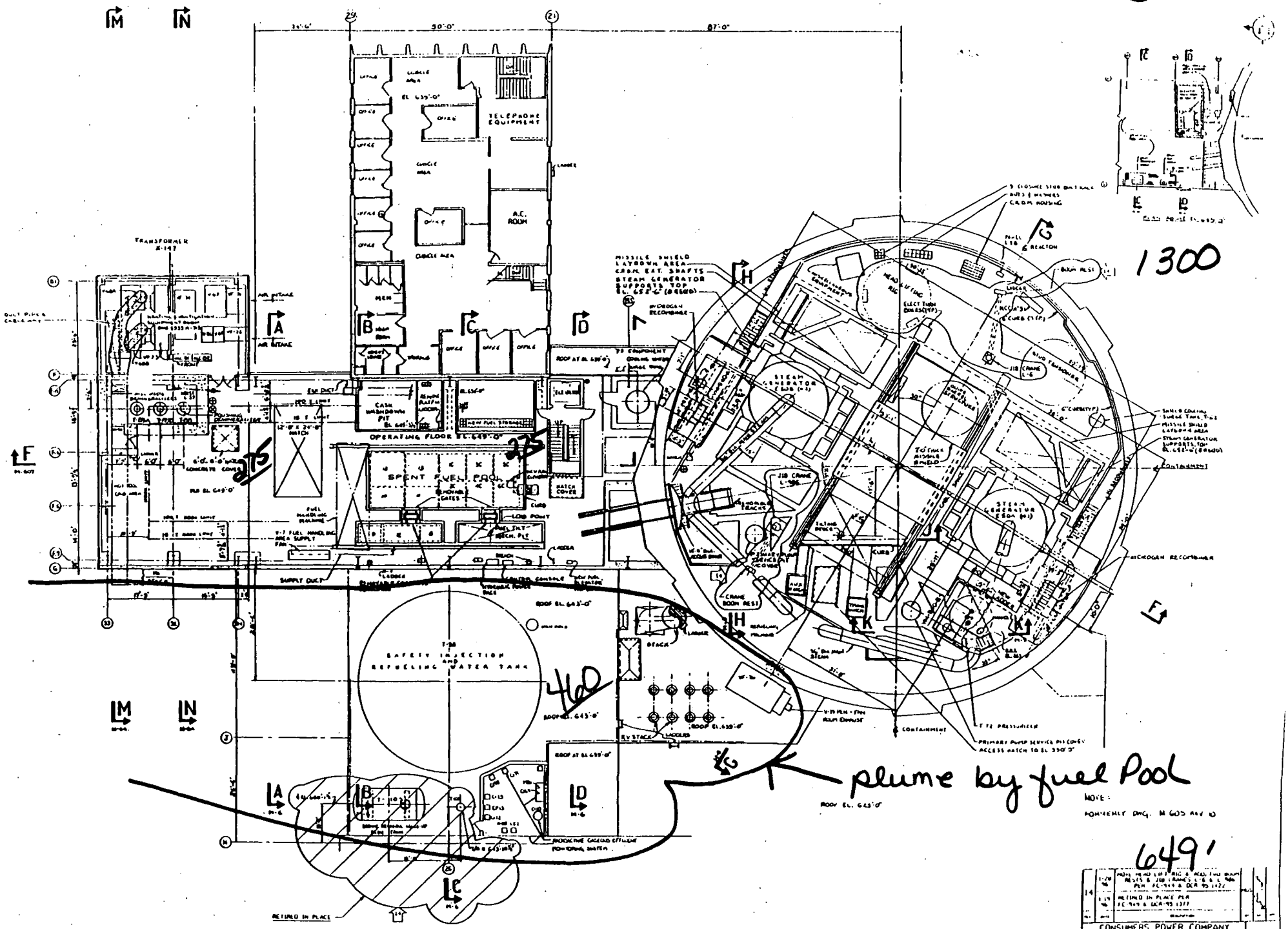
Completed By: _____

Reviewed By: _____ (SS)


1300
460
590'
steam filled contamination around jail window & equip
radiation high around jail window
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 590' 8"
M-2


When sampled
Bkg to 50 mrem/hr
Bkg to 1 R/hr
SECTION L-L
1300
1160
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION AUXILIARY AND
REACTOR BLDG. RADWASTE MODIFICATION
PLAN OF EL. 607'-6"
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1300
625'
Plume - influence east turbine bldg which is unshielded
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 629'-8"
PLAN EL 629'-8"
PARTIAL PLAN EL 651'-0"
PLAN EL 636'-0"
FORMERLY DWG M-604 REV 16



CONSUMERS POWER COMPANY

EMRP, LOC., AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 649'-0"

1315
10/22/96

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr * (steam plume)

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr ___ (shine from jail house)

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors. (use room reading)

4. Off gas line: Contact mRem/hr 30

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

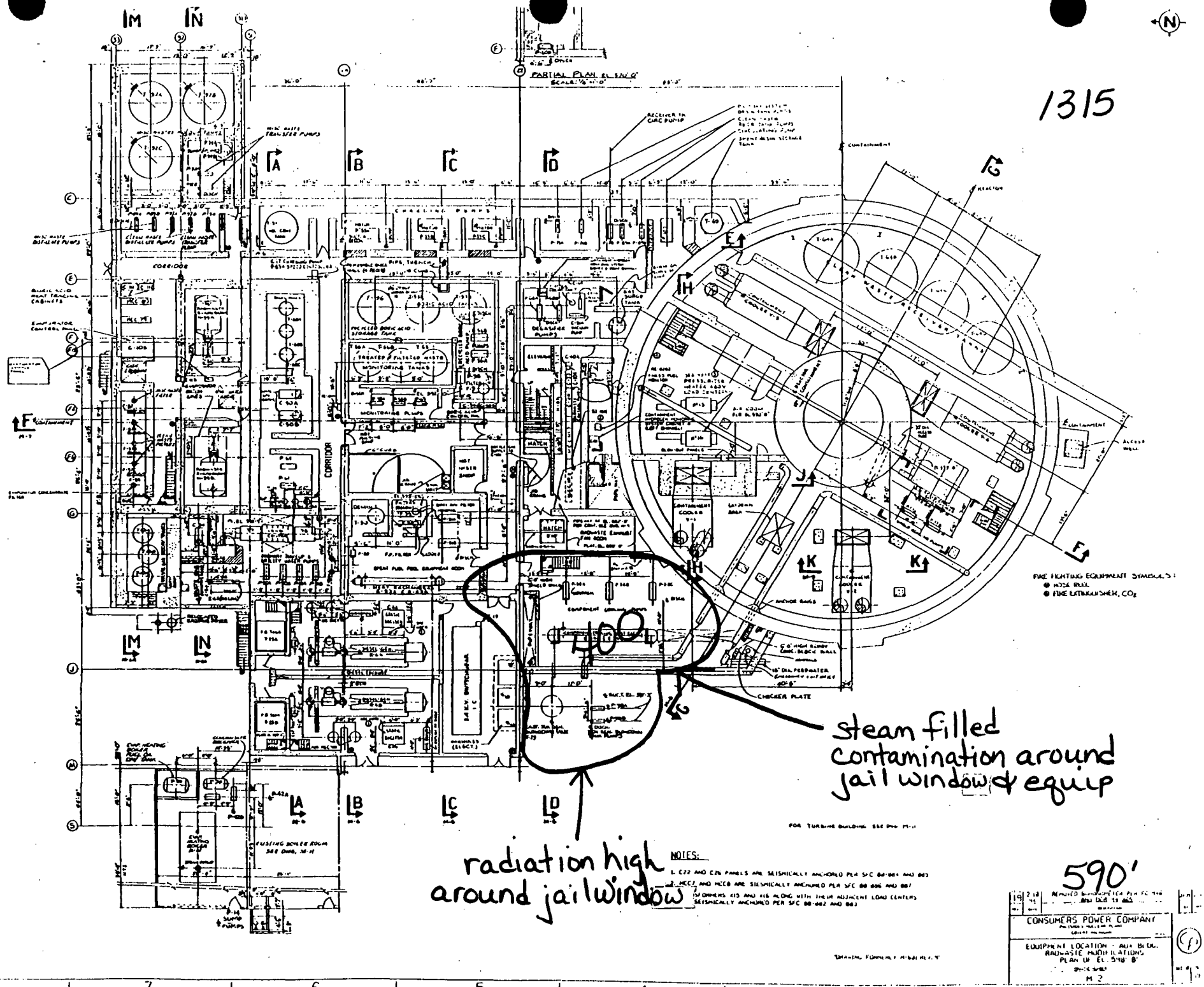
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

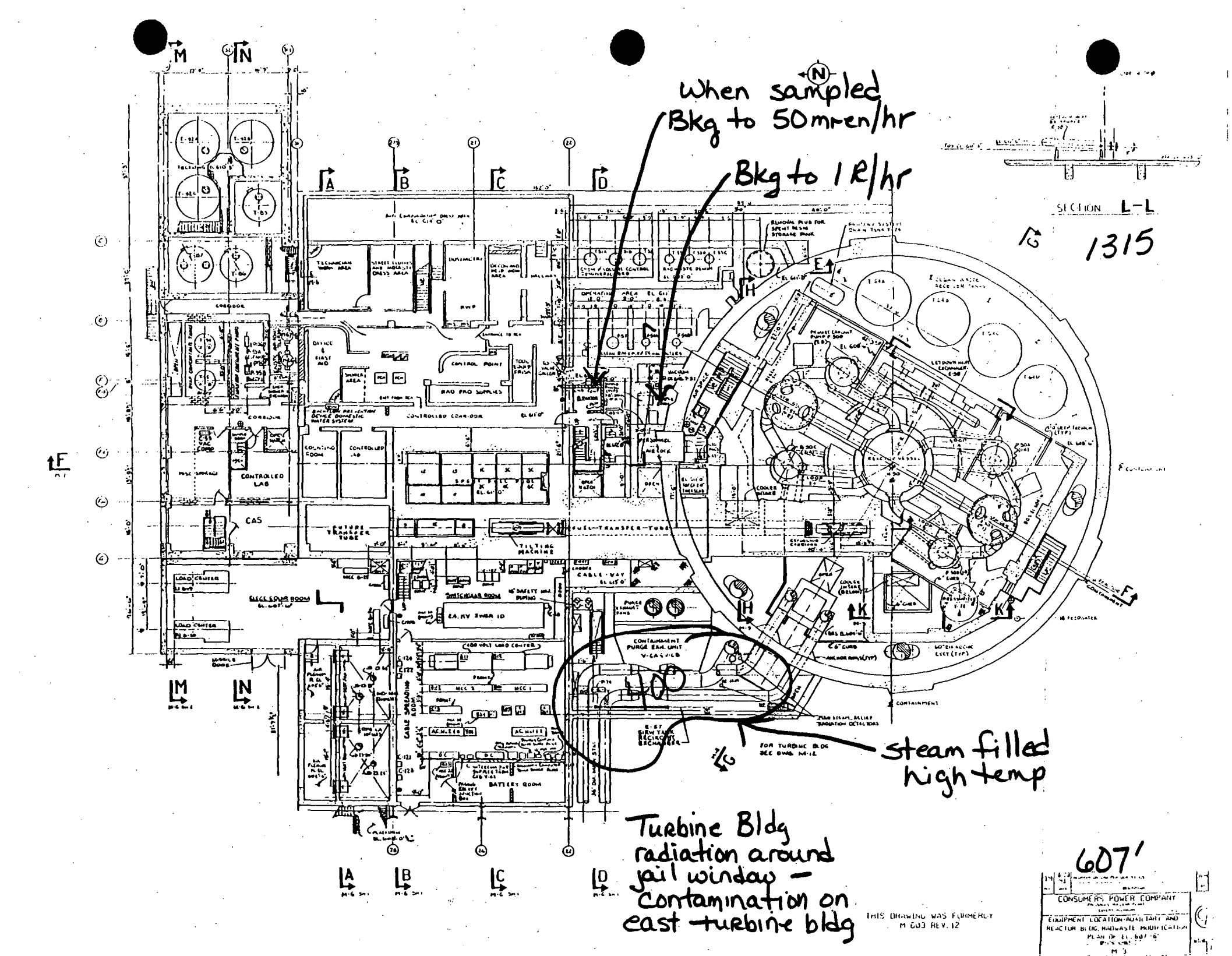
   * Use room reading ÷ 10 in plume

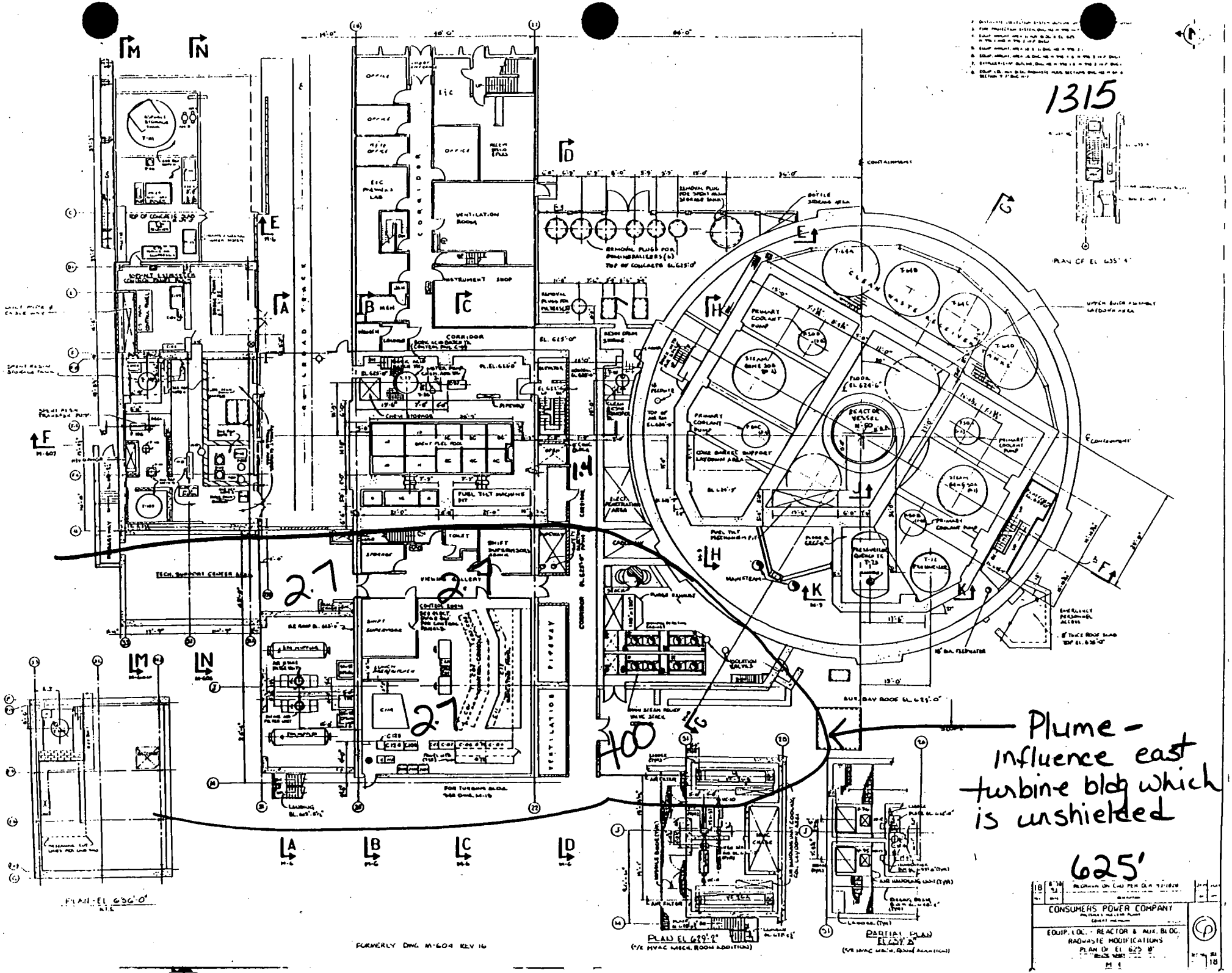
6. Return survey to Shift Supervisor.

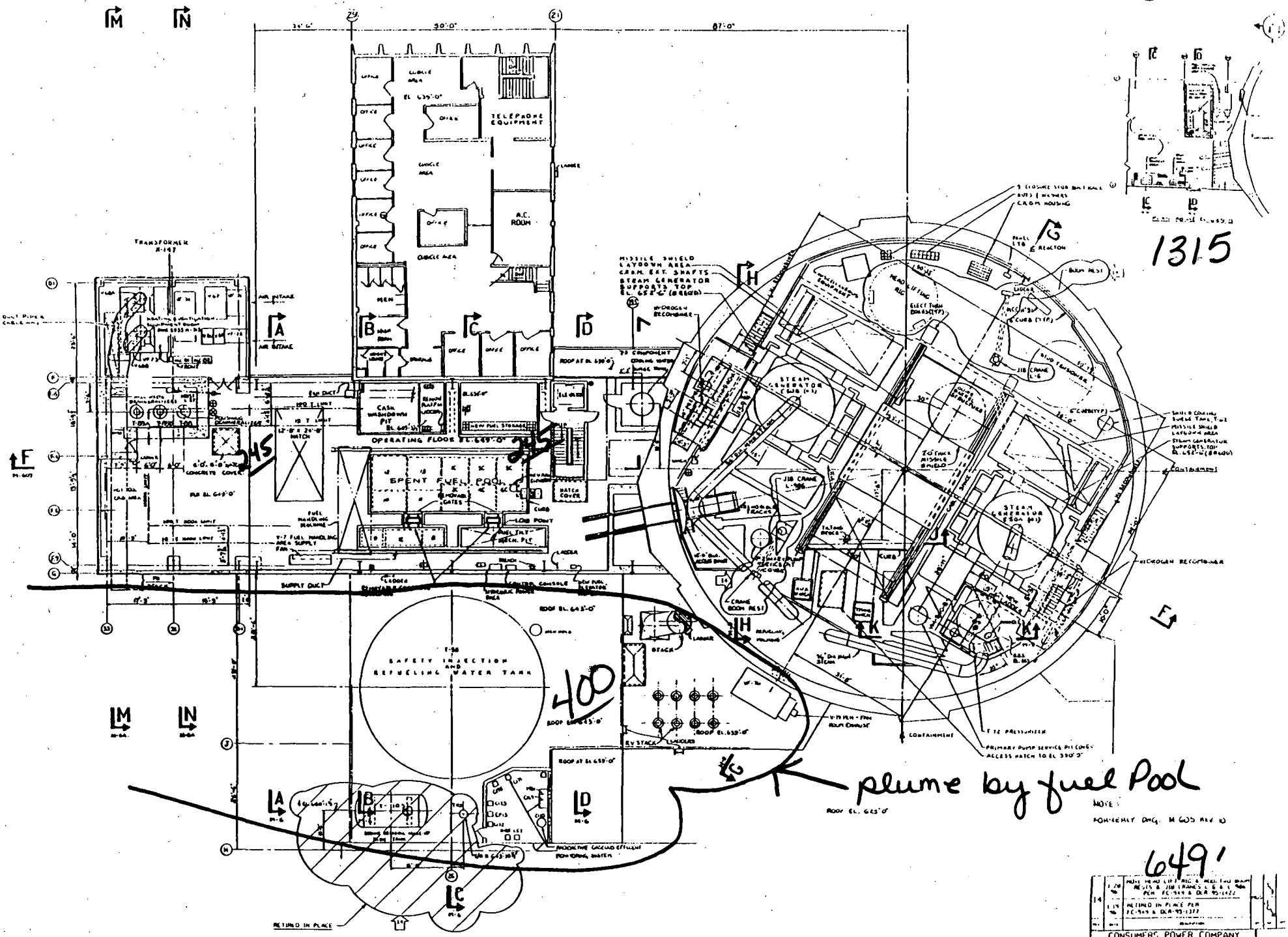
Completed By: _____

Reviewed By: _____ (SS)


1315
590'
steam filled contamination around jail window & equip
radiation high around jail window
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 590'-0"
M-2


When sampled
Bkg to 50mren/hr
Bkg to 1R/hr
SECTION L-L
1315
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION-ASSISTANT AND
REACTOR BLDG. RADWASTE MODIFICATION
PLAN OF EL. 607'-6"
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1315
2.7
2.4
2.7
100
Plume - influence east turbine bldg which is unshielded
625'
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 625'-0"
FORMERLY DWG. M-604 REV 16



NOTE:
FORMERLY DWG. M 603 REV 10

14	1-28-86	MOVE HEAD LIFT RIG & HEAD LAYDOWN AREA & JIB CRANES L-1 & L-1B PER FC-944 & DCR 85-1377	
13	1-15-86	RETIRED IN PLACE PER FC-944 & DCR 85-1377	

CONSUMERS POWER COMPANY
PALISADES NUCLEAR PLANT
COVERT, MICHIGAN

EQUIP. LOC. - AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 649'-0"

9

1330
10/22/96

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr * steam plume

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr ___ shine from jail house

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors. use room reading

4. Off gas line: Contact mRem/hr 2.8

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

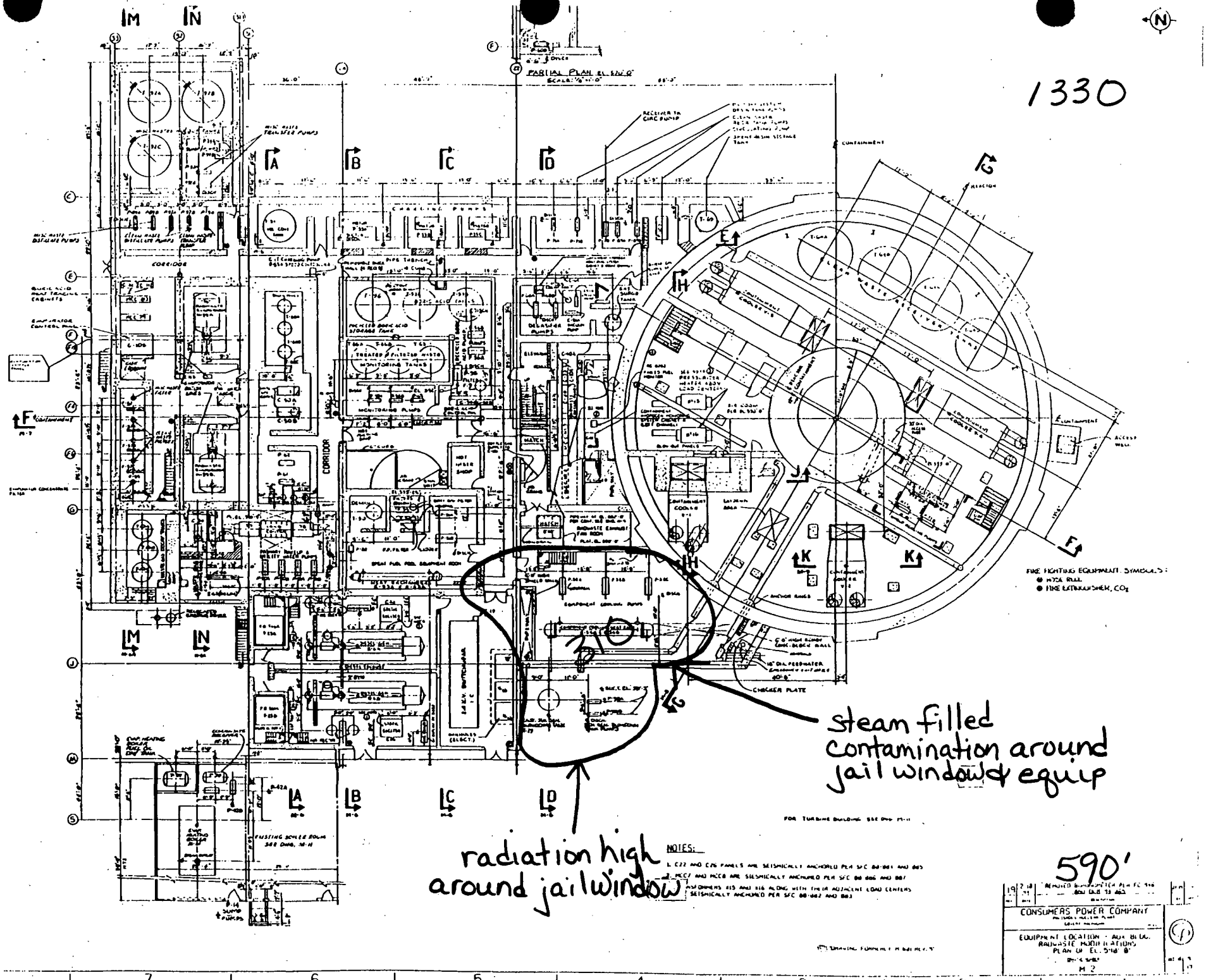
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

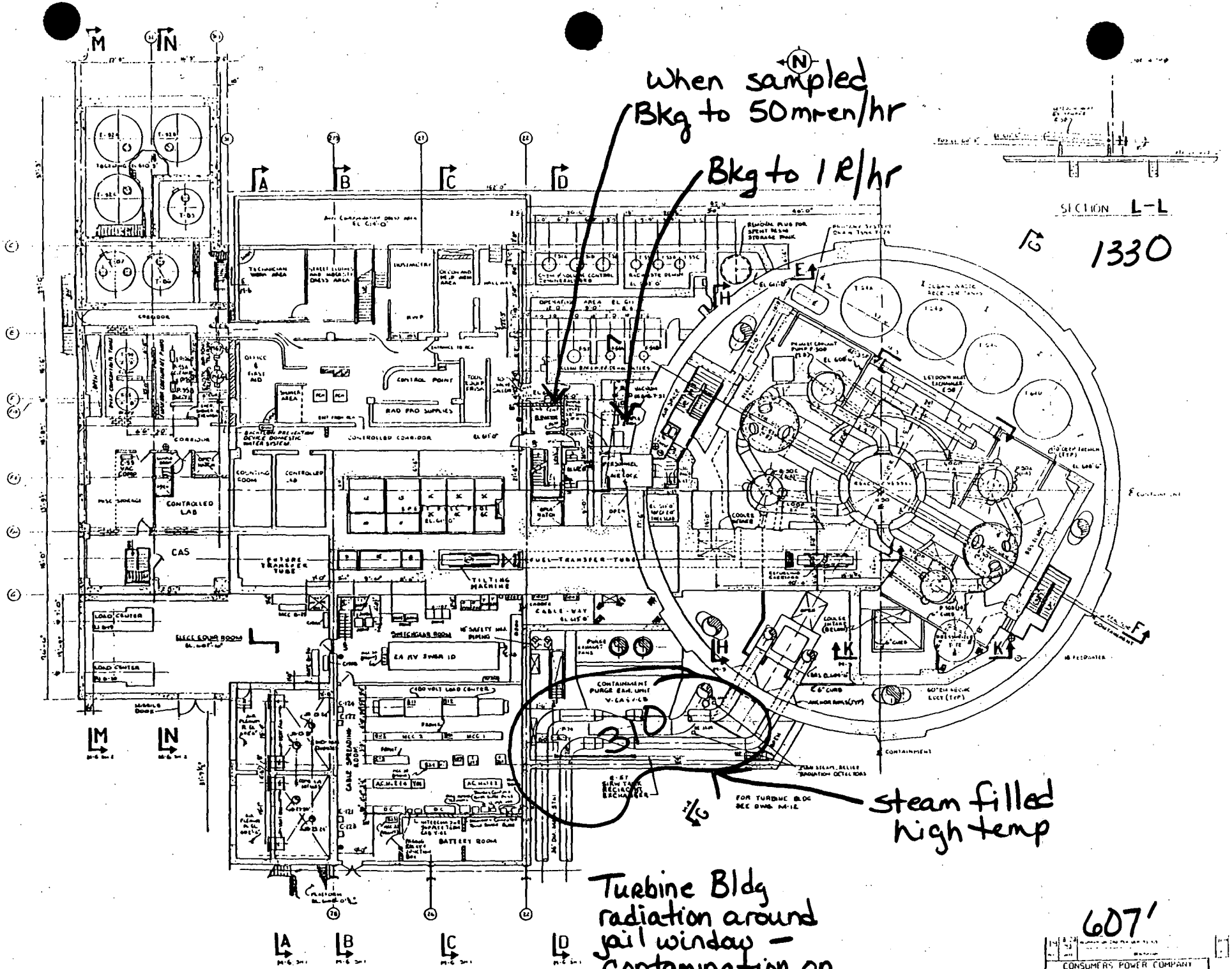
* Use room reading ÷ 10 in plume

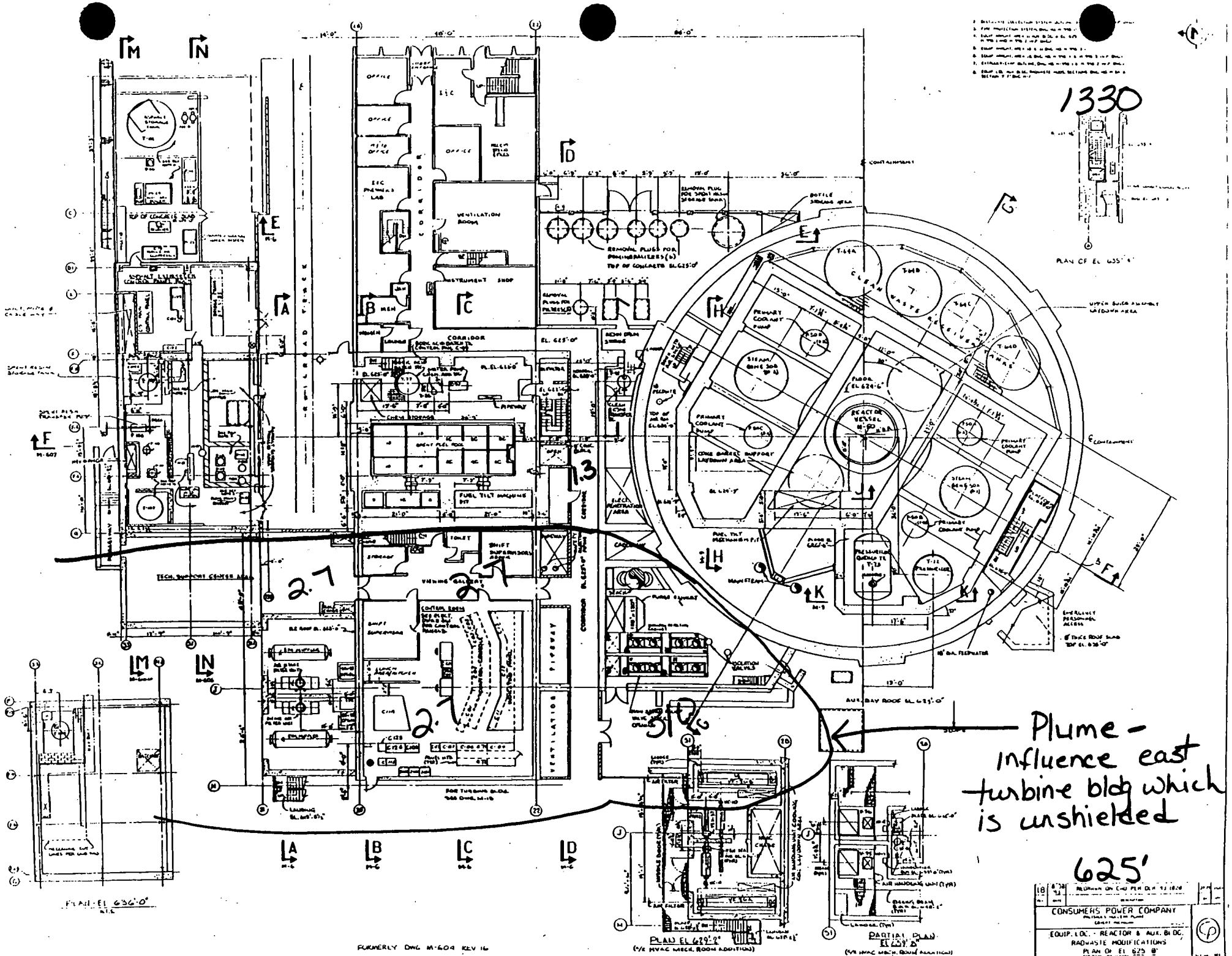
6. Return survey to Shift Supervisor.

