

OYSTER CREEK NUCLEAR GENERATING STATION

ANNUAL EXERCISE SCENARIO

MAY 10, 1984

APPROVALS

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1.0 TITLE

OCNGS ANNUAL EXERCISE
OPERATING SHIFT
INITIAL RESPONSE TEAM
FULL MOBILIZATION PRIORITY

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2.0 SCHEDULE OF EVENTS

- 2.1 OBSERVER BRIEFING
DATE AND TIME: MAY 9, 1984, 1:30 P.M.
LOCATION: BUILDING #12, (OLD NEOF), FORKED RIVER
- 2.2 EXERCISE PERIOD:
DATE AND TIME: MAY 10, 1984, 4:00 P.M. TO APPROX. 10:00 P.M.
- 2.3 OBSERVER DE-BRIEF
DATE AND TIME: MAY 11, 1984, 10:30 A.M.
LOCATION: ENERGY SPECTRUM, FORKED RIVER
- 2.4 CRITIQUE:
DATE & TIME: MAY 11, 1984, 3:30 P.M.
LOCATION: ENERGY SPECTRUM, FORKED RIVER

3.0 PURPOSE

A joint exercise will be conducted to demonstrate the level of emergency preparedness of the Oyster Creek Nuclear Generating Station, the State of New Jersey, Ocean County and various municipalities within the Plume Exposure Pathway EPZ to respond to a radiological emergency at Oyster Creek. This demonstration will be accomplished through the implementation of emergency plans dedicated to the response to an Oyster Creek incident.

4.0 OCNGS OBJECTIVES

The Oyster Creek Nuclear Generating Station Exercise Objectives are as follows:

A. Incident Assessment and Classification

1. Demonstrate the ability of the control room operators to promptly recognize that emergency action levels have been reached or exceeded, properly declare the emergency and implement the Emergency Plan.
2. Demonstrate the ability of the operators to assess plant conditions, effectively utilize engineering support, and implement procedures in order to place the plant in a safe condition.
3. Illustrate the ability of the plant to mitigate the in-plant and offsite consequences of a radiological release through operational manipulations.
4. Demonstrate the adequacy of the Emergency Operating and Emergency Plan Implementing Procedures.

B. Notification and Communications

1. Demonstrate that adequate and reliable communications exist to accomplish appropriate and timely notification of offsite agencies.
2. Demonstrate that adequate emergency communications systems are in place to facilitate transmittal of data among emergency response facilities.
3. Exhibit the ability to effectively use the emergency communications systems.
4. Demonstrate the ability to adequately alert station personnel of an emergency through the use of alarms and public address systems.
5. Demonstrate that adequate call out procedures exist to provide for timely mobilization of emergency response personnel.
6. Illustrate the ability to effectively communicate with emergency teams at the plant and offsite.
7. Exhibit proper recordkeeping and data display in emergency response facilities.
8. Demonstrate the ability to make required offsite notification of emergency declarations in a timely manner.

C. Radiological Consequence Assessment

1. Satisfactorily perform radiological and environmental monitoring activities in accordance with prescribed procedures.
2. Properly assess the monitoring data to formulate accurate offsite radiological dose projections.
3. Exhibit the proper use of appropriate post accident sampling procedures to support the emergency assessment process.
4. Demonstrate the ability to evaluate monitoring data, offsite radiological dose projections and plant conditions to arrive at appropriate protective action recommendations.
5. Illustrate effective coordination of the radiological and environmental assessment process with the New Jersey Office of Emergency Management and the Bureau of Radiation Protection.

D. Emergency Facilities

1. Demonstrate that sufficient and adequate emergency equipment exists to effectively perform all necessary emergency actions.
2. Illustrate that sufficient radiological protection exists for emergency personnel to properly carry out assigned roles and responsibilities in all facilities.
3. Demonstrate adequate security including a viable means of access control that permits entry by authorized personnel only.
4. Show that sufficient space is dedicated in emergency response facilities to allow for proper emergency response.

E. Emergency Direction and Control

1. Demonstrate that sufficient emergency personnel are available to properly mitigate the consequences of an emergency and support the emergency on a round-the-clock coverage schedule.
2. Exhibit timely and proper response of emergency personnel to activate emergency response facilities and carry out assigned roles and responsibilities.
3. Demonstrate that licensee management is in control in accordance with the existing emergency plan, that there is one unambiguously defined individual in charge of overall direction and coordination of the emergency response at all times.

E. Emergency Direction and Control (continued)

4. Demonstrate appropriate coordination with Federal, State, County and Municipal agencies.
5. Display proper transfer of responsibility between "on duty" and incoming emergency personnel.
6. Demonstrate the ability to support the emergency radiological assessment process while maintaining personnel radiation exposure as low as reasonably achievable.
7. Demonstrate that accountability within the Protected Area can be accomplished in a proper and timely manner.
8. Demonstrate the ability to account for all personnel within the protected area and that adequate provisions exist to carry out an orderly evacuation of the site.
9. Exhibit the ability to provide safe and timely onsite access to local offsite emergency services.
10. Demonstrate the ability to properly and safely respond to a fire.
11. Satisfactorily respond to a contaminated/injured person without jeopardizing his or her safety.
12. Demonstrate the capability to radiologically monitor and decontaminate personnel.

F. Recovery Operations

1. Illustrate the ability to recognize the transition to the recovery phase of the emergency and to develop recovery plans.
2. Illustrate the ability to implement the long-term recovery organization.

G. Public Information

1. Demonstrate the ability to develop and disseminate timely and accurate news releases.
2. Exhibit proper and timely activation of the Media Center.
3. Demonstrate effective rumor control techniques.
4. Demonstrate the ability to conduct news briefings and interface with the news media, elected officials and concerned citizens.

5.0 PARTICIPATING ORGANIZATIONS ONSITE

Operating Shift Personnel
Initial Response Emergency Team #3
Search and Rescue Personnel
Emergency Medical Assistance Personnel
Radiological Controls Personnel
Fire Brigade Personnel

6.0 PARTICIPATING ORGANIZATIONS OFFSITE

Full Mobilization Emergency Response Priority #3
New Jersey Office of Emergency Management
Bureau of Radiation Protection
NRC Headquarters and Region I Personnel
FEMA Region II Personnel
American Nuclear Insurers
Institute of Nuclear Power Operations
Ocean County Office of Emergency Management
Municipalities In And supporting The Plume Exposure Emergency Planning Zone

7.0 DRILL OBSERVERS

TO BE ANNOUNCED

8.0 SUMMARY

This exercise will involve full activation and participation of the licensee's onsite and offsite emergency response organizations and facilities.

The initial condition of the plant is as follows:

1. Plant has been operating at 100% power for eight months.
2. Containment Spray System I has just been declared inoperable due to failure of Torus Spray Valve (stuck open); the Drywell Spray Valve is stuck open (normal position) and both pumps have been tagged out of service to support corrective maintenance.

The scenario begins at 4:00 p.m. on May 10, 1984 with the control room operating personnel experiencing what appears to be a small tremor (.1g). This should cause the declaration of an UNUSUAL EVENT Emergency Action Level. This tremor results in a medical emergency; no contamination will be involved. The reactor and turbine building operators should make inspections for equipment and system damage. Nothing major will be found at this time, although a small crack in the CRD return line inside the drywell has occurred. Due to the unidentified leakage recorder on 3F being stuck at the normal 2.5 GPM leak rate, the control room operators are unaware of this small LOCA until the radwaste operators call in a leak rate (via a flow integrator) of 50 GPM. Some indications of this cracked CRD return line will be available due to abnormal CRD system flows and pressures on 4F along with a CRD high temperature alarm. An ALERT Emergency Action Level should be declared at 4:30 p.m. based on this 50 GPM leak rate and a normal reactor shutdown commenced. The Technical Support Center should be manned by 5:30 p.m. at which time a second, more severe tremor (.2g) is felt. This tremor results in a trip of the start-up transformer input breakers which cause both Emergency Diesel Generators to start and idle. At 5:35 p.m., a fire alarm from Emergency Diesel Generator #1 (EDG #1) cubicle is received on the control room master fire alarm panel. The fire is due to a split in the fuel line on EDG #1 which causes both diesels to trip, apparently disabled. This condition, coupled with a potential plant trip, should lead to the declaration of a SITE AREA Emergency Action Level.

Normal plant shutdown to minimum self-sustaining should continue, but a scram would result in loss of all AC power, except offsite 230KV which would take some time to bring on to the emergency busses (i.e., the manual main generator output disconnects in the turbine building mezzanine must be opened). At 5:40 p.m. a low shell water level alarm on #1 Isolation Condenser is received as the result of a cracked shell. This condenser should be isolated and declared inoperable. Other minor equipment failures and alarms will be discovered, but they will have little effect on continued plant operations. At 6:00 p.m., a third and very severe tremor (.3g) results in a complete break of the control rod drive (CRD) return line in the drywell. Fuel damage results and the reactor scrams on Main Steam Line High Radiation and/or Drywell high pressure. A bus fault occurs on 4160V bus D disabling Containment Spray System II; System I is already tagged out of service. Due to the valve line up on Containment Spray System I which effectively bypasses the Drywell to Torus downcomers (i.e., no steam suppression in torus), the Drywell and Torus begin to pressurize. At 6:05 p.m., the torus ruptures, releasing fission products to the Reactor Building. Electricians report problem with bank 5 start-up transformer (control power fuses blown) has been corrected and bus 1A & 1C can be energized. The Standby Gas Treatment System (SBGTS) will auto start and atmospheric release occurs through the stack. Due to the relatively small break size, the core will not uncover and core spray will also auto start. Tags on Containment Spray System I pumps could be cleared and drywell sprays initiated by about 6:45 p.m. By 8:00 p.m., the reactor should be in cold shutdown and the release nearly terminated. Accident assessment activities continue through the evening. The areas to be considered should include:

- 1) Repair of Torus
- 2) Repair of fault on Bus 1D
- 3) Repair fuel line on EDG #1
- 4) Repair of start-up transformer bank 6
- 5) Decontamination of Reactor Building.
- 6) Repairs to Containment Spray System I Valves.

The Exercise should be terminated by approximately 11:00 p.m.

ATTACHMENT A

A-1. PRE-EXERCISE CONTROL ROOM BRIEFING

- A. The Group Shift Supervisor may terminate the exercise at any time plant conditions warrant.
- B. All simulations and verifications will be expressed in spoken words.
- C. The purpose of the exercise is to test Emergency Plan Procedures and implementation of the major aspects of the Emergency Plan.
- D. All exercise-related public address announcements and offsite communications will begin and end with the statement "THIS IS A DRILL, THIS IS A DRILL"...
- E. Initial Emergenc, Response Team #3 and the Full Mobilization Priority Group #3 will respond to the exercise.
- F. The Lead Controller, Chip Fenton, may authorize the Exercise Controllers, Robin Brown or Art Rone, to modify the scenario to fit unusual conditions or events to maintain the scenario within the scope of the exercise objectives and in order to maximize the practical training benefit presented by the exercise experience.
- G. Answer questions from shift personnel regarding the exercise before proceeding to T=0 Major Scenario Events.

A-2. INITIAL CONDITIONS

- A. Plant Conditions:
 - 1930 Mwt for 8 months.
 - 640 Mwe
 - (Recirc flow = 61×10^6 lb/hr.)
 - (Feed flow = 7.23×10^6 lb/hr.)
- B. Containment Spray System I is out of service.
- C. All plant parameters are normal and stable.

ATTACHMENT A

A-3	<u>Simulations*</u>	<u>Actual</u>	<u>Simulated</u>
1.	Declaration of Emergency	X	
2.	Notification of Offsite Agencies	X	
3.	Emergency Announcements Over Plant Page	X	
4.	Activation of Initial Response Organization	X	
5.	Activation of Full Mobilization Organization	X	
6.	Full Accountability	X	
7.	Emergency Center Accountability	X	
8.	Search and Rescue	X	
9.	Full Site Evacuation of Personnel <u>Note:</u> Approx. 5 personnel will be evacuated to demonstrate capability.		X
10.	Reactor Building Evacuation	X	
11.	Onsite Emergency Medical Assistance to Injured Person	X	
12.	Phone Call Notifications to Hospital	X	
13.	Phone Call Request for Ambulance <u>Note:</u> Site ambulance may be utilized in lieu of notifying an outside agency.	X	
14.	Dispatching of Response Teams (Radiation Monitoring, Fire Brigade, Repair, etc.)	X	

*This list of items denotes the level of participation that may result if such action is requested or directed by the participants in response to scenario situations. It is not intended to be an absolute list of actions that will be taken.

ATTACHMENT A

A-4 EVENT TIME LINE AND ANTICIPATED RESPONSE

<u>T-Time</u>	<u>Clock Time</u>	<u>Activity/Response</u>
T= -15	3:45 PM	Exercise Pre-brief for Shift Personnel
T=0	4:00 PM	Control Room personnel experience what appears to be a small earthquake (.1g). No immediate alarms or indications of damage are seen at this time. The Group Shift Supervisor declares an UNUSUAL EVENT emergency action level, assumes the position as Emergency Director and dispatches equipment operators to check for equipment damage.
T=2	4:02 PM	The Control Room is informed that an injury has occurred at the intake structure. No contamination is involved. An electrician was working on the exciter on top of Circulating Water Pump 2 and fell off. He is unconscious but breathing (very shallow) and no external bleeding is evident. Pupils are equal and non-reactive. Vital signs are: blood pressure-220/40; pulse-70; respirations-8. The Reactor and Turbine Building operators should be dispatched to check for equipment damage. No major damage will be found at this time.
T=15	4:15 PM	"CRD TEMP HI" (H-5-c) alarm is received. Check of CRD Temp recorders on Panel 8R shows 2 (26-27 and 30-31) rods with temperatures about 250 degrees F and the rest are <u>slowly</u> rising (due to leak in return line).

ATTACHMENT A

A-4 EVENT TIME LINE AND ANTICIPATED RESPONSE

<u>T-Time</u>	<u>Clock Time</u>	<u>Activity/Response</u>
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CRD System Parameters:

System Flow - 65 gpm
Charging header press - 1525 psig
Drive header press - 75 psid
Cooling header press - 5 psid
Drive header flow - 0
Cooling header flow - 22 gpm (1/2 of normal)
Return to Reactor - 40 gpm (2 x normal)

Note

Operator should attempt to increase cooling water flow by throttling NC-40 shut to restore cooling header flow and pressure to normal limits (10-20 psid, 30-45 gpm). He should also return the CRD Drive header pressure to normal. This will cause more hot reactor water and less cold CRD return water to leak from crack in line.

T=20	4:20 PM
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"DW PRESS HI/LO" (C-3-f) alarm is received on panel 1F/2F. Recorder on 12XR reads 1.32 psig and slowly increasing.

Note

Alarm response procedure instructs operator to vent the drywell in accordance with Procedure 312 to maintain 1.2 to 1.3 psig in the drywell. This will be successful, but the vent valve will be open nearly continuously. Drywell temperature is still normal. The unidentified leakage recorder and alarm on 3F is to be assumed faulty and displays a normal leakage of 3 gpm.

ATTACHMENT A

A-4 EVENT TIME LINE AND ANTICIPATED RESPONSE

<u>T-Time</u>	<u>Clock Time</u>	<u>Activity/Response</u>
T=30	4:30 PM	A Radwaste Control Room Operator reports the DW sump pump integrator indicates about a 50 gpm leak rate. An ALERT Emergency Action Level is declared and a normal reactor shutdown commenced in accordance with Procedure 203.1 and 203.2.
<u>Note</u>		If GSS attempts to scram the reactor, a failure of the start-up transformers will be postulated. This will force a shutdown to self-sustaining only. TIP traces will be required to check for PCIOMR and MCPR limitations and the shutdown will be slowed up based on this (limit to 5MWth per minute and use recirc flow until 60% power vice inserting rods).
T=90	5:30 PM	The Technical Support Center should be manned by now. A second, more severe tremor (0.2g) occurs resulting in a loss of offsite 34.5 KV power. Both start-up transformer feeder breakers trip (if not simulated already). The following alarms are received: "86A/SA DC LOST" (S-2-b), "86A/SB DC LOST" (S-2-c), "SA VOLTS LO" (S-3-b), "SB VOLTS LO" (S-3-c), "SA TROUBLE" (S-7-b), "SB TROUBLE" (S-7-c). Both Emergency Diesel Generators should start and idle, if not already running per above note. Start-up transformer bank 5 may be re-energized after control power fuses are replaced, but after torus ruptures.