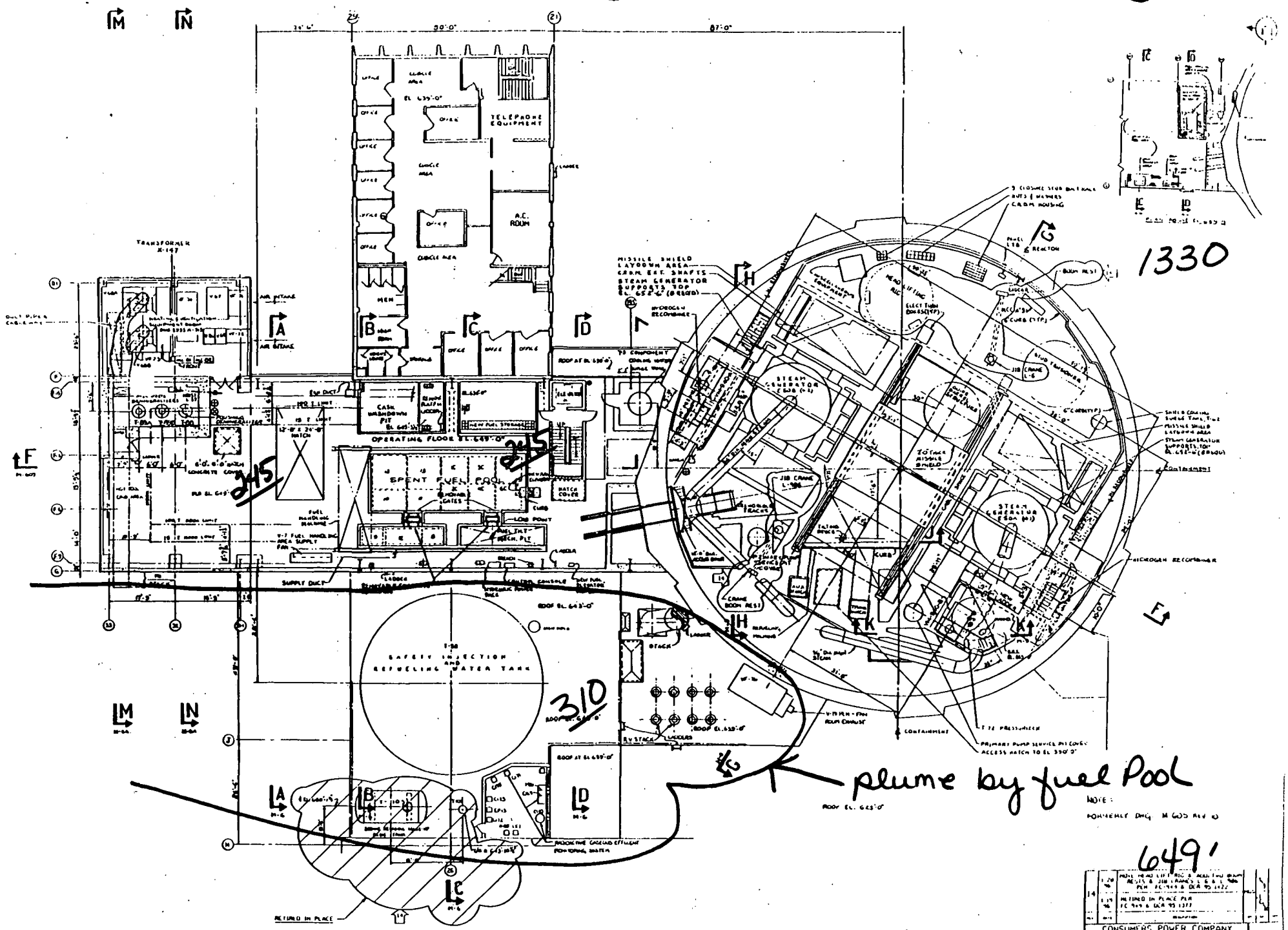
Completed By: _____

Reviewed By: _____ (SS)


1330
590'
steam filled contamination around jail window & equip
radiation high around jail window
PARTIAL PLAN EL. 590'-0"
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 590'-0"
M-2


When sampled
Bkg to 50 mrem/hr
Bkg to 1 R/hr
SECTION L-L
1330
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION-AUXILIARY AND
REACTOR BLDG. RADWASTE MODIFICATION
PLAN @ EL. 607'-6"
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1330
PLAN OF EL 635'-6"
Plume - influence east turbine bldg which is unshielded
625'
PLAN EL 636'-0"
PLAN EL 629'-2"
PARTIAL PLAN EL 639'-8"
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 625 @
M-1
FORMERLY DWG M-604 REV 16


1330
345
345
310
649'
plume by fuel Pool
SPENT FUEL POOL
SAFETY INJECTION AND REFUELING WATER TANK
RETIRED IN PLACE
TELEPHONE EQUIPMENT
A.C. ROOM
OPERATING FLOOR EL. 649'-0"
CONSUMERS POWER COMPANY
EXAMPLE: AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 649'-0"

1345
12/9/96

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) steam plume Contact mRem/hr *

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: shine from jail house Contact mRem/hr ___
   use room reading

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors.

4. Off gas line: Contact mRem/hr 2.6

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

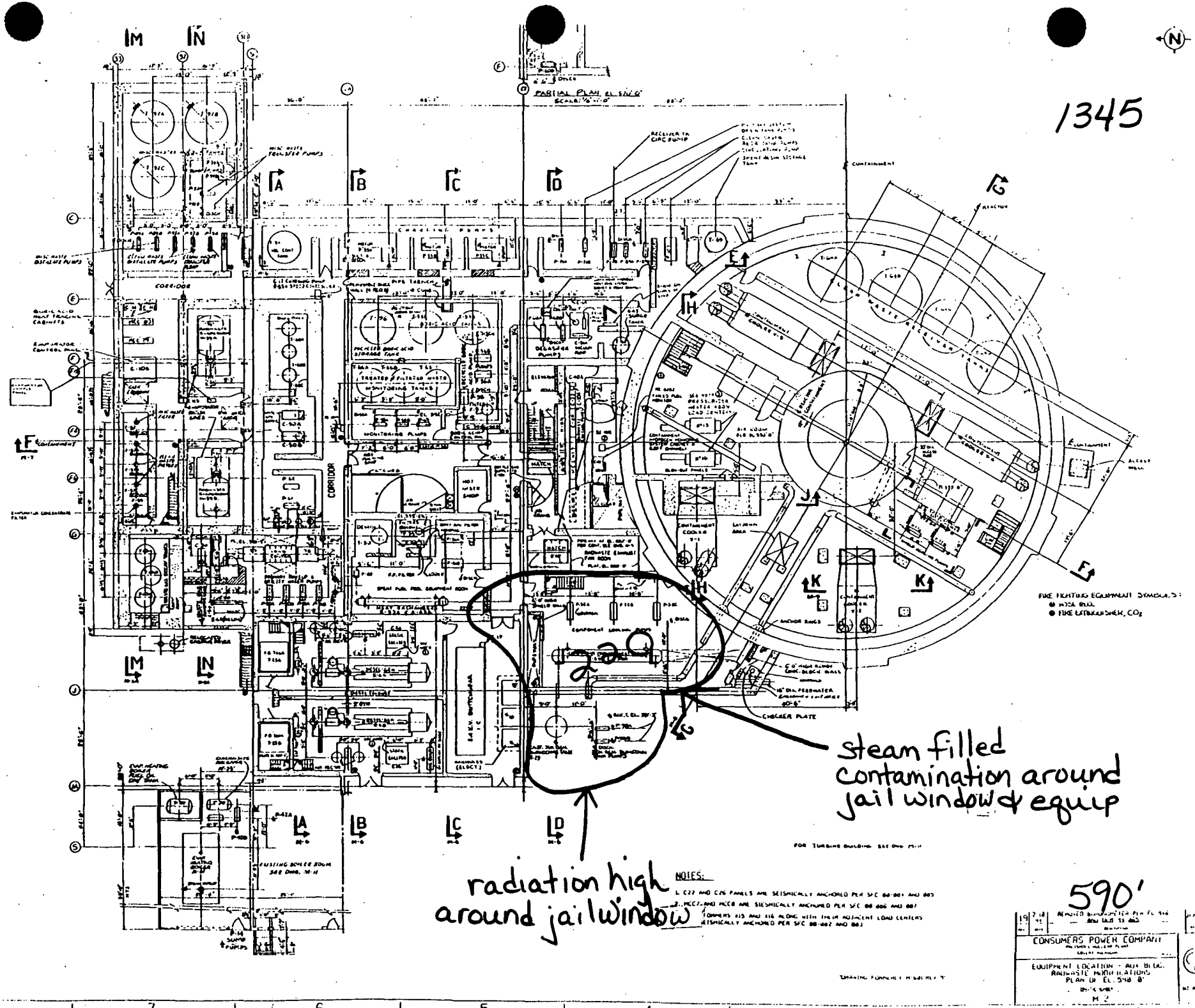
5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

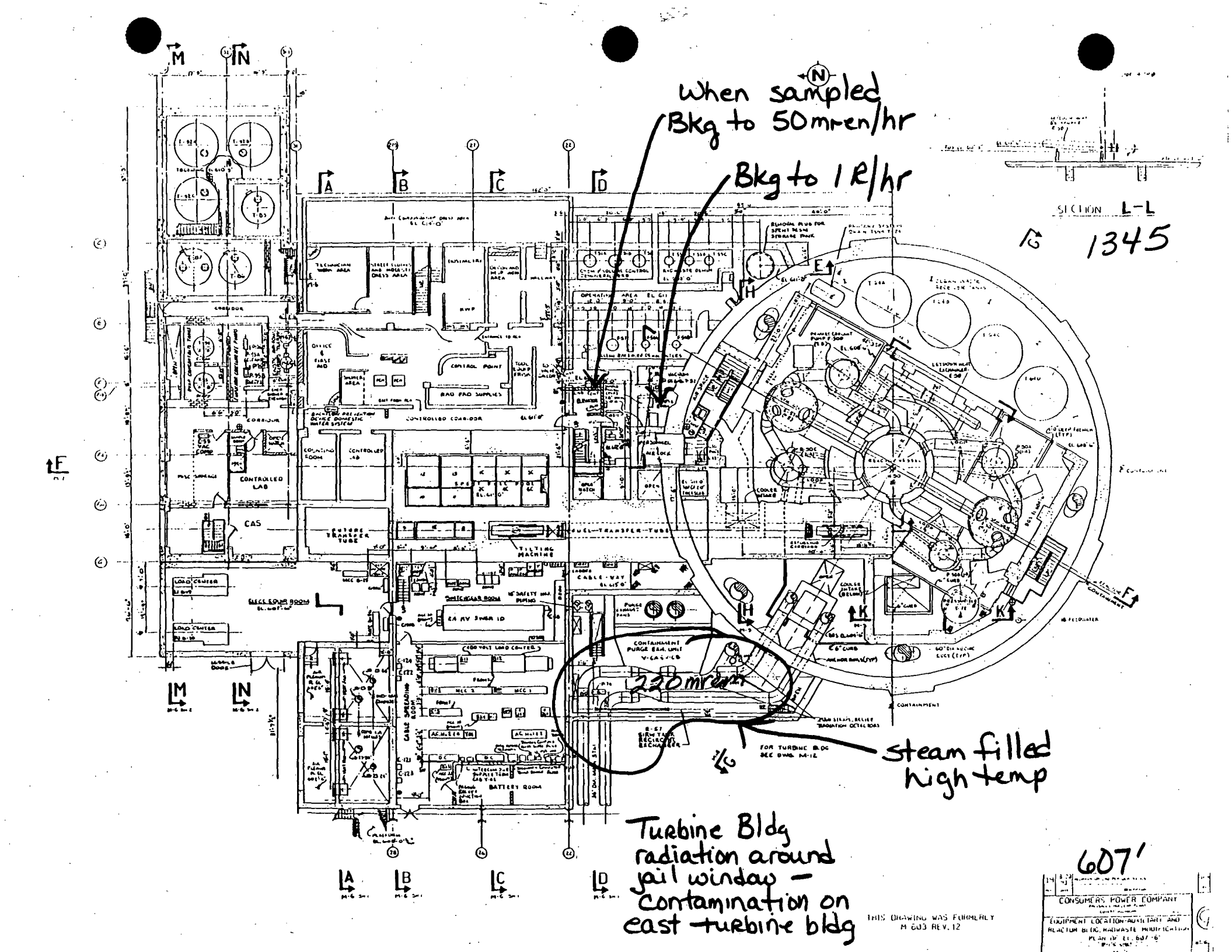
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

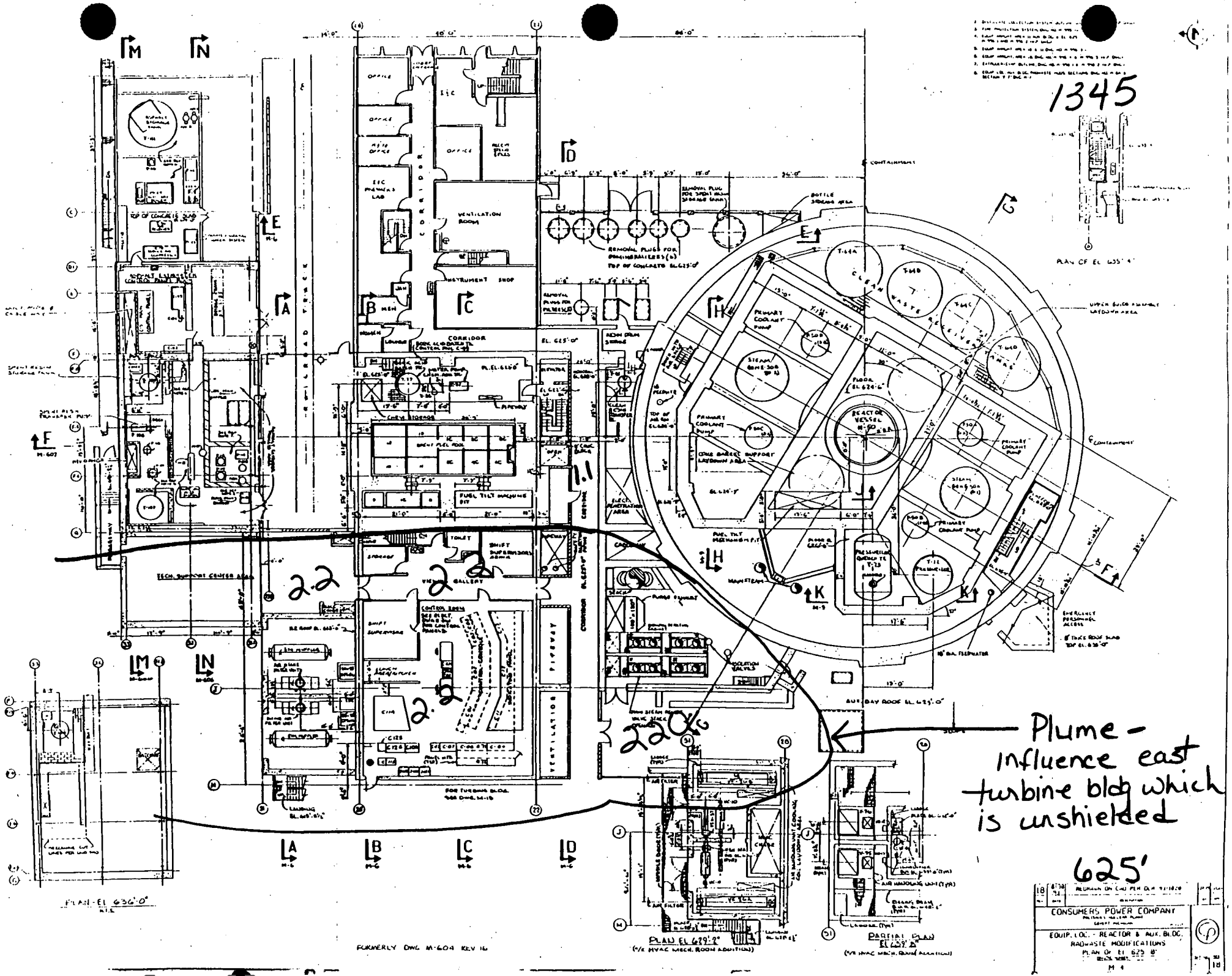
6. * Use room reading ÷ 10 in plume
   Return survey to Shift Supervisor.

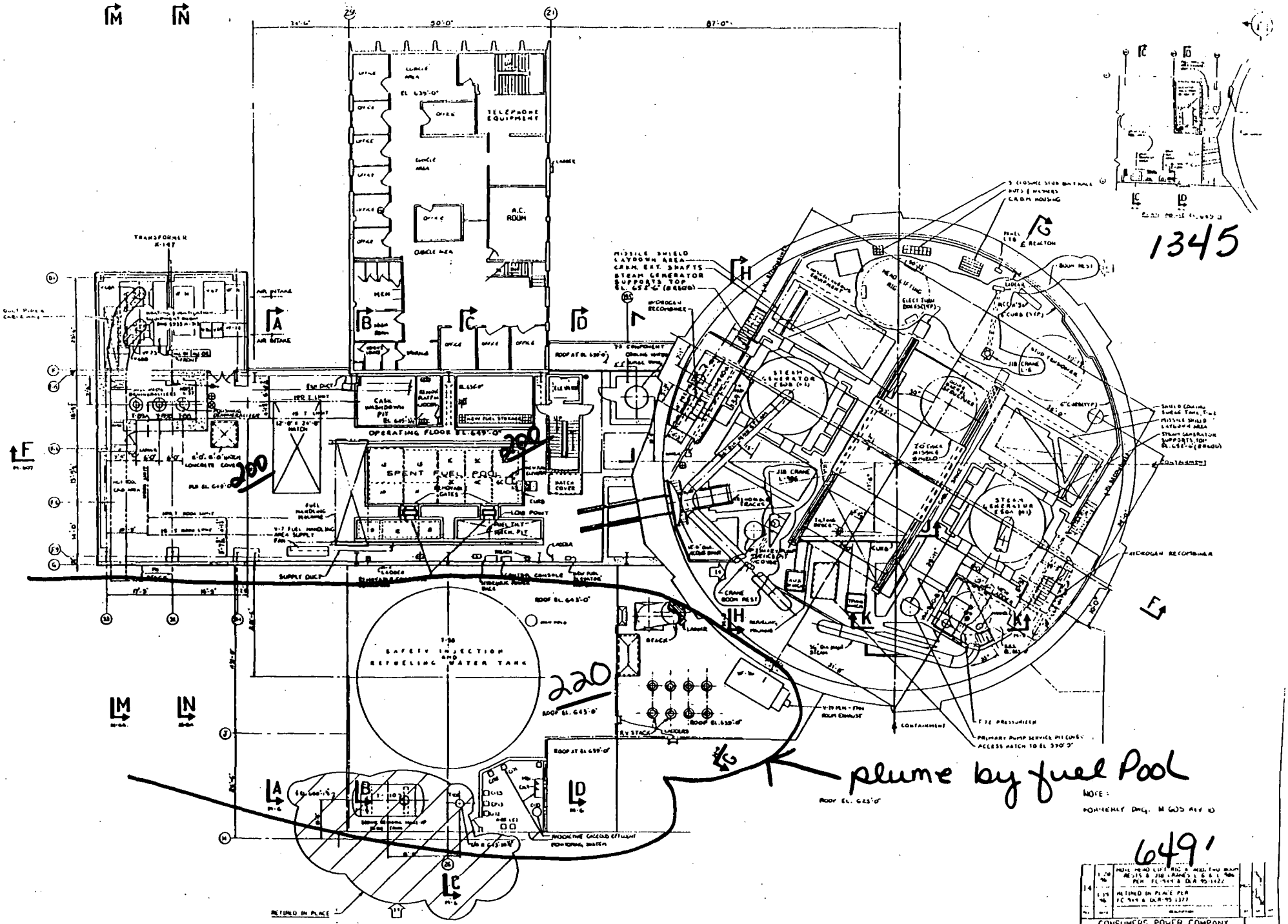
Completed By: _____

Reviewed By: _____ (SS)


1345
590'
steam filled contamination around jail window & equip
radiation high around jail window
PARTIAL PLAN EL 590'-0"
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 590' 0"


When sampled
Bkg to 50mrem/hr
Bkg to 1R/hr
SECTION L-L
1345
220mrem/hr
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
THIS DRAWING WAS FORMERLY
M 603 REV. 12
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION-AUXILIARY AND
REACTOR BLDG. RADWASTE MODIFICATIONS
PLAN OF EL. 607'-6"


1345
2.2
2.2
2.2
220
Plume - influence east turbine bldg which is unshielded
625'
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 625'-0"
PLAN - EL 636'-0"
PLAN EL 629'-2"
PARTIAL PLAN EL 639'-8"
FORMERLY DWG M-604 REV 16


TELEPHONE EQUIPMENT
A.C. ROOM
OFFICE AREA
TRANSFORMER X-147
AIR INTAKE
OPERATING FLOOR EL. 649'-0"
SPENT FUEL POOL
CASK WASHDOWN PIT EL. 649'-0"
NEW FUEL STORAGE
SAFETY INJECTION AND REFUELING WATER TANK
220
200
200
STEAM GENERATOR
PRESSURIZER
CONTAINMENT
MISSILE SHIELD
LAYDOWN AREA
HYDROGEN RECOMBINER
JIB CRANE
CRANE BOOM REST
RETURN IN PLACE
plume by fuel Pool
649'
1345
CONSUMERS POWER COMPANY
EQUIP. LOC. AUX. BLDG.
MISSILE MODIFICATIONS
PLAN UP EL. 649'-0"

1400
10/22/86

STEAM GENERATOR TUBE RUPTURE
PRELIMINARY AREA SURVEY

NOTE: Extendable probe type instrument should be used for surveys.

1. Blowdown Filter F-14 contact reading at floor grating above Blowdown Filter: Steaming mRem/hr *

   LOCATION: 625' Turbine Building about 25' NE Of Main Turbine Pedestal

2. Main Steam Lines above Turbine Building East Mezzanine:

   a. North Steam Line (from 'B' S/G) Contact mRem/hr * (steam plume)

   b. South Steam Line (from 'A' S/G) Contact mRem/hr *

   LOCATION: By Instrument Air Dryer about 9' above floor grating

3. Flash Tank T-29A: Contact mRem/hr ___ (shine from jail house)

   LOCATION: 590' Turbine Building, Northeast next to stairs by "jail house" doors. (use room reading)

4. Off gas line: Contact mRem/hr 2.*

   LOCATION: Above Condensate Pump Pit, 590' Turbine Building

5. Indicate the direction of travel and location of any steam plumes from the Turbine Building:

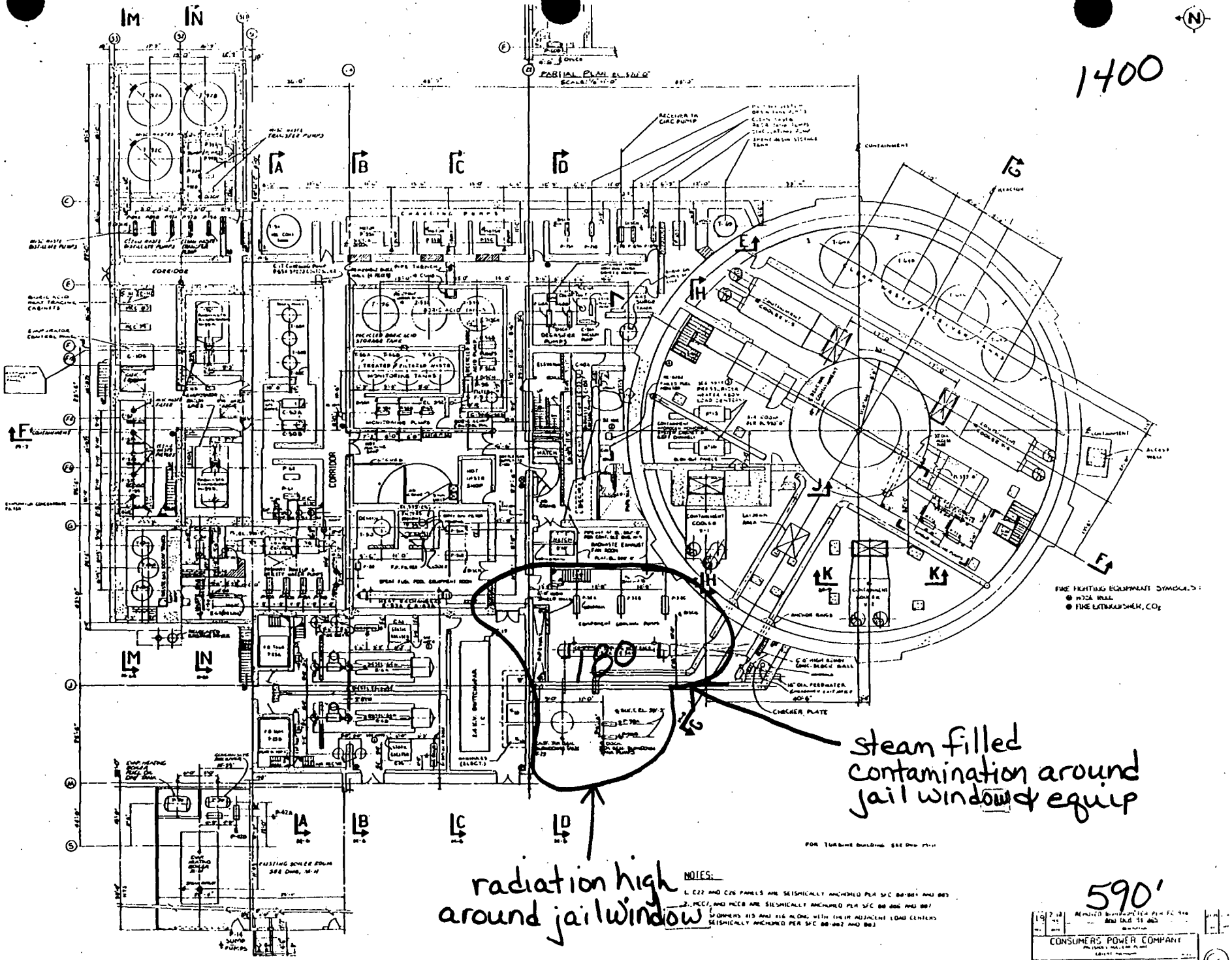
   Steam cloud coming out of jailhouse window. Vision poor. Steam being drawn out by roof exhauster up stair well and other penetrations.

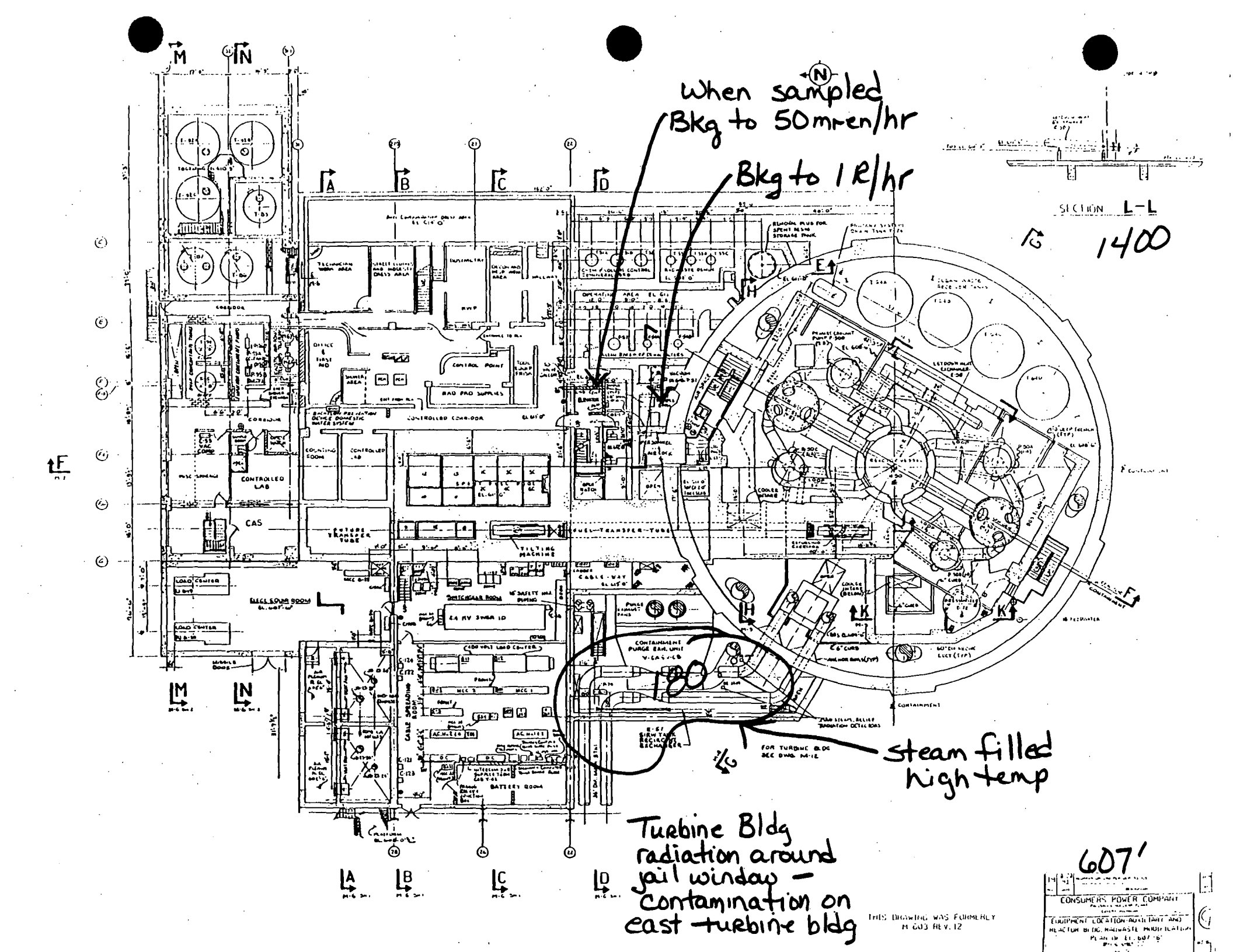
   * Use room reading ÷ 10 in plume

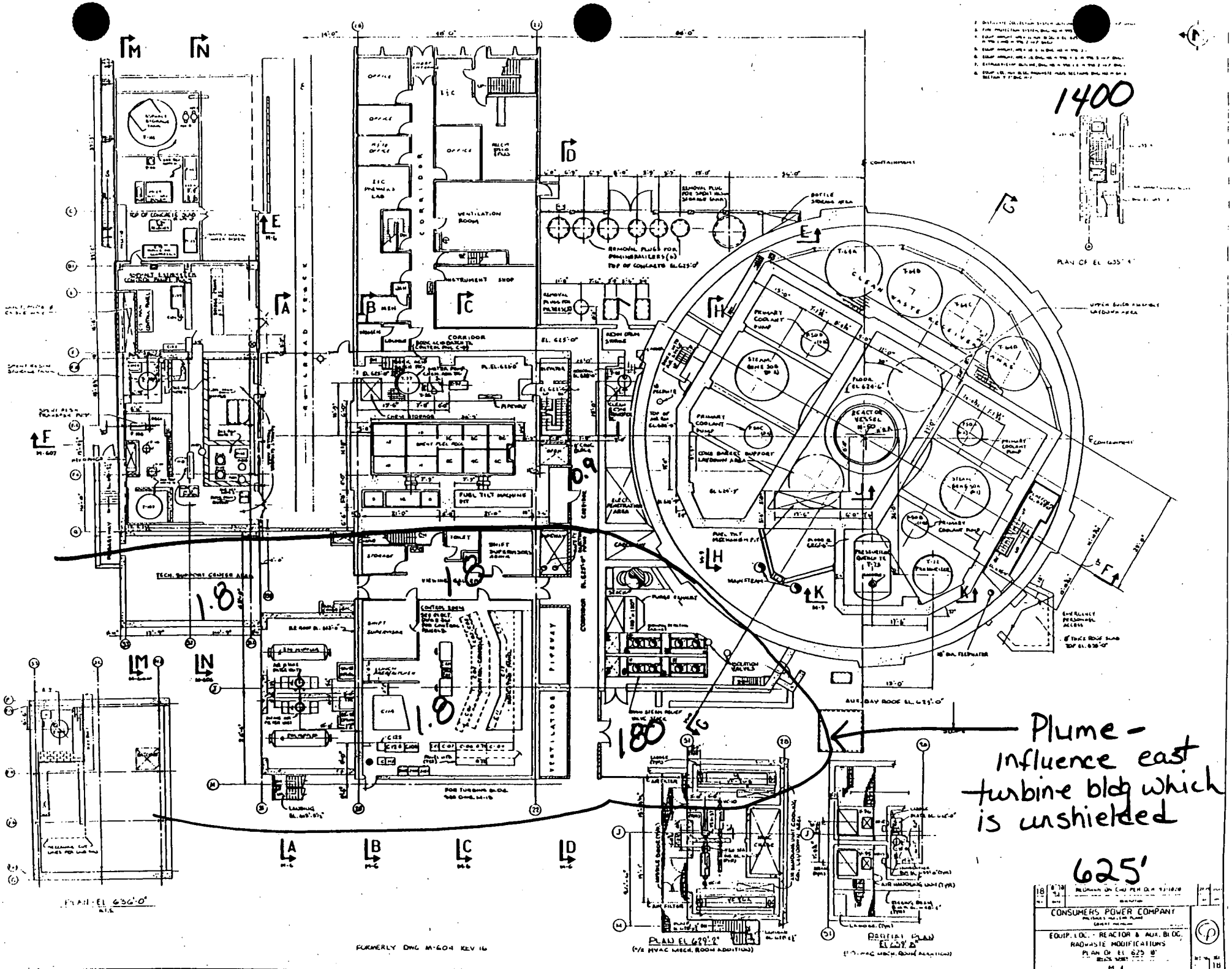
6. Return survey to Shift Supervisor.