ATTACHMENT A

A-4 EVENT TIME LINE AND ANTICIPATED RESPONSE

<u>T-Time</u>	<u>Clock Time</u>	<u>Activity/Response</u>
T=95	5:35 PM	Diesel Generator I cubicle fire alarm is received on the Control Room master fire alarm panel. The fire is due to a leak on the fuel line and both diesels trip, apparently disabled. Initiate Fire Scenario (Attachment C-1). "EDG 1 DISABLED" (T-4-b), "EDG 1 ENG TEMP HI" (T-6-b), "EDG 2 DISABLED" (T-4-f), and "EDG 2 ENG TEMP HI" (T-6-f) alarms are received. Diesel Generator II may be restarted, if attempted. A SITE AREA EMERGENCY Action Level should be declared and Accountability initiated.
<u>Note</u>		With both emergency diesels apparently out of service and both start-up transformers apparently out of service, the impending reactor scram and generator trip would result in complete loss of all AC power. Normal reactor shutdown to self sustaining should continue.
T=100	5:40 PM	"SHELL A HI/LO" (C-6-a) alarm is received for Isolation Condenser "A". Indicator on 1F/2F reads 7.1 ft. and <u>slowly</u> dropping; Condenser "B" level is normal. Operator should attempt to refill Condenser "A" per Procedure 303 until the Reactor Building Operator reports the low level is due to a cracked shell. Then Condenser "A" should be isolated.

ATTACHMENT A

A-4 EVENT TIME LINE AND ANTICIPATED RESPONSE

<u>T-Time</u>	<u>Clock Time</u>	<u>Activity/Response</u>
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Note

Several other alarms will be received, but will have little effect on continued plant operation:

- a) "SURGE TANK LEVEL LO" (D-6-b) alarm received and clears.
- b) "VIBRATION HI" alarms are received for recirc pumps "B" and "D". Alarm for "D" pump clears when reset, but stays in for "B" pump. Operator should follow appropriate alarm response procedure to eventually secure pump per Procedure 301. Operator should consider effect on clean-up per Procedure 301 precautions.
- c) Augmented Off Gas System will trip, isolate and bypass valve (V-7-31) will open as expected.
- d) "FEED PUMP TRIP A" (J-1-d) alarm received. Pump has tripped, but is of no concern since plant should be less than 70% power due to continuing shut down.
- e) "TUBE SHEET CONDUCT HI" (K-7-b) due to small tube leak in condenser "A".
- f) "COMP 1 TRIP" (M-4-a) due to air compressor tripping. Back-up compressor comes on line satisfactorily.

ATTACHMENT A

A-4 EVENT TIME LINE AND ANTICIPATED RESPONSE

<u>T-Time</u>	<u>Clock Time</u>	<u>Activity/Response</u>
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| | | g) "AUX OIL PUMP RUNNING" (M-4-e) due to pump auto starting on an intermittent low pressure. Operator should secure pump after verifying proper oil flow and pressure from shaft driven oil pump. |
| | | h) "PUMP AUTO START" (Q-2-f) due to running, TBCCW pump tripping and standby pump coming on. Pump may be restarted, if desired. |
| | | i) "BAT CHR B TRIP" (U-2-e). Operator should place static charger on DC bus "B". |
| | | j) "DC-D PWR XFER" (9XF-3-e) ABT transferred to DC bus "A" for no apparent reason. Operator should have ABT returned to its normal supply DC bus "B". |

T=120	6:00 PM	
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A third tremor (.3g) occurs and results in a complete break of the CRD return line in the drywell. Fuel damage occurs in some Gadolinium type fuel rods due to exceeding PCIOMR limits on shutdown combined with seismic forces. The plant scrams and isolates as expected. A bus fault (ground) occurs on 4160V bus "D" as noted by alarms:

- "MN BRKR D TRIP" (T-1-e)
- "MN BRKR D OL TRIP" (T-2-e)
- "BUS D VOLTS LO" (T-3-e)
- "BUS D VOLTS LO LO" (T-4-e)
- "LKOUT RELAY TRIP" (T-1-f)
- "EDG 2 OV/GND" (T-3-f)

Emergency Operating Procedures should be entered at this time.

ATTACHMENT A

A-4 EVENT TIME LINE AND ANTICIPATED RESPONSE

<u>T-Time</u>	<u>Clock Time</u>	<u>Activity/Response</u>
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Note

Containment Spray System I is tagged out of service with both the drywell and torus spray valves stuck open and System II is disabled due to the bus "D" ground fault. The LOCA will cause a rapid uncontrolled Drywell and Torus pressurization to about 38 psig and then slowly climb to 50 psig in 5 minutes. This is much faster than real life, but 5 minutes was selected for simulation purposes.

T=125	6:05 PM	
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Operators should attempt to lower reactor pressure via Isolation Condenser "B" and EMRVs to reduce leak rate into drywell. The blow down stress combined with the 50 psig pressure stress breaks the torus near a ventilation duct suction above the Southwest corner room (break of torus vent line at torus to vent pipe weld). EOPs prevent venting containment due to drywell temperature greater than 212 degrees F. A GENERAL EMERGENCY Action Level should be declared and Site Evacuation initiated, if not directed earlier.

T=127	6:07 PM	
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Electrician replaces control power fuses for start-up transformer bank 5 in panel 12 F and operators may re-energize 4160 V buses "A" and "C". Tags on Containment spray System I should be cleared and drywell sprays initiated. Core spray should auto start or fire water injection could be used. Fuel should never become uncovered. The Standby Gas Treatment System should auto start and atmospheric release occurs through the stack.

ATTACHMENT A

A-4 EVENT TIME LINE AND ANTICIPATED RESPONSE

<u>T-Time</u>	<u>Clock Time</u>	<u>Activity/Response</u>
T=130	6:10 P.M.	
	to	
T=245	8:05 P.M.	From now until drill termination, the reactor plant parameters will be fairly stable and any changes in plant status will be provided by the drill controllers, as required. The release of radioactivity will continue through the stack at a constant rate until 8:05 P.M. and then terminate.
T=245	8:05 P.M.	Stack release assumed to terminate. Accident assessment and long-term planning should continue through the night. Contamination and high radiation will preclude reactor building entry for other than short term emergency access.

ATTACHMENT B-1
SOURCE TERM AND METEOROLOGICAL DATA

I. T=0 4:00 P.M.

A. Meteorology

1. 380 Feet

Wind Speed: 8.8 mph
Wind Direction: 85 degrees
Delta T (380-33): -1.8 degrees F

2. 150 Feet

Delta T (150-33)= -0.5 degrees F

3. 33 Feet

Wind Speed: 6.4 mph
Wind Direction: 87 degrees

B. Source Term: As Found

ATTACHMENT B-1
SOURCE TERM AND METEOROLOGICAL DATA

II. T=15 4:15 P.M.

A. Meteorology

1. 380 Feet

Wind Speed: 8.0 mph
Wind Direction: 82 degrees
Delta T (380-33): -1.5 degrees F

2. 150 Feet

Delta T (150-33)= -0.6 degrees F

3. 33 Feet

Wind Speed: 4.0 mph
Wind Direction: 83 degrees

B. Source Term: As Found

ATTACHMENT B-1
SOURCE TERM AND METEOROLOGICAL DATA

III. T=30 4:30 P.M.

A. Meteorology

1. 380 Feet

Wind Speed:	8.2 mph
Wind Direction:	75 degrees
Delta T (380-33):	-1.5 degrees F

2. 150 Feet

Delta T (150-33)=	-0.45 degrees F
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3. 33 Feet

Wind Speed:	5.0 mph
Wind Direction:	73 degrees

B. Source Term:	As Found
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ATTACHMENT B-1
SOURCE TERM AND METEOROLOGICAL DATA

IV. T=45 4:45 P.M.

A. Meteorology

1. 380 Feet

Wind Speed:	6.4 mph
Wind Direction:	67 degrees
Delta T (380-33):	-1.48 degrees F

2. 150 Feet

Delta T (150-33)=	-0.55 degrees F
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3. 33 Feet

Wind Speed:	4.8 mph
Wind Direction:	70 degrees

B. Source Term:	As Found
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ATTACHMENT B-1
SOURCE TERM AND METEOROLOGICAL DATA

V. T=60 5:00 P.M.

A. Meteorology

1. 380 Feet

Wind Speed:	6.1 mph
Wind Direction:	60 degrees
Delta T (380-33):	-1.3 degrees F

2. 150 Feet

Delta T (150-33)=	-0.60 degrees F
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3. 33 Feet

Wind Speed:	5.3 mph
Wind Direction:	58 degrees

B. Source Term: As Found

ATTACHMENT B-1
SOURCE TERM AND METEOROLOGICAL DATA

VI. T=75 5:15 P.M.

A. Meteorology

1. 380 Feet

Wind Speed:	5.7 mph
Wind Direction:	55 degrees
Delta T (380-33):	-1.25 degrees F

2. 150 Feet

Delta T (150-33)=	-0.48 degrees F
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3. 33 Feet

Wind Speed:	5.2 mph
Wind Direction:	53 degrees

B. Source Term:	As Found
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ATTACHMENT B-1
SOURCE TERM AND METEOROLOGICAL DATA

VII. T=90 5:30 P.M.

A. Meteorology

1. 380 Feet

Wind Speed: 4.43 mph
Wind Direction: 46 degrees
Delta T (380-33): -1.18 degrees F

2. 150 Feet

Delta T (150-33)= -0.45 degrees F

3. 33 Feet

Wind Speed: 4.02 mph
Wind Direction: 44 degrees

B. Source Term: As Found

ATTACHMENT B-1
SOURCE TERM AND METEOROLOGICAL DATA

VIII. T=105 5:45 P.M.

A. Meteorology

1. 380 Feet

Wind Speed:	3.20 mph
Wind Direction:	35 degrees
Delta T (380-33):	-1.1 degrees F

2. 150 Feet

Delta T (150-33)=	-0.40 degrees F
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3. 33 Feet

Wind Speed:	2.6 mph
Wind Direction:	30 degrees

B. Source Term:	As Found
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ATTACHMENT B-1
SOURCE TERM AND METEOROLOGICAL DATA

IX. T=120 6:00 P.M. to T=240 8:00 P.M.

A. Meteorology

1. 380 Feet

Wind Speed: 2.2 mph
Wind Direction: 25 degrees
Delta T (380-33): -0.75 degrees F

2. 150 Feet

Delta T (150-33)= -0.20 degrees F

3. 33 Feet

Wind Speed: 3.0 mph
Wind Direction: 27 degrees

B. Source Term:

1. Isotopic Concentration

T=125 6:05 P.M. to T=240 8:00 P.M.

<u>Isotope</u>	<u>Concentration (μCi/cc)</u>
Kr - 88	6.80 E-01
Xe - 133	3.14 E-01
Kr - 87	1.96 E-01
Xe - 135	1.42 E-01
Kr - 85m	9.95 E-02
Xe - 135m	7.93 E-02
Xe - 133m	1.66 E-02
Kr - 85	2.29 E-03
I - 131	5.0 E-03
I - 133	5.0 E-03

2. Stack Flow Rate = 1.35 E + 05 cfm

3. Estimated duration of release = 2 hours

ATTACHMENT B-1
SOURCE TERM AND METEOROLOGICAL DATA

X. T=240 8:00 P.M. to T=420 11:00 P.M.

A. Meteorology

1. 380 Feet

Wind Speed:	2.2 mph
Wind Direction:	24 degrees
Delta T (380-33):	-0.95 degrees F

2. 150 Feet

Delta T (150-33)=	-0.30 degrees F
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3. 33 Feet

Wind Speed:	2.0 mph
Wind Direction:	25 degrees

B. Source Term: As Found

ATTACHMENT B-1
SOURCE TERM AND METEOROLOGICAL DATA

XI. T=420 11:00 P.M. to Termination

A. Meteorology

1. 380 Feet

Wind Speed: 15 mph
Wind Direction: 30 degrees
Delta T (380-33): -2.0 degrees F

2. 150 Feet

Delta T (150-33)= -0.50 degrees F

3. 33 Feet

Wind Speed: 14 mph
Wind Direction: 25 degrees

B. Source Term: As Found

OCNGS
ANNUAL EXERCISE
1984

ATTACHMENT B-2

DATE: 5-10-84
MONITORING POINT: SSW-2

OYSTER CREEK NUCLEAR GENERATING STATION
OFFSITE MONITORING TEAMS
FIELD DATA

Sample Time	General Area Radiation Levels (ow) mR/hr (cw)		Filter-Absorber count rate (FACpm)	Bare-Absorber count rate (ACpm)	Background cpm
1800	< 0.1	< 0.1	< MDA	< MDA	As Found
1830	< 0.1	< 0.1			
1845	180	90			
1900	175	95			
1915	170	90			
1930	165	90			
1945	175	95			
2000	180	95			
2015	175	95			
2030	170	90			
2045	140	95			
2100	< 0.1	< 0.1			
2115	< 0.1	< 0.1			
2130	< 0.1	< 0.1			
2145	< 0.1	< 0.1			
2200	< 0.1	< 0.1			
to Termination	< 0.1	< 0.1	↓	↓	↓

UCNGS
ANNUAL EXERCISE
1984

ATTACHMENT B-2

DATE: 5-10-84
MONITORING POINT: SSW-4

OYSTER CREEK NUCLEAR GENERATING STATION
OFFSITE MONITORING TEAMS
FIELD DATA

Sample Time	General Area Radiation Levels (ow) mR/hr (cw)		Filter-Absorber count rate (FACpm)	Bare-Absorber count rate (ACpm)	Background cpm
1800	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>
1830	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>
1845	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>
1900	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>
1915	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>
1930	<u>> 200</u>	<u>750</u>	<u>7500</u>	<u>6500</u>	<u>100</u>
1945	<u>> 200</u>	<u>775</u>	<u>7000</u>	<u>6500</u>	<u>100</u>
2000	<u>> 200</u>	<u>750</u>	<u>6500</u>	<u>6500</u>	<u>100</u>
2015	<u>> 200</u>	<u>725</u>	<u>6000</u>	<u>6000</u>	<u>100</u>
2030	<u>> 200</u>	<u>750</u>	<u>6000</u>	<u>5500</u>	<u>100</u>
2045	<u>> 200</u>	<u>725</u>	<u>5850</u>	<u>5500</u>	<u>100</u>
2100	<u>> 200</u>	<u>750</u>	<u>5600</u>	<u>5000</u>	<u>100</u>
2115	<u>> 200</u>	<u>750</u>	<u>5400</u>	<u>4500</u>	<u>100</u>
2130	<u>> 200</u>	<u>725</u>	<u>5200</u>	<u>4000</u>	<u>100</u>
2145	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>
2200	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>
to Termination	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>

UCNGS
ANNUAL EXERCISE
1984

ATTACHMENT B-2

DATE: 5-10-84
MONITORING POINT: SSW-5A

OYSTER CREEK NUCLEAR GENERATING STATION
OFFSITE MONITORING TEAMS
FIELD DATA

Sample Time	General Area Radiation Levels (ow) mR/hr (cw)		Filter-Absorber count rate (FACpm)	Bare-Absorber count rate (ACpm)	Background cpm
1800 to	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>
1945	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>
2000	<u>2.0</u>	<u>1.3</u>	<u>50</u>	<u>60</u>	<u>10</u>
2015	<u>1.8</u>	<u>1.2</u>	<u>50</u>	<u>50</u>	<u>10</u>
2030	<u>2.2</u>	<u>1.4</u>	<u>50</u>	<u>50</u>	<u>10</u>
2045	<u>2.0</u>	<u>1.2</u>	<u>40</u>	<u>50</u>	<u>10</u>
2100	<u>1.7</u>	<u>1.1</u>	<u>40</u>	<u>40</u>	<u>10</u>
2115	<u>1.9</u>	<u>1.3</u>	<u>40</u>	<u>40</u>	<u>10</u>
2130	<u>1.8</u>	<u>1.3</u>	<u>40</u>	<u>30</u>	<u>10</u>
2145	<u>2.2</u>	<u>1.4</u>	<u>40</u>	<u>30</u>	<u>10</u>
2200	<u>2.0</u>	<u>1.3</u>	<u>30</u>	<u>30</u>	<u>10</u>
2215 to	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>
Termination	<u>< 0.1</u>	<u>< 0.1</u>	<u>As Found</u>	<u>As Found</u>	<u>As Found</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

OCNGS
ANNUAL EXERCISE
1984

ATTACHMENT B-2

DATE: 5-10-84

MONITORING POINT: SSW-5

OYSTER CREEK NUCLEAR GENERATING STATION
OFFSITE MONITORING TEAMS
FIELD DATA

[illegible]

UCNGS
ANNUAL EXERCISE
1984

ATTACHMENT B-2

DATE: 5-10-84
MONITORING POINT: SSW-7

OYSTER CREEK NUCLEAR GENERATING STATION
OFFSITE MONITORING TEAMS
FIELD DATA

Sample Time	General Area Radiation Levels (ow) mR/hr (cw)		Filter-Absorber count rate (FACpm)	Bare-Absorber count rate (ACpm)	Background cpm
1800	∠ 0.1	∠ 0.1	∠ MDA	∠ MDA	As Found
to	∠ 0.1	∠ 0.1			
2015	∠ 0.1	∠ 0.1			
2030	∠ 0.1	∠ 0.1			
2045					
2100					
2115					
2130					
2145					
2200					
2215					
2230					
2245					
2300					
to					
Termination	↓	↓	↓	↓	↓