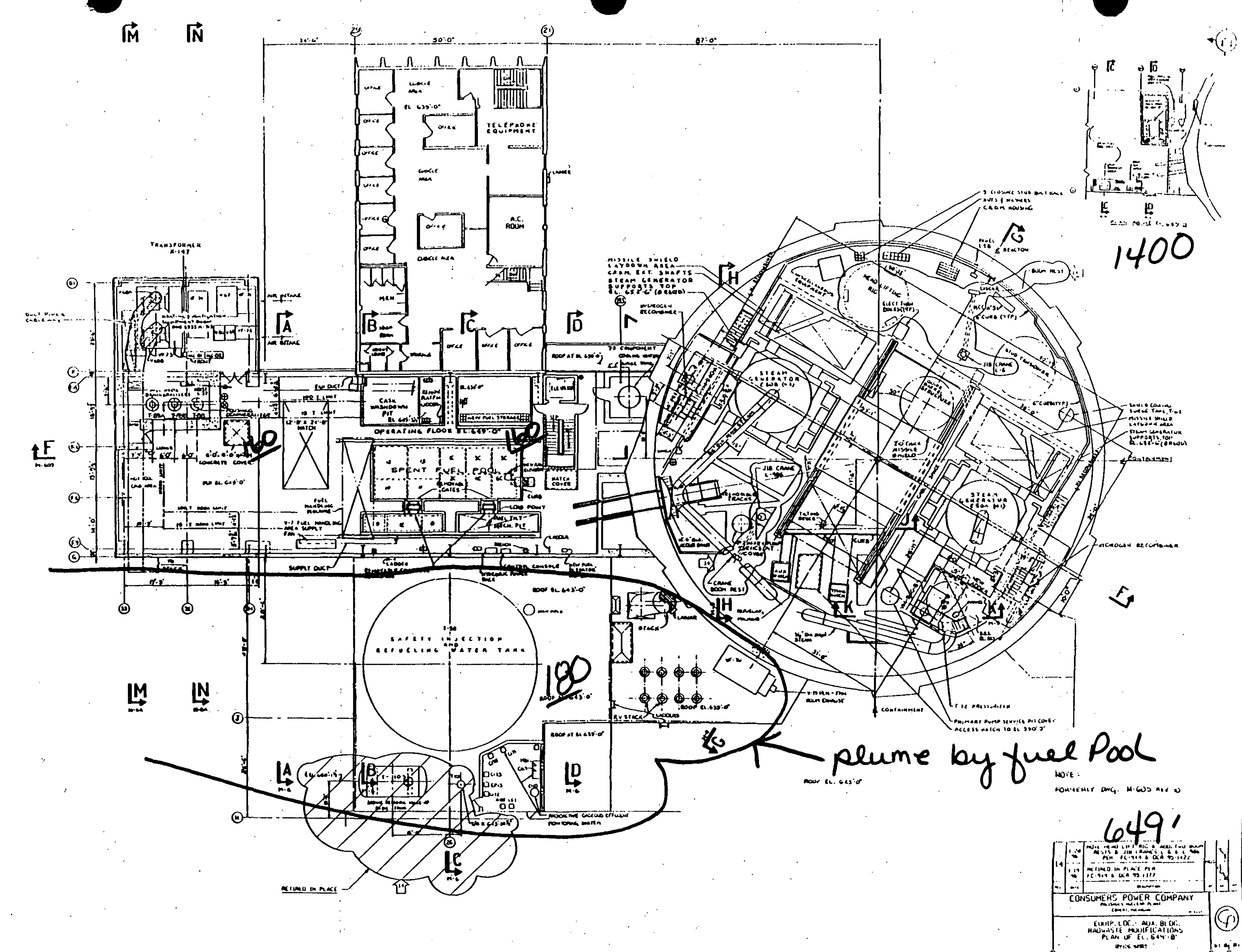
Completed By: _____

Reviewed By: _____ (SS)


1400
1380
590'
steam filled contamination around jail window & equip
radiation high around jail window
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION - AUX BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL. 590' 0"
M-2


When sampled
Bkg to 50 mrem/hr
Bkg to 1 R/hr
SECTION L-L
G 1400
180
steam filled
high temp
Turbine Bldg
radiation around
jail window —
contamination on
east turbine bldg
607'
CONSUMERS POWER COMPANY
EQUIPMENT LOCATION PLAN (PART) AND
REACTOR BLDG. RADWASTE MODIFICATION
THIS DRAWING WAS FORMERLY
M 603 REV. 12


1400
PLAN OF EL 655'-0"
1.8
1.8
1.0
0.9
180
Plume - influence east turbine bldg which is unshielded
625'
PLAN EL 636'-0"
PLAN EL 629'-2"
(W/E HVAC MECH. ROOM ADDITION)
PARTIAL PLAN EL 629'-2"
(W/E HVAC MECH. ROOM ADDITION)
FORMERLY DWG M-604 REV 16
CONSUMERS POWER COMPANY
EQUIP. LOC. - REACTOR & AUX. BLDG.
RADWASTE MODIFICATIONS
PLAN OF EL 629'-2"
M-1

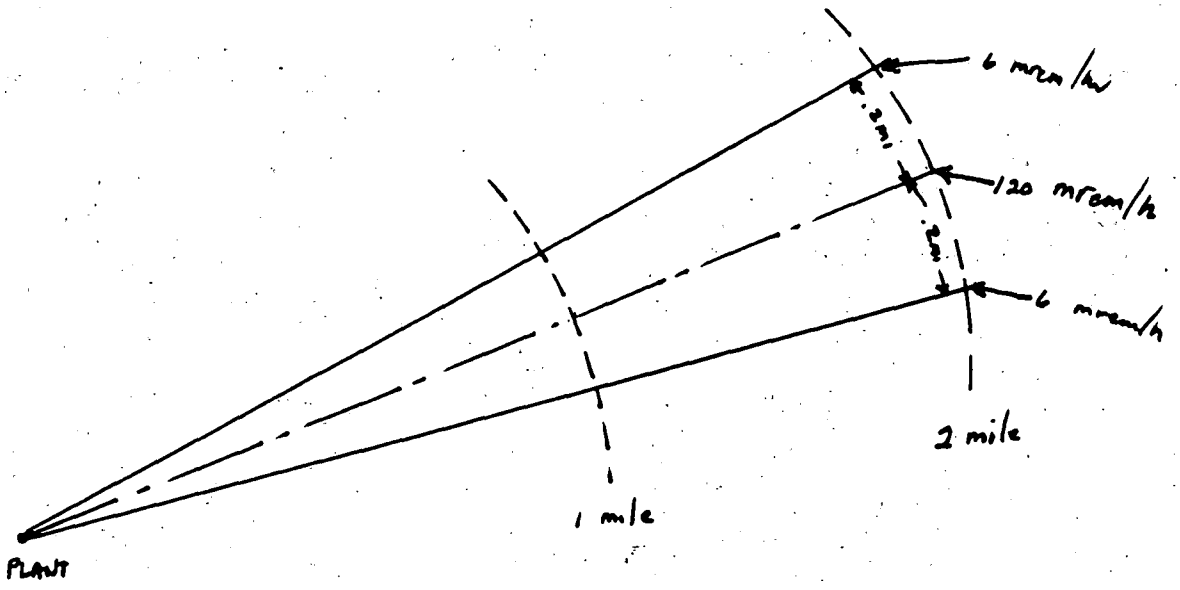

1400
SPENT FUEL POOL
OPERATING FLOOR EL. 649'-0"
160
160
SAFETY INJECTION AND REFUELING WATER TANK
180
TELEPHONE EQUIPMENT
A.C. ROOM
CASK WASHDOWN PIT
HATCH COVER
STEAM GENERATOR
JIB CRANE
CRANE BOOM REST
CONTAINMENT
HYDROGEN RECOMBINER
MISSILE SHIELD LAYDOWN AREA
TRANSFORMER
SUPPLY DUCT
RETIRED IN PLACE
plume by fuel Pool
NOTE:
FORMERLY DWG. M-605 REV 10
649'
CONSUMERS POWER COMPANY
EQUIP. LOC. - AUX. BLDG. RADWASTE MODIFICATIONS PLAN OF EL. 649'-0"

LEGEND AND CONTROLLERS NOTES

EXAMPLE

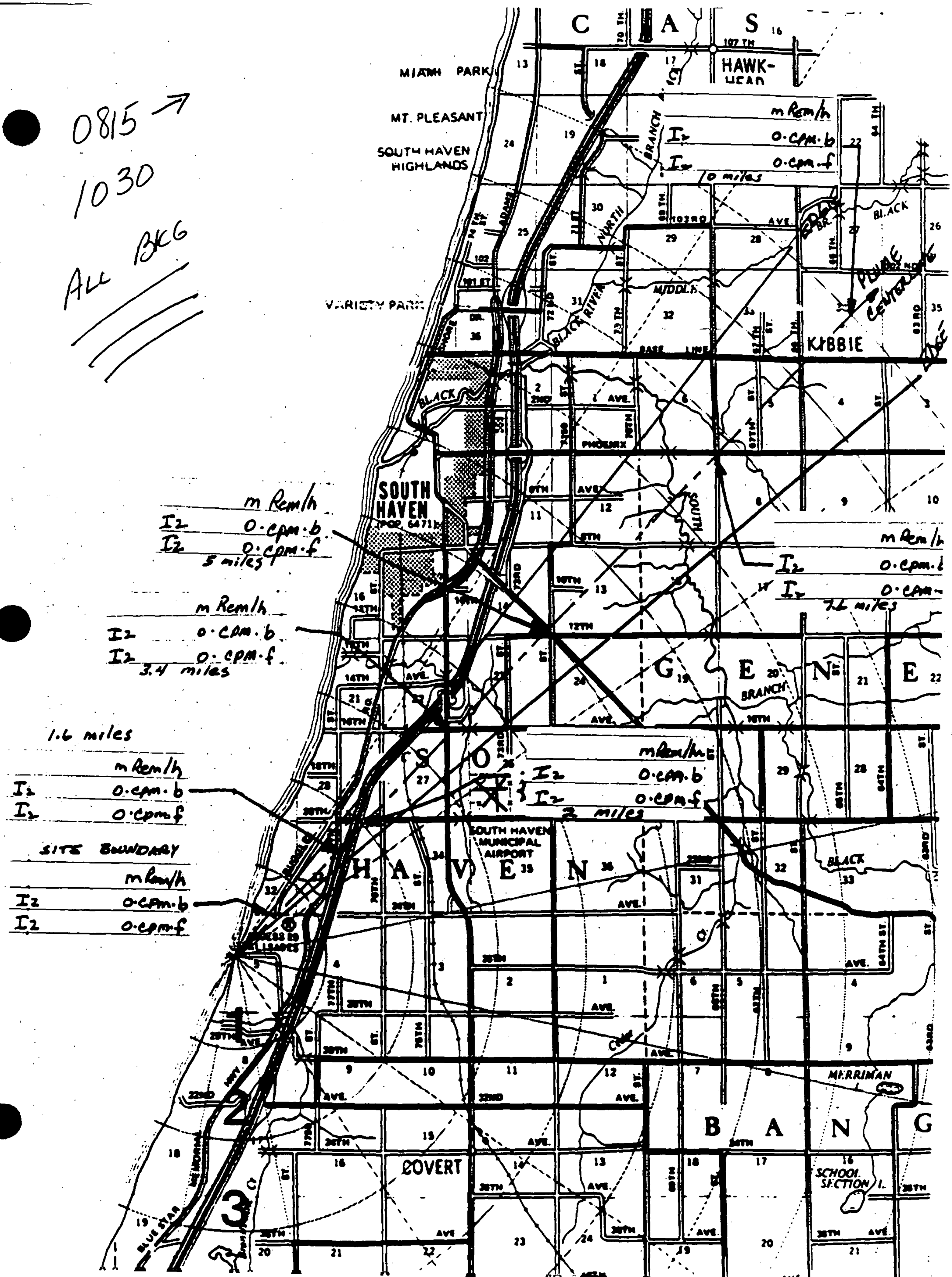
6-120-6 MREM\H
* I2 42K OCPM b
* I2 370K OCPM f

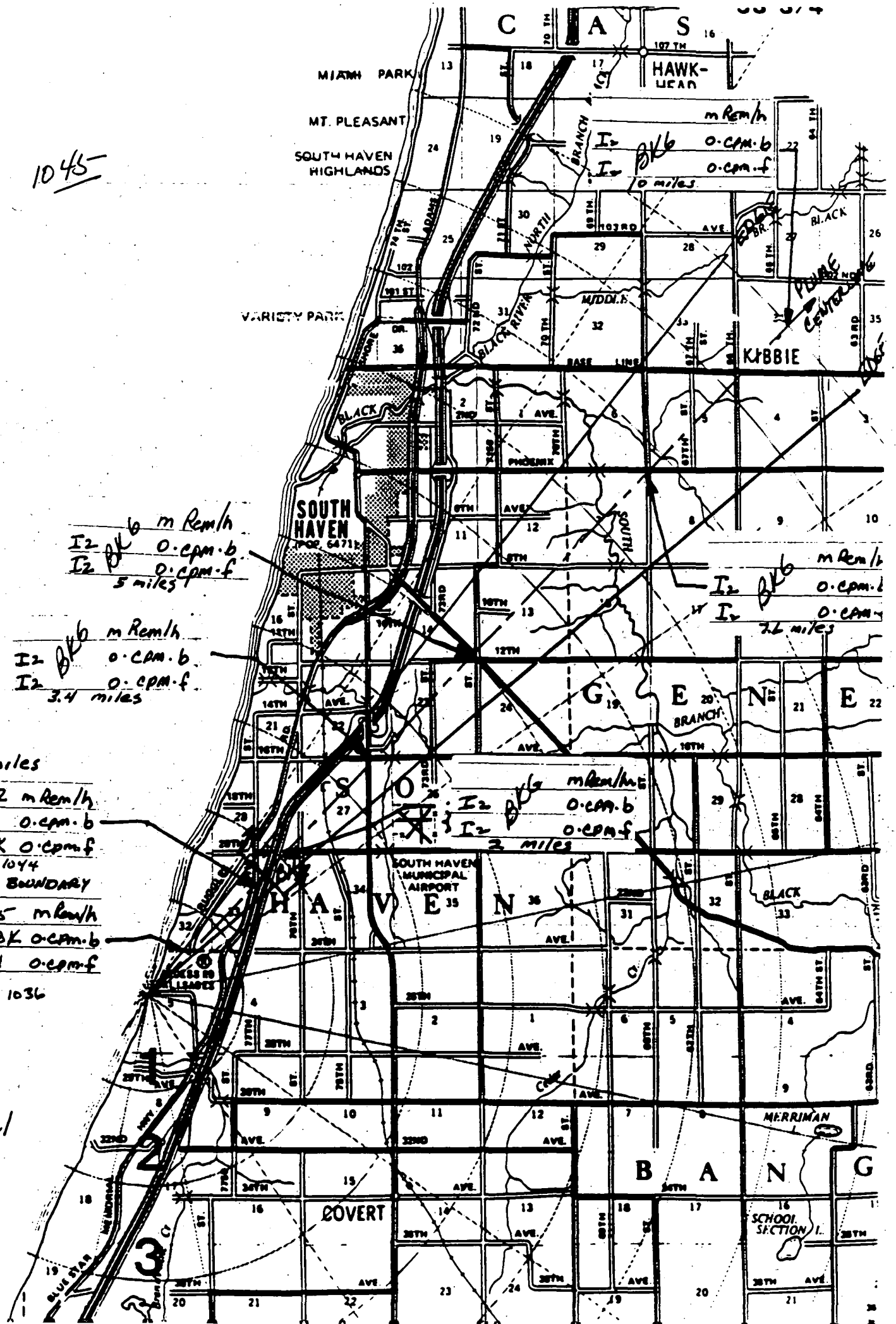
MREM\H ARE CLOSED WINDOW BETA\GAMMA READING AT THE EDGE, CENTERLINE AND EDGE OF THE PLUME. WIDTH OF PLUME IS 0.1 X DISTANCE FROM PLANT ON EACH SIDE OF CENTERLINE.
FOR OPEN WINDOWS USE CLOSED WINDOW + 10% IN THE PLUME.

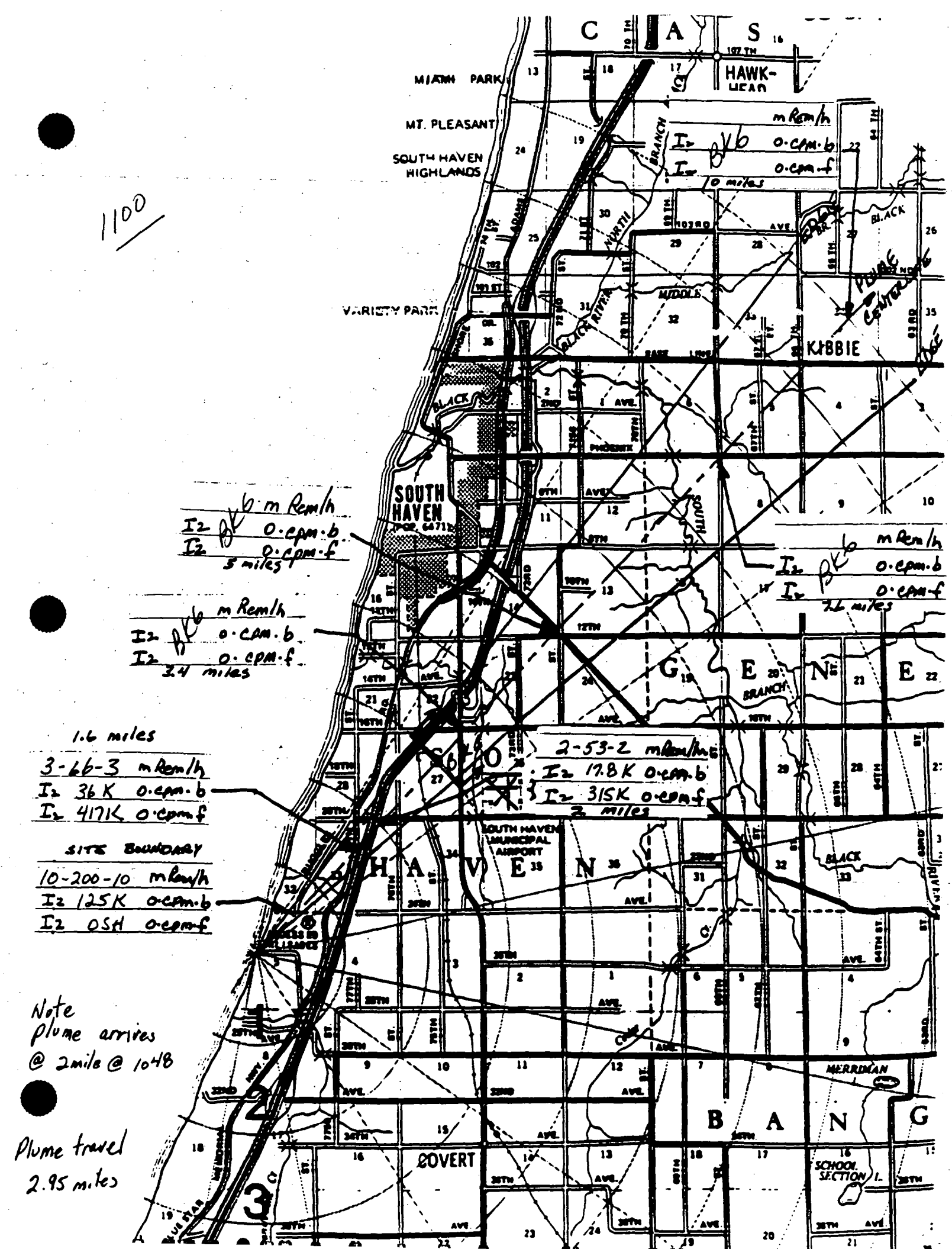


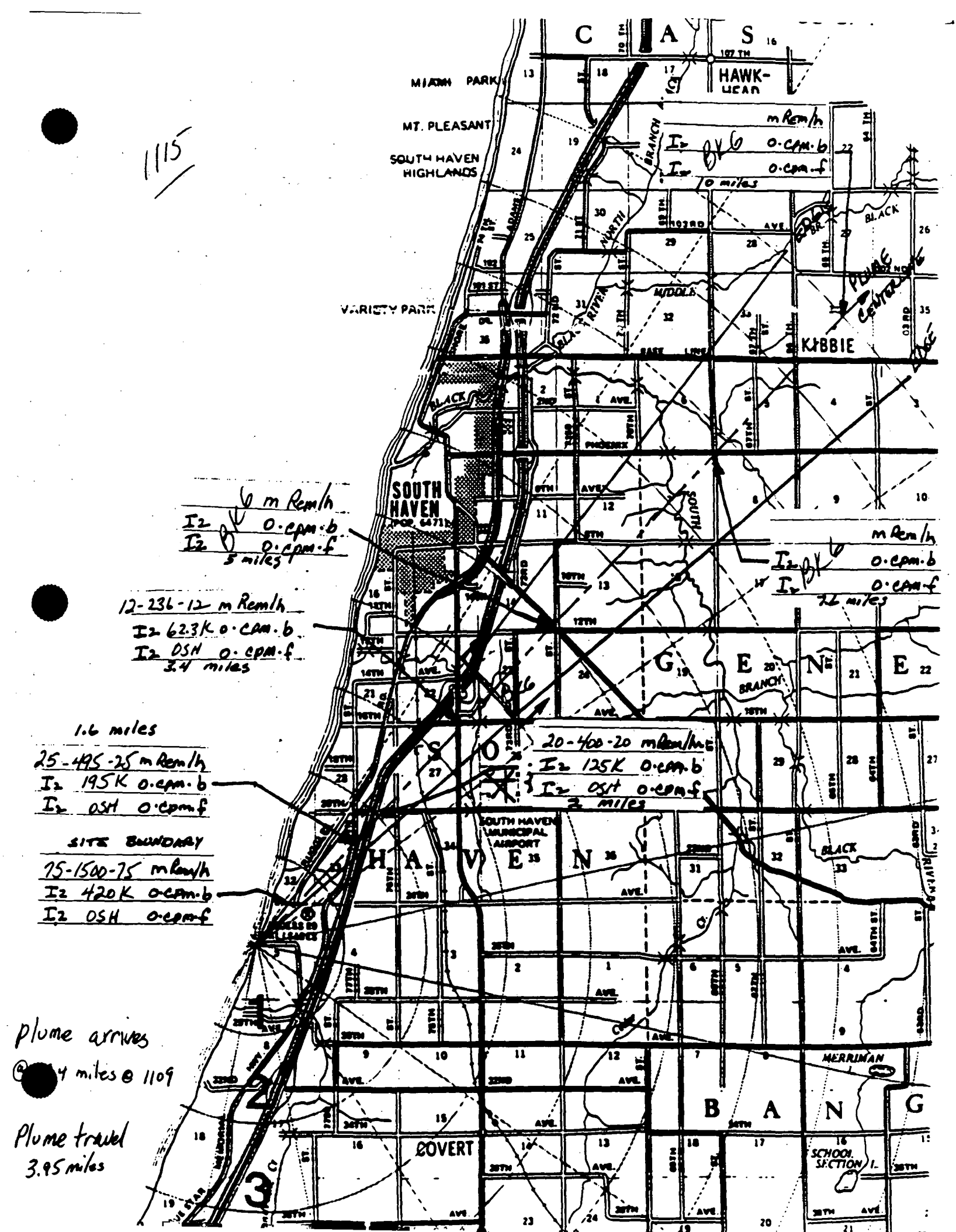
I2 42K OCPM b IS THE OBSERVED NET CPM FOR A 5 CFM AIR SAMPLE AT CENTERLINE OF PLUME ON THE BACK OF THE FILTER CARTRIDGE.
BACKGROUND WILL NEED TO BE ADDED. USE 0-8 HOUR DEFAULT VALUES FOR EFFICIENCIES INSTEAD OF THE TABLE.
I2 360K OCPM f IS THE OBSERVED NET CPM FOR SAME SAMPLE ON THE FRONT OF THE CARTRIDGE.
THE BACK OF FILTER CARTRIDGE IS THE PREFERRED METHOD.

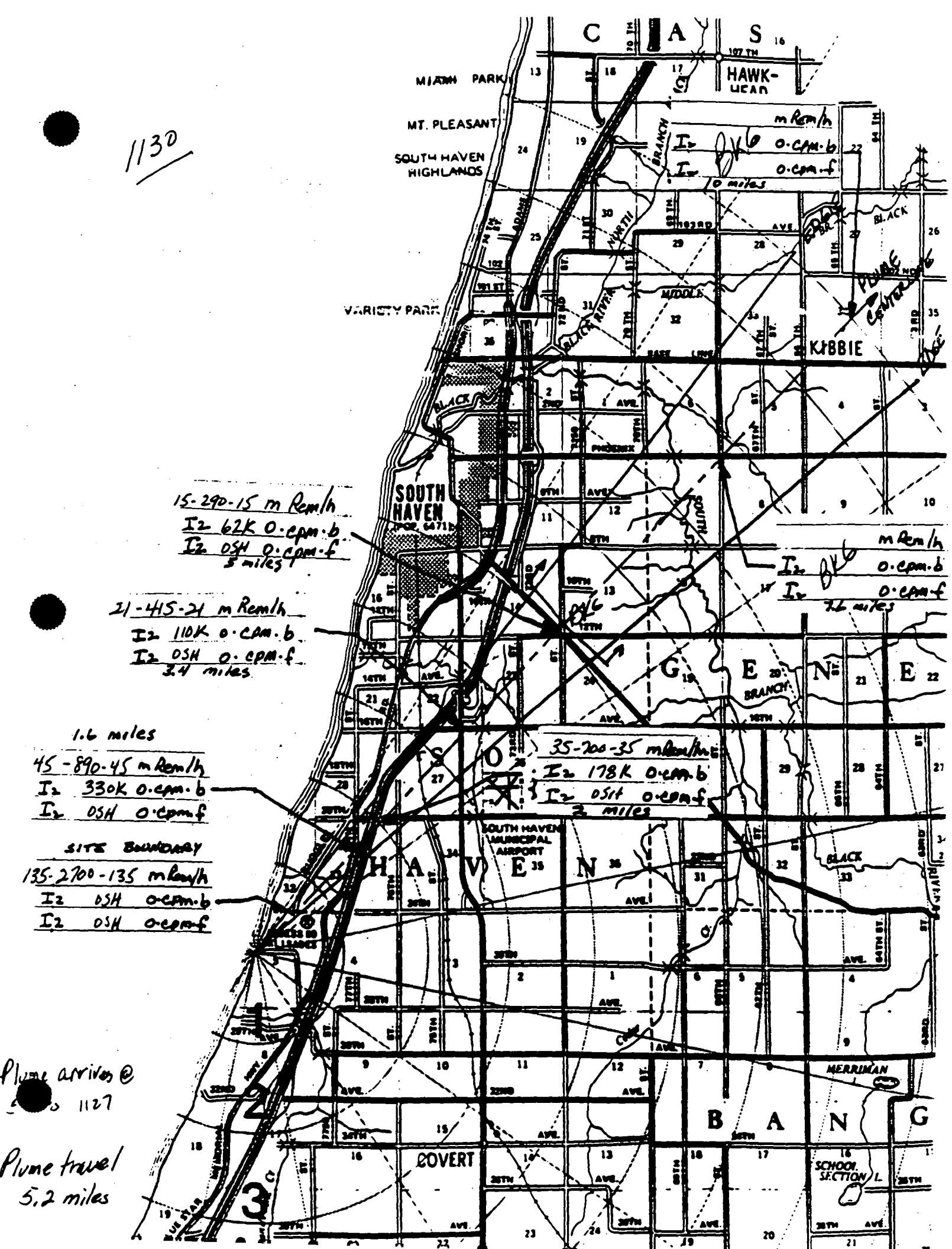
Divide I2 readings by 2

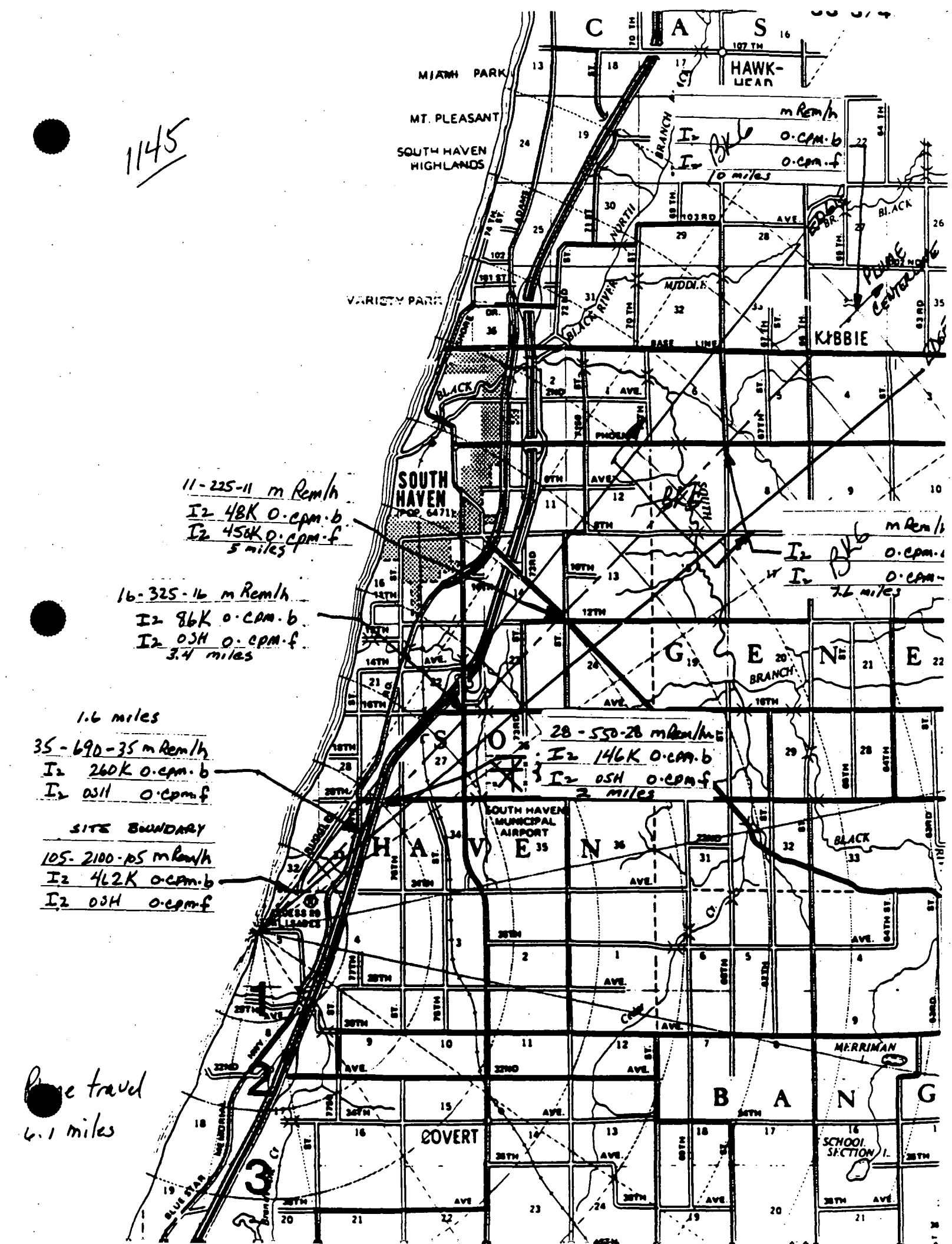

0815
1030
All BKG
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
SOUTH HAVEN
HAWKHEAD
KIBBIE
COVERT
SOUTH HAVEN MUNICIPAL AIRPORT
MERRIMAN
SCHOOL SECTION L.
BLACK
BLACK RIVER
MIDDLE
NORTH
SOUTH
BRANCH
C A S S
G E N E
S O
H A V E N
B A N G
PLUME CENTERLINE
m Rem/h
I2 0.cpm.b
I2 0.cpm.f
10 miles
m Rem/h
I2 0.cpm.b
I2 0.cpm.f
5 miles
m Rem/h
I2 0.cpm.b
I2 0.cpm.f
3.4 miles
m Rem/h
I2 0.cpm.b
I2 0.cpm.f
2 miles
m Rem/h
I2 0.cpm.b
I2 0.cpm.f
1.6 miles
m Rem/h
I2 0.cpm.b
I2 0.cpm.f
SITE BOUNDARY
m Rem/h
I2 0.cpm.b
I2 0.cpm.f