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1984

ATTACHMENT B-2

DATE: 5-10-84
MONITORING POINT: SSW-10

OYSTER CREEK NUCLEAR GENERATING STATION
OFFSITE MONITORING TEAMS
FIELD DATA

Sample Time	General Area Radiation Levels (ow) mR/hr (cw)		Filter-Absorber count rate (FACpm)	Bare-Absorber count rate (ACpm)	Background cpm
1800	∠ 0.1	∠ 0.1	∠ MDA	∠ MDA	As Found
to					
2100					
2115			↓	↓	↓
2130			30	30	10
2145			30	30	10
2200			30	20	10
2215			30	20	10
2230			20	30	10
2245			20	20	10
2300			20	20	10
2315 to			∠ MDA	∠ MDA	As Found
Termination	↓	↓	∠ MDA	∠ MDA	As Found

UCNGS
ANNUAL EXERCISE
1984

ATTACHMENT B-2

DATE: 5-10-84
MONITORING POINT: SSW-10A

OYSTER CREEK NUCLEAR GENERATING STATION
OFFSITE MONITORING TEAMS
FIELD DATA

[illegible]

OCNGS
ANNUAL EXERCISE
1984

ATTACHMENT B-3

RMS DATA SHEETS

ATTACHMENT B-3
RMS DATA SHEETS

T= 0 Time: 4:00 P.M

Area Radiation Monitor	Code	mr/hr
Adm Bldg Ent to Turb Bldg	A-1	0.03
Access to Control Room	A-2	0.03
Reactor Control Room	A-3	0.90
Turb Oper Floor Ent	A-4	2.0
Laundry and Decon Area	A-5	0.7
Turb Lub Oil Equip Area	A-6	0.4
Feed Pump Area	A-7	6.0
Condensate Pump Area	A-8	9.0
Cond Demin Valve Area	A-9	15.0
Regeberation Area	A-10	20.0
Make-up Demin Area	B-1	30
Air Compr Area	B-2	0.2
Radwaste Pump Room	B-3	200
Radwaste Control Room	B-4	7.0
Radwaste Conveyor Aisle	B-5	90.0
Radwaste Store and Ship	B-6	3.0
Tip Valve Area	B-7	8.0
Personnel Lock	B-8	1.0
Reactor Oper Floor Area	B-9	7.0
Reactor Equip Drain Tank	B-10	200
Clean-up Sys Pump Area	C-1	20.0
Fuel Pool Filters	C-2	40.0
Emergency Cond Area	C-3	15.0
Shutdown Heat Exchg	C-4	80.0
Spent Fuel Pool Area	C-5	3.0
Liquid Poison Sys Area	C-6	1.0
Control Rod Drive Module	C-7	2.0
Air Ejectors Area	C-8	50.0
Fuel Pool (Low Range)	C-9	3.0
Fuel Pool (High Range)	C-10	10.0
Cont Spray Hx A EFF	P-1	0.7
Cont Spray Hx B EFF	P-2	0.6
Cont Spray Hx C EFF	P-3	200
Cont Spray Hx D EFF	P-4	15.0
Vent Manifold Rad Mon Ch 1	P-5	1.0
Vent Manifold Rad Mon Ch 2	P-6	2.0
Cond Vent 1 Rad Mon Ch 1	P-7	0.9
Cond Vent 1 Rad Mon Ch 2	P-8	0.6
Cond Vent 2 Rad Mon Ch 1	P-9	0.3
Cond Vent 2 Rad Mon Ch 2	P-10	1.0
Service Water Disc Mon	P-11	100
ABCCB Disc Monitor	P-12	650

STACK GAS MONITOR (HIGH CH) 500 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 800 mr/l

MAIN STEAM LINE MONITOR (HIGH CH) 60 UNITS

CPS
CPS

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ATTACHMENT B-3

RMS DATA SHEETS

T= 15 Time: 4:15 PM

Area Radiation Monitor	Code	mr hr
Adm Bldg Ent to Turb Bldg	A-1	0.03
Access to Control Room	A-2	0.03
Reactor Control Room	A-3	0.90
Turb Oper Floor Ent	A-4	2.0
Laundry and Decon Area	A-5	0.7
Turb Lub Oil Equip Area	A-6	0.4
Feed Pump Area	A-7	6.0
Condensate Pump Area	A-8	9.0
Cond Demin Valve Area	A-9	15.0
Regeberation Area	A-10	20.0
Make-up Demin Area	B-1	30
Air Compr Area	B-2	0.2
Radwaste Pump Room	B-3	200
Radwaste Control Room	B-4	7.0
Radwaste Conveyor Aisle	B-5	90.0
Radwaste Store and Ship	B-6	3.0
Tip Valve Area	B-7	8.0
Personnel Lock	B-8	1.0
Reactor Oper Floor Area	B-9	7.0
Reactor Equip Drain Tank	B-10	200
Clean-up Sys Pump Area	C-1	20.0
Fuel Pool Filters	C-2	40.0
Emergency Cond Area	C-3	15.0
Shutdown Heat Exchg	C-4	80.0
Spent Fuel Pool Area	C-5	3.0
Liquid Poison Sys Area	C-6	1.0
Control Rod Drive Module	C-7	2.0
Air Ejectors Area	C-8	50.0
Fuel Pool (Low Range)	C-9	3.0
Fuel Pool (High Range)	C-10	10.0
Cont Spray Hx A EFF	P-1	0.7
Cont Spray Hx B EFF	P-2	0.6
Cont Spray Hx C EFF	P-3	20.0
Cont Spray Hx D EFF	P-4	15.0
Vent Manifold Rad Mon Ch 1	P-5	1.0
Vent Manifold Rad Mon Ch 2	P-6	2.0
Cond Vent 1 Rad Mon Ch 1	P-7	0.9
Cond Vent 1 Rad Mon Ch 2	P-8	0.6
Cond Vent 2 Rad Mon Ch 1	P-9	0.3
Cond Vent 2 Rad Mon Ch 2	P-10	1.0
Service Water Disc Mon	P-11	100
RBCCH Disc Monitor	P-12	650

STACK GAS MONITOR (HIGH CH) 500 CPSOFF-GAS AIR EJECTOR MONITOR (HIGH CH) 800 me/hrMAIN STEAM LINE MONITOR (HIGH CH) 60 UNITS

CPS

CPS

ATTACHMENT B-3
RMS DATA SHEETS

T= 30 Time: 4:30 P.M.

Area Radiation Monitor	Code	mr/hr
Adm Bldg Ent to Turb Bldg	A-1	0.03
Access to Control Room	A-2	0.03
Reactor Control Room	A-3	0.90
Turb Oper Floor Ent	A-4	2.0
Laundry and Decon Area	A-5	0.7
Turb Lub Oil Equip Area	A-6	0.4
Feed Pump Area	A-7	6.0
Condensate Pump Area	A-8	9.0
Cond Demin Valve Area	A-9	15.0
Regeberation Area	A-10	20.0
Make-up Demin Area	B-1	3.0
Air Compr Area	B-2	0.2
Radwaste Pump Room	B-3	200
Radwaste Control Room	B-4	7.0
Radwaste Conveyor Aisle	B-5	90.0
Radwaste Store and Ship	B-6	3.0
Tip Valve Area	B-7	8.0
Personnel Lock	B-8	1.0
Reactor Oper Floor Area	B-9	7.0
Reactor Equip Drain Tank	B-10	200
Clean-up Sys Pump Area	C-1	20.0
Fuel Pool Filters	C-2	40.0
Emergency Cond Area	C-3	15.0
Shutdown Heat Exchg	C-4	80.0
Spent Fuel Pool Area	C-5	3.0
Liquid Poison Sys Area	C-6	1.0
Control Rod Drive Module	C-7	2.0
Air Ejectors Area	C-8	50.0
Fuel Pool (Low Range)	C-9	3.0
Fuel Pool (High Range)	C-10	10.0
Cont Spray Hx A EFF	P-1	0.7
Cont Spray Hx B EFF	P-2	0.6
Cont Spray Hx C EFF	P-3	20.0
Cont Spray Hx D EFF	P-4	15.0
Vent Manifold Rad Mon Ch 1	P-5	1.0
Vent Manifold Rad Mon Ch 2	P-6	2.0
Cond Vent 1 Rad Mon Ch 1	P-7	0.9
Cond Vent 1 Rad Mon Ch 2	P-8	0.6
Cond Vent 2 Rad Mon Ch 1	P-9	0.3
Cond Vent 2 Rad Mon Ch 2	P-10	1.0
Service Water Disc Mon	P-11	100
RBCCH Disc Monitor	P-12	650

STACK GAS MONITOR (HIGH CH) 500 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 800 mr/hr

MAIN STEAM LINE MONITOR (HIGH CH) 60 UNITS

CPS
CPS

ATTACHMENT B-3
RMS DATA SHEETS

T= 45 Time: 4:45 P.M

Area Radiation Monitor	Code	$\frac{mR}{hr}$
Adm Bldg Ent to Turb Bldg	A-1	0.03
Access to Control Room	A-2	0.03
Reactor Control Room	A-3	0.90
Turb Oper Floor Ent	A-4	2.0
Laundry and Decon Area	A-5	0.7
Turb Lub Oil Equip Area	A-6	0.4
Feed Pump Area	A-7	6.0
Condensate Pump Area	A-8	9.0
Cond Demin Valve Area	A-9	15.0
Regeberation Area	A-10	20.0
Make-up Demin Area	B-1	3.0
Air Compr Area	B-2	0.2
Radwaste Pump Room	B-3	200
Radwaste Control Room	B-4	7.0
Radwaste Conveyor Aisle	B-5	90.0
Radwaste Store and Ship	B-6	3.0
Tip Valve Area	B-7	8.0
Personnel Lock	B-8	1.0
Reactor Oper Floor Area	B-9	7.0
Reactor Equip Drain Tank	B-10	200
Clean-up Sys Pump Area	C-1	20.0
Fuel Pool Filters	C-2	40.0
Emergency Cond Area	C-3	15.0
Shutdown Heat Exchg	C-4	80.0
Spent Fuel Pool Area	C-5	3.0
Liquid Poison Sys Area	C-6	1.0
Control Rod Drive Module	C-7	2.0
Air Ejectors Area	C-8	50.0
Fuel Pool (Low Range)	C-9	3.0
Fuel Pool (High Range)	C-10	10.0
Cont Spray Hx A EFF	P-1	0.7
Cont Spray Hx B EFF	P-2	0.6
Cont Spray Hx C EFF	P-3	200
Cont Spray Hx D EFF	P-4	15.0
Vent Manifold Rad Mon Ch 1	P-5	1.0
Vent Manifold Rad Mon Ch 2	P-6	2.0
Cond Vent 1 Rad Mon Ch 1	P-7	0.9
Cond Vent 1 Rad Mon Ch 2	P-8	0.6
Cond Vent 2 Rad Mon Ch 1	P-9	0.3
Cond Vent 2 Rad Mon Ch 2	P-10	1.0
Service Water Disc Mon	P-11	100
WBCCN Disc Monitor	P-12	650

STACK GAS MONITOR (HIGH CH) 500 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 800 me/hr

MAIN STEAM LINE MONITOR (HIGH CH) 60 UNITS

CPS
CPS

ATTACHMENT B-3
RMS DATA SHEETS

T=60 Time: 5:00 P.M.

Area Radiation Monitor	Code	mr hr
Adm Bldg Ent to Turb Bldg	A-1	0.03
Access to Control Room	A-2	0.03
Reactor Control Room	A-3	0.90
Turb Oper Floor Ent	A-4	2.0
Laundry and Decon Area	A-5	0.7
Turb Lub Oil Equip Area	A-6	0.4
Feed Pump Area	A-7	6.0
Condensate Pump Area	A-8	9.0
Cond Demin Valve Area	A-9	15.0
Regeberation Area	A-10	20.0
Make-up Demin Area	B-1	30
Air Compr Area	B-2	0.2
Radwaste Pump Room	B-3	200
Radwaste Control Room	B-4	7.0
Radwaste Conveyor Aisle	B-5	90.0
Radwaste Store and Ship	B-6	3.0
Tip Valve Area	B-7	8.0
Personnel Lock	B-8	1.0
Reactor Oper Floor Area	B-9	7.0
Reactor Equip Drain Tank	B-10	200
Clean-up Sys Pump Area	C-1	20.0
Fuel Pool Filters	C-2	40.0
Emergency Cond Area	C-3	15.0
Shutdown Heat Exchg	C-4	80.0
Spent Fuel Pool Area	C-5	3.0
Liquid Poison Sys Area	C-6	1.0
Control Rod Drive Module	C-7	3.0
Air Ejectors Area	C-8	50.0
Fuel Pool (Low Range)	C-9	3.0
Fuel Pool (High Range)	C-10	10.0
Cont Spray Hx A EFF	P-1	0.7
Cont Spray Hx B EFF	P-2	0.6
Cont Spray Hx C EFF	P-3	200
Cont Spray Hx D EFF	P-4	15.0
Vent Manifold Rad Mon Ch 1	P-5	1.0
Vent Manifold Rad Mon Ch 2	P-6	2.0
Cond Vent 1 Rad Mon Ch 1	P-7	0.9
Cond Vent 1 Rad Mon Ch 2	P-8	0.6
Cond Vent 2 Rad Mon Ch 1	P-9	0.3
Cond Vent 2 Rad Mon Ch 2	P-10	1.0
Service Water Disc Mon	P-11	100
WCCM Disc Monitor	P-12	650

STACK GAS MONITOR (HIGH CH) 500 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 800 mr/hr

MAIN STEAM LINE MONITOR (HIGH CH) 60 UNIT

CPS
CPS

ATTACHMENT B-3

RMS DATA SHEETS

T= 75 Time: 5:15 P.M.

Area Radiation Monitor	Code	$\frac{mr}{hr}$
Adm Bldg Ent to Turb Bldg	A-1	0.03
Access to Control Room	A-2	0.03
Reactor Control Room	A-3	0.90
Turb Oper Floor Ent	A-4	2.0
Laundry and Decon Area	A-5	0.7
Turb Lub Oil Equip Area	A-6	0.4
Feed Pump Area	A-7	6.0
Condensate Pump Area	A-8	9.0
Cond Demin Valve Area	A-9	15.0
Regeberation Area	A-10	20.0
Make-up Demin Area	B-1	30
Air Compr Area	B-2	0.2
Radwaste Pump Room	B-3	200
Radwaste Control Room	B-4	7.0
Radwaste Conveyor Aisle	B-5	90.0
Radwaste Store and Ship	B-6	3.0
Tip Valve Area	B-7	8.0
Personnel Lock	B-8	1.0
Reactor Oper Floor Area	B-9	7.0
Reactor Equip Drain Tank	B-10	200
Clean-up Sys Pump Area	C-1	20.0
Fuel Pool Filters	C-2	40.0
Emergency Cond Area	C-3	15.0
Shutdown Heat Exchg	C-4	80.0
Spent Fuel Pool Area	C-5	3.0
Liquid Poison Sys Area	C-6	1.0
Control Rod Drive Module	C-7	2.0
Air Ejectors Area	C-8	50.0
Fuel Pool (Low Range)	C-9	3.0
Fuel Pool (High Range)	C-10	10.0
Cont Spray Hx A EFF	P-1	0.7
Cont Spray Hx B EFF	P-2	0.6
Cont Spray Hx C EFF	P-3	20.0
Cont Spray Hx D EFF	P-4	15.0
Vent Manifold Rad Mon Ch 1	P-5	1.0
Vent Manifold Rad Mon Ch 2	P-6	2.0
Cond Vent 1 Rad Mon Ch 1	P-7	0.9
Cond Vent 1 Rad Mon Ch 2	P-8	0.6
Cond Vent 2 Rad Mon Ch 1	P-9	0.3
Cond Vent 2 Rad Mon Ch 2	P-10	1.0
Service Water Disc Mon	P-11	100
ABCCM Disc Monitor	P-12	650

STACK GAS MONITOR (HIGH CH) 500 CPSOFF-GAS AIR EJECTOR MONITOR (HIGH CH) 800 mr/hMAIN STEAM LINE MONITOR (HIGH CH) 60 UNITS

CPS

CPS

ATTACHMENT B-3

RMS DATA SHEETS

T= 90 Time: 5:30 PM.