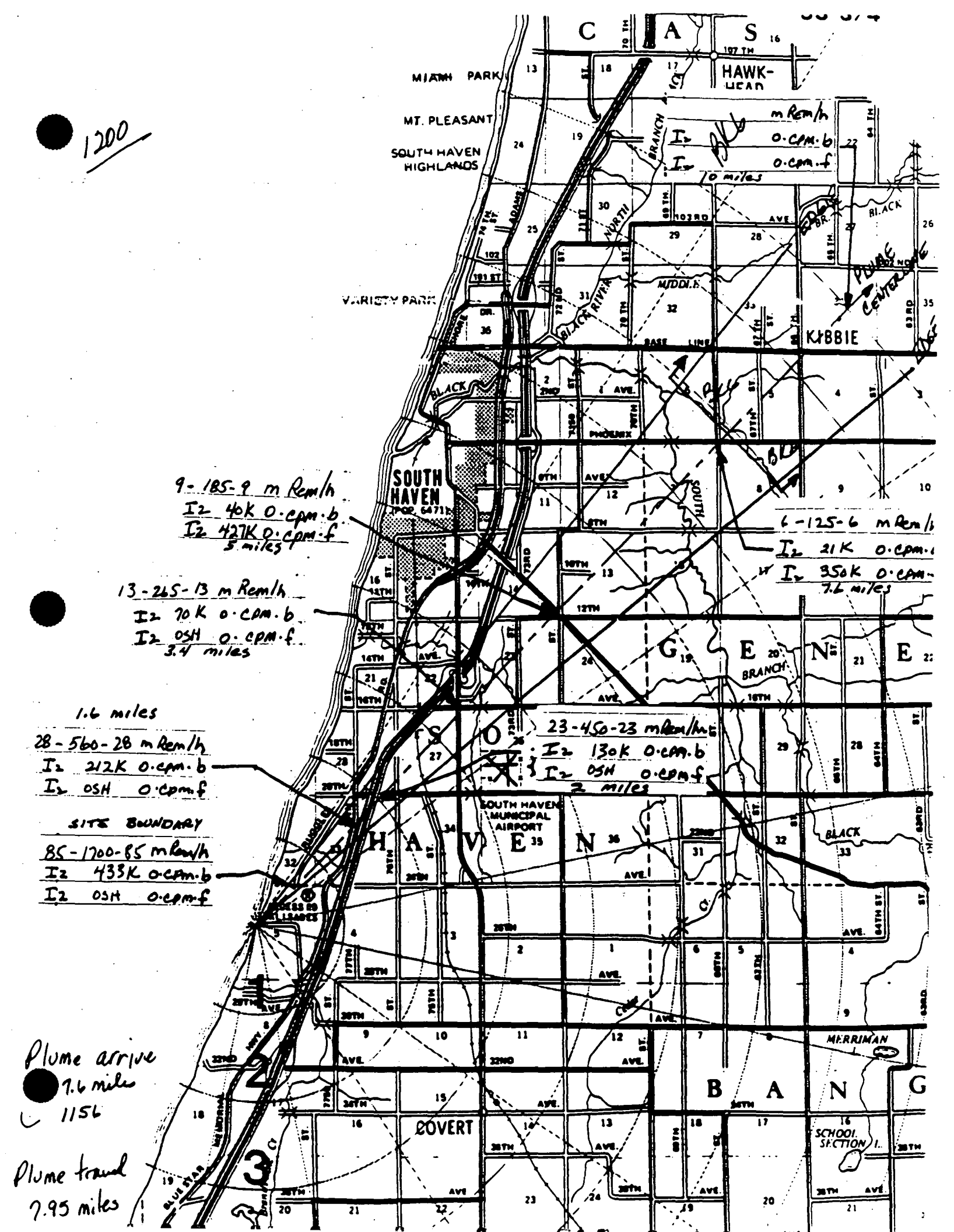

1045
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
SOUTH HAVEN
(POP. 6471)
KIBBIE
HAWK-
mRem/h
I2 BK 6 0·cpm·b
I2 0·cpm·f
0 miles
5 miles
3.4 miles
2.2 miles
3 miles
1.6 miles
2-33-2 mRem/h
I2 18K 0·cpm·b
I2 320K 0·cpm·f
arrive 1044
SITE BOUNDARY
5-100-5 mRem/h
I2 62.8K 0·cpm·b
I2 OSM 0·cpm·f
arrive @ 1036
plume travel
17 miles
SOUTH HAVEN MUNICIPAL AIRPORT
COVERT
MERRIMAN
SCHOOL SECTION
BLACK RIVER
BRANCH
PLUME CENTERLINE

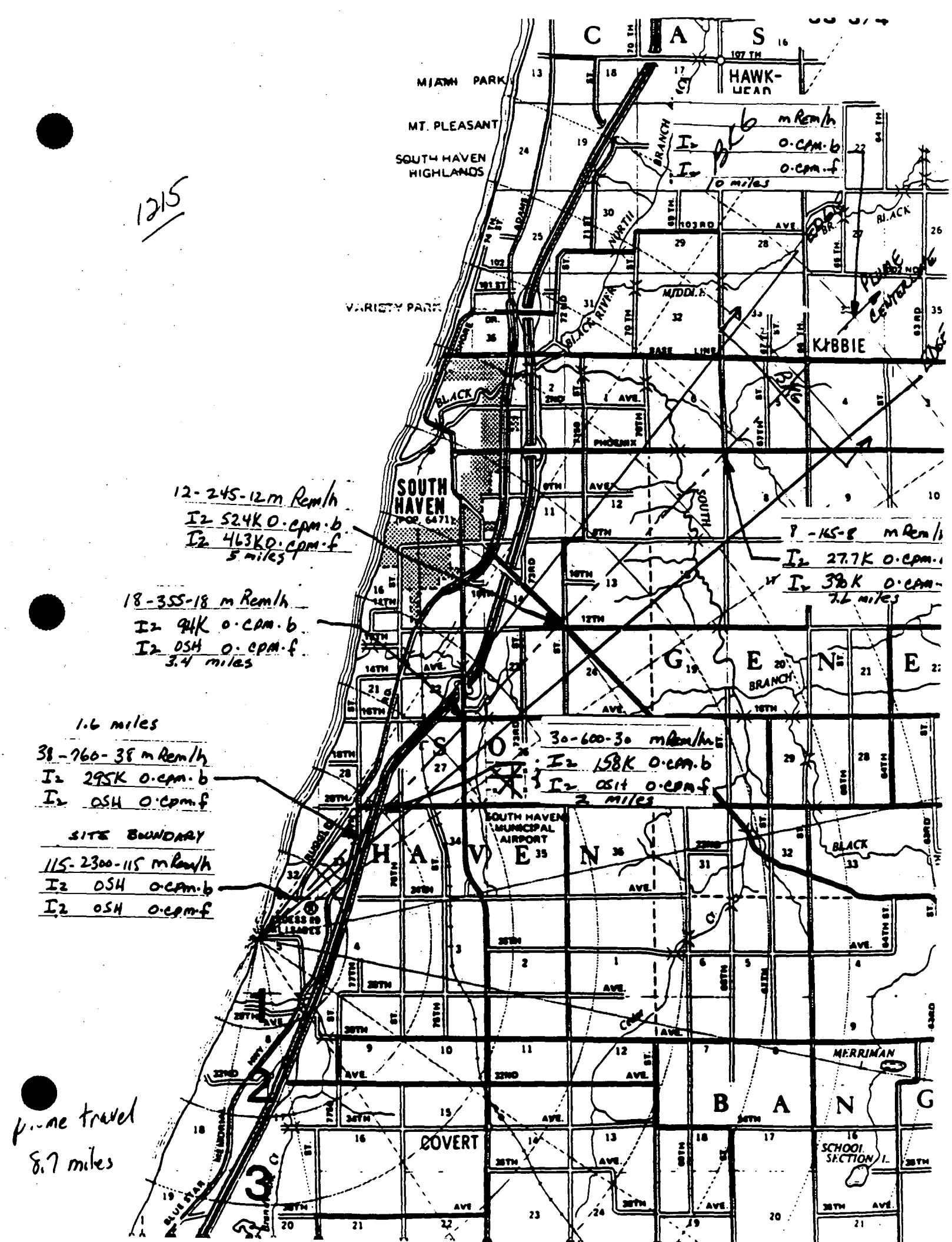

1100
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
SOUTH HAVEN
POP. 6471
KIBBIE
HAWK-
MEAN
BLACK
RIVER
PLUME CENTERLINE
SOUTH HAVEN MUNICIPAL AIRPORT
COVERT
MERRIMAN
SCHOOL SECTION
BLUE STAR
m Rem/h
I2 0.cpm.b
I2 0.cpm.f
5 miles
3.4 miles
7.2 miles
1.6 miles
3-66-3 m Rem/h
I2 36K 0.cpm.b
I2 417K 0.cpm.f
SITE BOUNDARY
10-200-10 m Rem/h
I2 125K 0.cpm.b
I2 OSH 0.cpm.f
2-53-2 m Rem/h
I2 17.8K 0.cpm.b
I2 315K 0.cpm.f
2 miles
Note
Plume arrives
@ 2mile @ 1048
Plume travel
2.95 miles


1115
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
HAWK-
mRem/h
I2 0·cpm·b
I2 0·cpm·f
10 miles
NORTH
BRANCH
BLACK
RIVER
MIDDLE
PLUME CENTERLINE
KIBBIE
SOUTH HAVEN
(POP. 6471)
SOUTH
6 mRem/h
I2 0·cpm·b
I2 0·cpm·f
5 miles
mRem/h
0·cpm·b
0·cpm·f
22 miles
12-236-12 mRem/h
I2 623K 0·cpm·b
I2 OSH 0·cpm·f
3.4 miles
GENEVA
BRANCH
1.6 miles
25-495-25 mRem/h
I2 195K 0·cpm·b
I2 OSH 0·cpm·f
SITE BOUNDARY
75-1500-75 mRem/h
I2 420K 0·cpm·b
I2 OSH 0·cpm·f
20-400-20 mRem/h
I2 125K 0·cpm·b
I2 OSH 0·cpm·f
2 miles
SOUTH HAVEN MUNICIPAL AIRPORT
HAVEN
BLACK
RIVER
MERRIMAN
BANG
COVERT
SCHOOL SECTION
plume arrives
@ 4 miles @ 1109
Plume travel
3.95 miles

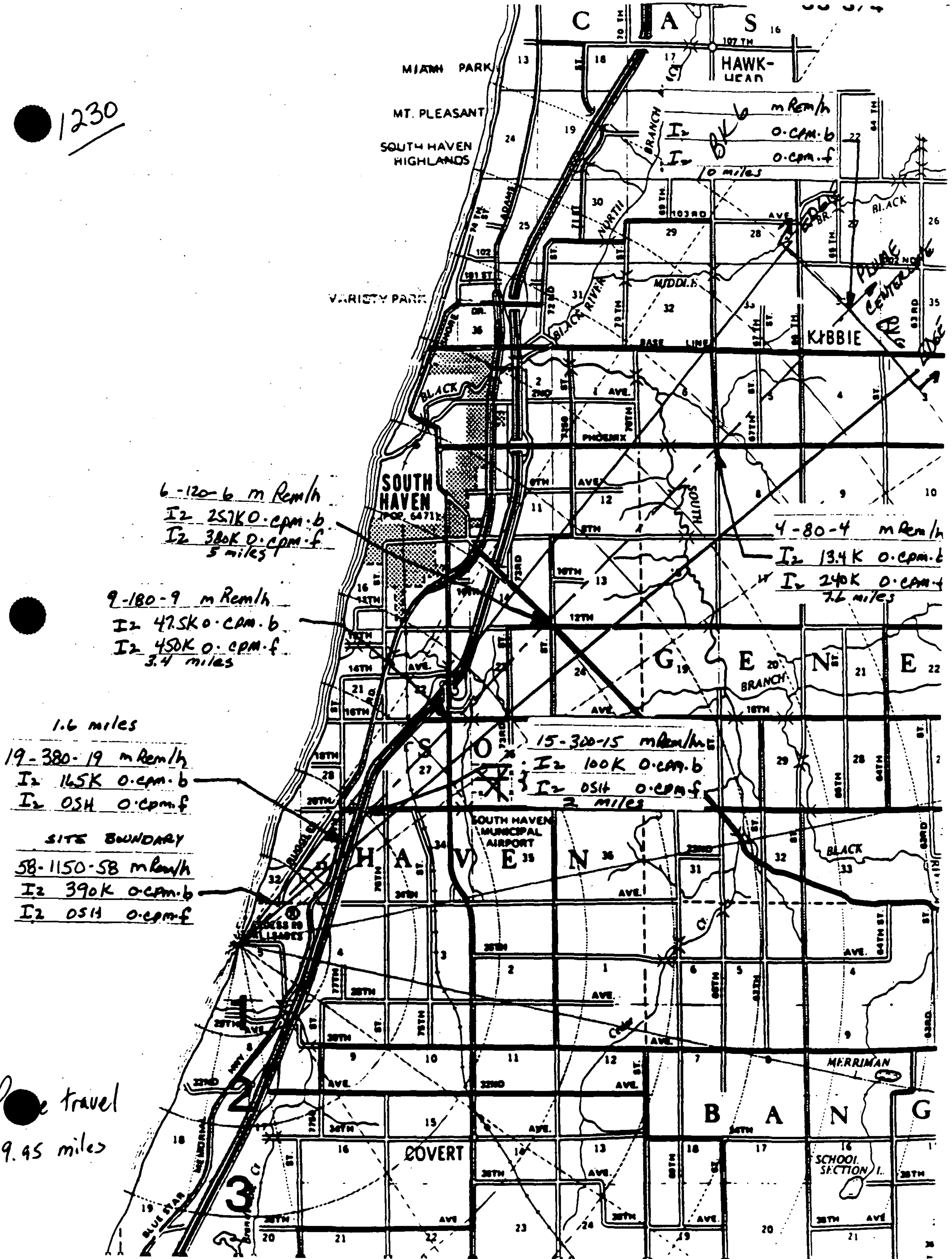

1130
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
HAWK-EAN
KIBBIE
SOUTH HAVEN
SOUTH HAVEN MUNICIPAL AIRPORT
COVERT
MERRIMAN
SCHOOL SECTION L.
BLACK
BRANCH
m Rem/h
I2 0·cpm·b
I2 0·cpm·f
10 miles
15-290-15 m Rem/h
I2 62K 0·cpm·b
I2 OSH 0·cpm·f
5 miles
21-415-21 m Rem/h
I2 110K 0·cpm·b
I2 OSH 0·cpm·f
3.4 miles
1.6 miles
45-890-45 m Rem/h
I2 330K 0·cpm·b
I2 OSH 0·cpm·f
SITE BOUNDARY
135-2700-135 m Rem/h
I2 OSH 0·cpm·b
I2 OSH 0·cpm·f
35-700-35 m Rem/h
I2 178K 0·cpm·b
I2 OSH 0·cpm·f
2 miles
7.2 miles
Plume arrives @ 1127
Plume travel 5.2 miles


1145
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
SOUTH HAVEN
POP. 6471
KIBBIE
HAWK-
mRem/h
I2 0·cpm·b
I2 0·cpm·f
0 miles
11-225-11 m Rem/h
I2 48K 0·cpm·b
I2 45aK 0·cpm·f
5 miles
16-325-16 m Rem/h
I2 86K 0·cpm·b
I2 05H 0·cpm·f
3.4 miles
1.6 miles
35-690-35 m Rem/h
I2 260K 0·cpm·b
I2 0511 0·cpm·f
SITE BOUNDARY
105-2100-105 m Rem/h
I2 462K 0·cpm·b
I2 05H 0·cpm·f
28-550-28 m Rem/h
I2 146K 0·cpm·b
I2 05H 0·cpm·f
2 miles
7.6 miles
SOUTH HAVEN MUNICIPAL AIRPORT
COVERT
MERRIMAN
SCHOOL SECTION
BLACK RIVER
BRANCH
Pipe travel
4.1 miles

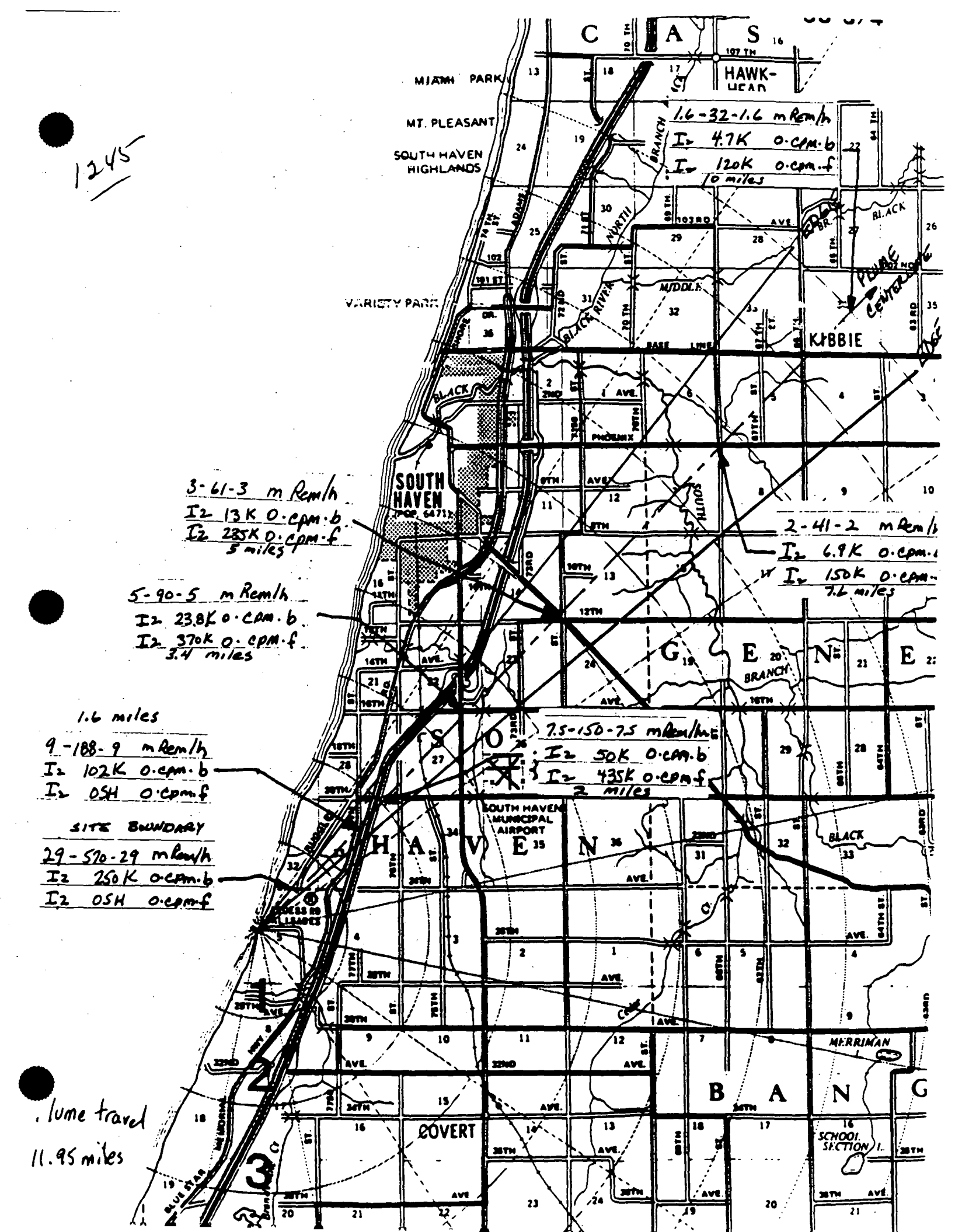

1200
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
SOUTH HAVEN
POP. 6471
KIBBIE
HAWK-
mRem/h
I2 0·cpm·b
I2 0·cpm·f
10 miles
9 - 185 - 9 m Rem/h
I2 40K 0·cpm·b
I2 427K 0·cpm·f
5 miles
13 - 245 - 13 m Rem/h
I2 70K 0·cpm·b
I2 OSH 0·cpm·f
3.4 miles
1.6 miles
28 - 560 - 28 m Rem/h
I2 212K 0·cpm·b
I2 OSH 0·cpm·f
SITE BOUNDARY
85 - 1700 - 85 m Rem/h
I2 433K 0·cpm·b
I2 OSH 0·cpm·f
6 - 125 - 6 m Rem/h
I2 21K 0·cpm·
I2 350K 0·cpm·
7.6 miles
23 - 450 - 23 mRem/hr
I2 130K 0·cpm·b
I2 OSH 0·cpm·f
2 miles
SOUTH HAVEN MUNICIPAL AIRPORT
COVERT
MERRIMAN
SCHOOL SECTION 1
Plume arrive
7.6 miles
1156
Plume travel
7.95 miles

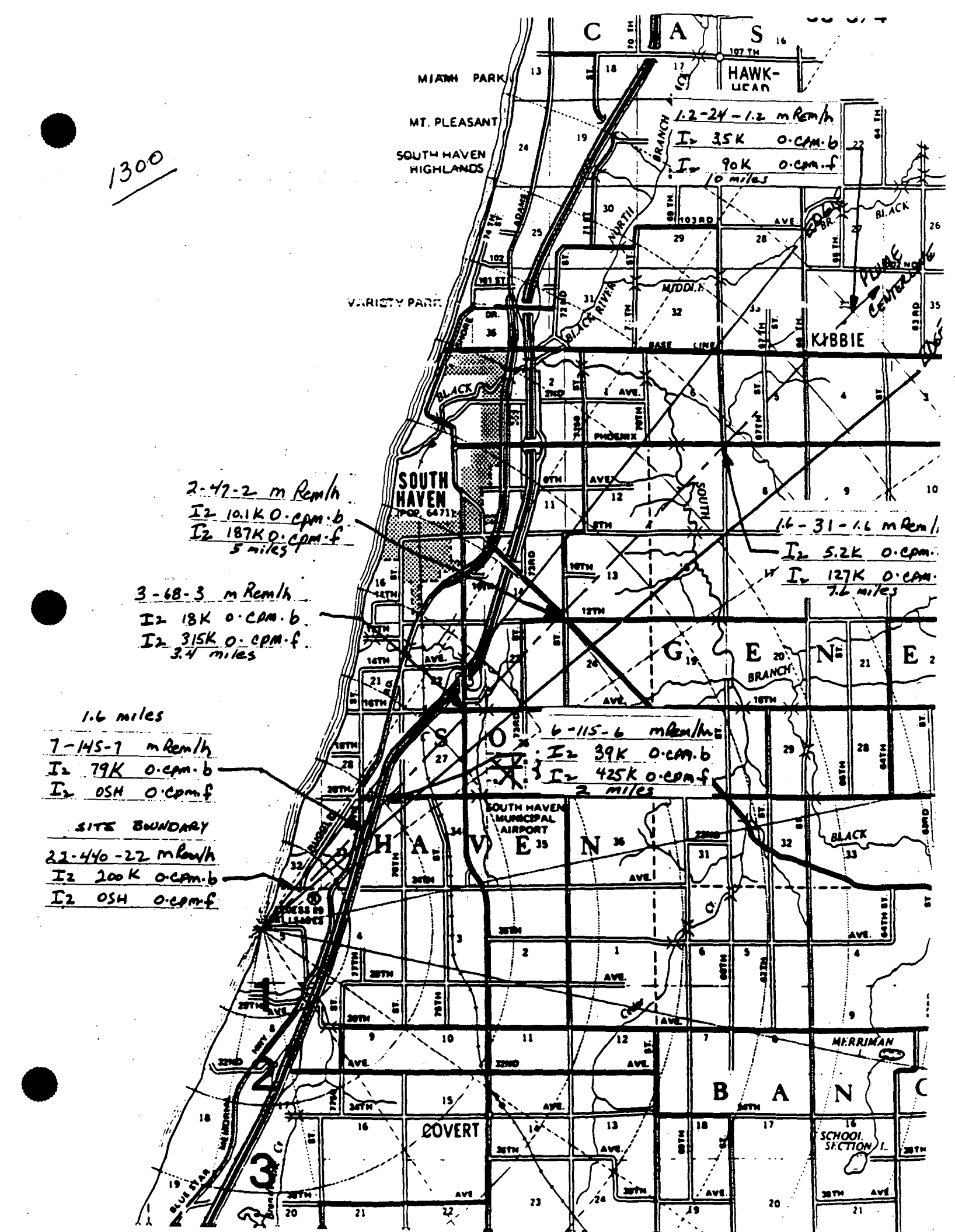

1215
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARSITY PARK
SOUTH HAVEN
(POP. 6471)
KIBBIE
HAWK-
6 mRem/h
I2 0.cpm.b
I2 0.cpm.f
0 miles
12-245-12 m Rem/h
I2 524K 0.cpm.b
I2 463K 0.cpm.f
5 miles
18-355-18 m Rem/h
I2 94K 0.cpm.b
I2 OSH 0.cpm.f
3.4 miles
1.6 miles
38-760-38 m Rem/h
I2 295K 0.cpm.b
I2 OSH 0.cpm.f
SITE BOUNDARY
115-2300-115 m Rem/h
I2 OSH 0.cpm.b
I2 OSH 0.cpm.f
8-165-8 m Rem/h
I2 27.7K 0.cpm.
I2 38K 0.cpm.
7.2 miles
30-600-30 m Rem/h
I2 158K 0.cpm.b
I2 OSH 0.cpm.f
2 miles
SOUTH HAVEN MUNICIPAL AIRPORT
COVERT
MERRIMAN
SCHOOL SECTION
BRANCH
BLACK RIVER
PUMP
CENTERLINE
time travel
8.7 miles

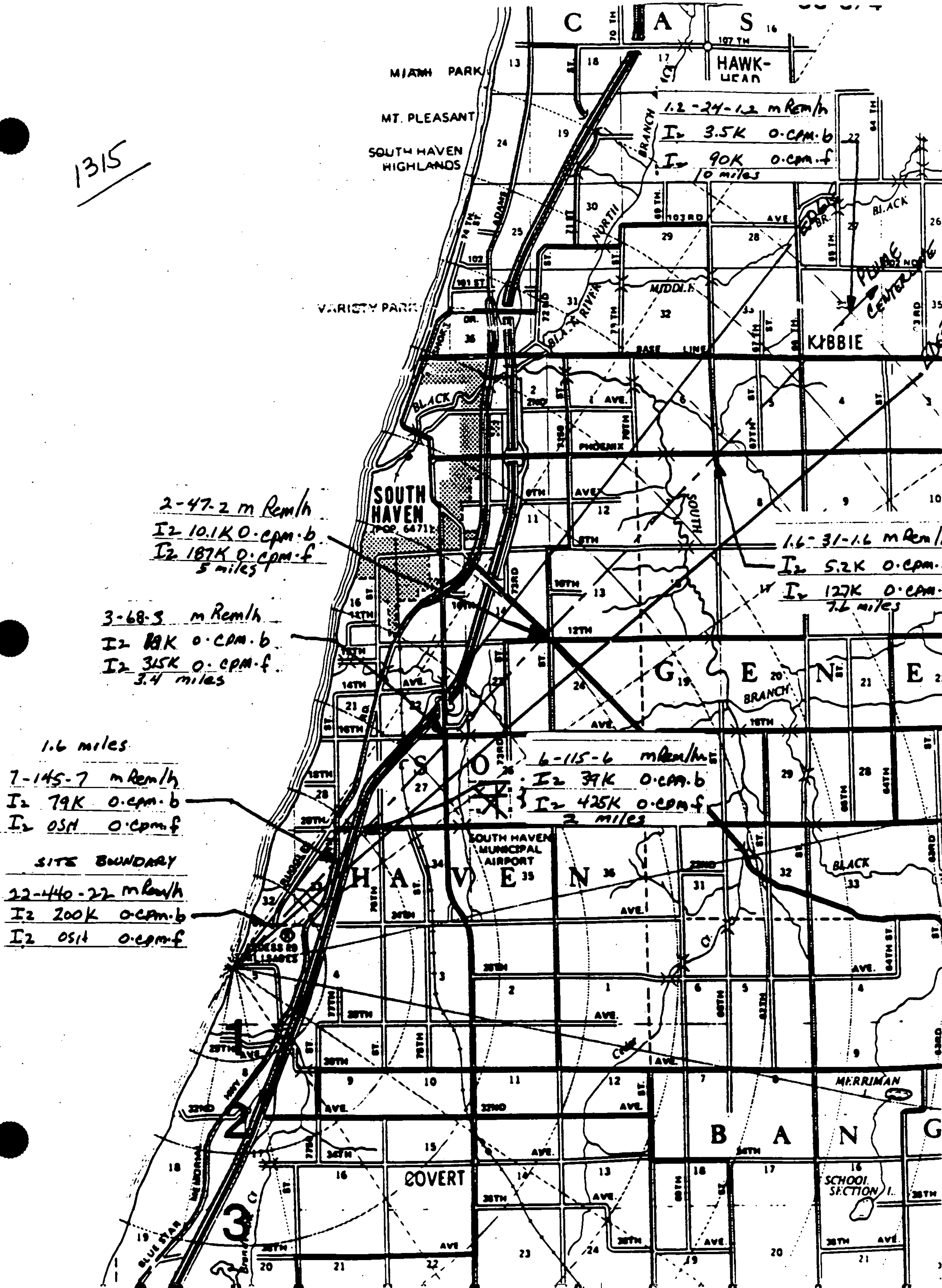
1230

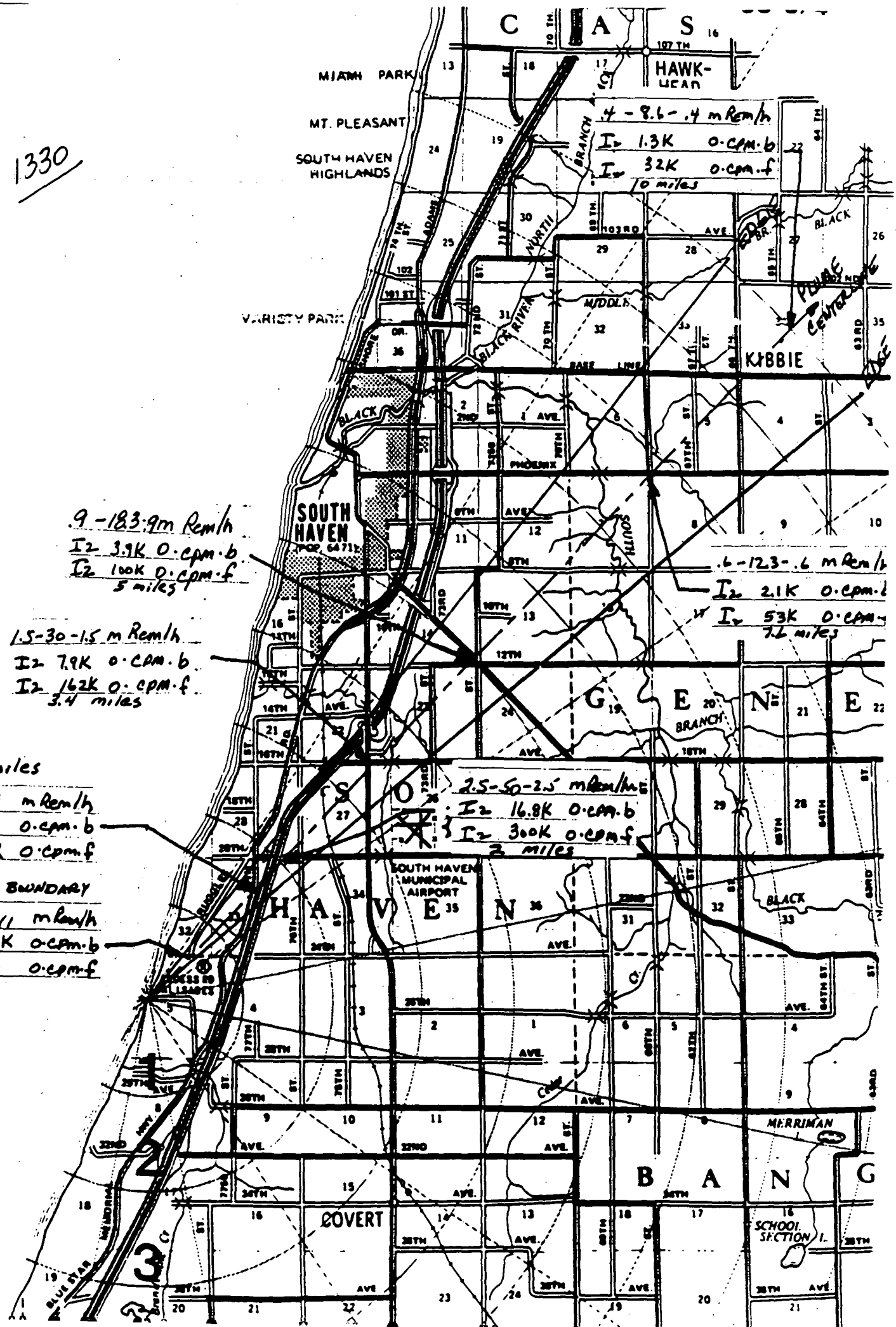


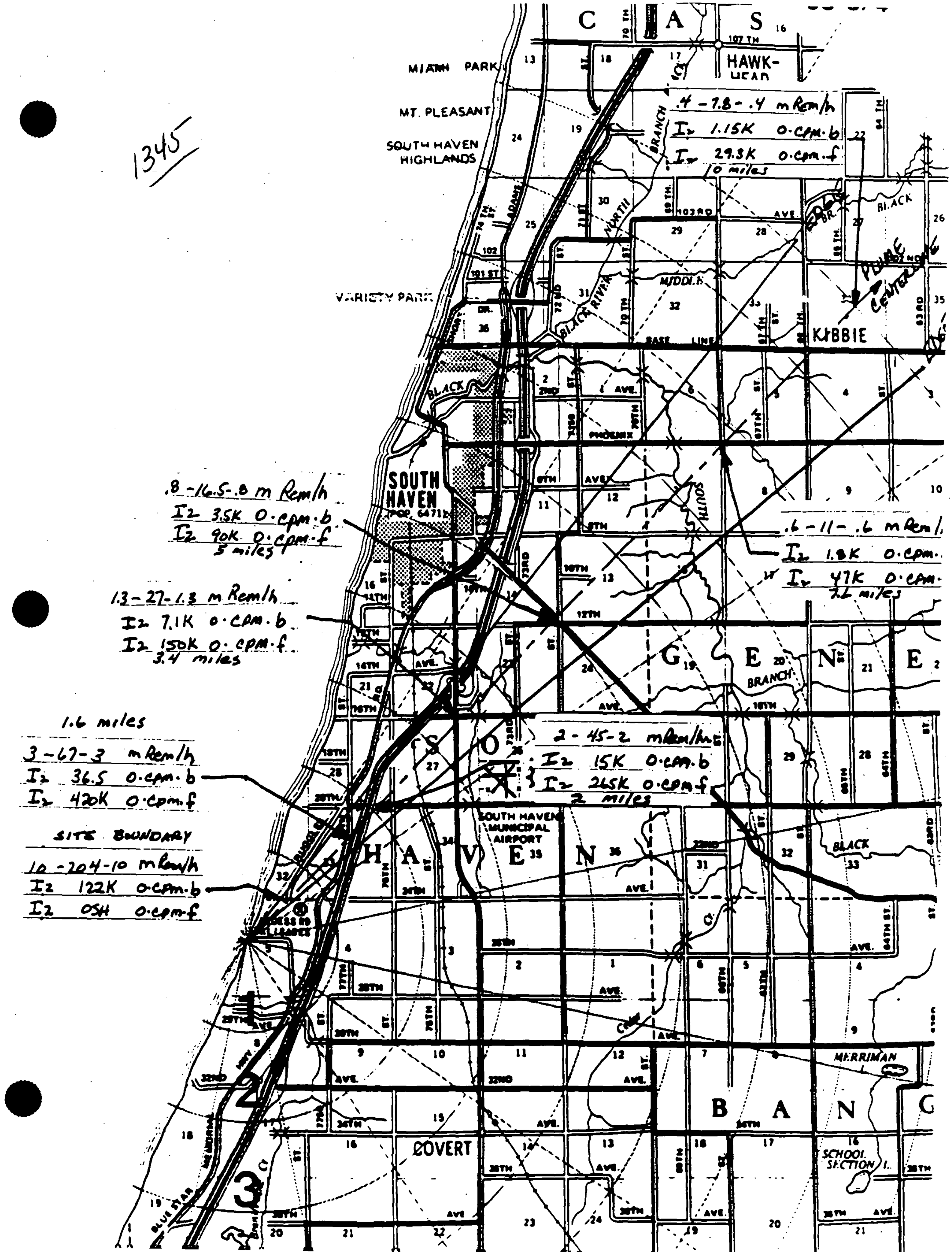
Plume travel
9.45 miles


1245
1.6-32-1.6 m Rem/h
I2 4.7K 0·cpm·b
I2 120K 0·cpm·f
10 miles
3-61-3 m Rem/h
I2 13K 0·cpm·b
I2 235K 0·cpm·f
5 miles
5-90-5 m Rem/h
I2 23.8K 0·cpm·b
I2 370K 0·cpm·f
3.4 miles
2-41-2 m Rem/h
I2 6.9K 0·cpm·
I2 150K 0·cpm·
7.6 miles
1.6 miles
9-188-9 m Rem/h
I2 102K 0·cpm·b
I2 OSH 0·cpm·f
7.5-150-7.5 m Rem/h
I2 50K 0·cpm·b
I2 435K 0·cpm·f
2 miles
SITE BOUNDARY
29-570-29 m Rem/h
I2 250K 0·cpm·b
I2 OSH 0·cpm·f
plume travel
11.95 miles
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
SOUTH HAVEN
Pop 6471
KIBBIE
COVERT
MERRIMAN
SOUTH HAVEN MUNICIPAL AIRPORT
BLACK RIVER
BRANCH
PLUME CENTERLINE