Area Radiation Monitor	Code	mr hr
Adm Bldg Ent to Turb Bldg	A-1	0.03
Access to Control Room	A-2	0.03
Reactor Control Room	A-3	0.90
Turb Oper Floor Ent	A-4	2.0
Laundry and Decon Area	A-5	0.7
Turb Lub Oil Equip Area	A-6	0.4
Feed Pump Area	A-7	6.0
Condensate Pump Area	A-8	9.0
Cond Demin Valve Area	A-9	15.0
Regeberation Area	A-10	20.0
Make-up Demin Area	B-1	30
Air Compr Area	B-2	0.2
Radwaste Pump Room	B-3	200
Radwaste Control Room	B-4	7.0
Radwaste Conveyor Aisle	B-5	90.0
Radwaste Store and Ship	B-6	3.0
Tip Valve Area	B-7	8.0
Personnel Lock	B-8	1.0
Reactor Oper Floor Area	B-9	7.0
Reactor Equip Drain Tank	B-10	200
Clean-up Sys Pump Area	C-1	20.0
Fuel Pool Filters	C-2	40.0
Emergency Cond Area	C-3	15.0
Shutdown Heat Exchg	C-4	80.0
Spent Fuel Pool Area	C-5	3.0
Liquid Poison Sys Area	C-6	1.0
Control Rod Drive Module	C-7	2.0
Air Ejectors Area	C-8	50.0
Fuel Pool (Low Range)	C-9	3.0
Fuel Pool (High Range)	C-10	10.0
Cont Spray Hx A EFF	P-1	0.7
Cont Spray Hx B EFF	P-2	0.6
Cont Spray Hx C EFF	P-3	20.0
Cont Spray Hx D EFF	P-4	15.0
Vent Manifold Rad Mon Ch 1	P-5	1.0
Vent Manifold Rad Mon Ch 2	P-6	2.0
Cond Vent 1 Rad Mon Ch 1	P-7	0.9
Cond Vent 1 Rad Mon Ch 2	P-8	0.6
Cond Vent 2 Rad Mon Ch 1	P-9	0.3
Cond Vent 2 Rad Mon Ch 2	P-10	1.0
Service Water Disc Mon	P-11	100
RBCCM Disc Monitor	P-12	650

STACK GAS MONITOR (HIGH CH) 500 CPSOFF-GAS AIR EJECTOR MONITOR (HIGH CH) 800 me/hMAIN STEAM LINE MONITOR (HIGH CH) 60 UNIT

CPS

CPS

ATTACHMENT B-3
RMS DATA SHEETS

T=105 Time: 5:45 P.M.

Area Radiation Monitor	Code	$\frac{mR}{hr}$
Adm Bldg Ent to Turb Bldg	A-1	0.03
Access to Control Room	A-2	0.03
Reactor Control Room	A-3	0.90
Turb Oper Floor Ent	A-4	2.0
Laundry and Decon Area	A-5	0.7
Turb Lub Oil Equip Area	A-6	0.4
Feed Pump Area	A-7	6.0
Condensate Pump Area	A-8	9.0
Cond Demin Valve Area	A-9	15.0
Regeneration Area	A-10	20.0
Make-up Demin Area	B-1	30
Air Compr Area	B-2	0.2
Radwaste Pump Room	B-3	200
Radwaste Control Room	B-4	7.0
Radwaste Conveyor Aisle	B-5	90.0
Radwaste Store and Ship	B-6	3.0
Tip Valve Area	B-7	8.0
Personnel Lock	B-8	1.0
Reactor Oper Floor Area	B-9	7.0
Reactor Equip Drain Tank	B-10	200
Clean-up Sys Pump Area	C-1	20.0
Fuel Pool Filters	C-2	40.0
Emergency Cond Area	C-3	15.0
Shutdown Heat Exchg	C-4	80.0
Spent Fuel Pool Area	C-5	3.0
Liquid Poison Sys Area	C-6	1.0
Control Rod Drive Module	C-7	2.0
Air Ejectors Area	C-8	50.0
Fuel Pool (Low Range)	C-9	3.0
Fuel Pool (High Range)	C-10	10.0
Cont Spray Hx A EFF	P-1	0.7
Cont Spray Hx B EFF	P-2	0.6
Cont Spray Hx C EFF	P-3	20.0
Cont Spray Hx D EFF	P-4	15.0
Vent Manifold Rad Mon Ch 1	P-5	1.0
Vent Manifold Rad Mon Ch 2	P-6	2.0
Cond Vent 1 Rad Mon Ch 1	P-7	0.9
Cond Vent 1 Rad Mon Ch 2	P-8	0.6
Cond Vent 2 Rad Mon Ch 1	P-9	0.3
Cond Vent 2 Rad Mon Ch 2	P-10	1.0
Service Water Disc Mon	P-11	100
RBCCM Disc Monitor	P-12	650

STACK GAS MONITOR (HIGH CH) 500 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 800 me/h

MAIN STEAM LINE MONITOR (HIGH CH) 60 UNIT

CPS
CPS

ATTACHMENT B-3
RMS DATA SHEETS

T=120 Time: 6:00 P.M.

Area Radiation Monitor	Code	$\frac{mR}{hr}$
Adm Bldg Ent to Turb Bldg	A-1	0.1
Access to Control Room	A-2	0.1
Reactor Control Room	A-3	1.0
Turb Oper Floor Ent	A-4	2.0
Laundry and Decon Area	A-5	1.0
Turb Lub Oil Equip Area	A-6	0.5
Feed Pump Area	A-7	5.0
Condensate Pump Area	A-8	8.5
Cond Demin Valve Area	A-9	16.0
Regeberation Area	A-10	19.0
Make-up Demin Area	B-1	31
Air Compr Area	B-2	0.2
Radwaste Pump Room	B-3	200
Radwaste Control Room	B-4	7.0
Radwaste Conveyor Aisle	B-5	90.0
Radwaste Store and Ship	B-6	3.0
Tip Valve Area	B-7	9.0
Personnel Lock	B-8	2.0
Reactor Oper Floor Area	B-9	8.0
Reactor Equip Drain Tank	B-10	200.0
Clean-up Sys Pump Area	C-1	21.0
Fuel Pool Filters	C-2	40.0
Emergency Cond Area	C-3	16.0
Shutdown Heat Exchg	C-4	85.0
Spent Fuel Pool Area	C-5	4.0
Liquid Poison Sys Area	C-6	1.0
Control Rod Drive Module	C-7	5.0
Air Ejectors Area	C-8	5.0
Fuel Pool (Low Range)	C-9	4.0
Fuel Pool (High Range)	C-10	11.0
Cont Spray Hx A EFF	P-1	2.0
Cont Spray Hx B EFF	P-2	2.0
Cont Spray Hx C EFF	P-3	21.0
Cont Spray Hx D EFF	P-4	20.0
Vent Manifold Rad Mon Ch 1	P-5	16.0
Vent Manifold Rad Mon Ch 2	P-6	2.0
Cond Vent 1 Rad Mon Ch 1	P-7	3.0
Cond Vent 1 Rad Mon Ch 2	P-8	2.0
Cond Vent 2 Rad Mon Ch 1	P-9	1.6
Cond Vent 2 Rad Mon Ch 2	P-10	1.3
Service Water Disc Mon	P-11	2.0
WCCM Disc Monitor	P-12	670

STACK GAS MONITOR (HIGH CH) 700 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 800 mR/h

MAIN STEAM LINE MONITOR (HIGH CH) 65 UNITS

CPS

CPS

ATTACHMENT B-3

RMS DATA SHEETS

T=127 Time: 6:07 PM

Note: O.S.H - Offscale High

Area Radiation Monitor	Code	mr/hr
Adm Bldg Ent to Turb Bldg	A-1	20.0
Access to Control Room	A-2	70.0
Reactor Control Room	A-3	4.0
Turb Oper Floor Ent	A-4	6.0
Laundry and Decon Area	A-5	70.0
Turb Lub Oil Equip Area	A-6	2.2
Feed Pump Area	A-7	60.0
Condensate Pump Area	A-8	40.0
Cond Demin Valve Area	A-9	40.0
Regeberation Area	A-10	40.0
Make-up Demin Area	B-1	50
Air Compr Area	B-2	6.0
Radwaste Pump Room	B-3	200.0
Radwaste Control Room	B-4	7.0
Radwaste Conveyor Aisle	B-5	92.0
Radwaste Store and Ship	B-6	5.0
Tip Valve Area	B-7	O.S.H
Personnel Lock	B-8	
Reactor Oper Floor Area	B-9	
Reactor Equip Drain Tank	B-10	
Clean-up Sys Pump Area	C-1	
Fuel Pool Filters	C-2	
Emergency Cond Area	C-3	
Shutdown Heat Exchg	C-4	
Spent Fuel Pool Area	C-5	
Liquid Poison Sys Area	C-6	
Control Rod Drive Module	C-7	
Air Ejectors Area	C-8	50.0
Fuel Pool (Low Range)	C-9	O.S.H
Fuel Pool (High Range)	C-10	1.5E+05
Cont Spray Hx A EFF	P-1	O.S.H
Cont Spray Hx B EFF	P-2	
Cont Spray Hx C EFF	P-3	
Cont Spray Hx D EFF	P-4	
Vent Manifold Rad Mon Ch 1	P-5	
Vent Manifold Rad Mon Ch 2	P-6	
Cond Vent 1 Rad Mon Ch 1	P-7	
Cond Vent 1 Rad Mon Ch 2	P-8	
Cond Vent 2 Rad Mon Ch 1	P-9	
Cond Vent 2 Rad Mon Ch 2	P-10	
Service Water Disc Mon	P-11	
ABCCN Disc Monitor	P-12	

STACK GAS MONITOR (HIGH CH) 1.0E+06 CPSOFF-GAS AIR EJECTOR MONITOR (HIGH CH) 750 mr/hrMAIN STEAM LINE MONITOR (HIGH CH) O.S.H. UNITS

CPS

CPS

ATTACHMENT B-3
RMS DATA SHEETS

Note: O.S.H. - Offscale High

T=135 Time: 6:15 P.M.

Area Radiation Monitor	Code	mr/hr
Adm Bldg Ent to Turb Bldg	A-1	25.0
Access to Control Room	A-2	75.0
Reactor Control Room	A-3	5.0
Turb Oper Floor Ent	A-4	150.0
Laundry and Decon Area	A-5	90.0
Turb Lub Oil Equip Area	A-6	110.0
Feed Pump Area	A-7	400
Condensate Pump Area	A-8	75.0
Cond Demin Valve Area	A-9	72.0
Regeberation Area	A-10	80.0
Make-up Demin Area	B-1	90
Air Compr Area	B-2	25.0
Radwaste Pump Room	B-3	225.0
Radwaste Control Room	B-4	15.0
Radwaste Conveyor Aisle	B-5	100.0
Radwaste Store and Ship	B-6	15.0
Tip Valve Area	B-7	O.S.H
Personnel Lock	B-8	
Reactor Oper Floor Area	B-9	
Reactor Equip Drain Tank	B-10	
Clean-up Sys Pump Area	C-1	
Fuel Pool Filters	C-2	
Emergency Cond Area	C-3	
Shutdown Heat Exchgr	C-4	
Spent Fuel Pool Area	C-5	
Liquid Poison Sys Area	C-6	
Control Rod Drive Module	C-7	
Air Ejectors Area	C-8	50.0
Fuel Pool (Low Range)	C-9	O.S.H
Fuel Pool (High Range)	C-10	
Cont Spray Hx A EFF	P-1	
Cont Spray Hx B EFF	P-2	
Cont Spray Hx C EFF	P-3	
Cont Spray Hx D EFF	P-4	
Vent Manifold Rad Mon Ch 1	P-5	
Vent Manifold Rad Mon Ch 2	P-6	
Cond Vent 1 Rad Mon Ch 1	P-7	
Cond Vent 1 Rad Mon Ch 2	P-8	
Cond Vent 2 Rad Mon Ch 1	P-9	
Cond Vent 2 Rad Mon Ch 2	P-10	
Service Water Disc Mon	P-11	
ABCC Disc Monitor	P-12	

STACK GAS MONITOR (HIGH CH) 1.0E+06 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 500 mr/hr

MAIN STEAM LINE MONITOR (HIGH CH) O.S.H. UNITS

CPS
CPS

ATTACHMENT B-3
RMS DATA SHEETS

Note: O.S.H - Offscale High

T=150 Time: 6:30 P.M.

Area Radiation Monitor	Code	mr/hr
Adm Bldg Ent to Turb Bldg	A-1	27.0
Access to Control Room	A-2	90.0
Reactor Control Room	A-3	5.0
Turb Oper Floor Ent	A-4	200.0
Laundry and Decon Area	A-5	100.0
Turb Lub Oil Equip Area	A-6	120.0
Feed Pump Area	A-7	450
Condensate Pump Area	A-8	80.0
Cond Demin Valve Area	A-9	80.0
Regeberation Area	A-10	90.0
Make-up Demin Area	B-1	1.0
Air Compr Area	B-2	35.0
Radwaste Pump Room	B-3	225.0
Radwaste Control Room	B-4	20.0
Radwaste Conveyor Aisle	B-5	110.0
Radwaste Store and Ship	B-6	20.0
Tip Valve Area	B-7	0.5.H
Personnel Lock	B-8	
Reactor Oper Floor Area	B-9	
Reactor Equip Drain Tank	B-10	
Clean-up Sys Pump Area	C-1	
Fuel Pool Filters	C-2	
Emergency Cond Area	C-3	
Shutdown Heat Exchg	C-4	
Spent Fuel Pool Area	C-5	
Liquid Poison Sys Area	C-6	
Control Rod Drive Module	C-7	
Air Ejectors Area	C-8	65.0
Fuel Pool (Low Range)	C-9	0.5.H
Fuel Pool (High Range)	C-10	
Cont Spray Hx A EFF	P-1	
Cont Spray Hx B EFF	P-2	
Cont Spray Hx C EFF	P-3	
Cont Spray Hx D EFF	P-4	
Vent Manifold Rad Mon Ch 1	P-5	
Vent Manifold Rad Mon Ch 2	P-6	
Cond Vent 1 Rad Mon Ch 1	P-7	
Cond Vent 1 Rad Mon Ch 2	P-8	
Cond Vent 2 Rad Mon Ch 1	P-9	
Cond Vent 2 Rad Mon Ch 2	P-10	
Service Water Disc Mon	P-11	
RBCCH Disc Monitor	P-12	

STACK GAS MONITOR (HIGH CH) 1.0E+06 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 550 mr/hr

MAIN STEAM LINE MONITOR (HIGH CH) 0.5.H. UNITS

CPS
CPS

ATTACHMENT B-3
RMS DATA SHEETS

Note: O.S.H. - Offscale High

T=180 Time: 7:00 P.M.

Area Radiation Monitor	Code	mr/hr
Adm Bldg Ent to Turb Bldg	A-1	27.0
Access to Control Room	A-2	90.0
Reactor Control Room	A-3	5.0
Turb Oper Floor Ent	A-4	200.0
Laundry and Decon Area	A-5	100.0
Turb Lub Oil Equip Area	A-6	120.0
Feed Pump Area	A-7	450
Condensate Pump Area	A-8	80.0
Cond Demin Valve Area	A-9	80.0
Regeberation Area	A-10	90.0
Make-up Demin Area	B-1	1.0
Air Compr Area	B-2	35.0
Radwaste Pump Room	B-3	225.0
Radwaste Control Room	B-4	20.0
Radwaste Conveyor Aisle	B-5	1100
Radwaste Store and Ship	B-6	20.0
Tip Valve Area	B-7	0.5.H
Personnel Lock	B-8	
Reactor Oper Floor Area	B-9	
Reactor Equip Drain Tank	B-10	
Clean-up Sys Pump Area	C-1	
Fuel Pool Filters	C-2	
Emergency Cond Area	C-3	
Shutdown Heat Exchg	C-4	
Spent Fuel Pool Area	C-5	
Liquid Poison Sys Area	C-6	
Control Rod Drive Module	C-7	
Air Ductors Area	C-8	65.0
Fuel Pool (Low Range)	C-9	0.5.H
Fuel Pool (High Range)	C-10	
Cont Spray Hx A EFF	P-1	
Cont Spray Hx B EFF	P-2	
Cont Spray Hx C EFF	P-3	
Cont Spray Hx D EFF	P-4	
Vent Manifold Rad Mon Ch 1	P-5	
Vent Manifold Rad Mon Ch 2	P-6	
Cond Vent 1 Rad Mon Ch 1	P-7	
Cond Vent 1 Rad Mon Ch 2	P-8	
Cond Vent 2 Rad Mon Ch 1	P-9	
Cond Vent 2 Rad Mon Ch 2	P-10	
Service Water Disc Mon	P-11	
WCCM Disc Monitor	P-12	

STACK GAS MONITOR (HIGH CH) 1.0E+06 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 500 mr/hr

MAIN STEAM LINE MONITOR (HIGH CH) O.S.H. UNITS

CPS
CPS

ATTACHMENT B-3
RMS DATA SHEETS

Note: O.S.H. - Offscale High

T=220 Time: 7:30 P.M

Area Radiation Monitor	Code	MR hr
Adm Bldg Ent to Turb Bldg	A-1	27.0
Access to Control Room	A-2	90.0
Reactor Control Room	A-3	5.0
Turb Oper Floor Ent	A-4	200.0
Laundry and Decon Area	A-5	100.0
Turb Lub Oil Equip Area	A-6	120.0
Feed Pump Area	A-7	450
Condensate Pump Area	A-8	80.0
Cond Demin Valve Area	A-9	80.0
Regeberation Area	A-10	90.0
Make-up Demin Area	B-1	1.0
Air Compr Area	B-2	35.0
Radwaste Pump Room	B-3	225.0
Radwaste Control Room	B-4	20.0
Radwaste Conveyor Aisle	B-5	110.0
Radwaste Store and Ship	B-6	20.0
Tip Valve Area	B-7	0.5.H
Personnel Lock	B-8	
Reactor Oper Floor Area	B-9	
Reactor Equip Drain Tank	B-10	
Clean-up Sys Pump Area	C-1	
Fuel Pool Filters	C-2	
Emergency Cond Area	C-3	
Shutdown Heat Exchng	C-4	
Spent Fuel Pool Area	C-5	
Liquid Poison Sys Area	C-6	
Control Rod Drive Module	C-7	
Air Ejectors Area	C-8	65.0
Fuel Pool (Low Range)	C-9	0.5.H
Fuel Pool (High Range)	C-10	
Cont Spray Hx A EFF	P-1	
Cont Spray Hx B EFF	P-2	
Cont Spray Hx C EFF	P-3	
Cont Spray Hx D EFF	P-4	
Vent Manifold Rad Mon Ch 1	P-5	
Vent Manifold Rad Mon Ch 2	P-6	
Cond Vent 1 Rad Mon Ch 1	P-7	
Cond Vent 1 Rad Mon Ch 2	P-8	
Cond Vent 2 Rad Mon Ch 1	P-9	
Cond Vent 2 Rad Mon Ch 2	P-10	
Service Water Disc Mon	P-11	
WBCC Disc Monitor	P-12	