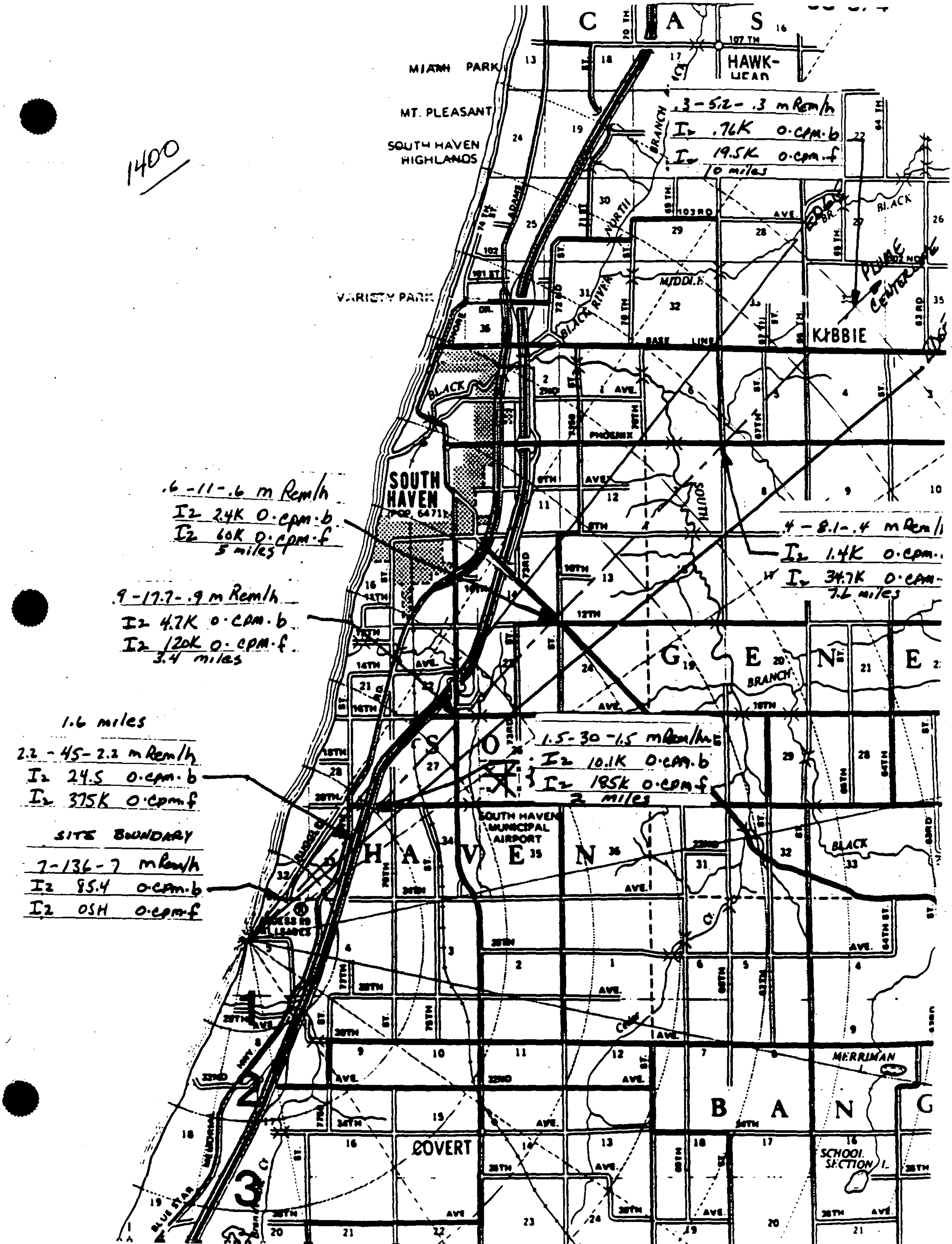

1300
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
HAWK-HEAD
1.2-24-1.2 mRem/h
I2 3.5K 0.cpm.b
I2 90K 0.cpm.f
10 miles
KIBBIE
SOUTH HAVEN
POP. 6471
2-47-2 m Rem/h
I2 10.1K 0.cpm.b
I2 187K 0.cpm.f
5 miles
3-68-3 m Rem/h
I2 18K 0.cpm.b
I2 315K 0.cpm.f
3.4 miles
1.6-31-1.6 mRem/
I2 5.2K 0.cpm.
I2 127K 0.cpm.
7.2 miles
1.6 miles
7-145-7 mRem/h
I2 79K 0.cpm.b
I2 OSH 0.cpm.f
SITE BOUNDARY
22-440-22 mRem/h
I2 200K 0.cpm.b
I2 OSH 0.cpm.f
6-115-6 mRem/h
I2 39K 0.cpm.b
I2 425K 0.cpm.f
2 miles
SOUTH HAVEN MUNICIPAL AIRPORT
COVERT
MERRIMAN
SCHOOL SECTION I.
BLUE STAR
BLACK RIVER
BRANCH


1315
2-47-2 m Rem/h
I2 10.1K O·cpm·b
I2 187K O·cpm·f
5 miles
3-68-3 m Rem/h
I2 0·cpm·b
I2 315K 0·cpm·f
3.4 miles
1.6 miles
7-145-7 m Rem/h
I2 79K 0·cpm·b
I2 0.5M 0·cpm·f
SITE BOUNDARY
22-440-22 m Rem/h
I2 200K 0·cpm·b
I2 0.5M 0·cpm·f
1.2-24-1.2 m Rem/h
I2 3.5K 0·cpm·b
I2 90K 0·cpm·f
10 miles
PLUME CENTER
1.6-31-1.6 m Rem/h
I2 5.2K 0·cpm
I2 127K 0·cpm
7.6 miles
6-115-6 m Rem/h
I2 39K 0·cpm·b
I2 425K 0·cpm·f
2 miles
CASS
HAWK-HEAD
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
KIBBIE
SOUTH HAVEN
POP. 6471
GENEVA
SOUTH HAVEN
SOUTH HAVEN MUNICIPAL AIRPORT
BLACK
BANGOR
COVERT
MERRIMAN
SCHOOL SECTION L.
BLUE STAR MEMORIAL
BASE LINE
PHOENIX
MIDDLE
NORTH
BRANCH
1
2
3


1330
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
SOUTH HAVEN
(POP. 6471)
KIBBIE
HAWK-HEAD
COVERT
MERRIMAN
SCHOOL SECTION
SOUTH HAVEN MUNICIPAL AIRPORT
BLACK RIVER
BRANCH
.4 - 8.6 - .4 m Rem/h
I2 1.3K 0·cpm·b
I2 32K 0·cpm·f
10 miles
.9 - 183.9m Rem/h
I2 3.9K 0·cpm·b
I2 100K 0·cpm·f
5 miles
.6 - 12.3 - .6 m Rem/h
I2 2.1K 0·cpm·b
I2 53K 0·cpm·f
7.1 miles
1.5 - 30 - 1.5 m Rem/h
I2 7.9K 0·cpm·b
I2 162K 0·cpm·f
3.4 miles
2.5 - 50 - 2.5 m Rem/h
I2 16.8K 0·cpm·b
I2 300K 0·cpm·f
2 miles
1.6 miles
4 - 75 - 4 m Rem/h
I2 40.9 0·cpm·b
I2 430K 0·cpm·f
SITE BOUNDARY
11 - 226 - 11 m Rem/h
I2 132K 0·cpm·b
I2 OSH 0·cpm·f


1345
.4 - 7.8 - .4 m Rem/h
I2 1.15K 0·cpm·b
I2 29.3K 0·cpm·f
10 miles
.8 - 16.5 - .8 m Rem/h
I2 3.5K 0·cpm·b
I2 90K 0·cpm·f
5 miles
.6 - 11 - .6 m Rem/h
I2 1.8K 0·cpm·
I2 47K 0·cpm·
7.2 miles
1.3 - 27 - 1.3 m Rem/h
I2 7.1K 0·cpm·b
I2 150K 0·cpm·f
3.4 miles
1.6 miles
3 - 67 - 3 m Rem/h
I2 36.5 0·cpm·b
I2 420K 0·cpm·f
2 - 45 - 2 m Rem/hr
I2 15K 0·cpm·b
I2 265K 0·cpm·f
2 miles
SITE BOUNDARY
10 - 204 - 10 m Rem/h
I2 122K 0·cpm·b
I2 05H 0·cpm·f
PLUME CENTERLINE
MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
SOUTH HAVEN
(POP. 6471)
SOUTH HAVEN MUNICIPAL AIRPORT
HAWK-HEAD
KIBBIE
COVERT
CASCO
GENEVA
SOUTH HAVEN
BANGOR
SCHOOL SECTION L.
BLACK RIVER
MERRIMAN
PHOENIX
BASE LINE

1400



MIAMI PARK
MT. PLEASANT
SOUTH HAVEN HIGHLANDS
VARIETY PARK
SOUTH HAVEN (POP. 6471)
SOUTH HAVEN MUNICIPAL AIRPORT
COVERT
KIBBIE
HAWKHEAD
MERRIMAN
SCHOOL SECTION L.
.3-5.2-.3 m Rem/h
I2 .76K 0.cpm.b
I2 19.5K 0.cpm.f
10 miles
.6-11-.6 m Rem/h
I2 2.4K 0.cpm.b
I2 60K 0.cpm.f
5 miles
.4-8.1-.4 m Rem/h
I2 1.4K 0.cpm.
I2 34.7K 0.cpm.
7.6 miles
.9-17.7-.9 m Rem/h
I2 4.7K 0.cpm.b
I2 120K 0.cpm.f
3.4 miles
1.6 miles
2.2-45-2.2 m Rem/h
I2 24.5 0.cpm.b
I2 375K 0.cpm.f
1.5-30-1.5 mRem/hr
I2 10.1K 0.cpm.b
I2 185K 0.cpm.f
2 miles
SITE BOUNDARY
7-136-7 mRem/h
I2 85.4 0.cpm.b
I2 05H 0.cpm.f
Plume Centerline

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

0800

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN

N

METEOROLOGICAL TOWER

TEMPERATURE	3.0	deg C
WIND SPEED	13	mph
DIRECTION	227	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CONT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

.10 mr.em/hr

ENVIRONMENTAL OVERVIEW

PAL

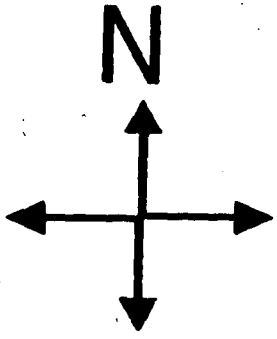
10/22/96
0815

LIQUID DISCHARGE STATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	3.2	deg C
WIND SPEED	13	mph
DIRECTION	222	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

.10 mrem/hr

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

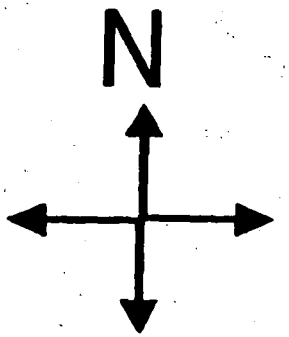
0830

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	3.5	deg C
WIND SPEED	18	mph
DIRECTION	229	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

.10 mrem/hr

ENVIRONMENTAL OVERVIEW

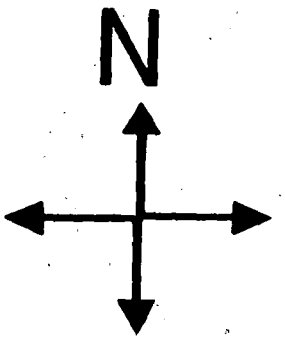
10/22/96
0845

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	3.5	deg C
WIND SPEED	22	mph
DIRECTION	221	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

.10 mrem/hr

CFMS	F2 ENVIRON MENU	F3	F4 METEOR-OLOGICAL	F5 RADIO-LOGICAL	F11	F12	F13	F14	F15

OK

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

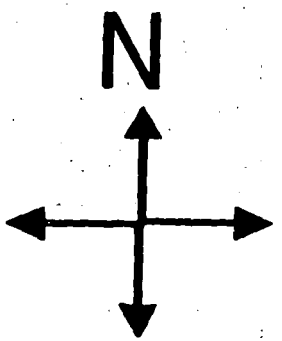
0900

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	3.7	deg C
WIND SPEED	19	mph
DIRECTION	219	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

.10 mrem/hr

CFMS	F7 ENVIRON MENU	F8	F9 METEOR-LOGICAL	F10 RADIO-LOGICAL	F11	F12	F13	F14	F15	

ENVIRONMENTAL OVERVIEW

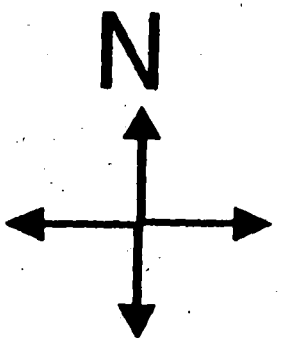
PAL
10/22/96
0915

LIQUID DISCHARGE STATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	4.0	deg C
WIND SPEED	15	mph
DIRECTION	225	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

.10 mrem/hr

ENVIRONMENTAL OVERVIEW

PAL

10/22/86

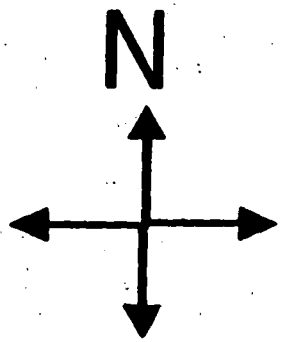
0930

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	4.5	deg C
WIND SPEED	13	mph
DIRECTION	230	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

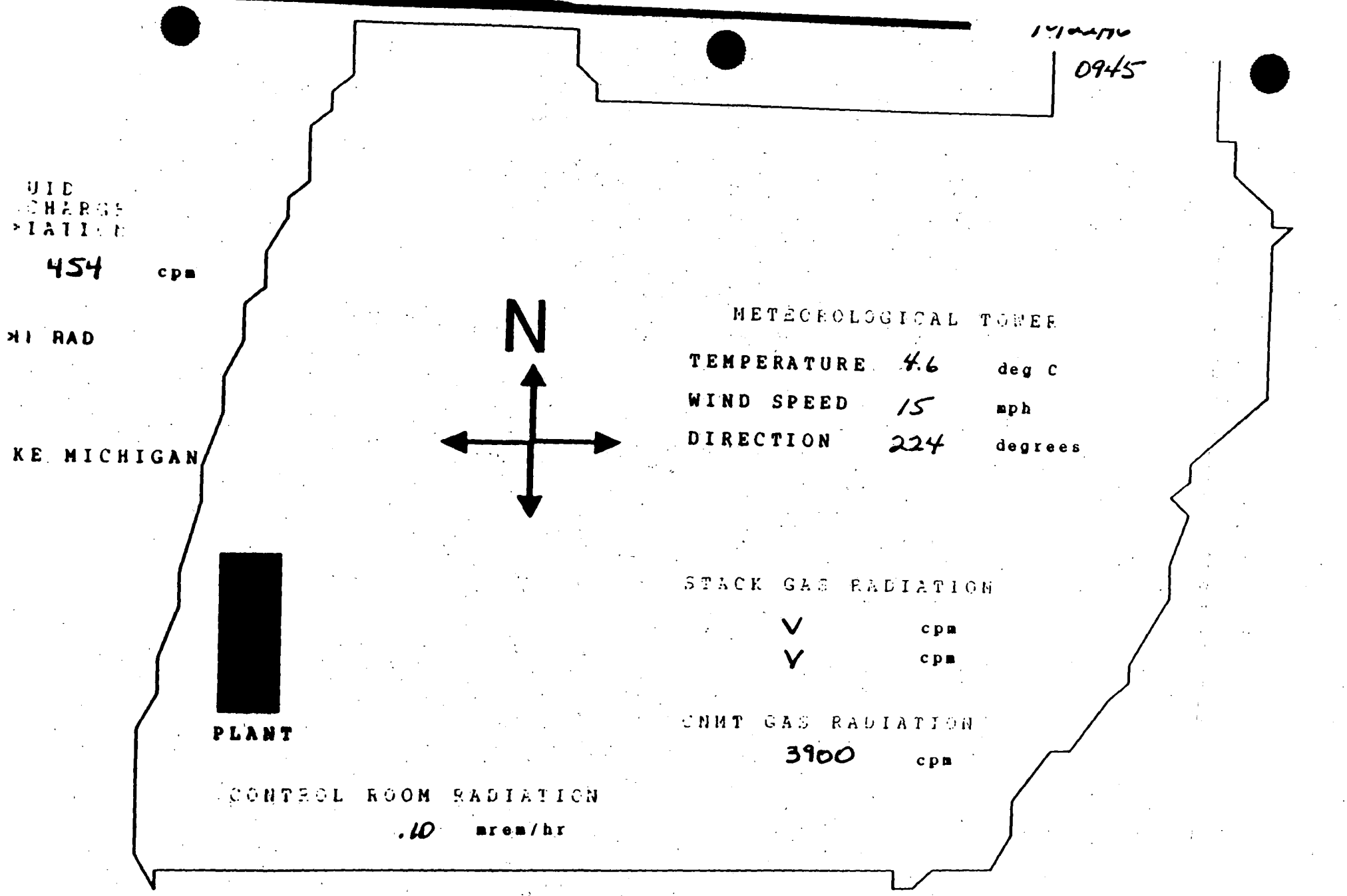
3900 cpm

CONTROL ROOM RADIATION

.10 mrem/hr

OK

CFMS	F2 ENVIRON MENU	F3	F4 METEOR-OLOGICAL	F5 RADIO-LOGICAL	F6	F7	F8	F9	F10	F15



ENVIRONMENTAL OVERVIEW

PAL

10/22/96

1000

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN

N

METEOROLOGICAL TOWER

TEMPERATURE	4.9	deg C
WIND SPEED	12	mph
DIRECTION	219	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

.10 mrem/hr

350

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

1015

LIQUID
DISCHARGE
RADIATION

454 cpm

HI RAD

LAKE MICHIGAN

N

METEOROLOGICAL TOWER

TEMPERATURE	5.2	deg C
WIND SPEED	8	mph
DIRECTION	224	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

.10 mrem/hr

CFMS	F1 ENVIRON MENU	F2	F3 METEOR-OLOGICAL	F4 RADIO-LOGICAL	F11	F12	F13	F14	F15	OK

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

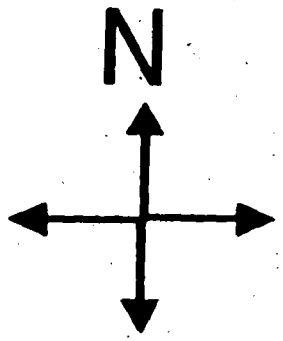
1030

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	5.5	deg C
WIND SPEED	9	mph
DIRECTION	223	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

.10 mrem/hr

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

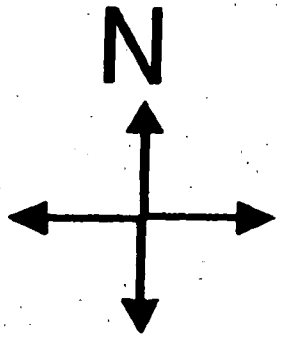
1045

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	6	deg C
WIND SPEED	7	mph
DIRECTION	221	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

,54 mrem/hr

ENVIRONMENTAL OVERVIEW

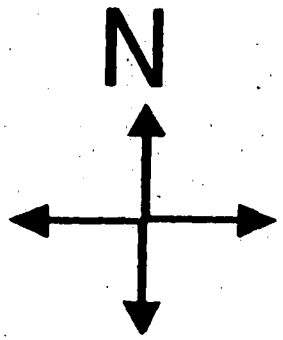
10/22/96
1100

QUID
SCHARGE
DIATION

454 cpm

HI RAD

AKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	6.2	deg C
WIND SPEED	5	mph
DIRECTION	226	degrees

PLANT

STACK GAS RADIATION

V cpm
V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

.78 mrem/hr

ENVIRONMENTAL OVERVIEW

PAL
10/22/96
1115

LIQUID
DISCHARGE
RADIATION

454 cpm

HI RAD

LAKE MICHIGAN

N

METEOROLOGICAL TOWER

TEMPERATURE	6.8	deg C
WIND SPEED	4	mph
DIRECTION	227	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

4.7 mrem/hr

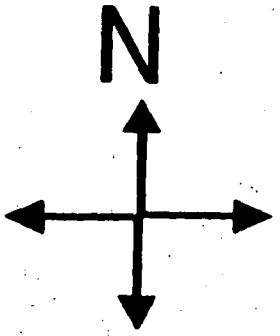
ENVIRONMENTAL OVERVIEW

PAL
10/22/96
1130

LIQUID
DISCHARGE
RADIATION
454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	7.1	deg C
WIND SPEED	5	mph
DIRECTION	223	degrees

PLANT

STACK GAS RADIATION

V cpm
V cpm

CNMT GAS RADIATION
3900 cpm

CONTROL ROOM RADIATION
10.3 mrem/hr

350

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

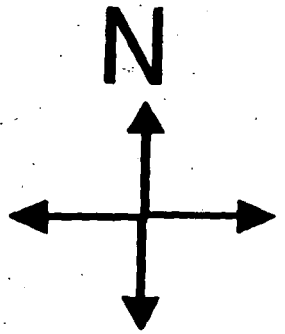
1145

QUID
SCHARGE
PLATION

454 cpm

HI RAD

AKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	7.3	deg C
WIND SPEED	6	mph
DIRECTION	228	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

9.7 mrem/hr

CFMS	F1 ENVIRON MENU	F2	F3 METEOR-OLOGICAL	F4 RADIO-LOGICAL	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15

OK

350

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

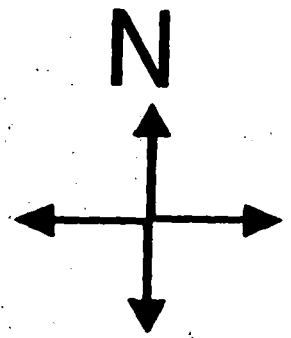
1200

QUID
SCHARGE
DIATION

454 cpm

HI RAD

AKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	7.3	deg C
WIND SPEED	5	mph
DIRECTION	225	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

6.6 mrem/hr

CFMS | F7 ENVIRON MENU | F8 | F9 METEOR-LOGICAL | F10 RADIO-LOGICAL | F11 | F12 | F13 | F14 | F15

OK

ENVIRONMENTAL OVERVIEW

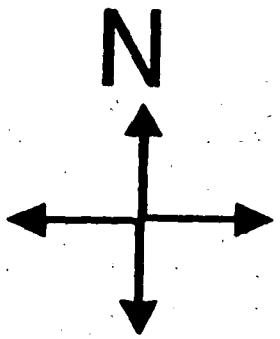
PAL
10/22/96
1215

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	7.5	deg C
WIND SPEED	3	mph
DIRECTION	229	degrees

STACK GAS RADIATION

V cpm

V cpm

PLANT

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

5.3 mrem/hr

OK

CFMS	F1 ENVIRON MENU	F2	F3 METEOR-OLOGICAL	F4 RADIO-LOGICAL	F11	F12	F13	F14	F15	

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

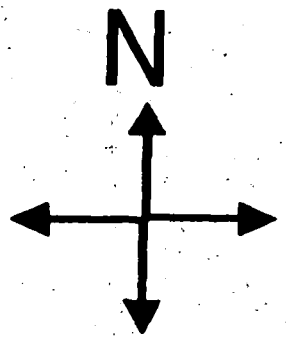
1230

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	8.2	deg C
WIND SPEED	5	mph
DIRECTION	225	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

4.4 mrem/hr

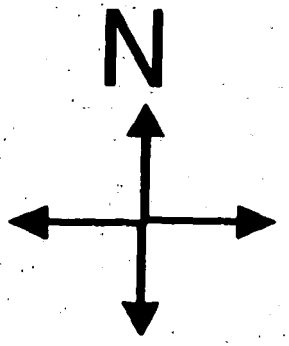
ENVIRONMENTAL OVERVIEW

PAL
10/22/96
1245

LIQUID
DISCHARGE
RADIATION
454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	8.5	deg C
WIND SPEED	8	mph
DIRECTION	223	degrees

STACK GAS RADIATION

V cpm
V cpm

CNMT GAS RADIATION
3900 cpm

PLANT

CONTROL ROOM RADIATION
3.5 mrem/hr

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

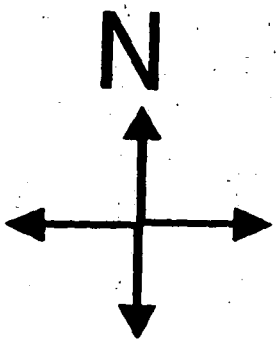
1300

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	8.7	deg C
WIND SPEED	9	mph
DIRECTION	219	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

3.1 mrem/hr

CFMS	F7 ENVIRON MENU	F8	F9 METEOR-OLOGICAL	F10 RADIO-LOGICAL	F11	F12	F13	F14	F15	OK

ENVIRONMENTAL OVERVIEW

PAL

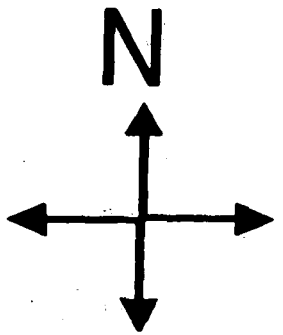
10/22/96
1315

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	9.3	deg C
WIND SPEED	8	mph
DIRECTION	230	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

2.7 mrem/hr

CFMS	F7 ENVIRON MENU	F8	F9 METEOR-OLOGICAL	F10 RADIO-LOGICAL	F11	F12	F13	F14	F15	OK

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

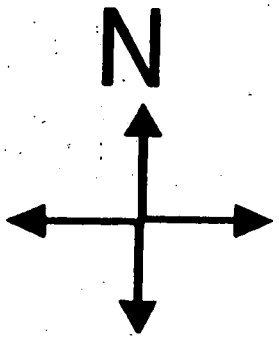
1330

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	9.2	deg C
WIND SPEED	11	mph
DIRECTION	225	degrees

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

2.7 mrem/hr

CFMS	F7 ENVIRON MENU	F8	F9 METEOR-OLOGICAL	F10 RADIO-LOGICAL	F11	F12	F13	F14	F15	OK

ENVIRONMENTAL OVERVIEW

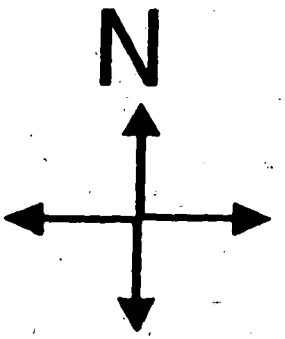
PAL
10/22/96
1345

LIQUID
DISCHARGE
RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	9.5	deg C
WIND SPEED	10	mph
DIRECTION	228	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

2.2 mrem/hr

ENVIRONMENTAL OVERVIEW

PAL

10/22/96

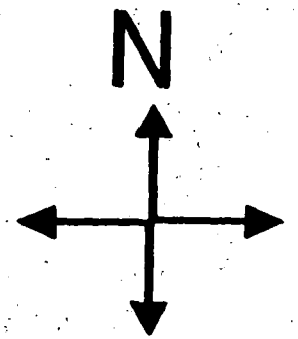
1400

LIQUID
DISCHARGE
RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	9.1	deg C
WIND SPEED	12	mph
DIRECTION	221	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

1.8 mrem/hr

ENVIRONMENTAL OVERVIEW

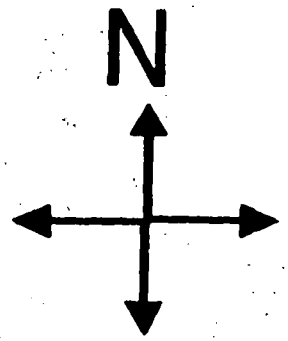
10/22/96
1445

IQUID
ISCHARGE
ADIATION

454 cpm

HI RAD

AKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	8.9	deg C
WIND SPEED	13	mph
DIRECTION	223	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

1.4 mrem/hr

CFMS	F7 ENVIRON MENU	F8	F9 METEOR-OLOGICAL	F10 RADIO-LOGICAL	F11	F12	F13	F14	F15		OK

ENVIRONMENTAL OVERVIEW

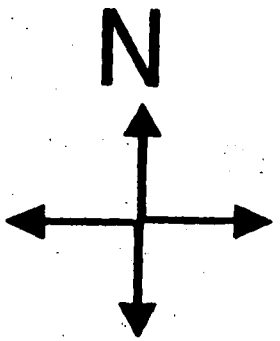
PAL
10/22/96
1430

LIQUID DISCHARGE RADIATION

454 cpm

HI RAD

LAKE MICHIGAN



METEOROLOGICAL TOWER

TEMPERATURE	8.0	deg C
WIND SPEED	7	mph
DIRECTION	226	degrees

PLANT

STACK GAS RADIATION

V cpm

V cpm

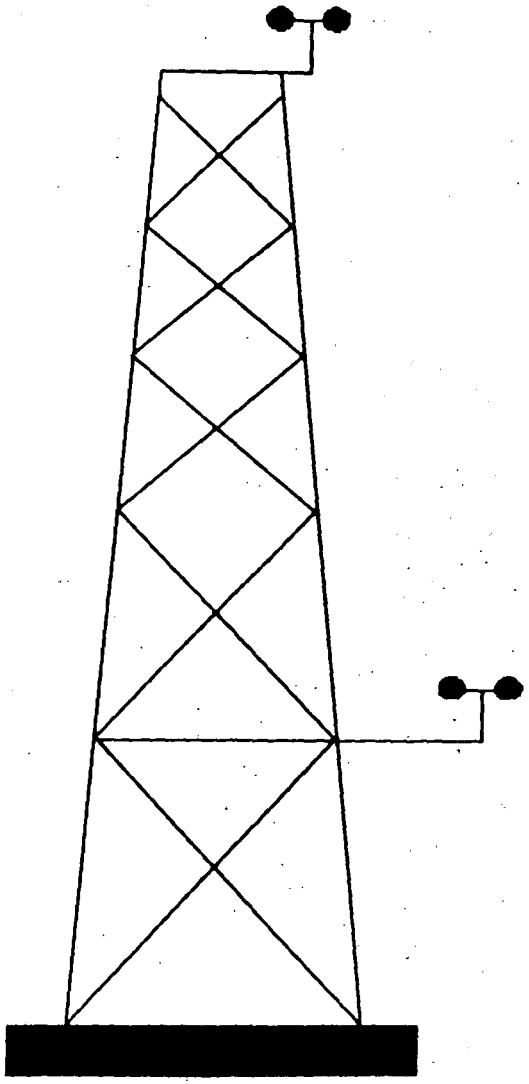
CNMT GAS RADIATION

3900 cpm

CONTROL ROOM RADIATION

1.1 mrem/hr

10/22/96 0825



HEIGHT 60 METERS

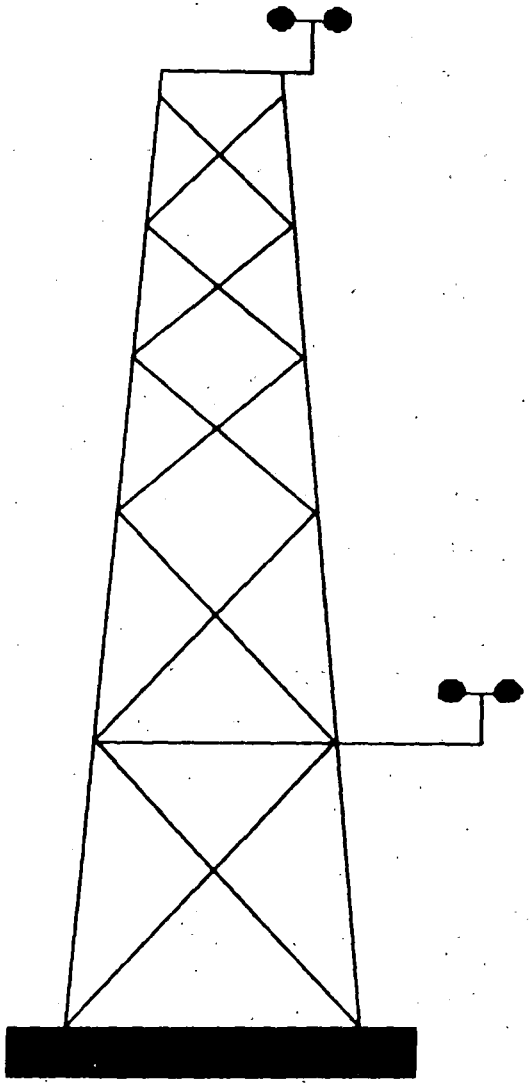
WIND DIRECTION	227	CIRCULAR DEGREES
STD DEVIATION	7.2	CIRCULAR DEGREES
WIND SPEEED	17	MPH
DELTA TEMPERATURE	-0.4	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	227	CIRCULAR DEGREES
STD DEVIATION	7.2	CIRCULAR DEGREES
WIND SPEEED	13	MPH
TEMPERATURE	3.0	DEG C