STACK GAS MONITOR (HIGH CH) 1.0 E+06 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 450 me/hr

MAIN STEAM LINE MONITOR (HIGH CH) O.S.H. UNITS

CPS
CPS

ATTACHMENT B-3
RMS DATA SHEETS

Note: O.S.H. - Offscale High

T= 240 Time: 8:00 PM

Area Radiation Monitor	Code	mr hr
Adm Bldg Ent to Turb Bldg	A-1	20.0
Access to Control Room	A-2	80.0
Reactor Control Room	A-3	4.0
Turb Oper Floor Ent	A-4	150.0
Laundry and Decon Area	A-5	80.0
Turb Lub Oil Equip Area	A-6	100.0
Feed Pump Area	A-7	400.0
Condensate Pump Area	A-8	70.0
Cond Demin Valve Area	A-9	70.0
Regeberation Area	A-10	80.0
Make-up Demin Area	B-1	90
Air Compr Area	B-2	25.0
Radwaste Pump Room	B-3	225.0
Radwaste Control Room	B-4	20.0
Radwaste Conveyor Aisle	B-5	95.0
Radwaste Store and Ship	B-6	15.0
Tip Valve Area	B-7	O.S.H
Personnel Lock	B-8	
Reactor Oper Floor Area	B-9	
Reactor Equip Drain Tank	B-10	
Clean-up Sys Pump Area	C-1	
Fuel Pool Filters	C-2	
Emergency Cond Area	C-3	
Shutdown Heat Exchng	C-4	
Spent Fuel Pool Area	C-5	
Liquid Poison Sys Area	C-6	
Control Rod Drive Module	C-7	
Air Ejectors Area	C-8	50.0
Fuel Pool (Low Range)	C-9	O.S.H
Fuel Pool (High Range)	C-10	7.0E+05
Cont Spray Hx A EFF	P-1	O.S.H
Cont Spray Hx B EFF	P-2	
Cont Spray Hx C EFF	P-3	
Cont Spray Hx D EFF	P-4	
Vent Manifold Rad Mon Ch 1	P-5	
Vent Manifold Rad Mon Ch 2	P-6	
Cond Vent 1 Rad Mon Ch 1	P-7	
Cond Vent 1 Rad Mon Ch 2	P-8	
Cond Vent 2 Rad Mon Ch 1	P-9	
Cond Vent 2 Rad Mon Ch 2	P-10	
Service Water Disc Mon	P-11	
WCCN Disc Monitor	P-12	✓

STACK GAS MONITOR (HIGH CH) 1000 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 400 mr/hr

MAIN STEAM LINE MONITOR (HIGH CH) O.S.H UNITS

CPS
CPS

ATTACHMENT B-3
RMS DATA SHEETS

Note: O.S.H. - Offscale High

T=270 Time: 8:30 P.M.

Area Radiation Monitor	Code	mf/hr
Adm Bldg Ent to Turb Bldg	A-1	15.0
Access to Control Room	A-2	60.0
Reactor Control Room	A-3	3.0
Turb Oper Floor Ent	A-4	100.0
Laundry and Decon Area	A-5	60.0
Turb Lub Oil Equip Area	A-6	75.0
Feed Pump Area	A-7	300.0
Condensate Pump Area	A-8	50.0
Cond Demin Valve Area	A-9	50.0
Regeberation Area	A-10	60.0
Make-up Demin Area	B-1	70
Air Compr Area	B-2	18.0
Radwaste Pump Room	B-3	210.0
Radwaste Control Room	B-4	12.0
Radwaste Conveyor Aisle	B-5	92.0
Radwaste Store and Ship	B-6	10.0
Tip Valve Area	B-7	O.S.H.
Personnel Lock	B-8	
Reactor Oper Floor Area	B-9	
Reactor Equip Drain Tank	B-10	
Clean-up Sys Pump Area	C-1	
Fuel Pool Filters	C-2	
Emergency Cond Area	C-3	
Shutdown Heat Exchg	C-4	
Spent Fuel Pool Area	C-5	
Liquid Poison Sys Area	C-6	
Control Rod Drive Module	C-7	
Air Ejectors Area	C-8	40.0
Fuel Pool (Low Range)	C-9	O.S.H.
Fuel Pool (High Range)	C-10	5.0E+05
Cont Spray Hx A EFF	P-1	O.S.H.
Cont Spray Hx B EFF	P-2	
Cont Spray Hx C EFF	P-3	
Cont Spray Hx D EFF	P-4	
Vent Manifold Rad Mon Ch 1	P-5	
Vent Manifold Rad Mon Ch 2	P-6	
Cond Vent 1 Rad Mon Ch 1	P-7	
Cond Vent 1 Rad Mon Ch 2	P-8	
Cond Vent 2 Rad Mon Ch 1	P-9	
Cond Vent 2 Rad Mon Ch 2	P-10	
Service Water Disc Mon	P-11	
RDCM Disc Monitor	P-12	

STACK GAS MONITOR (HIGH CH) 700 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 300 mf/hr

MAIN STEAM LINE MONITOR (HIGH CH) O.S.H. UNITS

CPS
CPS

ATTACHMENT B-3

RMS DATA SHEETS

T=300 Time: 9:00 P.M.

Note: O.S.H. - Offscale High

Area Radiation Monitor	Code	mc/hr
Adm Bldg Ent to Turb Bldg	A-1	10.0
Access to Control Room	A-2	40.0
Reactor Control Room	A-3	2.0
Turb Oper Floor Ent	A-4	60.0
Laundry and Decon Area	A-5	40.0
Turb Lub Oil Equip Area	A-6	50.0
Feed Pump Area	A-7	200.0
Condensate Pump Area	A-8	30.0
Cond Demin Valve Area	A-9	30.0
Regeberation Area	A-10	40.0
Make-up Demin Area	B-1	50
Air Compr Area	B-2	12.0
Radwaste Pump Room	B-3	200.0
Radwaste Control Room	B-4	10.0
Radwaste Conveyor Aisle	B-5	90.0
Radwaste Store and Ship	B-6	7.0
Tip Valve Area	B-7	O.S.H.
Personnel Lock	B-8	
Reactor Oper Floor Area	B-9	
Reactor Equip Drain Tank	B-10	
Clean-up Sys Pump Area	C-1	
Fuel Pool Filters	C-2	
Emergency Cond Area	C-3	
Shutdown Heat Exchg	C-4	
Spent Fuel Pool Area	C-5	
Liquid Poison Sys Area	C-6	
Control Rod Drive Module	C-7	
Air Ejectors Area	C-8	30.0
Fuel Pool (Low Range)	C-9	O.S.H.
Fuel Pool (High Range)	C-10	1.0E+05
Cont Spray Hx A EPF	P-1	O.S.H.
Cont Spray Hx B EPF	P-2	
Cont Spray Hx C EPF	P-3	
Cont Spray Hx D EPF	P-4	
Vent Manifold Rad Mon Ch 1	P-5	
Vent Manifold Rad Mon Ch 2	P-6	
Cond Vent 1 Rad Mon Ch 1	P-7	
Cond Vent 1 Rad Mon Ch 2	P-8	
Cond Vent 2 Rad Mon Ch 1	P-9	
Cond Vent 2 Rad Mon Ch 2	P-10	
Service Water Disc Mon	P-11	
WCC Disc Monitor	P-12	

STACK GAS MONITOR (HIGH CH) 600 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 200 mc/hr

MAIN STEAM LINE MONITOR (HIGH CH) O.S.H. UNITS

CPS
CPS

ATTACHMENT B-3

RMS DATA SHEETS

T=360 Time: 10:00 P.M. to Termination

Area Radiation Monitor	Code	mr/hr
Adm Bldg Ent to Turb Bldg	A-1	5.0
Access to Control Room	A-2	20.0
Reactor Control Room	A-3	1.0
Turb Oper Floor Ent	A-4	20.0
Laundry and Decon Area	A-5	20.0
Turb Lub Oil Equip Area	A-6	25.0
Feed Pump Area	A-7	100.0
Condensate Pump Area	A-8	15.0
Cond Demin Valve Area	A-9	15.0
Regeberation Area	A-10	20.0
Make-up Demin Area	B-1	25
Air Compr Area	B-2	6.0
Radwaste Pump Room	B-3	200.0
Radwaste Control Room	B-4	7.0
Radwaste Conveyor Aisle	B-5	90.0
Radwaste Store and Ship	B-6	4.0
Tip Valve Area	B-7	O.S.H
Personnel Lock	B-8	
Reactor Oper Floor Area	B-9	
Reactor Equip Drain Tank	B-10	
Clean-up Sys Pump Area	C-1	
Fuel Pool Filters	C-2	
Emergency Cond Area	C-3	
Shutdown Heat Exchg	C-4	
Spent Fuel Pool Area	C-5	
Liquid Poison Sys Area	C-6	
Control Rod Drive Module	C-7	
Air Ejectors Area	C-8	15.0
Fuel Pool (Low Range)	C-9	O.S.H
Fuel Pool (High Range)	C-10	5.0E104
Cont Spray Hx A EFF	P-1	O.S.H
Cont Spray Hx B EFF	P-2	
Cont Spray Hx C EFF	P-3	
Cont Spray Hx D EFF	P-4	
Vent Manifold Rad Mon Ch 1	P-5	
Vent Manifold Rad Mon Ch 2	P-6	
Cond Vent 1 Rad Mon Ch 1	P-7	
Cond Vent 1 Rad Mon Ch 2	P-8	
Cond Vent 2 Rad Mon Ch 1	P-9	
Cond Vent 2 Rad Mon Ch 2	P-10	
Service Water Diss Mon	P-11	
WCCM Diss Monitor	P-12	

Note: O.S.H - Offscale High

STACK GAS MONITOR (HIGH CH) 500 CPS

OFF-GAS AIR EJECTOR MONITOR (HIGH CH) 100 mr/hr

MAIN STEAM LINE MONITOR (HIGH CH) O.S.H UNITS

CPS
CPS

OCNGS
ANNUAL EXERCISE
1984

ATTACHMENT B-4

PLANT STATUS DATA SHEETS

PLANT STATUS

DATE 5/10 TIME 4:00
P.M.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☒ ALERT ☐
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☒
SBGT ON ☐ OFF ☒

ELECTRICAL STATUS

AUX XFORMER ☒
SIU XFORMERS BK6 ☐ BK7 ☐ AVA
DIESEL GEN #1 ☐ #2 ☐ AVA

DRYWELL PRESSURE 1.25
12XR
DRYWELL TEMP 110°
1F/2F
TORUS TEMP/LEVEL 78°/ 1.0"
11F

POWER 1930/1008 MW th/%
4F

RODS SCRAMMED? YES ☐ NO ☒

5F/6F
FEED FLOW
2.40 lb/hr 2.42 lb/hr 2.41 lb/hr
1A 1B 1C

STEAM FLOW
#1 1.20 lb/hr #2 1.22 lb/hr

MAIN COND VAL 29" Hg
(MIN 23" Hg)

COND TANK LVL 41.5 ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS
X X X X
1-1 1-2 1-3 1-4

1F/2F SYSTEM 1
MIN. FLOW
3000 GPM
1F/2F SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ON OFF
51A ☐ ☒ 51C ☐ ☒
51B ☐ ☒ 51D ☐ ☒

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

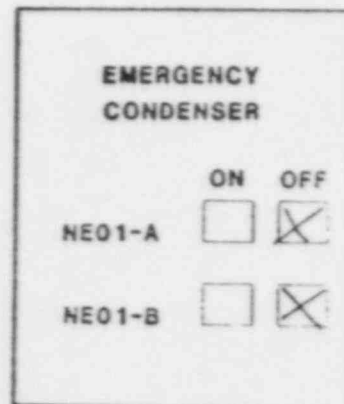
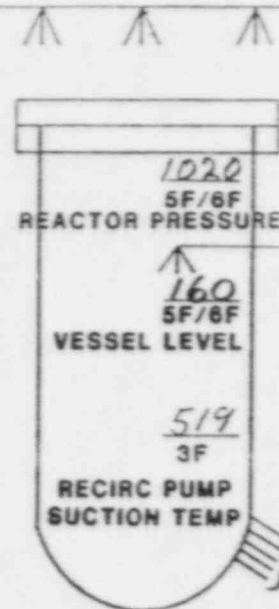
ON OFF
52A ☐ ☒ 52C ☐ ☒
AMPS
52B ☐ ☒ 52D ☐ ☒
AMPS

4F LIQUID POISON INJECTION
ON ☐ OFF ☒

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
1020 psig PUMP A ☐ ☒
1020 psig PUMP B ☐ ☒
1020 psig PUMP C ☐ ☒

CLEAN UP
DEMINERALIZER SYSTEM ☒ ☐



CORE SPRAY
FLOW ☐

ON OFF
SYSTEM 1
(MIN. FLOW
3400 GPM)
NZ03 A ☐ ☒
NZ01 A ☐ ☒
NZ03 C ☐ ☒
NZ01 C ☐ ☒

ON OFF
SYSTEM 11
(MIN. FLOW
3640 GPM)
NZ03 B ☐ ☒
NZ01 B ☐ ☒
NZ03 D ☐ ☒
NZ01 D ☐ ☒

3F RECIRC SYSTEM

TOTAL FLOW 61 EG #/Hr
ON OFF SUCTION DISCHARGE BY PASS
PUMP A ☒ ☐ ☐ ☐ ☐
PUMP B ☒ ☐ ☐ ☐ ☐
PUMP C ☒ ☐ ☐ ☐ ☐
PUMP D ☒ ☐ ☐ ☐ ☐
PUMP E ☒ ☐ ☐ ☐ ☐

PLANT STATUS

DATE 5/10 TIME 4:15 P.M.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☒ ALERT ☐
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☒
SGST ON ☐ OFF ☒

ELECTRICAL STATUS

AUX XFORMER ☒
SIU XFORMERS BK6 ☐ BK7 ☐ AVA ☐
DIESEL GEN #1 ☐ #2 ☐ AVA ☐

DRYWELL PRESSURE 1.28
12XR
DRYWELL TEMP 110°
1F/2F
TORUS TEMP/LEVEL 78°, 1.0"
11F

POWER 1930/1008 MW IN/%
4F

RODS SCRAMMED? YES ☐ NO ☒

5F/6F
FEED FLOW
2.40 lb/hr 2.42 lb/hr 2.41 lb/hr
1A 1B 1C

STEAM FLOW
#1 1.20 lb/hr #2 1.22 lb/hr

MAIN COND VAL 29" Hg
(MIN 23" Hg)

COND TANK LVL 41.5 ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS

X X X X
1-1 1-2 1-3 1-4

1F/2F
SYSTEM 1
MIN. FLOW
3000 GPM

1F/2F
SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ☒ FLOW ☐ ☒
ON OFF ON OFF
51A ☐ ☒ 51C ☐ ☒
51B ☐ ☒ 51D ☐ ☒

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

ON OFF ON OFF
52A ☐ ☒ 52C ☐ ☒
AMPS AMPS
52B ☐ ☒ 52D ☐ ☒
AMPS AMPS

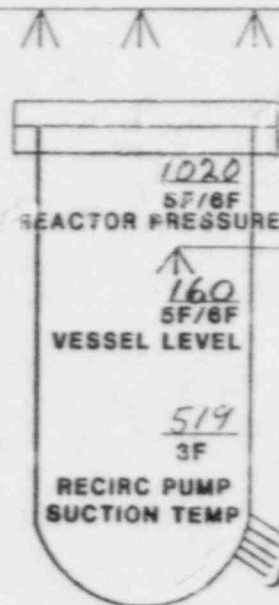
4F LIQUID POISON INJECTION

ON ☐ OFF ☒

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
1020 psig PUMP A ☐ ☒
1020 psig PUMP B ☐ ☒
1020 psig PUMP C ☐ ☒