JOB SENT TO PRINTER

10/22/96 0815



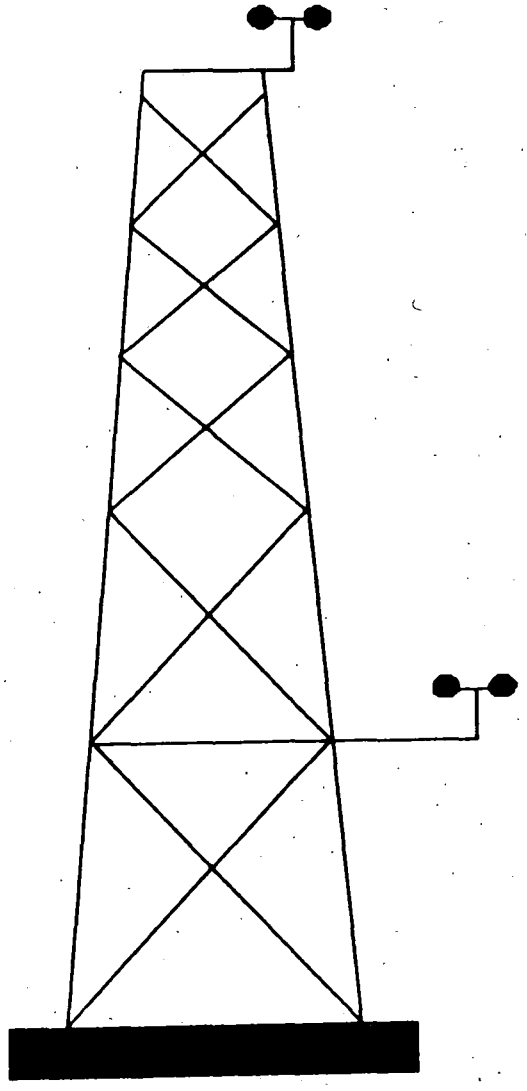
HEIGHT 60 METERS

WIND DIRECTION	222	CIRCULAR DEGREES
STD DEVIATION	11.2	CIRCULAR DEGREES
WIND SPEEED	17	MPH
DELTA TEMPERATURE	-0.9	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	222	CIRCULAR DEGREES
STD DEVIATION	11.2	CIRCULAR DEGREES
WIND SPEEED	13	MPH
TEMPERATURE	3.2	DEG C

10/22/96 0830



HEIGHT 60 METERS

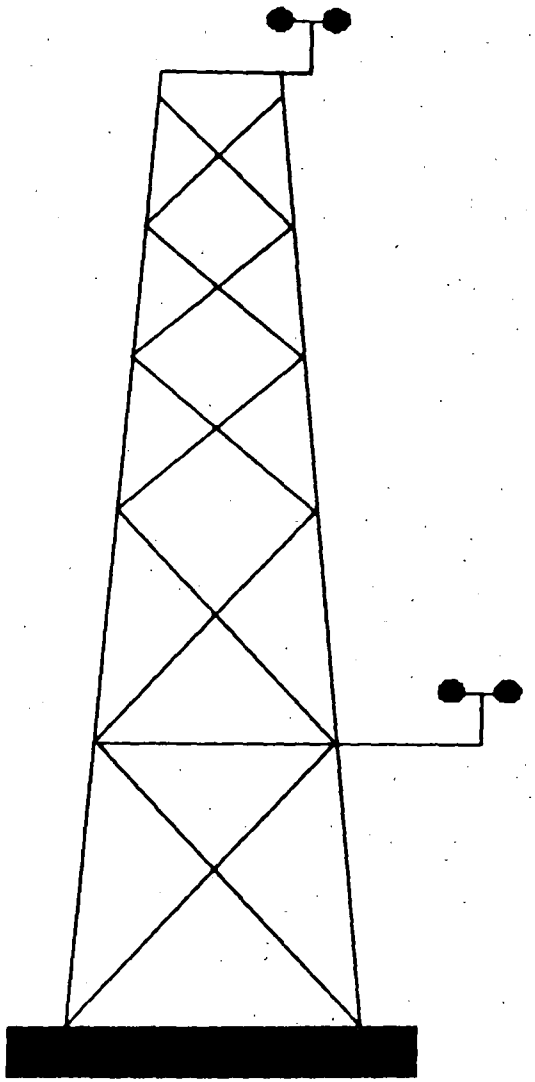
WIND DIRECTION	229	CIRCULAR DEGREES
STD DEVIATION	9.5	CIRCULAR DEGREES
WIND SPEEED	23	MPH
DELTA TEMPERATURE	-1.1	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	229	CIRCULAR DEGREES
STD DEVIATION	9.5	CIRCULAR DEGREES
WIND SPEEED	18	MPH
TEMPERATURE	3.5	DEG C

JOB SENT TO PRINTER

10/22/96 0845



HEIGHT 60 METERS

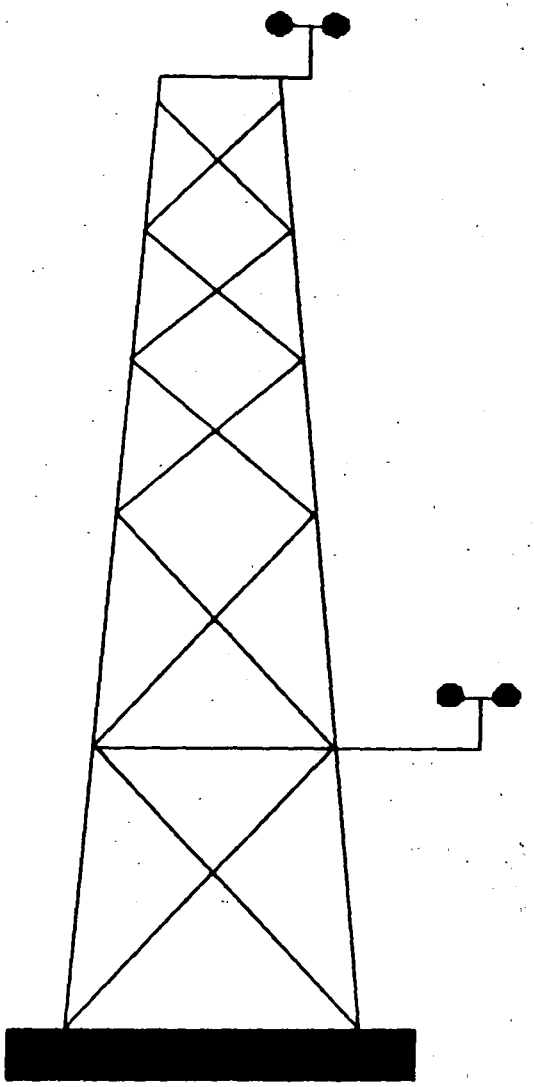
WIND DIRECTION	221	CIRCULAR DEGREES
STD DEVIATION	12	CIRCULAR DEGREES
WIND SPEEED	28	MPH
DELTA TEMPERATURE	-1.2	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	221	CIRCULAR DEGREES
STD DEVIATION	12	CIRCULAR DEGREES
WIND SPEEED	22	MPH
TEMPERATURE	3.5	DEG C

JOB SENT TO PRINTER

10/22/96 0900



HEIGHT 60 METERS

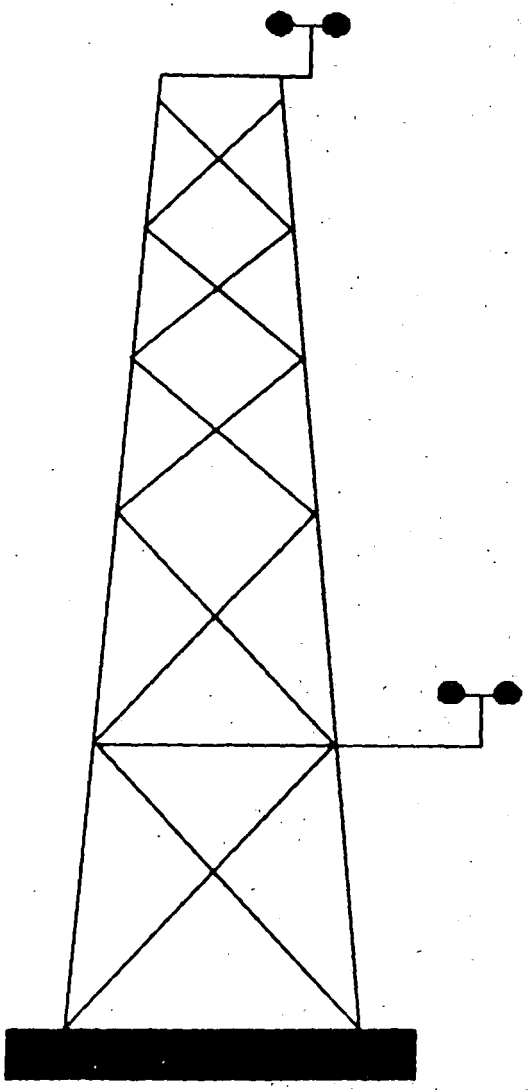
WIND DIRECTION	219	CIRCULAR DEGREES
STD DEVIATION	10.4	CIRCULAR DEGREES
WIND SPEEED	24	MPH
DELTA TEMPERATURE	-1.3	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	219	CIRCULAR DEGREES
STD DEVIATION	10.4	CIRCULAR DEGREES
WIND SPEEED	19	MPH
TEMPERATURE	3.7	DEG C

JOB SENT TO PRINTER

10/22/96 0915



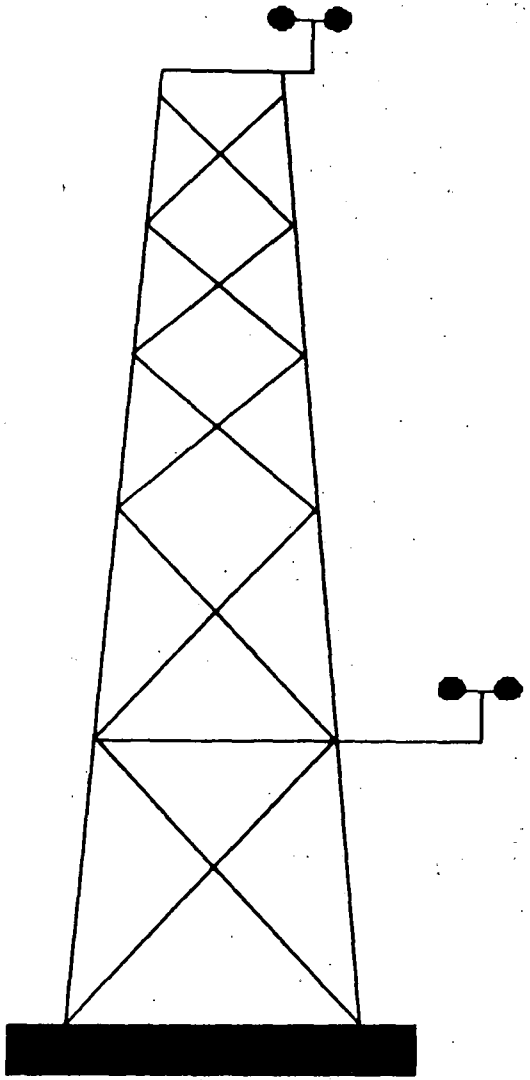
HEIGHT 60 METERS

WIND DIRECTION	225	CIRCULAR DEGREES
STD DEVIATION	9.2	CIRCULAR DEGREES
WIND SPEEED	20	MPH
DELTA TEMPERATURE	-1.1	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	225	CIRCULAR DEGREES
STD DEVIATION	9.2	CIRCULAR DEGREES
WIND SPEEED	15	MPH
TEMPERATURE	4.0	DEG C

10/22/96 0930



HEIGHT 60 METERS

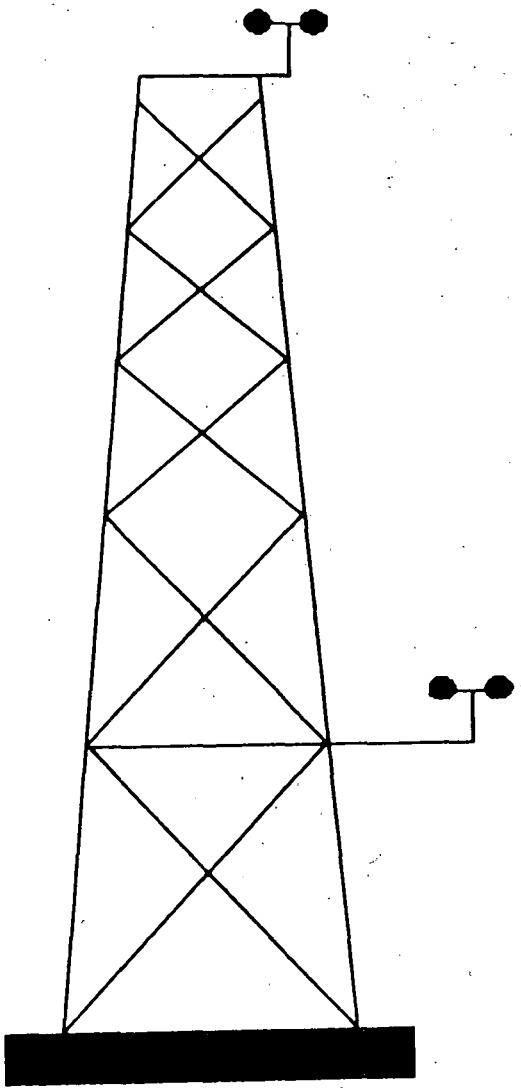
WIND DIRECTION	230	CIRCULAR DEGREES
STD DEVIATION	7.9	CIRCULAR DEGREES
WIND SPEEED	17	MPH
DELTA TEMPERATURE	-0.9	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	230	CIRCULAR DEGREES
STD DEVIATION	7.9	CIRCULAR DEGREES
WIND SPEEED	13	MPH
TEMPERATURE	4.5	DEG C

JOB SENT TO PRINTER

10/22/96 0945



HEIGHT 60 METERS

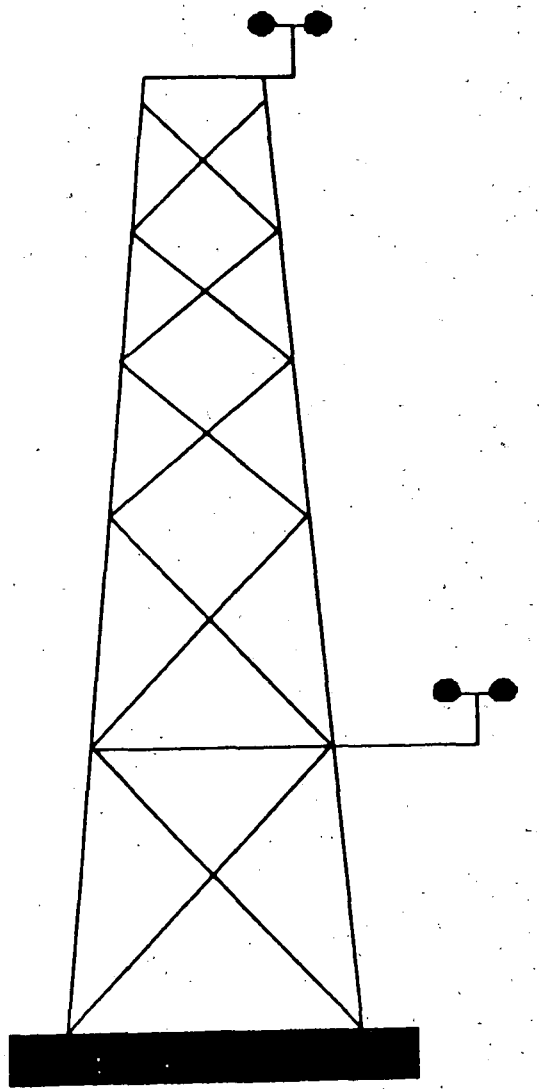
WIND DIRECTION	224	CIRCULAR DEGREES
STD DEVIATION	8.3	CIRCULAR DEGREES
WIND SPEEED	20	MPH
DELTA TEMPERATURE	-0.8	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	224	CIRCULAR DEGREES
STD DEVIATION	8.3	CIRCULAR DEGREES
WIND SPEEED	15	MPH
TEMPERATURE	4.6	DEG C

JOB SENT TO PRINTER

10/22/96 1000



HEIGHT 60 METERS

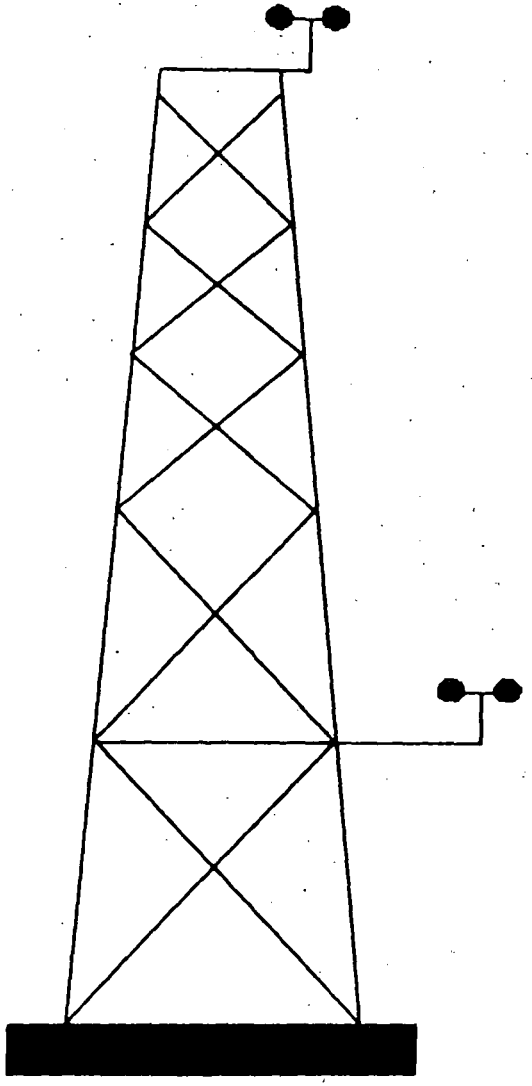
WIND DIRECTION	219	CIRCULAR DEGREES
STD DEVIATION	8.1	CIRCULAR DEGREES
WIND SPEEED	16	MPH
DELTA TEMPERATURE	-0.7	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	219	CIRCULAR DEGREES
STD DEVIATION	8.1	CIRCULAR DEGREES
WIND SPEEED	12	MPH
TEMPERATURE	4.9	DEG C

JOB SENT TO PRINTER

10/22/96 1015



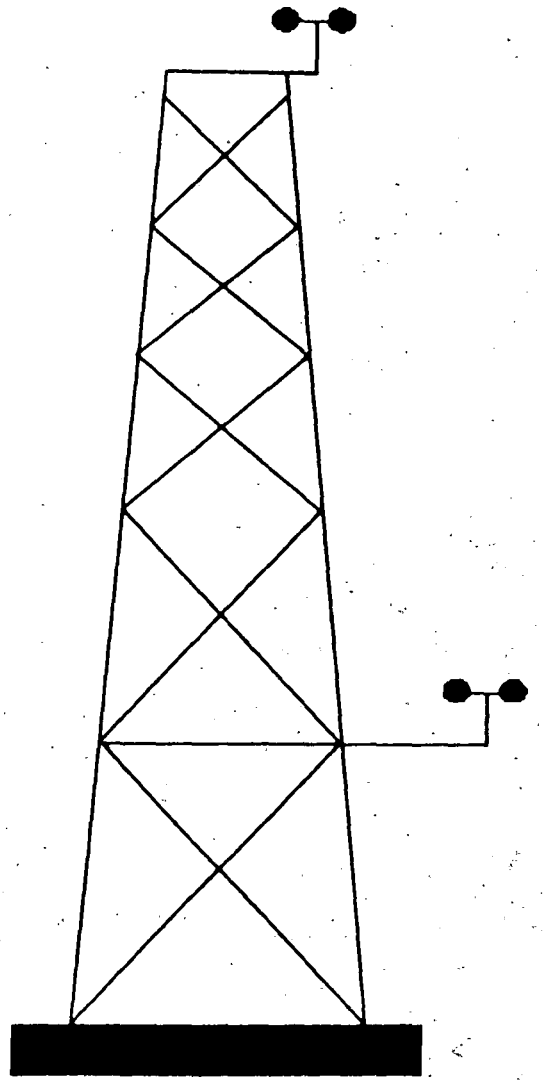
HEIGHT 60 METERS

WIND DIRECTION	224	CIRCULAR DEGREES
STD DEVIATION	7.2	CIRCULAR DEGREES
WIND SPEEED	10	MPH
DELTA TEMPERATURE	-0.3	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	224	CIRCULAR DEGREES
STD DEVIATION	7.2	CIRCULAR DEGREES
WIND SPEEED	8	MPH
TEMPERATURE	5.2	DEG C

JOB SENT TO PRINTER



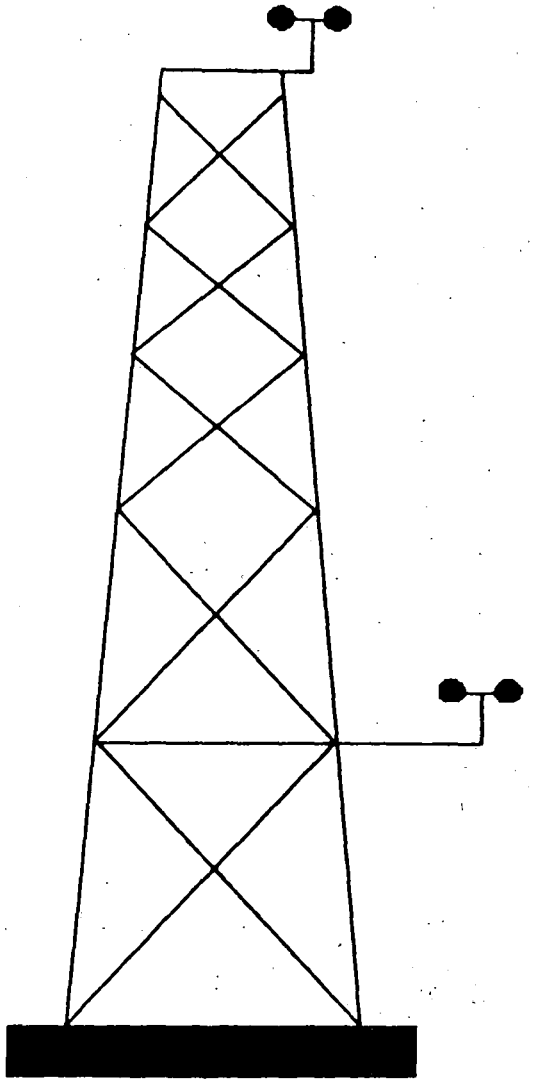
HEIGHT 60 METERS

WIND DIRECTION	223	CIRCULAR DEGREES
STD DEVIATION	7.0	CIRCULAR DEGREES
WIND SPEEED	11	MPH
DELTA TEMPERATURE	-0.2	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	223	CIRCULAR DEGREES
STD DEVIATION	7.0	CIRCULAR DEGREES
WIND SPEEED	9	MPH
TEMPERATURE	5.5	DEG C

10/22/96 1045



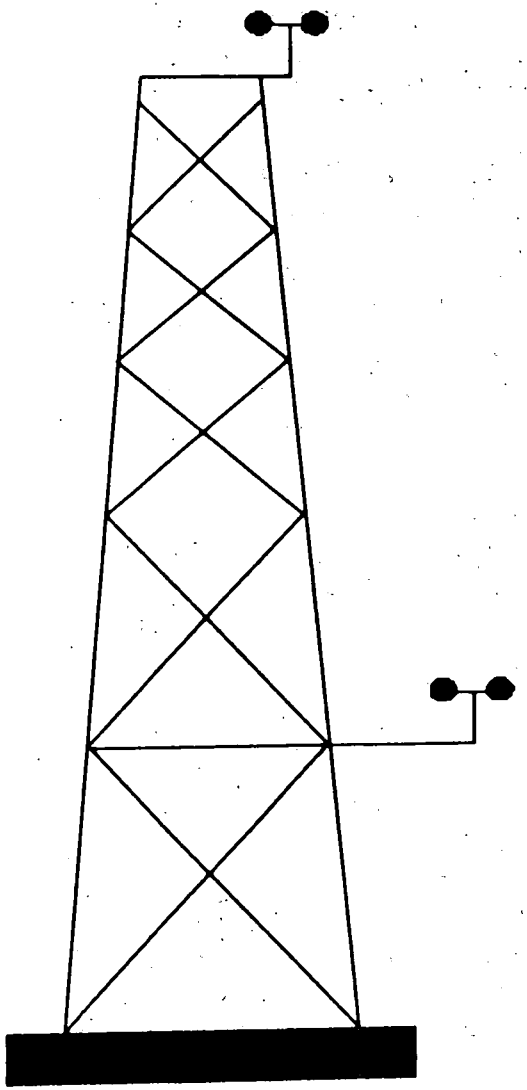
HEIGHT 60 METERS

WIND DIRECTION	221	CIRCULAR DEGREES
STD DEVIATION	6.9	CIRCULAR DEGREES
WIND SPEEED	9	MPH
DELTA TEMPERATURE	-0.4	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	221	CIRCULAR DEGREES
STD DEVIATION	6.9	CIRCULAR DEGREES
WIND SPEEED	7	MPH
TEMPERATURE	6.0	DEG C

JOB SENT TO PRINTER

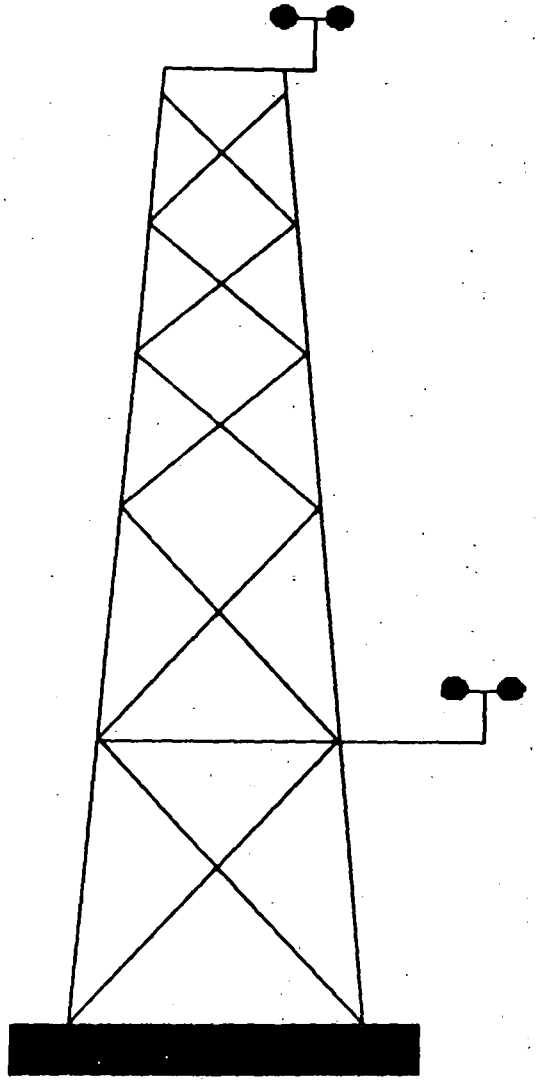


HEIGHT 60 METERS

WIND DIRECTION	226	CIRCULAR DEGREES
STD DEVIATION	7.0	CIRCULAR DEGREES
WIND SPEEED	7	MPH
DELTA TEMPERATURE	-0.5	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	226	CIRCULAR DEGREES
STD DEVIATION	7.0	CIRCULAR DEGREES
WIND SPEEED	5	MPH
TEMPERATURE	6.2	DEG C

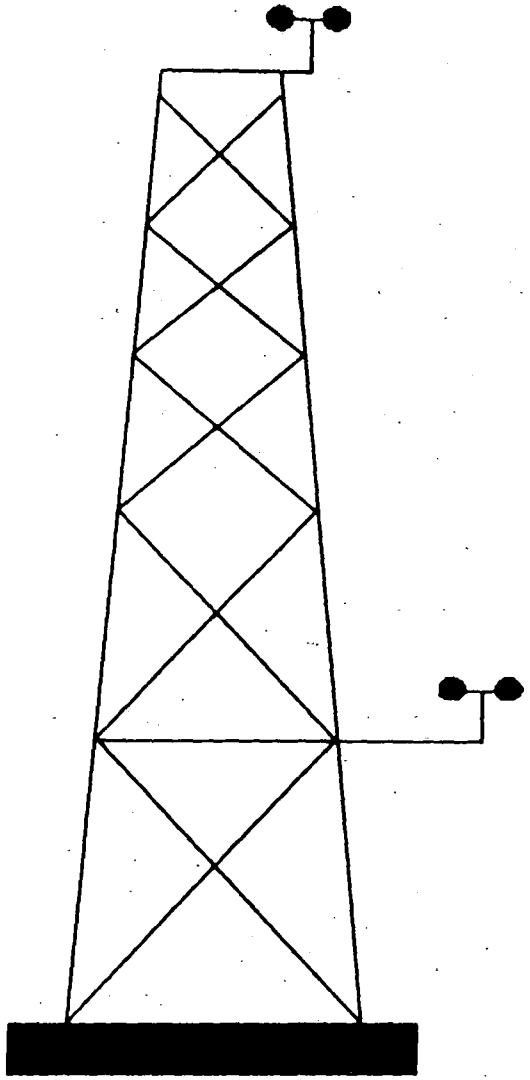


HEIGHT 60 METERS

WIND DIRECTION	227	CIRCULAR DEGREES
STD DEVIATION	7.0	CIRCULAR DEGREES
WIND SPEEED	5	MPH
DELTA TEMPERATURE	-0.4	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	227	CIRCULAR DEGREES
STD DEVIATION	7.0	CIRCULAR DEGREES
WIND SPEEED	4	MPH
TEMPERATURE	6.8	DEG C



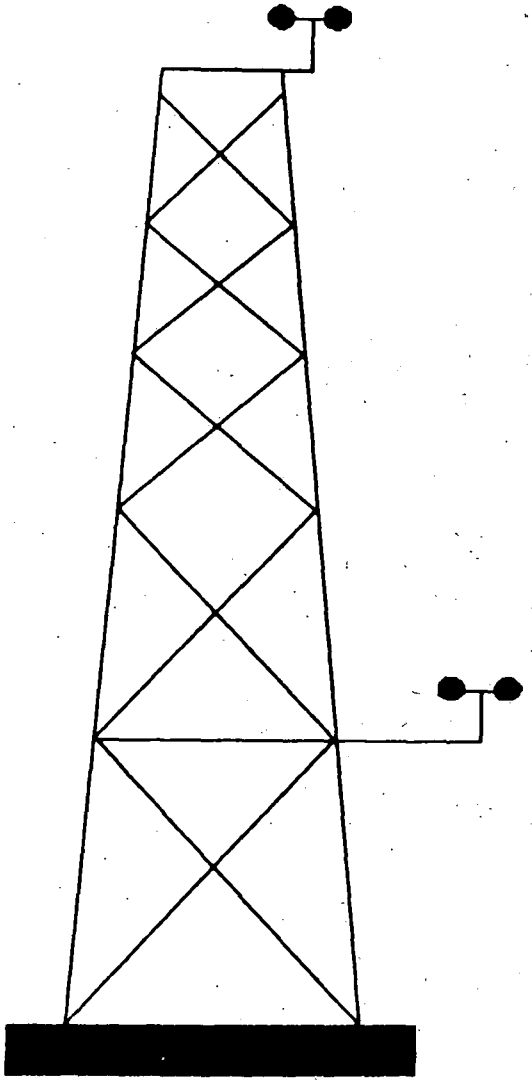
HEIGHT 60 METERS

WIND DIRECTION	223	CIRCULAR DEGREES
STD DEVIATION	6.8	CIRCULAR DEGREES
WIND SPEEED	7	MPH
DELTA TEMPERATURE	-0.3	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	223	CIRCULAR DEGREES
STD DEVIATION	6.8	CIRCULAR DEGREES
WIND SPEEED	5	MPH
TEMPERATURE	7.1	DEG C