CLEAN UP
DEMINERALIZER SYSTEM ☒ ☐



EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☒
NE01-B ☐ ☒

CORE SPRAY FLOW

☐

ON OFF
SYSTEM 1
(MIN. FLOW
3400 GPM)
NZ03 A ☐ ☒
NZ01 A ☐ ☒
NZ03 C ☐ ☒
NZ01 C ☐ ☒

SYSTEM 11
(MIN. FLOW
3640 GPM)
NZ03 B ☐ ☒
NZ01 B ☐ ☒
NZ03 D ☐ ☒
NZ01 D ☐ ☒

3F RECIRC SYSTEM

TOTAL FLOW 61 EG #/Hr

ON OFF SUCTION DISCHARGE BY PASS
PUMP A ☒ ☐ ☐ ☐ ☐
PUMP B ☒ ☐ ☐ ☐ ☐
PUMP C ☒ ☐ ☐ ☐ ☐
PUMP D ☒ ☐ ☐ ☐ ☐
PUMP E ☒ ☐ ☐ ☐ ☐

PLANT STATUS

DATE 5/10 TIME 4:20
P.M.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☒ ALERT ☐
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☒
SBGT ON ☐ OFF ☒

ELECTRICAL STATUS

AUX XFORMER ☒
SIU XFORMERS BK6 ☐ BK7 ☐ AVA
DIESEL GEN #1 ☐ #2 ☐ AVA

DRYWELL PRESSURE 1.32
12XR
DRYWELL TEMP 110°
1F/2F
TORUS TEMP/LEVEL 78°/1.0"
11F

1F/2F
SYSTEM 1
MIN. FLOW
3000 GPM

1F/2F
SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ON OFF
51A ☐ ☒
51B ☐ ☒
FLOW ☐ ON OFF
51C ☐ ☒
51D ☐ ☒

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

ON OFF
52A ☐ ☒
52B ☐ ☒
AMPS
52C ☐ ☒
52D ☐ ☒
AMPS

4F LIQUID POISON INJECTION

ON ☐ OFF ☒

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
1020 psig PUMP A ☐ ☒
1020 psig PUMP B ☐ ☒
1020 psig PUMP C ☐ ☒

CLEAN UP
DEMINERALIZER SYSTEM ☒ ☐

5F/6F
FEED FLOW
2.40 lb/hr 2.42 lb/hr 2.41 lb/hr
1A 1B 1C

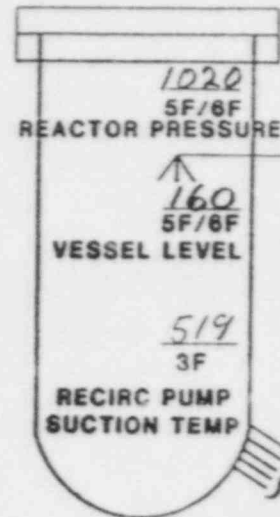
STEAM FLOW
#1 1.20 lb/hr #2 1.22 lb/hr

MAIN COND VAL 29" Hg
(MIN 23" Hg)

COND TANK LVL 41.5 ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS

☒ 1-1 ☒ 1-2 ☒ 1-3 ☒ 1-4



EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☒
NE01-B ☐ ☒

CORE SPRAY FLOW

ON OFF
NZ03 A ☐ ☐
NZ01 A ☐ ☐
NZ03 C ☐ ☐
NZ01 C ☐ ☐
NZ03 B ☐ ☐
NZ01 B ☐ ☐
NZ03 D ☐ ☐
NZ01 D ☐ ☒

SYSTEM 11
(MIN. FLOW
3640 GPM)

3F RECIRC SYSTEM

TOTAL FLOW 61 EG #/Hr

ON OFF SUCTION DISCHARGE BY PASS
PUMP A ☒ ☐ ☐ ☐ ☐
PUMP B ☒ ☐ ☐ ☐ ☐
PUMP C ☒ ☐ ☐ ☐ ☐
PUMP D ☒ ☐ ☐ ☐ ☐
PUMP E ☒ ☐ ☐ ☐ ☐

PLANT STATUS

DATE 5/10 TIME 4:30
PM

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☒
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☒
SBGT ON ☐ OFF ☒

ELECTRICAL STATUS

AUX XFORMER ☒
SIX XFORMERS BK3 ☐ BK7 ☐ AWA
DIESEL GEN #1 ☐ #2 ☐ AWA

DRYWELL PRESSURE 1.30
12XR
DRYWELL TEMP 113°
1F/2F
TORUS TEMP/LEVEL 78°/1.0"
11F

POWER 1930 / 100% MW 1h/%
4F

RODS SCRAMMED? YES ☐ NO ☒

5F/6F
FEED FLOW
2.40 lb/hr 2.42 lb/hr 2.41 lb/hr
1A 1B 1C

STEAM FLOW
#1 1.20 lb/hr #2 1.22 lb/hr

MAIN COND VAL 29" Hg
(MIN 23" Hg)

COND TANK LVL 41.5 ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS
X X X X
1-1 1-2 1-3 1-4

1F/2F
SYSTEM 1
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ON OFF
51A ☐ ☒ 51C ☐ ☒
51B ☐ ☒ 51D ☐ ☒

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

ON OFF
52A ☐ ☒ 52C ☐ ☒
AMPS
52B ☐ ☒ 52D ☐ ☒
AMPS

4F LIQUID POISON INJECTION
ON ☐ OFF ☒

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
1020 psig PUMP A ☐ ☒
1020 psig PUMP B ☐ ☒
1020 psig PUMP C ☐ ☒

CLEAN UP
DEMINERALIZER SYSTEM ☒ ☐

1020
5F/6F
REACTOR PRESSURE
160
5F/6F
VESSEL LEVEL
519
3F
RECIRC PUMP
SUCTION TEMP

EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☒
NE01-B ☐ ☒

CORE SPRAY FLOW

☐

ON OFF
SYSTEM 1
(MIN. FLOW
3400 GPM)
NZ03 A ☐ ☒
NZ01 A ☐ ☒
NZ03 C ☐ ☒
NZ01 C ☐ ☒

SYSTEM 11
(MIN. FLOW
3640 GPM)
NZ03 B ☐ ☒
NZ01 B ☐ ☒
NZ03 D ☐ ☒
NZ01 D ☐ ☒

3F RECIRC SYSTEM

TOTAL FLOW 5156 #/hr
ON OFF SUCTION DISCHARGE
PUMP A ☒ ☐ ☐ ☐
PUMP B ☒ ☐ ☐ ☐
PUMP C ☒ ☐ ☐ ☐
PUMP D ☒ ☐ ☐ ☐
PUMP E ☒ ☐ ☐ ☐

ATTACHMENT B-4

PLANT STATUS

DATE 5/10 TIME 4:45 P.M.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☒
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☒
SBGT ON ☐ OFF ☒

ELECTRICAL STATUS

AUX XFORMER ☒
SIU XFORMERS BK6 ☐ BK7 ☐ AVA
DIESEL GEN #1 ☐ #2 ☐ AVA

DRYWELL PRESSURE 1.29
12XR
DRYWELL TEMP 115.0
1F/2F
TORUS TEMP/LEVEL 78° / 1.0"
11F

POWER 1855 / 1968 MW th/%
4F

RODS SCRAMMED? YES ☐ NO ☒

5F/6F
FEED FLOW
2.40 lb/hr 2.42 lb/hr 2.41 lb/hr
1A 1B 1C

STEAM FLOW
#1 1.20 lb/hr #2 1.22 lb/hr

MAIN COND VAL 29" Hg
(MIN 23" Hg)

COND TANK LVL 41.5 ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS

X X X X
1-1 1-2 1-3 1-4

1F/2F SYSTEM 1
MIN. FLOW
3000 GPM
1F/2F SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ON OFF
51A ☐ ☒
51B ☐ ☒
51C ☐ ☒
51D ☐ ☒

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

ON OFF ON OFF
52A ☐ ☒ 52C ☐ ☒
AMPS AMPS
52B ☐ ☒ 52D ☐ ☒
AMPS AMPS

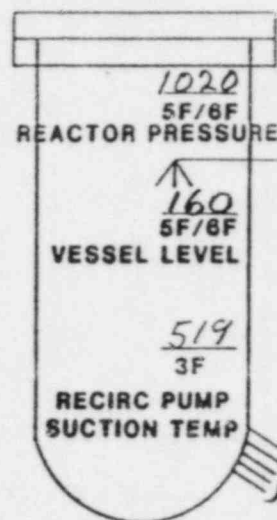
4F LIQUID POISON INJECTION

ON ☐ OFF ☒

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
1020 psig PUMP A ☐ ☒
1020 psig PUMP B ☐ ☒
1020 psig PUMP C ☐ ☒

CLEAN UP
MINERALIZER SYSTEM ☒ ☐



EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☒
NE01-B ☐ ☒

CORE SPRAY FLOW

ON OFF
NZ03 A ☐ ☒
NZ01 A ☐ ☒
NZ03 C ☐ ☒
NZ01 C ☐ ☒
NZ03 B ☐ ☒
NZ01 B ☐ ☒
NZ03 D ☐ ☒
NZ01 D ☐ ☒

SYSTEM 1
(MIN. FLOW
3400 GPM)

3F RECIRC SYSTEM

TOTAL FLOW 6056 #/Hr

ON OFF SUCTION DISCHARGE BY PASS
PUMP A ☒ ☐ ☐ ☐ ☐
PUMP B ☒ ☐ ☐ ☐ ☐
PUMP C ☒ ☐ ☐ ☐ ☐
PUMP D ☒ ☐ ☐ ☐ ☐
PUMP E ☒ ☐ ☐ ☐ ☐

PLANT STATUS

DATE 5/10 TIME 5:00 P.M.

ELECTRICAL STATUS

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☒
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☒
SBLT ON ☐ OFF ☒

AUX XFORMER

SIU XFORMERS BK6 ☐ BK7 ☐ AVA
DIESEL GEN #1 ☐ #2 ☐ AVA

DRYWELL PRESSURE 1.28
12XR
DRYWELL TEMP 118°
1F/2F
TORUS TEMP/LEVEL 78° / 1.0"
11F

POWER 1780 / 92% MW th/%
4F

RODS SCRAMMED? YES ☐ NO ☒

5F/6F
FEED FLOW
2.40 lb/hr 2.42 lb/hr 2.41 lb/hr
1A 1B 1C

STEAM FLOW
#1 1.20 lb/hr #2 1.22 lb/hr

MAIN COND VAL 29" Hg
(MIN 23" Hg)

COND TANK LVL 41.5 ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS

X X X X
1-1 1-2 1-3 1-4

1F/2F
SYSTEM 1
MIN. FLOW
3000 GPM

1F/2F
SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ☒ FLOW ☐ ☒
ON OFF ON OFF
51A ☐ ☒ 51C ☐ ☒
51B ☐ ☒ 51D ☐ ☒

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

ON OFF ON OFF
52A ☐ ☒ 52C ☐ ☒
AMPS AMPS
52B ☐ ☒ 52D ☐ ☒
AMPS AMPS

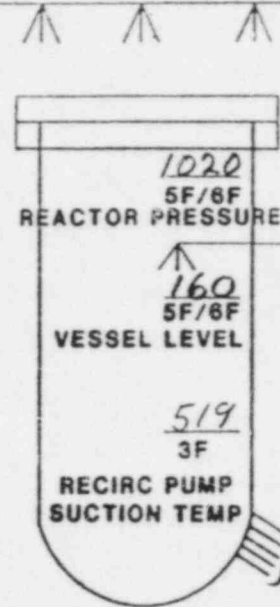
4F LIQUID POISON INJECTION

ON ☐ OFF ☒

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
1020 psig PUMP A ☐ ☒
1020 psig PUMP B ☐ ☒
1020 psig PUMP C ☐ ☒

CLEAN UP
DEMINERALIZER SYSTEM ☒ ☐



EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☒
NE01-B ☐ ☒

CORE SPRAY FLOW

☐

SYSTEM 1
(MIN. FLOW
3400 GPM)

ON OFF
NZ03 A ☐ ☒
NZ01 A ☐ ☒
NZ03 C ☐ ☒
NZ01 C ☐ ☒

SYSTEM 11
(MIN. FLOW
3640 GPM)

NZ03 B ☐ ☒
NZ01 B ☐ ☒
NZ03 D ☐ ☒
NZ01 D ☐ ☒

3F RECIRC SYSTEM

TOTAL FLOW 2356 #/Hr

ON OFF SUCTION DISCHARGE BY PASS
PUMP A ☒ ☐ ☐ ☐ ☐
PUMP B ☒ ☐ ☐ ☐ ☐
PUMP C ☒ ☐ ☐ ☐ ☐
PUMP D ☒ ☐ ☐ ☐ ☐
PUMP E ☒ ☐ ☐ ☐ ☐

PLANT STATUS

DATE 5/10 TIME 5:15
P.M.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☒
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☒
SBGT ON ☐ OFF ☒

ELECTRICAL STATUS

AUX XFORMER ☒
SIU XFORMERS BK6 ☐ BK7 ☐ AVA
DIESEL GEN #1 ☐ #2 ☐ AVA

DRYWELL PRESSURE 1.30
12XR
DRYWELL TEMP 120°
1F/2F
TORUS TEMP/LEVEL 78°/1.0"
11F

POWER 1705/888 MW th/%
4F

RODS SCRAMMED? YES ☐ NO ☒

5F/6F
FEED FLOW
2.40 lb/hr 2.42 lb/hr 2.41 lb/hr
1A 1B 1C

STEAM FLOW
#1 1.20 lb/hr #2 1.22 lb/hr

MAIN COND VAL 29" Hg
(MIN 23" Hg)

COND TANK LVL 41.5 ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS

X X X X
1-1 1-2 1-3 1-4

1F/2F
SYSTEM 1
MIN. FLOW
3000 GPM

1F/2F
SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ON OFF
51A ☐ ☒ 51C ☐ ☒
51B ☐ ☒ 51D ☐ ☒

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

ON OFF ON OFF
52A ☐ ☒ 52C ☐ ☒
AMPS AMPS
52B ☐ ☒ 52D ☐ ☒
AMPS AMPS

4F LIQUID POISON INJECTION

ON ☐ OFF ☒

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
1020 psig PUMP A ☐ ☒
1020 psig PUMP B ☐ ☒
1020 psig PUMP C ☐ ☒

CLEAN UP
DEMINERALIZER SYSTEM ☒ ☐

1020
5F/6F
REACTOR PRESSURE

160
5F/6F
VESSEL LEVEL

519
3F
RECIRC PUMP
SUCTION TEMP

EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☒
NE01-B ☐ ☒

CORE SPRAY FLOW

ON OFF
SYSTEM 1
(MIN. FLOW
3400 GPM)
NZ03 A ☐ ☒
NZ01 A ☐ ☒
NZ03 C ☐ ☒
NZ01 C ☐ ☒
SYSTEM 11
(MIN. FLOW
3640 GPM)
NZ03 B ☐ ☒
NZ01 B ☐ ☒
NZ03 D ☐ ☒
NZ01 D ☐ ☒

3F RECIRC SYSTEM

TOTAL FLOW 50E6 #/Hr

ON OFF SUCTION DISCHARGE BY PASS
PUMP A ☒ ☐ ☐ ☐ ☐
PUMP B ☒ ☐ ☐ ☐ ☐
PUMP C ☒ ☐ ☐ ☐ ☐
PUMP D ☒ ☐ ☐ ☐ ☐
PUMP E ☒ ☐ ☐ ☐ ☐

ATTACHMENT B-4

PLANT STATUS

DATE 5/10 TIME 5:30
P.M.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☒
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☒
SBGT ON ☐ OFF ☒

ELECTRICAL STATUS

AUX XFORMER ☒
SIU XFORMERS BK6 ☐ BK7 ☐ AVA ☐
DIESEL GEN #1 ☐ #2 ☐ AVA ☐

<p>DRYWELL PRESSURE <u>1.29</u> 12XR</p> <p>DRYWELL TEMP <u>122</u> 1F/2F</p> <p>TORUS TEMP/LEVEL <u>78° 1.0"</u> 11F</p>	<p>1F/2F SYSTEM 1 MIN. FLOW 3000 GPM</p> <p>CONTAINMENT SPRAY</p> <p>FLOW <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>ON OFF</p> <p>51A <input type="checkbox"/> <input checked="" type="checkbox"/> 51C <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>51B <input type="checkbox"/> <input checked="" type="checkbox"/> 51D <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)</p> <p>ON OFF</p> <p>52A <input type="checkbox"/> <input checked="" type="checkbox"/> 52C <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>AMPS</p> <p>52B <input type="checkbox"/> <input checked="" type="checkbox"/> 52D <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>AMPS</p>	<p>1F/2F SYSTEM 11 MIN. FLOW 3000 GPM</p> <p>CONTAINMENT SPRAY</p> <p>FLOW <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>ON OFF</p> <p>51C <input type="checkbox"/> <input checked="" type="checkbox"/> 51D <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)</p> <p>ON OFF</p> <p>52C <input type="checkbox"/> <input checked="" type="checkbox"/> 52D <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>AMPS</p> <p>52D <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>AMPS</p>	<p>REACTOR PRESSURE <u>1020</u> 5F/6F</p> <p>VESSEL LEVEL <u>160</u> 5F/6F</p> <p>RECIRC PUMP SUCTION TEMP <u>519</u> 3F</p>	<p>CORE SPRAY FLOW <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>ON OFF</p> <p>NZ03 A <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>NZ01 A <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>NZ03 C <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>NZ01 C <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>NZ03 B <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>NZ01 B <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>NZ03 D <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>NZ01 D <input type="checkbox"/> <input checked="" type="checkbox"/></p>
<p>POWER <u>1625/843</u> MW th/% 4F</p> <p>RODS SCRAMMED? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/></p>	<p>5F/6F FEED FLOW</p> <p><u>2.40</u> lb/hr <u>2.42</u> lb/hr <u>2.41</u> lb/hr 1A 1B 1C</p> <p>STEAM FLOW</p> <p>#1 <u>1.20</u> lb/hr #2 <u>1.22</u> lb/hr</p> <p>MAIN COND VAL <u>29"</u> Hg (MIN 23" Hg)</p> <p>COND TANK LVL <u>41.5</u> ft (MAX: 43 ft-MIN: 20 ft)</p> <p>CIRC WATER PUMPS</p> <p><u>X</u> <u>X</u> <u>X</u> <u>X</u> 1-1 1-2 1-3 1-4</p>			<p>3F RECIRC SYSTEM</p> <p>TOTAL FLOW <u>15 EG</u> #/Hr</p> <p>ON OFF SUCTION DISCHARGE BY PASS</p> <p>PUMP A <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>PUMP B <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>PUMP C <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>PUMP D <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>PUMP E <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>
<p>4F LIQUID POISON INJECTION</p> <p>ON <input type="checkbox"/> OFF <input checked="" type="checkbox"/></p>		<p>EMERGENCY CONDENSER</p> <p>ON OFF</p> <p>NE01-A <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>NE01-B <input type="checkbox"/> <input checked="" type="checkbox"/></p>		
<p>1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK</p> <p><u>1020</u> psig PUMP A <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p><u>1020</u> psig PUMP B <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p><u>1020</u> psig PUMP C <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>CLEAN UP DEMINERALIZER SYSTEM <input checked="" type="checkbox"/> <input type="checkbox"/></p>				

ATTACHMENT B-4

PLANT STATUS

DATE 5/10 TIME 5:45
P.M.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☐
SITE AREA ☒ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☒
SBGT ON ☐ OFF ☒

ELECTRICAL STATUS

AUX XFORMER ☒
SIU XFORMERS BK6 ☐ BK7 ☐
DIESEL GEN #1 ☐ #2 ☐

<p>DRYWELL PRESSURE <u>1.30</u> 12XR</p> <p>DRYWELL TEMP <u>125</u> 1F/2F</p> <p>TORUS TEMP/LEVEL <u>78° 1.0"</u> 11F</p>	<p>1F/2F SYSTEM 1 MIN. FLOW 3000 GPM</p> <p>1F/2F SYSTEM 11 MIN. FLOW 3000 GPM</p>	<p>CONTAINMENT SPRAY</p> <p>FLOW <input type="checkbox"/> <input checked="" type="checkbox"/> FLOW <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>ON OFF ON OFF</p> <p>51A <input type="checkbox"/> <input checked="" type="checkbox"/> 51C <input type="checkbox"/> <input checked="" type="checkbox"/> 51B <input type="checkbox"/> <input checked="" type="checkbox"/> 51D <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>REACTOR PRESSURE <u>1020</u> 5F/8F</p> <p>VESSEL LEVEL <u>160</u> 5F/8F</p> <p>RECIRC PUMP SUCTION TEMP <u>519</u> 3F</p>	<p>CORE SPRAY FLOW <input type="checkbox"/></p> <p>SYSTEM 1 (MIN. FLOW 3400 GPM)</p> <p>SYSTEM 11 (MIN. FLOW 3640 GPM)</p>
<p>POWER <u>1555 / 818</u> MW th/% 4F</p> <p>RODS SCRAMMED? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/></p>	<p>EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)</p> <p>ON OFF ON OFF</p> <p>52A <input type="checkbox"/> <input checked="" type="checkbox"/> 52C <input type="checkbox"/> <input checked="" type="checkbox"/> 52B <input type="checkbox"/> <input checked="" type="checkbox"/> 52D <input type="checkbox"/> <input checked="" type="checkbox"/></p> <p>AMPS AMPS</p>		<p>ON OFF</p> <p>NZ03 A <input type="checkbox"/> <input checked="" type="checkbox"/> NZ01 A <input type="checkbox"/> <input checked="" type="checkbox"/> NZ03 C <input type="checkbox"/> <input checked="" type="checkbox"/> NZ01 C <input type="checkbox"/> <input checked="" type="checkbox"/> NZ03 B <input type="checkbox"/> <input checked="" type="checkbox"/> NZ01 B <input type="checkbox"/> <input checked="" type="checkbox"/> NZ03 D <input type="checkbox"/> <input checked="" type="checkbox"/> NZ01 D <input type="checkbox"/> <input checked="" type="checkbox"/></p>	
<p>5F/8F FEED FLOW</p> <p><u>2.40</u> lb/hr <u>2.42</u> lb/hr <u>2.41</u> lb/hr 1A 1B 1C</p> <p>STEAM FLOW</p> <p>#1 <u>1.20</u> lb/hr #2 <u>1.22</u> lb/hr</p> <p>MAIN COND VAL <u>29"</u> Hg (MIN 23" Hg)</p>	<p>4F LIQUID POISON INJECTION</p> <p>ON <input type="checkbox"/> OFF <input checked="" type="checkbox"/></p>		<p>EMERGENCY CONDENSER</p> <p>ON OFF</p> <p>NE01-A <input type="checkbox"/> <input checked="" type="checkbox"/> NE01-B <input type="checkbox"/> <input checked="" type="checkbox"/></p>	
<p>COND TANK LVL. <u>41.5</u> ft (MAX: 43 ft-MIN: 20 ft)</p>	<p>1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK</p> <p>ON OFF</p> <p><u>1020</u> psig PUMP A <input type="checkbox"/> <input checked="" type="checkbox"/> <u>1020</u> psig PUMP B <input type="checkbox"/> <input checked="" type="checkbox"/> <u>1020</u> psig PUMP C <input type="checkbox"/> <input checked="" type="checkbox"/></p>		<p>3F RECIRC SYSTEM</p> <p>TOTAL FLOW <u>42E6</u> #/Hr</p> <p>ON OFF SUCTION DISCHARGE BY PASS</p> <p>PUMP A <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> PUMP B <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> PUMP C <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> PUMP D <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> PUMP E <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>	
<p>CIRC WATER PUMPS</p> <p><u>X</u> <u>X</u> <u>X</u> <u>X</u> 1-1 1-2 1-3 1-4</p>	<p>CLEAN UP DEMINERALIZER SYSTEM <input checked="" type="checkbox"/> <input type="checkbox"/></p>			

PLANT STATUS

DATE 5/10 TIME 5:59
P.M.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☐
SITE AREA ☒ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☒
SBGT ON ☐ OFF ☒

ELECTRICAL STATUS

AUX XFORMER ☒
SIU XFORMERS BK6 ☐ BK7 ☐
DIESEL GEN #1 ☐ #2 ☐

DRYWELL PRESSURE 132
12XR
DRYWELL TEMP 130
1F/2F
TORUS TEMP/LEVEL 78°/1.0"
11F

POWER 1485/1788 MW th/%
4F

RODS SCRAMMED? YES ☐ NO ☒

5F/6F
FEED FLOW
2.40 lb/hr 2.42 lb/hr 2.41 lb/hr
1A 1B 1C

STEAM FLOW
#1 1.20 lb/hr #2 1.22 lb/hr

MAIN COND VAL 29" Hg
(MIN 23" Hg)

COND TANK LVL 41.5 ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS

X X X X
1-1 1-2 1-3 1-4

1F/2F
SYSTEM 1
MIN. FLOW
3000 GPM

1F/2F
SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ FLOW ☐
ON OFF ON OFF
51A ☐ ☒ 51C ☐ ☒
51B ☐ ☒ 51D ☐ ☒

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

ON OFF ON OFF
52A ☐ ☒ 52C ☐ ☒
AMPS AMPS
52B ☐ ☒ 52D ☐ ☒
AMPS AMPS

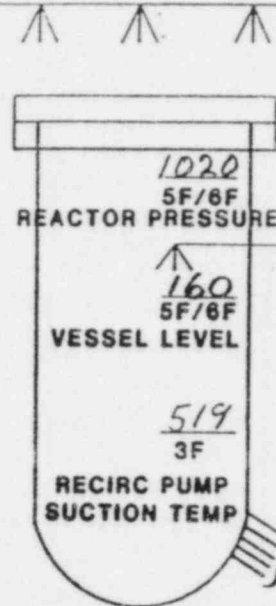
4F LIQUID POISON INJECTION

ON ☐ OFF ☒

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
1020 psig PUMP A ☐ ☒
1020 psig PUMP B ☐ ☒
1020 psig PUMP C ☐ ☒

CLEAN UP
DEMINERALIZER SYSTEM ☒ ☐



EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☒
NE01-B ☐ ☒

CORE SPRAY FLOW

ON OFF
NZ03 A ☐ ☒
NZ01 A ☐ ☒
NZ03 C ☐ ☒
NZ01 C ☐ ☒

SYSTEM 11
(MIN. FLOW
3640 GPM)

NZ03 B ☐ ☒
NZ01 B ☐ ☒
NZ03 D ☐ ☒
NZ01 D ☐ ☒

3F RECIRC SYSTEM

TOTAL FLOW 39 E6 #/Hr

ON OFF SUCTION DISCHARGE BY PASS
PUMP A ☒ ☐ ☐ ☐ ☐
PUMP B ☐ ☒ ☐ ☐ ☐
PUMP C ☒ ☐ ☐ ☐ ☐
PUMP D ☒ ☐ ☐ ☐ ☐
PUMP E ☒ ☐ ☐ ☐ ☐

PLANT STATUS

DATE 5/10 TIME 6:01

EMERGENCY CLASSIFICATION

USUAL EVENT ☐ ALERT ☐
TE AREA ☒ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☒ NO ☐
SBGT ON ☐ OFF ☒

ELECTRICAL STATUS

AUX XFORMER ☒
SIU XFORMERS BK6 ☐ BK7 ☐
DIESEL GEN #1 ☐ #2 ☐

RYWELL PRESSURE 38
12XR
RYWELL TEMP 270
1F/2F
ORUS TEMP/LEVEL 92.8"
11F

OWER < 28 MW th/%
4F

DDS SCRAMMED? YES ☒ NO ☐

F/6F
EED FLOW
1A 1 lb/hr 1B 1 lb/hr 1C 1 lb/hr

TEAM FLOW
1 1 lb/hr #2 1 lb/hr

AIN COND VAL 1 Hg
(MIN 23" Hg)

OND TANK LVL 41.0 ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS

1-1 1-2 1-3 1-4

1F/2F
SYSTEM 1
MIN. FLOW
3000 GPM

1F/2F
SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ON ☐ OFF ☐
51A ☐ ☐ 51C ☐ ☐
51B ☐ ☐ 51D ☐ ☐

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

ON OFF ON OFF
52A ☐ ☐ 52C ☐ ☐
AMPS AMPS
52B ☐ ☐ 52D ☐ ☐
AMPS AMPS

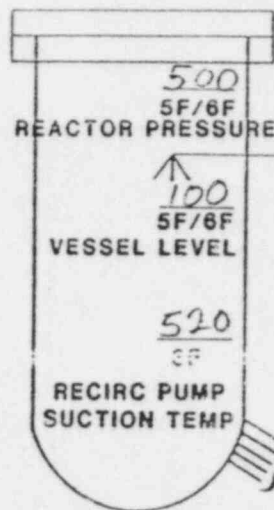
4F LIQUID POISON INJECTION

ON ☐ OFF ☒

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
psig PUMP A ☐ ☐
psig PUMP B ☐ ☐
psig PUMP C ☐ ☐

CLEAN UP
DEMINERALIZER SYSTEM ☐ ☒



EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☒
NE01-B ☒ ☐

CORE SPRAY FLOW

ON OFF
NZ03 A ☐ ☐
NZ01 A ☐ ☐
NZ03 C ☐ ☐
NZ01 C ☐ ☐

SYSTEM 1
(MIN. FLOW
3400 GPM)

NZ03 B ☐ ☐
NZ01 B ☐ ☐
NZ03 D ☐ ☐
NZ01 D ☐ ☐

SYSTEM 11
(MIN. FLOW
3640 GPM)

3F RECIRC SYSTEM

TOTAL
FLOW ☐

ON OFF SUCTION DISCHARGE BY PASS
PUMP A ☐ ☐ ☐ ☐
PUMP B ☐ ☐ ☐ ☐
PUMP C ☐ ☐ ☐ ☐
PUMP D ☐ ☐ ☐ ☐
PUMP E ☐ ☐ ☐ ☐

PLANT STATUS

DATE 5/10 TIME 6:05
P.M.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☐
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☐
SBGT ON ☐ OFF ☐

ELECTRICAL STATUS

AUX XFORMER ☐
SIU XFORMERS BK6 ☐ BK7 ☐
DIESEL GEN #1 ☒ #2 ☐

DRYWELL PRESSURE 12XR
DRYWELL TEMP 1F/2F
TORUS TEMP/LEVEL /
11F

POWER 4F MW th/%

RODS SCRAMMED? YES ☐ NO ☐

5F/6F
FEED FLOW
1A lb/hr 1B lb/hr 1C lb/hr

STEAM FLOW
#1 lb/hr #2 lb/hr

MAIN COND VAL Hg
(MIN 23" Hg)

COND TANK LVL ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS

1-1 1-2 1-3 1-4

1F/2F
SYSTEM 1
MIN. FLOW
3000 GPM

1F/2F
SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ON OFF ☐ ☐
51A ☐ ☐ 51C ☐ ☐
51B ☐ ☐ 51D ☐ ☐

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 50 ± 3 AMPS)

ON OFF ☐ ☐ ON OFF ☐ ☐
52A ☐ ☐ 52C ☐ ☐
AMPS AMPS
52B ☐ ☐ 52D ☐ ☐
AMPS AMPS

4F LIQUID POISON INJECTION

ON ☐ OFF ☐

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
psig PUMP A ☐ ☐
psig PUMP B ☐ ☐
psig PUMP C ☐ ☐

CLEAN UP
DEMINERALIZER SYSTEM ☐ ☐

REACTOR PRESSURE

5F/6F
VESSEL LEVEL

5F/6F
VESSEL LEVEL

RECIRC PUMP
SUCTION TEMP

EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☐
NE01-B ☐ ☐

CORE SPRAY
FLOW

ON OFF
SYSTEM 1
(MIN. FLOW
3400 GPM)
NZ03 A ☐ ☐
NZ01 A ☐ ☐
NZ03 C ☐ ☐
NZ01 C ☐ ☐

SYSTEM 11
(MIN. FLOW
3640 GPM)

NZ03 B ☐ ☐
NZ01 B ☐ ☐
NZ03 D ☐ ☐
NZ01 D ☐ ☐

3F RECIRC SYSTEM

TOTAL
FLOW

ON OFF SUCTION DISCHARGE BY PASS
PUMP A ☐ ☐ ☐ ☐ ☐
PUMP B ☐ ☐ ☐ ☐ ☐
PUMP C ☐ ☐ ☐ ☐ ☐
PUMP D ☐ ☐ ☐ ☐ ☐

PLANT STATUS

DATE 5/10 TIME 6:15 P.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☐
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☐
SBGT ON ☐ OFF ☐

ELECTRICAL STATUS

AUX XFORMER ☐
SIU XFORMERS BK6 ☐ BK7 ☐
DIESEL GEN #1 ☐ #2 ☐

DRYWELL PRESSURE 12XR
DRYWELL TEMP 1F/2F
TORUS TEMP/LEVEL /
11F

POWER 4F MW th/%

RODS SCRAMMED? YES ☐ NO ☐

5F/6F
FEED FLOW
1A lb/hr 1B lb/hr 1C lb/hr

STEAM FLOW
#1 lb/hr #2 lb/hr

MAIN COND VAL Hg
(MIN 23" Hg)

COND TANK LVL ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS

1-1 1-2 1-3 1-4

1F/2F
SYSTEM 1
MIN. FLOW
3000 GPM

1F/2F
SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ON OFF ☐ ON
51A ☐ ☐ 51C ☐ ☐
51B ☐ ☐ 51D ☐ ☐

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

ON OFF ON OFF
52A ☐ ☐ 52C ☐ ☐
AMPS AMPS
52B ☐ ☐ 52D ☐ ☐
AMPS AMPS

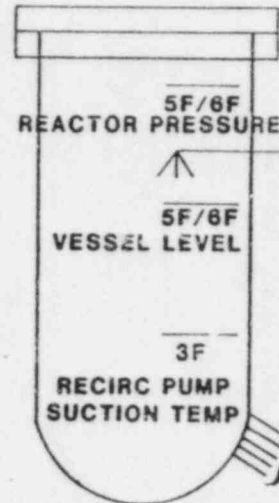
4F LIQUID POISON INJECTION

ON ☐ OFF ☐

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
_____ psig PUMP A ☐ ☐
_____ psig PUMP B ☐ ☐
_____ psig PUMP C ☐ ☐