10/22/96 1145



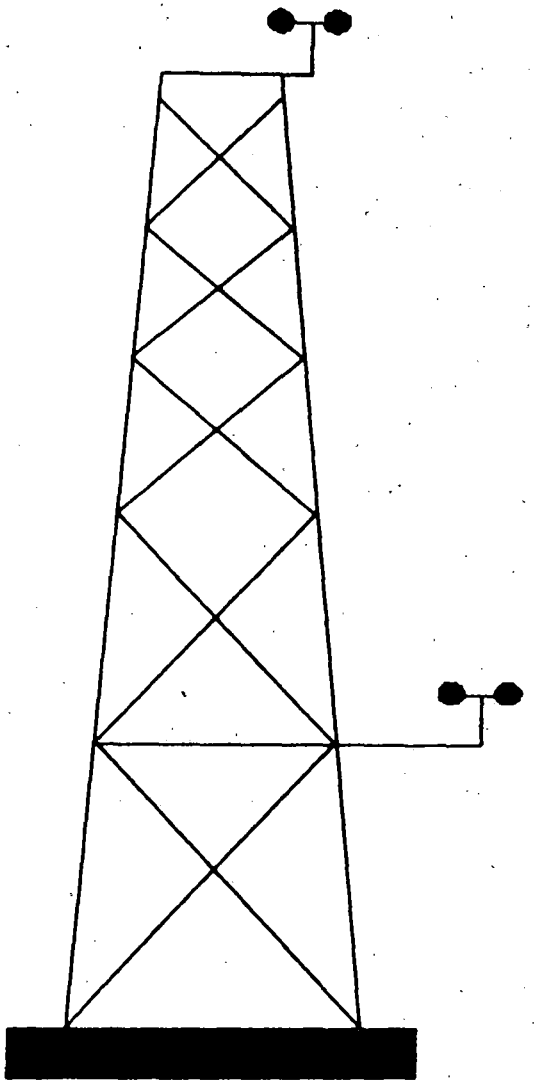
HEIGHT 60 METERS

WIND DIRECTION	228	CIRCULAR DEGREES
STD DEVIATION	6.5	CIRCULAR DEGREES
WIND SPEEED	8	MPH
DELTA TEMPERATURE	-0.2	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	228	CIRCULAR DEGREES
STD DEVIATION	6.5	CIRCULAR DEGREES
WIND SPEEED	6	MPH
TEMPERATURE	7.3	DEG C

10/22/96 1200



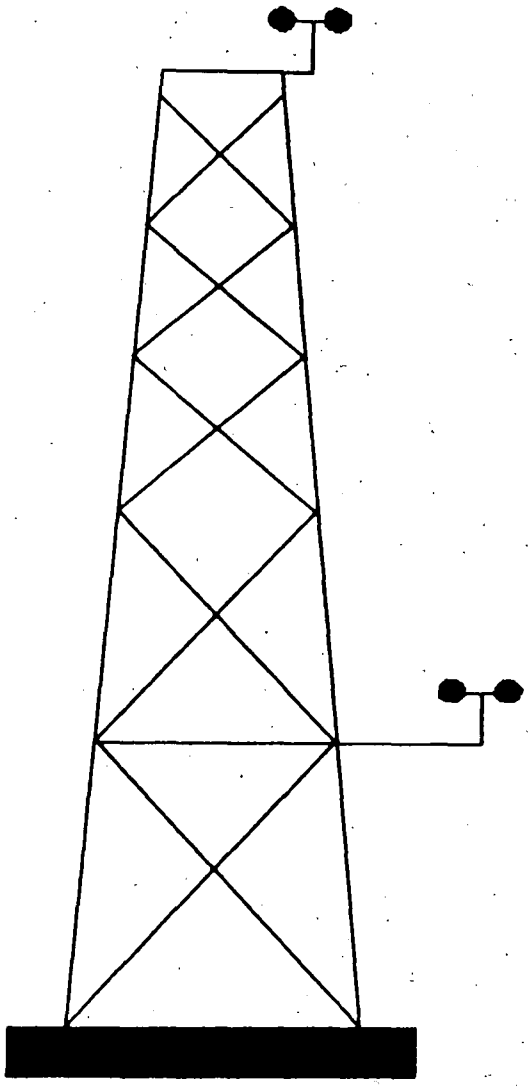
HEIGHT 60 METERS

WIND DIRECTION	225	CIRCULAR DEGREES
STD DEVIATION	7.0	CIRCULAR DEGREES
WIND SPEEED	7	MPH
DELTA TEMPERATURE	-0.3	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	225	CIRCULAR DEGREES
STD DEVIATION	7.0	CIRCULAR DEGREES
WIND SPEEED	5	MPH
TEMPERATURE	7.3	DEG C

PAL
10/22/96 1215



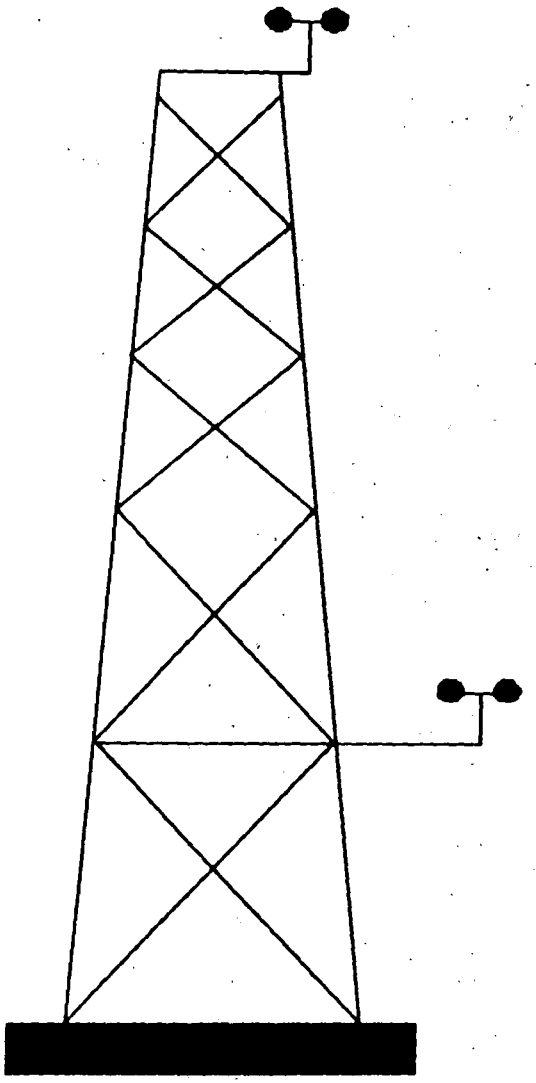
HEIGHT 60 METERS

WIND DIRECTION	229	CIRCULAR DEGREES
STD DEVIATION	6.7	CIRCULAR DEGREES
WIND SPEEED	4	MPH
DELTA TEMPERATURE	-0.5	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	229	CIRCULAR DEGREES
STD DEVIATION	6.7	CIRCULAR DEGREES
WIND SPEEED	3	MPH
TEMPERATURE	7.5	DEG C

10/22/96 12

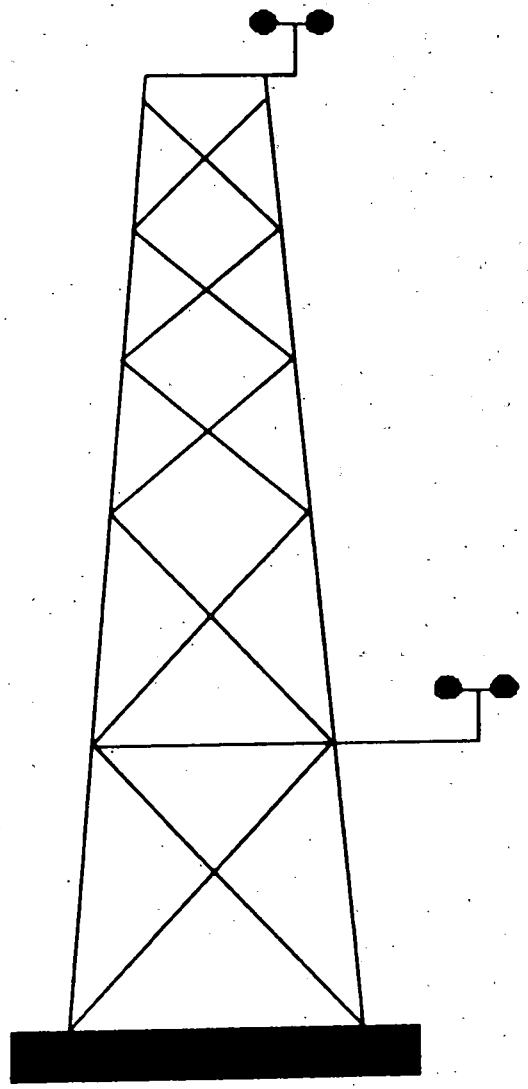


HEIGHT 60 METERS

WIND DIRECTION	225	CIRCULAR DEGREES
STD DEVIATION	6.9	CIRCULAR DEGREES
WIND SPEEED	7	MPH
DELTA TEMPERATURE	-0.3	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	225	CIRCULAR DEGREES
STD DEVIATION	6.9	CIRCULAR DEGREES
WIND SPEEED	5	MPH
TEMPERATURE	8.2	DEG C

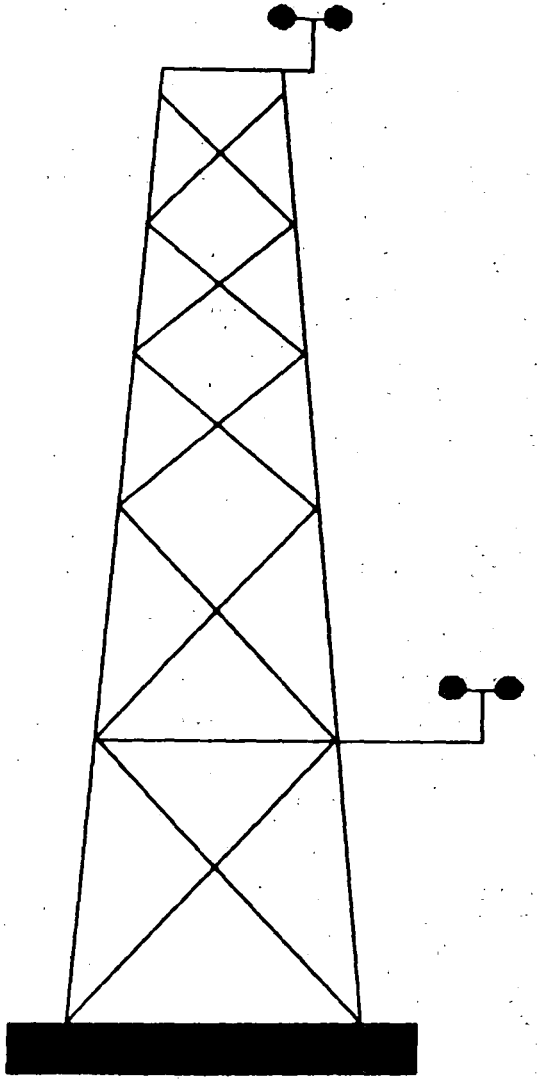


HEIGHT 60 METERS

WIND DIRECTION	223	CIRCULAR DEGREES
STD DEVIATION	6.0	CIRCULAR DEGREES
WIND SPEEED	10	MPH
DELTA TEMPERATURE	-0.3	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	223	CIRCULAR DEGREES
STD DEVIATION	6.0	CIRCULAR DEGREES
WIND SPEEED	8	MPH
TEMPERATURE	8.5	DEG C



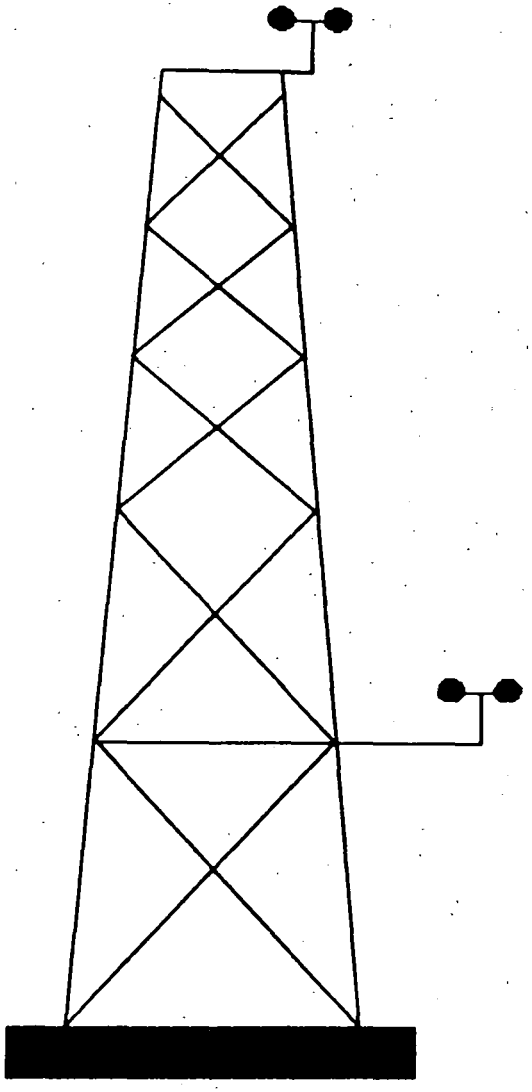
HEIGHT 60 METERS

WIND DIRECTION	219	CIRCULAR DEGREES
STD DEVIATION	6.2	CIRCULAR DEGREES
WIND SPEEED	11	MPH
DELTA TEMPERATURE	-0.4	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	219	CIRCULAR DEGREES
STD DEVIATION	6.2	CIRCULAR DEGREES
WIND SPEEED	9	MPH
TEMPERATURE	8.7	DEG C

10/22/96 1315



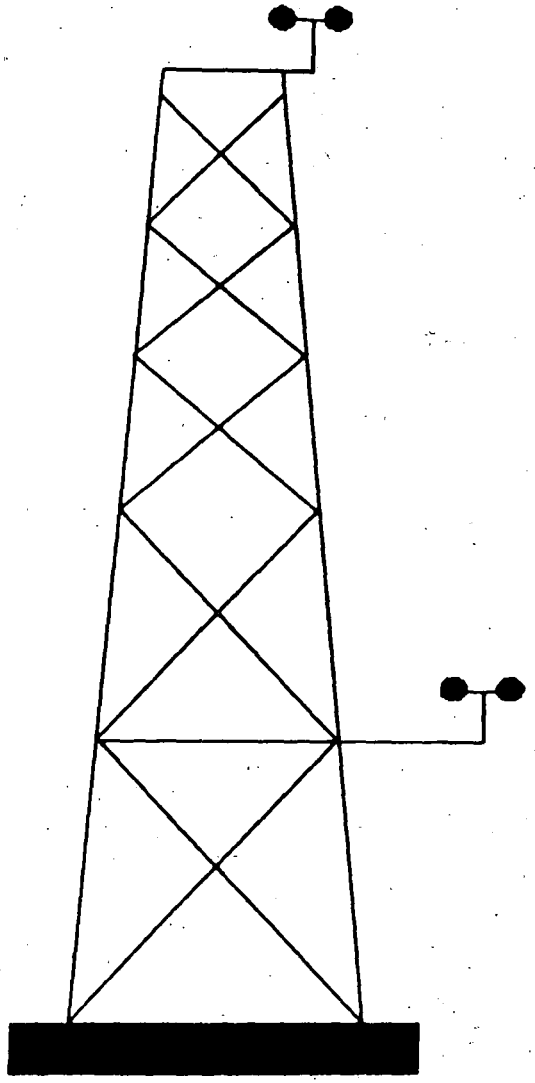
HEIGHT 60 METERS

WIND DIRECTION	230	CIRCULAR DEGREES
STD DEVIATION	5.5	CIRCULAR DEGREES
WIND SPEEED	10	MPH
DELTA TEMPERATURE	-0.3	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	230	CIRCULAR DEGREES
STD DEVIATION	5.5	CIRCULAR DEGREES
WIND SPEEED	8	MPH
TEMPERATURE	9.3	DEG C

10/22/96 1330



HEIGHT 60 METERS

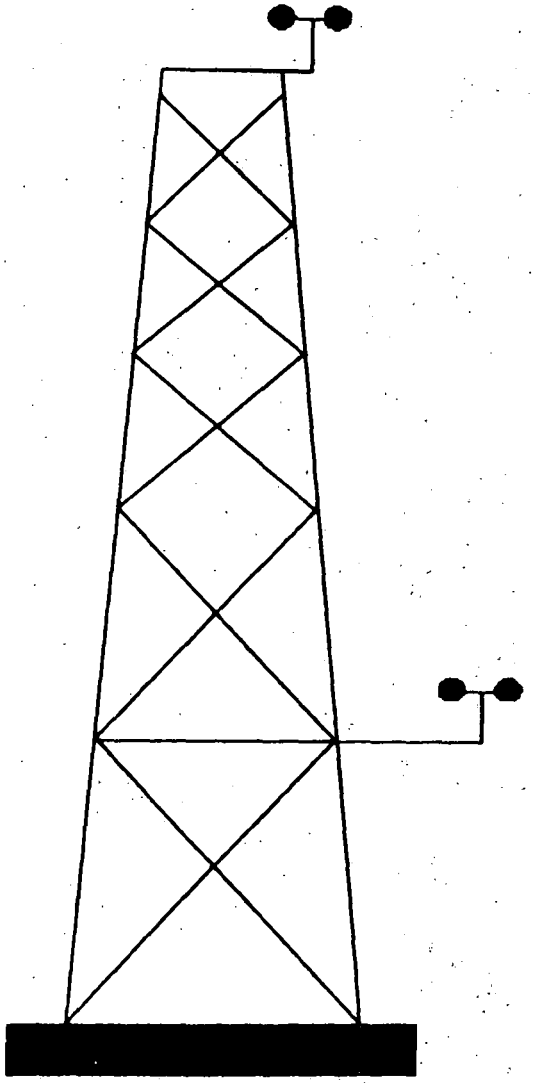
WIND DIRECTION	225	CIRCULAR DEGREES
STD DEVIATION	8.2	CIRCULAR DEGREES
WIND SPEEED	14	MPH
DELTA TEMPERATURE	-0.6	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	225	CIRCULAR DEGREES
STD DEVIATION	8.2	CIRCULAR DEGREES
WIND SPEEED	11	MPH
TEMPERATURE	9.2	DEG C

JOB SENT TO PRINTER

PAL
10/22/96 1345



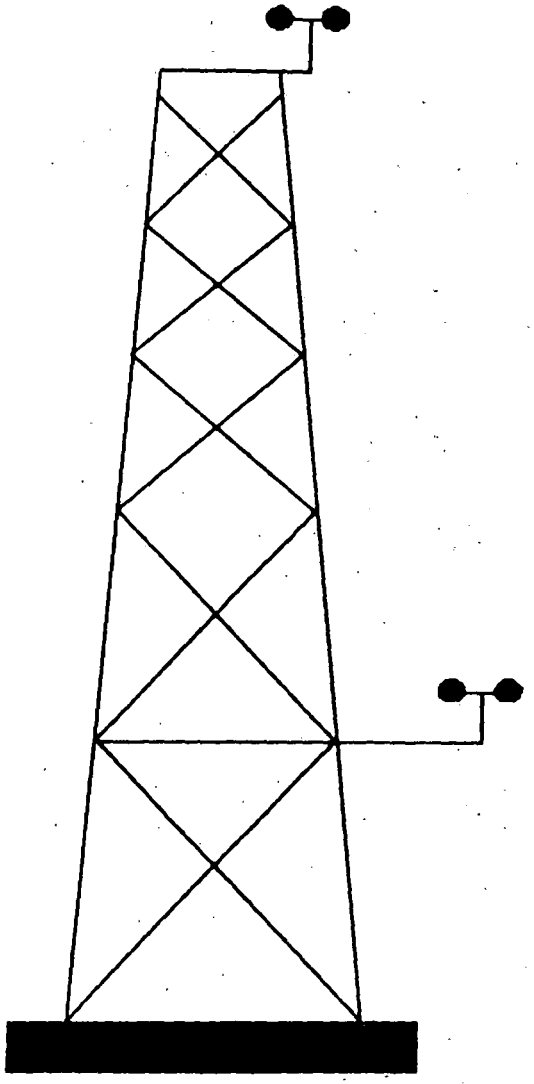
HEIGHT 60 METERS

WIND DIRECTION	228	CIRCULAR DEGREES
STD DEVIATION	8.9	CIRCULAR DEGREES
WIND SPEEED	13	MPH
DELTA TEMPERATURE	-0.8	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	228	CIRCULAR DEGREES
STD DEVIATION	8.9	CIRCULAR DEGREES
WIND SPEEED	10	MPH
TEMPERATURE	9.5	DEG C

10/22/96 1400

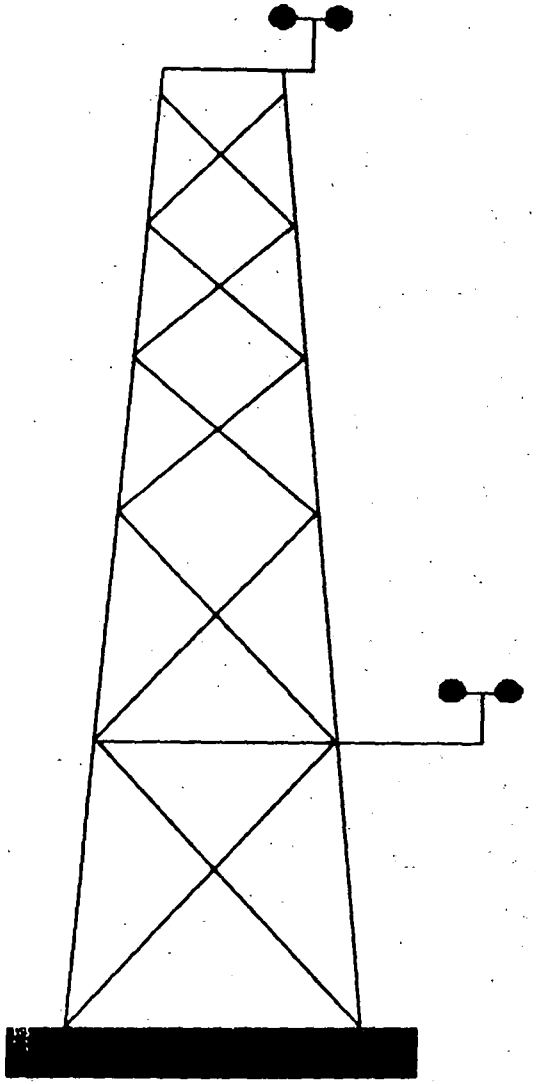


HEIGHT 60 METERS

WIND DIRECTION	221	CIRCULAR DEGREES
STD DEVIATION	8.2	CIRCULAR DEGREES
WIND SPEEED	16	MPH
DELTA TEMPERATURE	-0.6	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	221	CIRCULAR DEGREES
STD DEVIATION	8.2	CIRCULAR DEGREES
WIND SPEEED	12	MPH
TEMPERATURE	9.1	DEG C

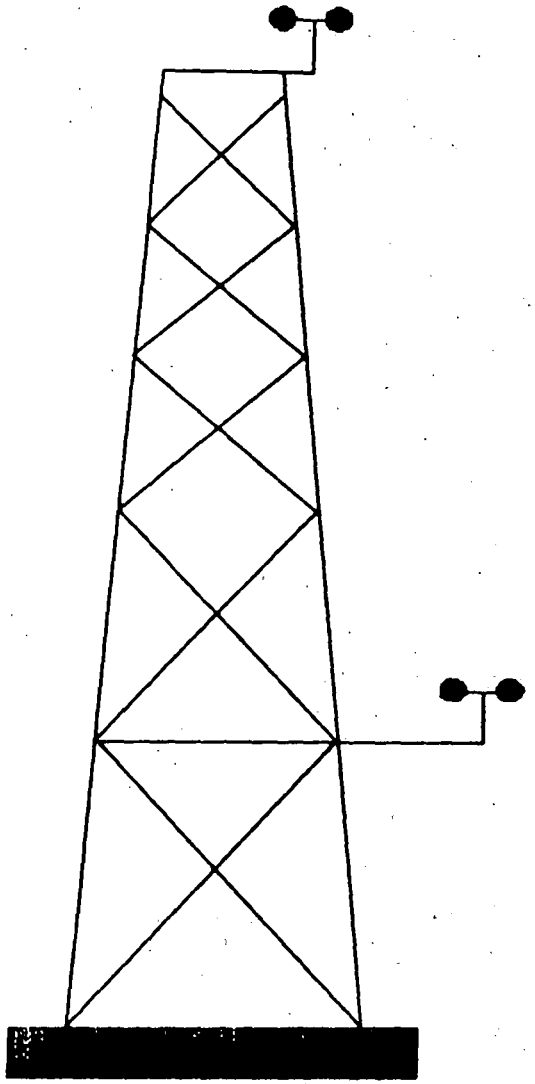


HEIGHT 60 METERS

WIND DIRECTION	223	CIRCULAR DEGREES
STD DEVIATION	8.1	CIRCULAR DEGREES
WIND SPEEED	17	MPH
DELTA TEMPERATURE	-0.7	DEG C
STABILITY	D	PASQ

HEIGHT 10 METERS

WIND DIRECTION	223	CIRCULAR DEGREES
STD DEVIATION	8.1	CIRCULAR DEGREES
WIND SPEEED	13	MPH
TEMPERATURE	8.9	DEG C



HEIGHT 60 METERS

WIND DIRECTION	226	CIRCULAR DEGREES
STD DEVIATION	7.1	CIRCULAR DEGREES
WIND SPEEED	9	MPH
DELTA TEMPERATURE	-0.5	DEG C
STABILITY	E	PASQ

HEIGHT 10 METERS

WIND DIRECTION	226	CIRCULAR DEGREES
STD DEVIATION	7.1	CIRCULAR DEGREES
WIND SPEEED	7	MPH
TEMPERATURE	8.8	DEG C

10/22/96 08

QUID RADIATION MONITORS

MPONENT COOLING TER
130 cpm

RVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

M GEN BLOWDOWN
1300 cpm

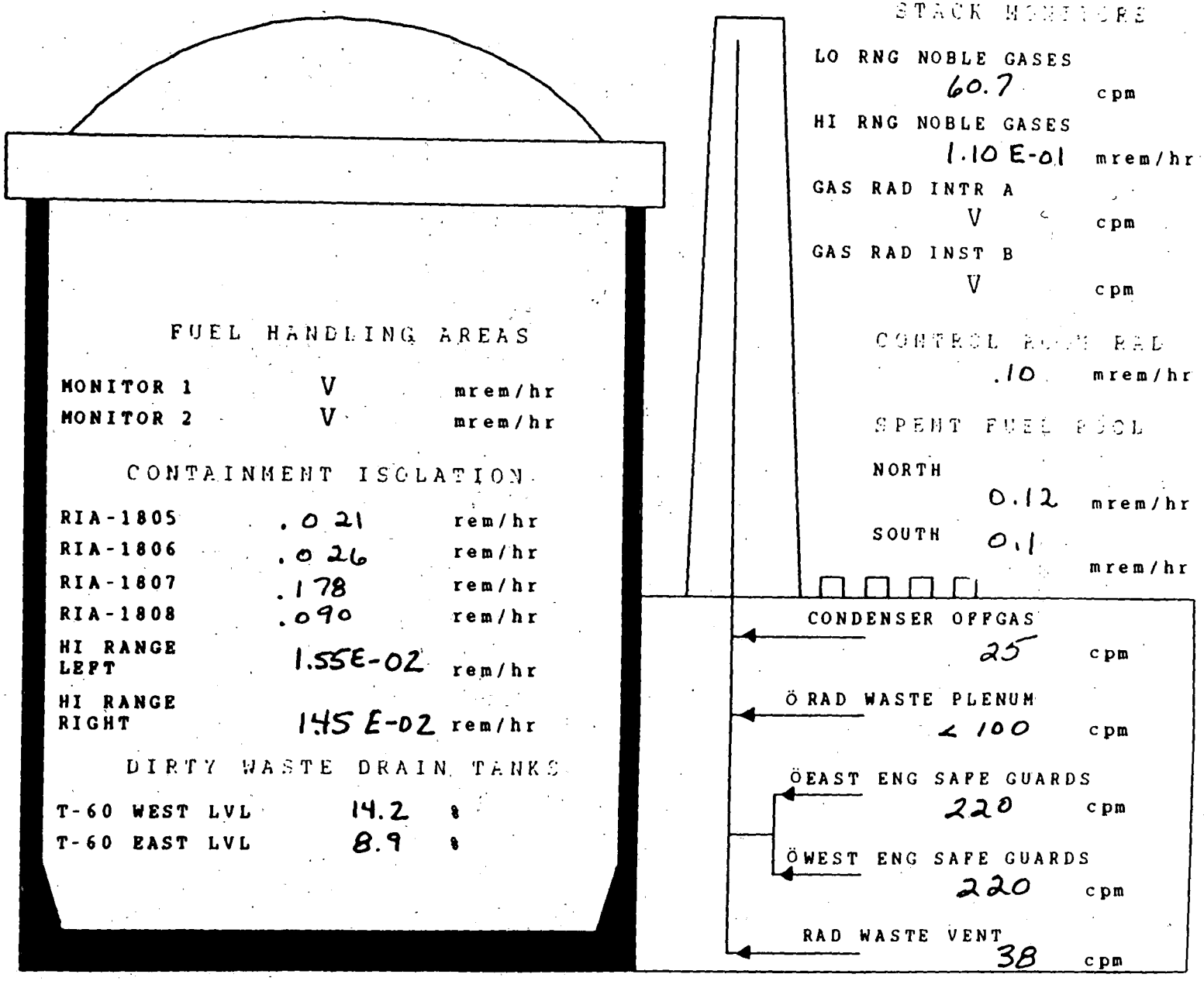
XING BASIN
280 cpm

AILED FUEL
2.47E04 cpm

AIN STEAM A
40 cpm

AIN STEAM B
20 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION



FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.021	rem/hr
RIA-1806	.026	rem/hr
RIA-1807	.178	rem/hr
RIA-1808	.090	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
60.7 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD

.10 mrem/hr

SPENT FUEL POOL

NORTH
0.12 mrem/hr

SOUTH 0.1 mrem/hr

CONDENSER OFFGAS
25 cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

F6 CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9 METEOR-LOGICAL | F10 | F11 | F12 | F13 | F14 | F15

10/22/96 0815

QUID RADIATION MONITORS

MPONENT COOLING TER
130 cpm

>RVICE WATER
380 cpm

>D WASTE DISCHG
454 cpm

M GEN BLOWDOWN
1300 cpm

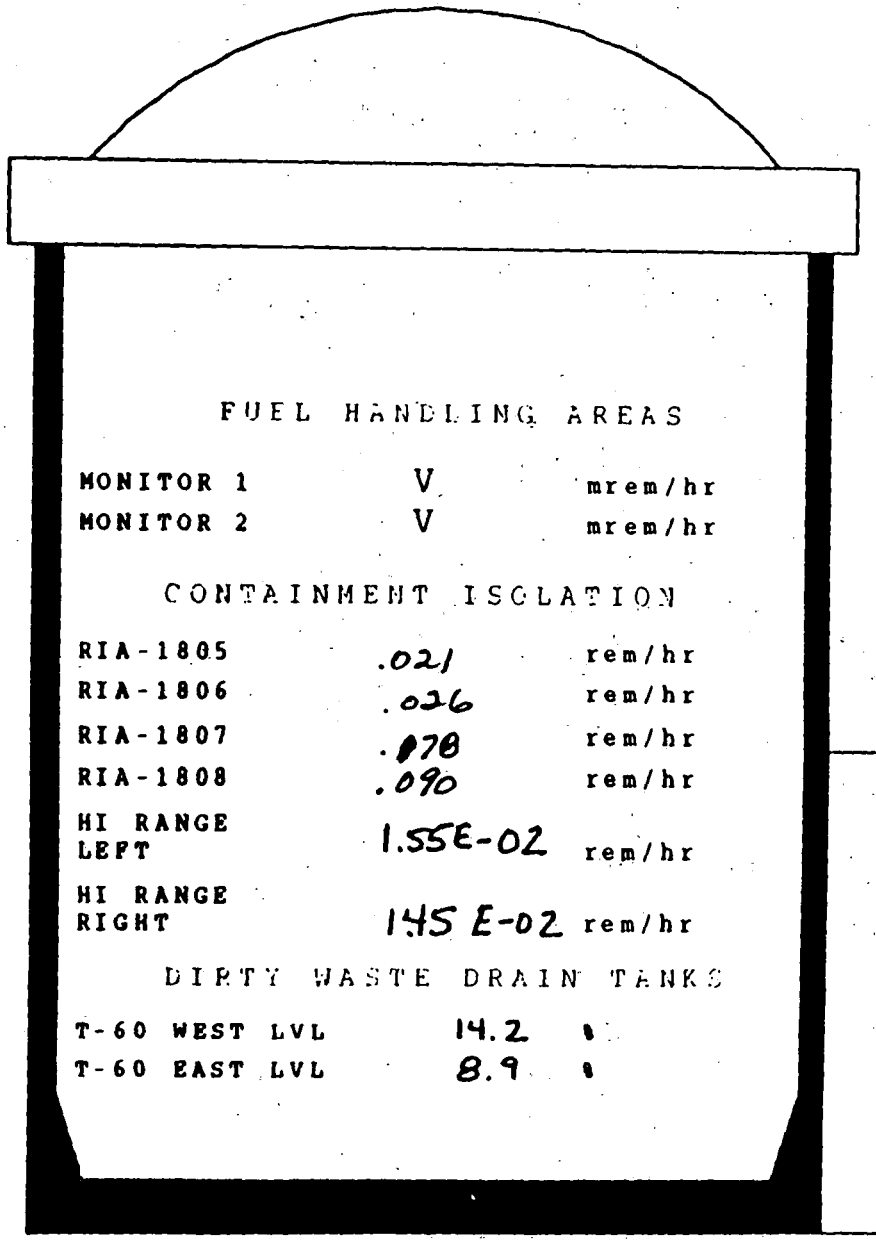
IXING BASIN
280 cpm

AILED FUEL
2.47E04 cpm

AIN STEAM A
40 cpm

AIN STEAM B
20 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION



FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.021	rem/hr
RIA-1806	.026	rem/hr
RIA-1807	.078	rem/hr
RIA-1808	.090	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	1.45 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
61.2 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.10 mrem/hr

SPENT FUEL POOL

NORTH
0.12 mrem/hr

SOUTH
0.10 mrem/hr

CONDENSER OFFGAS
25 cpm

Ö RAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96 0830

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
130 cpm

SERVICE WATER
380 cpm

RAD WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
1300 cpm

MIXING BASIN
280 cpm

FAILED FUEL
2.47E04 cpm

MAIN STEAM A
40 cpm

MAIN STEAM B
20 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.021	rem/hr
RIA-1806	.026	rem/hr
RIA-1807	.178	rem/hr
RIA-1808	.090	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
61.7 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.10 mrem/hr

SPENT FUEL POOL

NORTH
0.12 mrem/hr

SOUTH
0.10 mrem/hr

CONDENSER OFFGAS
25 cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

F6 CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9 METEOR-LOGICAL | F10 | F11 | F12 | F13 | F14 | F15:

10/22/96

QUID RADIATION MONITORS

MPONENT COOLING TER
130 cpm

RVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

M GEN BLOWDOWN
2.28 E04 cpm

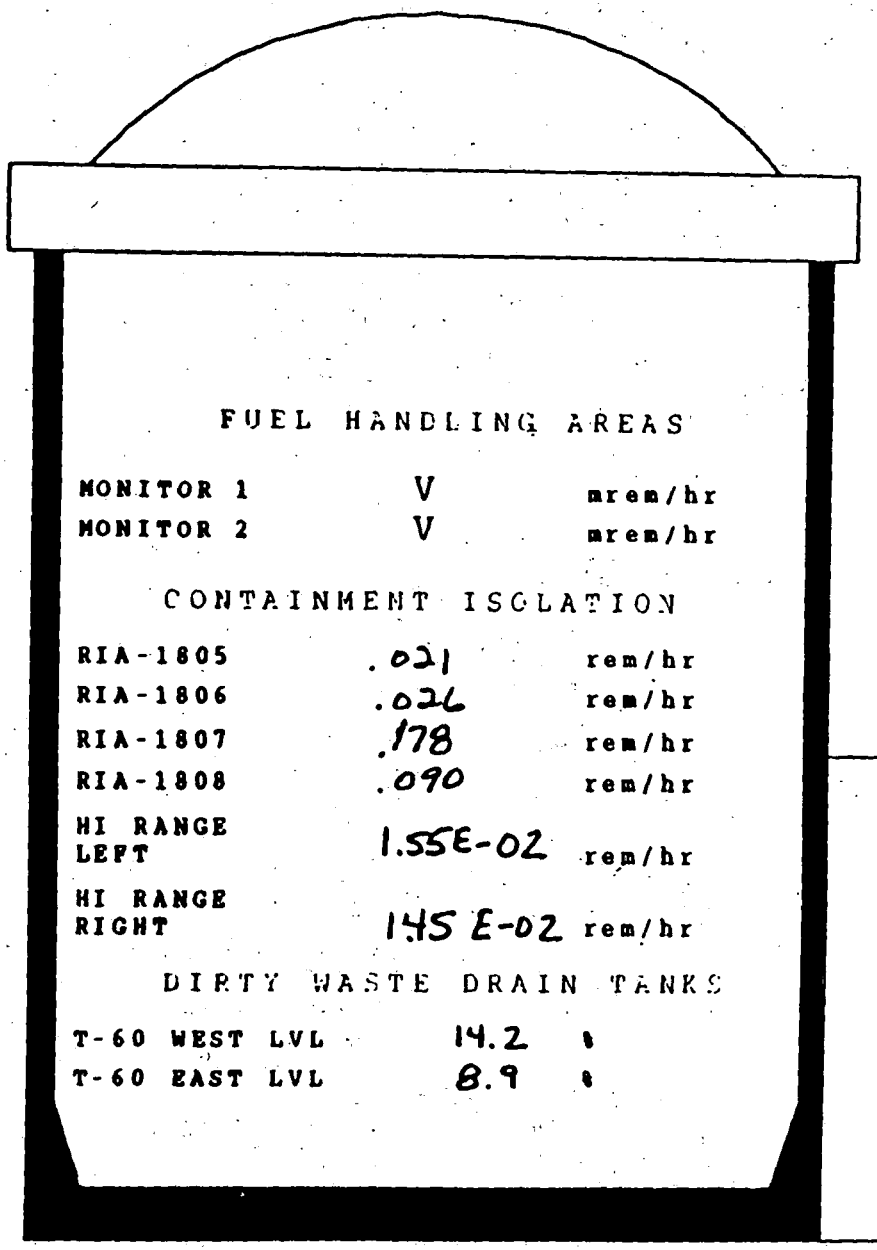
EXING BASIN
280 cpm

AILED FUEL
2.38 E04 cpm

AIN STEAM A
40 cpm

AIN STEAM B
PEAK AT 400→ 48 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION



FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.021	rem/hr
RIA-1806	.026	rem/hr
RIA-1807	.178	rem/hr
RIA-1808	.090	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
62.1 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.10 mrem/hr

SPENT FUEL POOL

NORTH
0.12 mrem/hr

SOUTH
0.10 mrem/hr

CONDENSER OFFGAS
2.30 E06 cpm

Ö RAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

F6 CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9 METEOR-LOGICAL | F10 | F11 | F12 | F13 | F14 | F15

10/22/96 09c

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
130 cpm

SERVICE WATER
380 cpm

LIQ WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
2.55 E04 cpm

SPENT FUEL PIT HX
280 cpm

FAILED FUEL
1.17 E04 cpm

MAIN STEAM A
40 cpm

MAIN STEAM B
48 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.021	rem/hr
RIA-1806	.026	rem/hr
RIA-1807	.178	rem/hr
RIA-1808	.090	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	1.45 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
63.8 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.10 mrem/hr

SPENT FUEL POOL

NORTH
0.12 mrem/hr

SOUTH
0.10 mrem/hr

CONDENSER OFFGAS
5.95 E06 cpm

RAD WASTE PLENUM
< 100 cpm

EAST ENG SAFE GUARDS
220 cpm

WEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96

QUID RADIATION MONITORS

MPONENT COOLING TER
130 cpm

RVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

PH GEN BLOWDOWN
OSH cpm

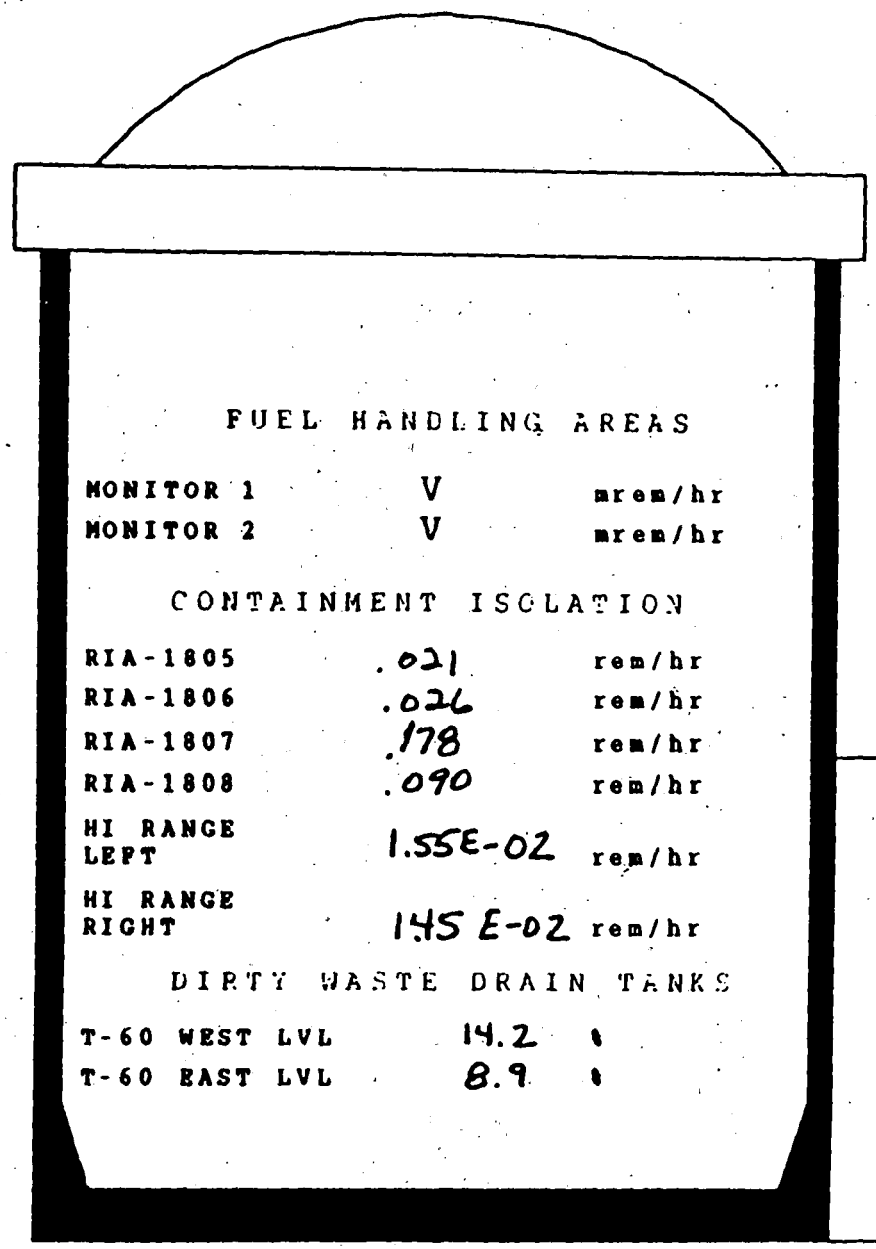
XING BASIN
280 cpm

AILED FUEL
2.4E04 cpm

AIN STEAM A
40 cpm

AIN STEAM B
48 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION



FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.021	rem/hr
RIA-1806	.026	rem/hr
RIA-1807	.178	rem/hr
RIA-1808	.090	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
62.4 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.10 mrem/hr

SPENT FUEL POOL

NORTH
0.12 mrem/hr

SOUTH
0.10 mrem/hr

CONDENSER OFFGAS
2.5E03 cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96 0,30

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
130 cpm

SERVICE WATER
380 cpm

RAD WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
OSH cpm

MIXING BASIN
280 cpm

FAILED FUEL
2.45 E04 cpm

MAIN STEAM A
40 cpm

MAIN STEAM B
48 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.021	rem/hr
RIA-1806	.026	rem/hr
RIA-1807	.178	rem/hr
RIA-1808	.090	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
61.6 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.10 mrem/hr

SPENT FUEL POOL

NORTH
0.12 mrem/hr

SOUTH
0.10 mrem/hr

CONDENSER OFFGAS
2.5E03 cpm

Ö RAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96 09

QUID RADIATION MONITORS

MPONENT COOLING TER
130 cpm

RVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

M GEN BLOWDOWN
05H cpm

XING BASIN
280 cpm

AILED FUEL
2.44E04 cpm

AIN STEAM A
40 cpm

AIN STEAM B
47 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.021	rem/hr
RIA-1806	.026	rem/hr
RIA-1807	.178	rem/hr
RIA-1808	.090	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
624 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.10 mrem/hr

SPENT FUEL POOL

NORTH
0.12 mrem/hr

SOUTH
0.10 mrem/hr

CONDENSER OFFGAS
2.5E03 cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

F6 CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9 METEOR-LOGICAL | F10 | F11 | F12 | F13 | F14 | F15

10/22/96 1000

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
130 cpm

SERVICE WATER
380 cpm

RAD WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
OSH cpm

MIXING BASIN
280 cpm

FAILED FUEL
1.36 E04 cpm

MAIN STEAM A
40 cpm

MAIN STEAM B
47 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.021	rem/hr
RIA-1806	.026	rem/hr
RIA-1807	.178	rem/hr
RIA-1808	.090	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
60.6 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.10 mrem/hr

SPENT FUEL POOL

NORTH
0.12 mrem/hr

SOUTH
0.10 mrem/hr

CONDENSER OFFGAS
2.5E03 cpm

Ö RAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

F6 CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9 METEOR-LOGICAL | F10 | F11 | F12 | F13 | F14 | F15

10/22/96

QUID RADIATION MONITORS

MPONENT COOLING TER
130 cpm

RVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

M GEN BLOWDOWN
OSH cpm

IXING BASIN
280 cpm

AILED FUEL
2.42 E04 cpm

AIN STEAM A
40 cpm

AIN STEAM B
47 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.021	rem/hr
RIA-1806	.026	rem/hr
RIA-1807	.178	rem/hr
RIA-1808	.090	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
61.7 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.10 mrem/hr

SPENT FUEL POOL

NORTH
0.12 mrem/hr

SOUTH
0.10 mrem/hr

CONDENSER OFFGAS
2.5E03 cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

F6 CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9 METEOR-LOGICAL | F10 | F11 | F12 | F13 | F14 | F15

10/22/96 10.

QUID RADIATION MONITORS

MPONENT COOLING TER
130 cpm

RVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

M GEN BLOWDOWN
OSH cpm

XING BASIN
280 cpm

ILED FUEL
2.41E04 cpm

AIN STEAM A
40 cpm

AIN STEAM B
47 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.021	rem/hr
RIA-1806	.026	rem/hr
RIA-1807	.178	rem/hr
RIA-1808	.090	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
60.5 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.10 mrem/hr

SPENT FUEL POOL

NORTH
0.12 mrem/hr

SOUTH
0.10 mrem/hr

CONDENSER OFFGAS
2.5E03 cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96 1C

QUID RADIATION MONITORS

MPONENT COOLING TER
OSH cpm

>RVICE WATER
380 cpm

AD WASTE DISCHG
454 cpm

M GEN BLOWDOWN
OSH cpm

IXING BASIN
280 cpm

AILED FUEL
1.00 E05 cpm

AIN STEAM A
50 cpm

AIN STEAM B
7550 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.698	rem/hr
RIA-1806	.698	rem/hr
RIA-1807	6.08	rem/hr
RIA-1808	3.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
60.5 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.54 mrem/hr

SPENT FUEL POOL

NORTH
50 mrem/hr

SOUTH
50 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

F6 CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9 METEOR-LOGICAL | F10 | F11 | F12 | F13 | F14 | F15

10/22/96 1.

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
OSH cpm

SERVICE WATER
380 cpm

RAD WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
OSH cpm

MIXING BASIN
280 cpm

FAILED FUEL
9.0E05 cpm

MAIN STEAM A
140 cpm

MAIN STEAM B
9050 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.798	rem/hr
RIA-1806	.798	rem/hr
RIA-1807	7.08	rem/hr
RIA-1808	3.52	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
60.9 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
.78 mrem/hr

SPENT FUEL POOL

NORTH
70 mrem/hr

SOUTH
70 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

F6 CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9 METEOR-LOGICAL | F10 | F11 | F12 | F13 | F14 | F15

QUID RADIATION MONITORS

MPONENT COOLING TER
OSH cpm

RVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

M GEN BLOWDOWN
OSH cpm

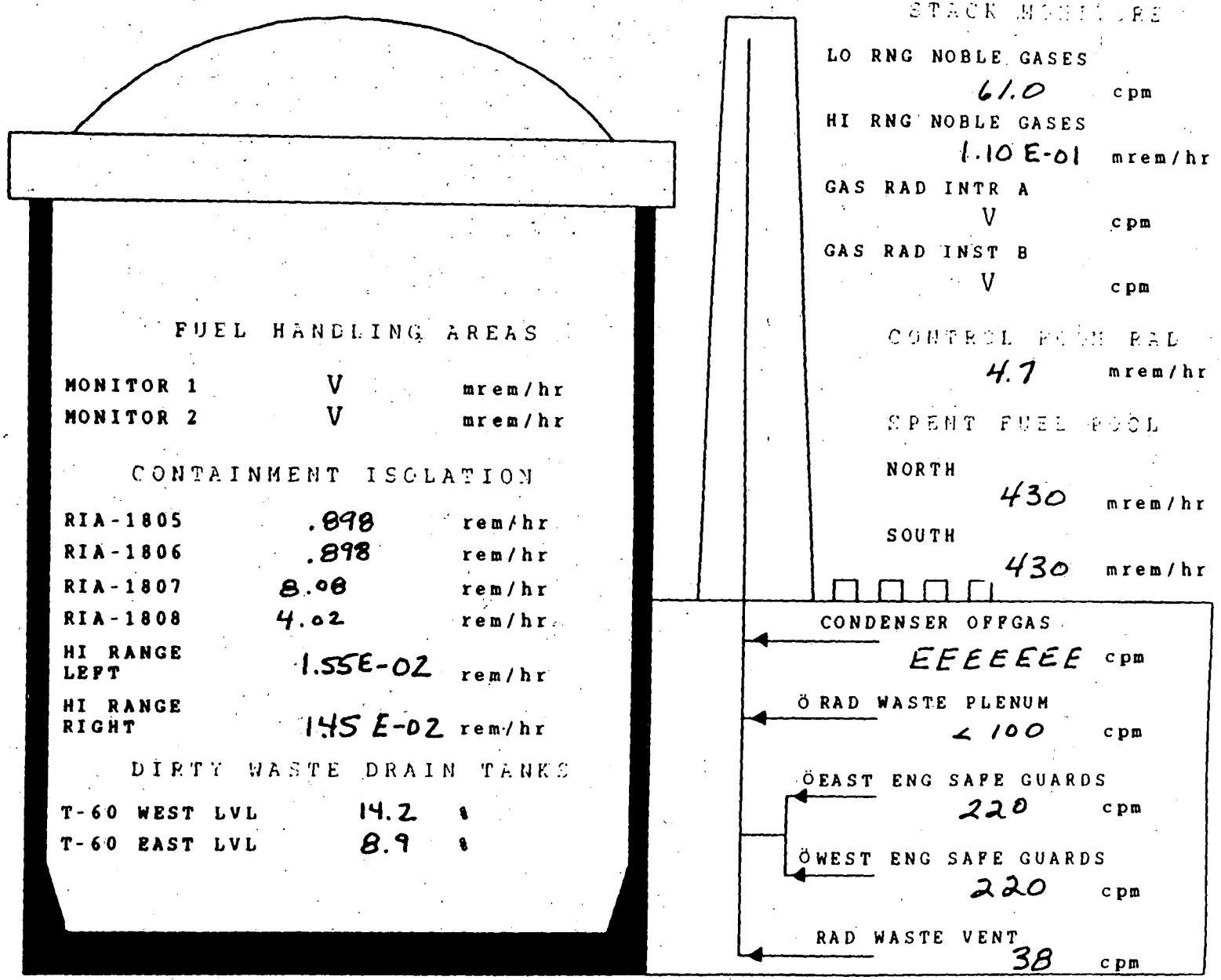
XING BASIN
280 cpm

AILED FUEL
OSH cpm

AIN STEAM A
165 cpm

AIN STEAM B
12000 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION



FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.898	rem/hr
RIA-1806	.898	rem/hr
RIA-1807	8.08	rem/hr
RIA-1808	4.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
61.0 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
4.7 mrem/hr

SPENT FUEL POOL

NORTH
430 mrem/hr

SOUTH
430 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96

QUID RADIATION MONITORS

MPONENT COOLING TER
OSH cpm

RVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

M GEN BLOWDOWN
OSH cpm

IXING BASIN
280 cpm

AILED FUEL
OSH cpm

AIN STEAM A
190 cpm

AIN STEAM B
15000 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.998	rem/hr
RIA-1806	.998	rem/hr
RIA-1807	9.08	rem/hr
RIA-1808	4.52	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
61.0 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
10.3 mrem/hr

SPENT FUEL POOL

NORTH
930 mrem/hr

SOUTH
930 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

Ö RAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96 1:05

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
OSH cpm

SERVICE WATER
380 cpm

RAD WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
OSH cpm

MIXING BASIN
280 cpm

FAILED FUEL
OSH cpm

MAIN STEAM A
13 000 cpm

MAIN STEAM B
140 cpm

* DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	1.10	rem/hr
RIA-1806	1.10	rem/hr
RIA-1807	10.1	rem/hr
RIA-1808	5.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
61.2 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
9.7 mrem/hr

SPENT FUEL POOL

NORTH
880 mrem/hr

SOUTH
880 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

Ö RAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96 12

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
OSH cpm

SERVICE WATER
380 cpm

RAD WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
OSH cpm

MIXING BASIN
280 cpm

FAILED FUEL
OSH cpm

MAIN STEAM A
130 cpm

MAIN STEAM B
12000 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	1.10	rem/hr
RIA-1806	1.10	rem/hr
RIA-1807	10.1	rem/hr
RIA-1808	5.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
63.1 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
4.6 mrem/hr

SPENT FUEL POOL

NORTH
600 mrem/hr

SOUTH
600 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
OSH cpm

SERVICE WATER
380 cpm

RAD WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
OSH cpm

MIXING BASIN
280 cpm

FAILED FUEL
OSH cpm

MAIN STEAM A
130 cpm

MAIN STEAM B
11000 cpm

: DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.998	rem/hr
RIA-1806	.998	rem/hr
RIA-1807	9.08	rem/hr
RIA-1808	4.52	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	1.45 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
63.9 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
5.3 mrem/hr

SPENT FUEL POOL

NORTH
480 mrem/hr

SOUTH
480 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

Ö RAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

F6 CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9 METEOROLOGICAL | F10 | F11 | F12 | F13 | F14 | F15

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
OSH cpm

SERVICE WATER
380 cpm

RAD WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
OSH cpm

MIXING BASIN
280 cpm

FAILED FUEL
OSH cpm

MAIN STEAM A
130 cpm

MAIN STEAM B
10000 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.898	rem/hr
RIA-1806	.898	rem/hr
RIA-1807	8.08	rem/hr
RIA-1808	4.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
63.9 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
4.4 mrem/hr

SPENT FUEL POOL

NORTH
400 mrem/hr

SOUTH
400 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

Ö RAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96 1

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
OSH cpm

SERVICE WATER
380 cpm

RAD WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
OSH cpm

MIXING BASIN
280 cpm

FAILED FUEL
OSH cpm

MAIN STEAM A
130 cpm

MAIN STEAM B
9000 cpm

: DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.798	rem/hr
RIA-1806	.798	rem/hr
RIA-1807	7.08	rem/hr
RIA-1808	3.52	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
61.5 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
3.5 mrem/hr

SPENT FUEL POOL

NORTH
320 mrem/hr

SOUTH
320 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

Ö RAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

F6: CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9: METEOR-LOGICAL | F10 | F11 | F12 | F13 | F14 | F15:

10/22/96 1-

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
OSH cpm

SERVICE WATER
380 cpm

RAD WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
OSH cpm

MIXING BASIN
280 cpm

FAILED FUEL
OSH cpm

MAIN STEAM A
130 cpm

MAIN STEAM B
8500 cpm

: DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.698	rem/hr
RIA-1806	.698	rem/hr
RIA-1807	4.08	rem/hr
RIA-1808	3.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
62.5 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
3.1 mrem/hr

SPENT FUEL POOL

NORTH
275 mrem/hr

SOUTH
275 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

Ö RAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

F6: CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9 METEOROLOGICAL | F10 | F11 | F12 | F13 | F14 | F15:

10/22/96 13

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
OSH cpm

SERVICE WATER
380 cpm

LIQ WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
OSH cpm

AUXILIARY BASIN
280 cpm

SPENT FUEL
OSH cpm

MAIN STEAM A
130 cpm

MAIN STEAM B
8000 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.698	rem/hr
RIA-1806	.698	rem/hr
RIA-1807	4.08	rem/hr
RIA-1808	3.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
63.5 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
2.7 mrem/hr

SPENT FUEL POOL

NORTH
245 mrem/hr

SOUTH
245 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

RAD WASTE PLENUM
< 100 cpm

EAST ENG SAFE GUARDS
220 cpm

WEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96 1

QUID RADIATION MONITORS

MPONENT COOLING TER
OSH cpm

RVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

M GEN BLOWDOWN
OSH cpm

XING BASIN
280 cpm

ILED FUEL
OSH cpm

AIN STEAM A
130 cpm

AIN STEAM B
7500 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.698	rem/hr
RIA-1806	.698	rem/hr
RIA-1807	4.08	rem/hr
RIA-1808	3.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
62.9 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
2.7 mrem/hr

SPENT FUEL POOL

NORTH
245 mrem/hr

SOUTH
245 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96 1

QUID RADIATION MONITORS

MPONENT COOLING TER
OSH cpm

RVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

M GEN BLOWDOWN
OSH cpm

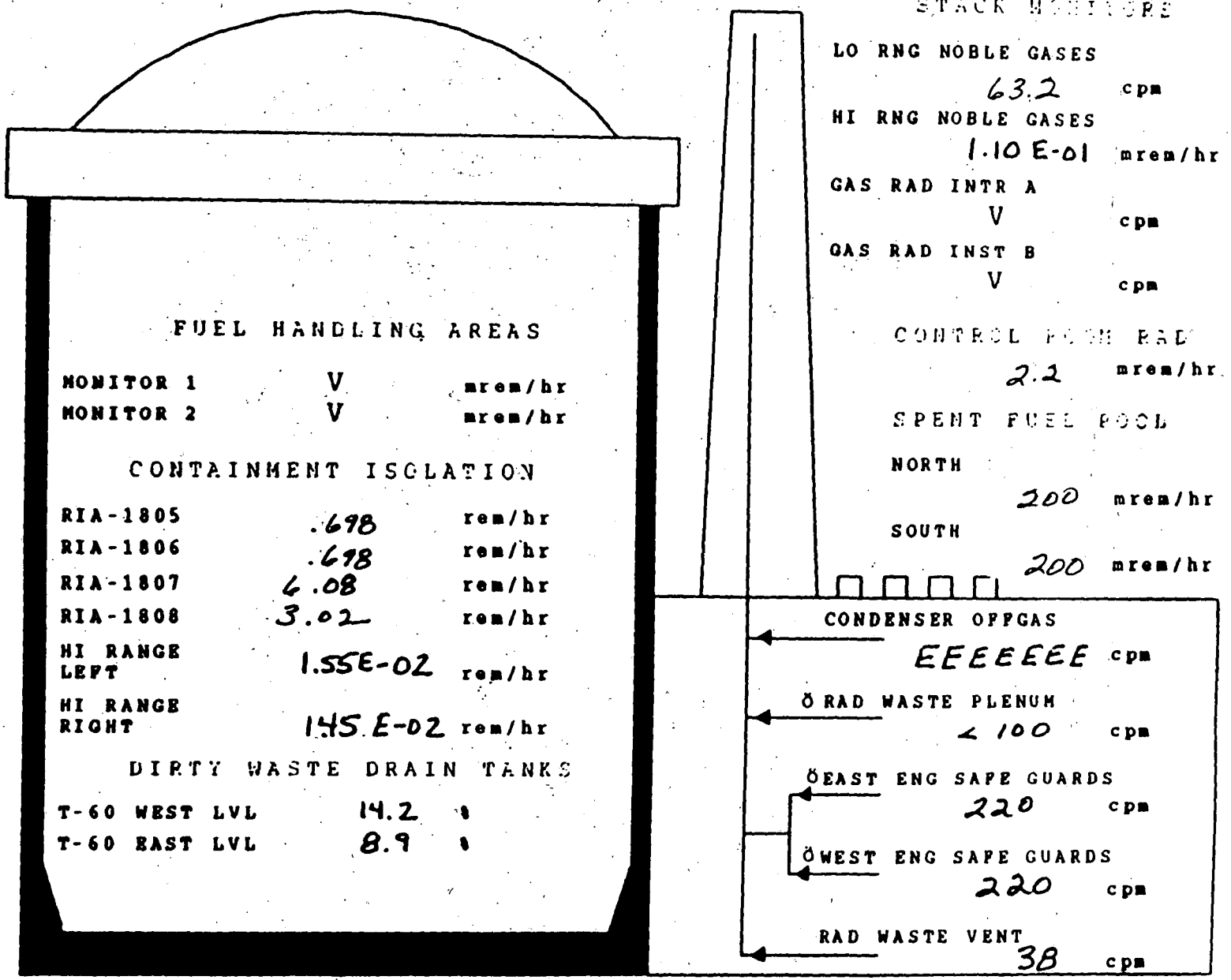
XING BASIN
280 cpm

ILED FUEL
OSH cpm

AIN STEAM A
130 cpm

AIN STEAM B
7000 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION



FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.698	rem/hr
RIA-1806	.698	rem/hr
RIA-1807	6.08	rem/hr
RIA-1808	3.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145.E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
63.2 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
2.2 mrem/hr

SPENT FUEL POOL

NORTH
200 mrem/hr

SOUTH
200 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

RADIOLOGICAL

10/22/96 11

QUID RADIATION MONITORS

MPONENT COOLING TER
OSH cpm

RVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

N GEN BLOWDOWN
OSH cpm

XING BASIN
280 cpm

ILED FUEL
OSH cpm

IN STEAM A
130 cpm

AIN STEAM B
6500 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.698	rem/hr
RIA-1806	.698	rem/hr
RIA-1807	4.08	rem/hr
RIA-1808	3.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
61.0 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
1.8 mrem/hr

SPENT FUEL POOL

NORTH
160 mrem/hr

SOUTH
160 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

10/22/96 14.

QUID RADIATION MONITORS

MPONENT COOLING TER
OSH cpm

NVICE WATER
380 cpm

D WASTE DISCHG
454 cpm

M GEN BLOWDOWN
OSH cpm

XING BASIN
280 cpm

ILED FUEL
OSH cpm

AIN STEAM A
130 cpm

AIN STEAM B
6000 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.698	rem/hr
RIA-1806	.698	rem/hr
RIA-1807	4.08	rem/hr
RIA-1808	3.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
60.8 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
1.4 mrem/hr

SPENT FUEL POOL

NORTH
130 mrem/hr

SOUTH
130 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

Ö RAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK

CFMS | F7 ENVIRON MENU | F8 ENVIRON | F9 METEOR-LOGICAL | F10 | F11 | F12 | F13 | F14 | F15

10/22/96 1130

LIQUID RADIATION MONITORS

COMPONENT COOLING WATER
OSH cpm

SERVICE WATER
380 cpm

RAD WASTE DISCHG
454 cpm

STM GEN BLOWDOWN
OSH cpm

MIXING BASIN
280 cpm

FAILED FUEL
OSH cpm

MAIN STEAM A
130 cpm

MAIN STEAM B
5500 cpm

DECADE DEPENDENT ON CONTROL ROOM SWITCH POSITION

FUEL HANDLING AREAS

MONITOR 1	V	mrem/hr
MONITOR 2	V	mrem/hr

CONTAINMENT ISOLATION

RIA-1805	.698	rem/hr
RIA-1806	.698	rem/hr
RIA-1807	4.08	rem/hr
RIA-1808	3.02	rem/hr
HI RANGE LEFT	1.55E-02	rem/hr
HI RANGE RIGHT	145 E-02	rem/hr

DIRTY WASTE DRAIN TANKS

T-60 WEST LVL	14.2	%
T-60 EAST LVL	8.9	%

STACK MONITORS

LO RNG NOBLE GASES
60.4 cpm

HI RNG NOBLE GASES
1.10 E-01 mrem/hr

GAS RAD INTR A
V cpm

GAS RAD INST B
V cpm

CONTROL ROOM RAD
1.1 mrem/hr

SPENT FUEL POOL

NORTH
100 mrem/hr

SOUTH
100 mrem/hr

CONDENSER OFFGAS
EEEEEEE cpm

ÖRAD WASTE PLENUM
< 100 cpm

ÖEAST ENG SAFE GUARDS
220 cpm

ÖWEST ENG SAFE GUARDS
220 cpm

RAD WASTE VENT
38 cpm

OK