CLEAN UP
DEMINERALIZER SYSTEM ☐ ☐



EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☐
NE01-B ☐ ☐

CORE SPRAY FLOW

ON OFF

SYSTEM 1
(MIN. FLOW
3400 GPM)

NZ03 A ☐ ☐
NZ01 A ☐ ☐
NZ03 C ☐ ☐
NZ01 C ☐ ☐

SYSTEM 11
(MIN. FLOW
3640 GPM)

NZ03 B ☐ ☐
NZ01 B ☐ ☐
NZ03 D ☐ ☐
NZ01 D ☐ ☐

3F RECIRC SYSTEM

TOTAL
FLOW ☐

ON OFF SUCTION DISCHARGE BY PASS
PUMP A ☐ ☐ ☐ ☐ ☐
PUMP B ☐ ☐ ☐ ☐ ☐
PUMP C ☐ ☐ ☐ ☐ ☐
PUMP D ☐ ☐ ☐ ☐ ☐
PUMP E ☐ ☐ ☐ ☐ ☐

PLANT STATUS

DATE 5/10 TIME 6:30 P.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☐
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☐
SBGT ON ☐ OFF ☐

ELECTRICAL STATUS

AUX XFORMER ☐
SIU XFORMERS BK6 ☐ BK7 ☐
DIESEL GEN #1 ☐ #2 ☐

DRYWELL PRESSURE 12XR
DRYWELL TEMP 1F/2F
TORUS TEMP/LEVEL /
11F

POWER 4F MW th/%

RODS SCRAMMED? YES ☐ NO ☐

5F/6F
FEED FLOW
1A lb/hr 1B lb/hr 1C lb/hr

STEAM FLOW
#1 lb/hr #2 lb/hr

MAIN COND VAL Hg
(MIN 23" Hg)

COND TANK LVL ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS

1-1 1-2 1-3 1-4

1F/2F
SYSTEM 1
MIN. FLOW
3000 GPM

1F/2F
SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ON OFF ☐ ON
51A ☐ ☐ 51C ☐ ☐
51B ☐ ☐ 51D ☐ ☐

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

ON OFF ON OFF
52A ☐ ☐ 52C ☐ ☐
AMPS AMPS
52B ☐ ☐ 52D ☐ ☐
AMPS AMPS

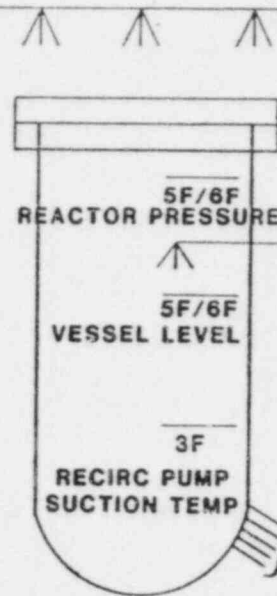
4F LIQUID POISON INJECTION

ON ☐ OFF ☐

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
psig PUMP A ☐ ☐
psig PUMP B ☐ ☐
psig PUMP C ☐ ☐

CLEAN UP
DEMINERALIZER SYSTEM ☐ ☐



EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☐
NE01-B ☐ ☐

CORE SPRAY FLOW

ON OFF

SYSTEM 1
(MIN. FLOW
3400 GPM)

NZ03 A ☐ ☐
NZ01 A ☐ ☐
NZ03 C ☐ ☐
NZ01 C ☐ ☐

SYSTEM 11
(MIN. FLOW
3640 GPM)

NZ03 B ☐ ☐
NZ01 B ☐ ☐
NZ03 D ☐ ☐
NZ01 D ☐ ☐

3F RECIRC SYSTEM

TOTAL
FLOW ☐

	ON	OFF	SUCTION	DISCHARGE	BY PASS
PUMP A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUMP B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUMP C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUMP D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUMP E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PLANT STATUS

DATE 5/10 TIME 7:00

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☐
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☐
SBGT ON ☐ OFF ☐

ELECTRICAL STATUS

AUX XFORMER ☐
SIU XFORMERS BK6 ☐ BK7 ☐
DIESEL GEN #1 ☐ #2 ☐

DRYWELL PRESSURE 12XR
DRYWELL TEMP 1F/2F
TORUS TEMP/LEVEL /
11F

POWER 4F MW th/%

RODS SCRAMMED? YES ☐ NO ☐

5F/6F
FEED FLOW
1A lb/hr 1B lb/hr 1C lb/hr

STEAM FLOW
#1 lb/hr #2 lb/hr

MAIN COND VAL Hg
(MIN 23" Hg)

COND TANK LVL ft
(MAX: 43 ft-MIN: 20 ft)

CIRC WATER PUMPS

1-1 1-2 1-3 1-4

1F/2F
SYSTEM 1
MIN. FLOW
3000 GPM

1F/2F
SYSTEM 11
MIN. FLOW
3000 GPM

CONTAINMENT SPRAY

FLOW ☐ ☐ ON OFF
51A ☐ ☐ 51C ☐ ☐
51B ☐ ☐ 51D ☐ ☐

EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)

52A ☐ ☐ ON OFF 52C ☐ ☐ ON OFF
AMPS AMPS
52B ☐ ☐ 52D ☐ ☐
AMPS AMPS

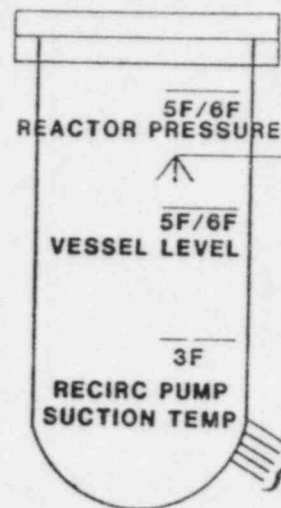
4F LIQUID POISON INJECTION

ON ☐ OFF ☐

1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK

ON OFF
psig PUMP A ☐ ☐
psig PUMP B ☐ ☐
psig PUMP C ☐ ☐

CLEAN UP
DEMINERALIZER SYSTEM ☐ ☐



EMERGENCY CONDENSER

ON OFF
NE01-A ☐ ☐
NE01-B ☐ ☐

CORE SPRAY FLOW

ON OFF

SYSTEM 1
(MIN. FLOW
3400 GPM)

NZ03 A ☐ ☐
NZ01 A ☐ ☐
NZ03 C ☐ ☐
NZ01 C ☐ ☐

SYSTEM 11
(MIN. FLOW
3640 GPM)

NZ03 B ☐ ☐
NZ01 B ☐ ☐
NZ03 D ☐ ☐
NZ01 D ☐ ☐

3F RECIRC SYSTEM

TOTAL
FLOW ☐

	ON	OFF	SUCTION	DISCHARGE	BY PASS
PUMP A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUMP B	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUMP C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUMP D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PUMP E	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PLANT STATUS

DATE 5/10 TIME 7:30

EMERGENCY CLASSIFICATION

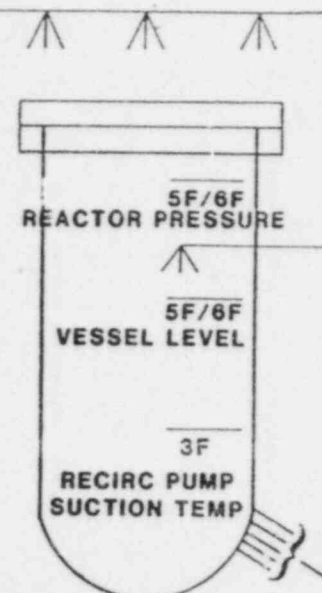
UNUSUAL EVENT ☐ ALERT ☐
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☐
SBGT ON ☐ OFF ☐

ELECTRICAL STATUS

AUX XFORMER ☐
SIU XFORMERS BK6 ☐ BK7 ☐
DIESEL GEN #1 ☐ #2 ☐

<p>DRYWELL PRESSURE <u>12XR</u></p> <p>DRYWELL TEMP <u>1F/2F</u></p> <p>TORUS TEMP/LEVEL <u>/</u> <u>11F</u></p> <p>POWER <u>4F</u> MW th/%</p> <p>RODS SCRAMMED? YES <input type="checkbox"/> NO <input type="checkbox"/></p> <p>5F/6F FEED FLOW <u>1A</u> lb/hr <u>1B</u> lb/hr <u>1C</u> lb/hr</p> <p>STEAM FLOW #1 <u> </u> lb/hr #2 <u> </u> lb/hr</p> <p>MAIN COND VAL <u> </u> Hg (MIN 23" Hg)</p> <p>COND TANK LVL <u> </u> ft (MAX: 43 ft-MIN: 20 ft)</p> <p>CIRC WATER PUMPS <u>1-1</u> <u>1-2</u> <u>1-3</u> <u>1-4</u></p>	<p>1F/2F SYSTEM 1 MIN. FLOW 3000 GPM</p> <p>1F/2F SYSTEM 11 MIN. FLOW 3000 GPM</p> <p>CONTAINMENT SPRAY</p> <p>FLOW <input type="checkbox"/> ON OFF <input type="checkbox"/> ON</p> <p>51A <input type="checkbox"/> <input type="checkbox"/> 51C <input type="checkbox"/> <input type="checkbox"/></p> <p>51B <input type="checkbox"/> <input type="checkbox"/> 51D <input type="checkbox"/> <input type="checkbox"/></p> <p>EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53±3 AMPS)</p> <p>52A <input type="checkbox"/> <input type="checkbox"/> ON OFF <input type="checkbox"/> <input type="checkbox"/> AMPS</p> <p>52B <input type="checkbox"/> <input type="checkbox"/> ON OFF <input type="checkbox"/> <input type="checkbox"/> AMPS</p> <p>52C <input type="checkbox"/> <input type="checkbox"/> ON OFF <input type="checkbox"/> <input type="checkbox"/> AMPS</p> <p>52D <input type="checkbox"/> <input type="checkbox"/> ON OFF <input type="checkbox"/> <input type="checkbox"/> AMPS</p> <p>4F LIQUID POISON INJECTION ON <input type="checkbox"/> OFF <input type="checkbox"/></p> <p>1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK</p> <p><u> </u> psig PUMP A <input type="checkbox"/> <input type="checkbox"/></p> <p><u> </u> psig PUMP B <input type="checkbox"/> <input type="checkbox"/></p> <p><u> </u> psig PUMP C <input type="checkbox"/> <input type="checkbox"/></p> <p>CLEAN UP DEMINERALIZER SYSTEM <input type="checkbox"/> <input type="checkbox"/></p>	 <p>5F/6F REACTOR PRESSURE</p> <p>5F/6F VESSEL LEVEL</p> <p>3F RECIRC PUMP SUCTION TEMP</p> <p>EMERGENCY CONDENSER</p> <p>NE01-A <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>NE01-B <input type="checkbox"/> ON <input type="checkbox"/> OFF</p>	<p>CORE SPRAY FLOW <input type="checkbox"/></p> <p>SYSTEM 1 (MIN. FLOW 3400 GPM)</p> <p>NZ03 A <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>NZ01 A <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>NZ03 C <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>NZ01 C <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>SYSTEM 11 (MIN. FLOW 3640 GPM)</p> <p>NZ03 B <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>NZ01 B <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>NZ03 D <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>NZ01 D <input type="checkbox"/> ON <input type="checkbox"/> OFF</p> <p>3F RECIRC SYSTEM</p> <p>TOTAL FLOW <input type="checkbox"/></p> <p>PUMP A <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> SUCTION <input type="checkbox"/> DISCHARGE <input type="checkbox"/> BY PASS</p> <p>PUMP B <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> SUCTION <input type="checkbox"/> DISCHARGE <input type="checkbox"/> BY PASS</p> <p>PUMP C <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> SUCTION <input type="checkbox"/> DISCHARGE <input type="checkbox"/> BY PASS</p> <p>PUMP D <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> SUCTION <input type="checkbox"/> DISCHARGE <input type="checkbox"/> BY PASS</p> <p>PUMP E <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> SUCTION <input type="checkbox"/> DISCHARGE <input type="checkbox"/> BY PASS</p>
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PLANT STATUS

DATE 5/10 TIME 8:00
P.M.

EMERGENCY CLASSIFICATION

UNUSUAL EVENT ☐ ALERT ☐
SITE AREA ☐ GENERAL ☐

Rx BLDG STATUS

ISOLATED YES ☐ NO ☐
SBGT ON ☐ OFF ☐

ELECTRICAL STATUS

AUX XFORMER ☐
SIU XFORMERS BK6 ☐ BK7 ☐
DIESEL GEN #1 ☐ #2 ☐

<p>DRYWELL PRESSURE <u>12XR</u></p> <p>DRYWELL TEMP <u>1F/2F</u></p> <p>TORUS TEMP/LEVEL <u>11F</u></p>	<p>1F/2F SYSTEM 1 MIN. FLOW 3000 GPM</p>		<p>1F/2F SYSTEM 11 MIN. FLOW 3000 GPM</p>			<p>CORE SPRAY FLOW <input type="checkbox"/></p>	
	<p>CONTAINMENT SPRAY</p>		<p>CONTAINMENT SPRAY</p>			<p>SYSTEM 1 (MIN. FLOW 3400 GPM)</p>	
	<p>FLOW <input type="checkbox"/> ON <input type="checkbox"/> OFF</p>		<p>FLOW <input type="checkbox"/> ON <input type="checkbox"/> OFF</p>			<p>NZ03 A <input type="checkbox"/> <input type="checkbox"/></p> <p>NZ01 A <input type="checkbox"/> <input type="checkbox"/></p> <p>NZ03 C <input type="checkbox"/> <input type="checkbox"/></p> <p>NZ01 C <input type="checkbox"/> <input type="checkbox"/></p>	
	<p>51A <input type="checkbox"/> <input type="checkbox"/></p> <p>51B <input type="checkbox"/> <input type="checkbox"/></p>		<p>51C <input type="checkbox"/> <input type="checkbox"/></p> <p>51D <input type="checkbox"/> <input type="checkbox"/></p>			<p>NZ03 B <input type="checkbox"/> <input type="checkbox"/></p> <p>NZ01 B <input type="checkbox"/> <input type="checkbox"/></p> <p>NZ03 D <input type="checkbox"/> <input type="checkbox"/></p> <p>NZ01 D <input type="checkbox"/> <input type="checkbox"/></p>	
<p>POWER <u>4F</u> MW th/%</p> <p>RODS SCRAMMED? YES <input type="checkbox"/> NO <input type="checkbox"/></p>	<p>EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)</p>		<p>EMERGENCY SERVICE WATER PUMPS (NORMAL AMPS 53 ± 3 AMPS)</p>		<p>SYSTEM 11 (MIN. FLOW 3640 GPM)</p>		
	<p>ON OFF</p>		<p>ON OFF</p>		<p>ON OFF</p>		
	<p>52A <input type="checkbox"/> <input type="checkbox"/></p> <p>52B <input type="checkbox"/> <input type="checkbox"/></p>		<p>52C <input type="checkbox"/> <input type="checkbox"/></p> <p>52D <input type="checkbox"/> <input type="checkbox"/></p>		<p>AMPS</p>		
	<p>AMPS</p>		<p>AMPS</p>		<p>AMPS</p>		
<p>5F/6F FEED FLOW</p> <p><u>1A</u> lb/hr <u>1B</u> lb/hr <u>1C</u> lb/hr</p> <p>STEAM FLOW</p> <p>#1 <u> </u> lb/hr #2 <u> </u> lb/hr</p> <p>MAIN COND VAL <u> </u> Hg (MIN 23" Hg)</p> <p>COND TANK LVL <u> </u> ft (MAX: 43 ft-MIN: 20 ft)</p> <p>CIRC WATER PUMPS</p> <p><u>1-1</u> <u>1-2</u> <u>1-3</u> <u>1-4</u></p>	<p>4F LIQUID POISON INJECTION</p>		<p>4F LIQUID POISON INJECTION</p>		<p>3F RECIRC SYSTEM</p>		
	<p>ON <input type="checkbox"/> OFF <input type="checkbox"/></p>		<p>ON <input type="checkbox"/> OFF <input type="checkbox"/></p>		<p>TOTAL FLOW <input type="checkbox"/></p>		
	<p>1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK</p>		<p>1F/2F SHUTDOWN COOLING SYSTEM FLOW BLOCK</p>		<p>ON OFF</p>		
	<p>ON OFF</p>		<p>ON OFF</p>		<p>ON OFF SUCTION DISCHARGE BY PASS</p>		
<p>_____ psig PUMP A <input type="checkbox"/> <input type="checkbox"/></p> <p>_____ psig PUMP B <input type="checkbox"/> <input type="checkbox"/></p> <p>_____ psig PUMP C <input type="checkbox"/> <input type="checkbox"/></p> <p>CLEAN UP MINERALIZER SYSTEM <input type="checkbox"/> <input type="checkbox"/></p>		<p>NE01-A <input type="checkbox"/> <input type="checkbox"/></p> <p>NE01-B <input type="checkbox"/> <input type="checkbox"/></p>		<p>PUMP A <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>PUMP B <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>PUMP C <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>PUMP D <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p> <p>PUMP E <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/></p>			

OCNGS
ANNUAL EXERCISE
1984

ATTACHMENT B-5

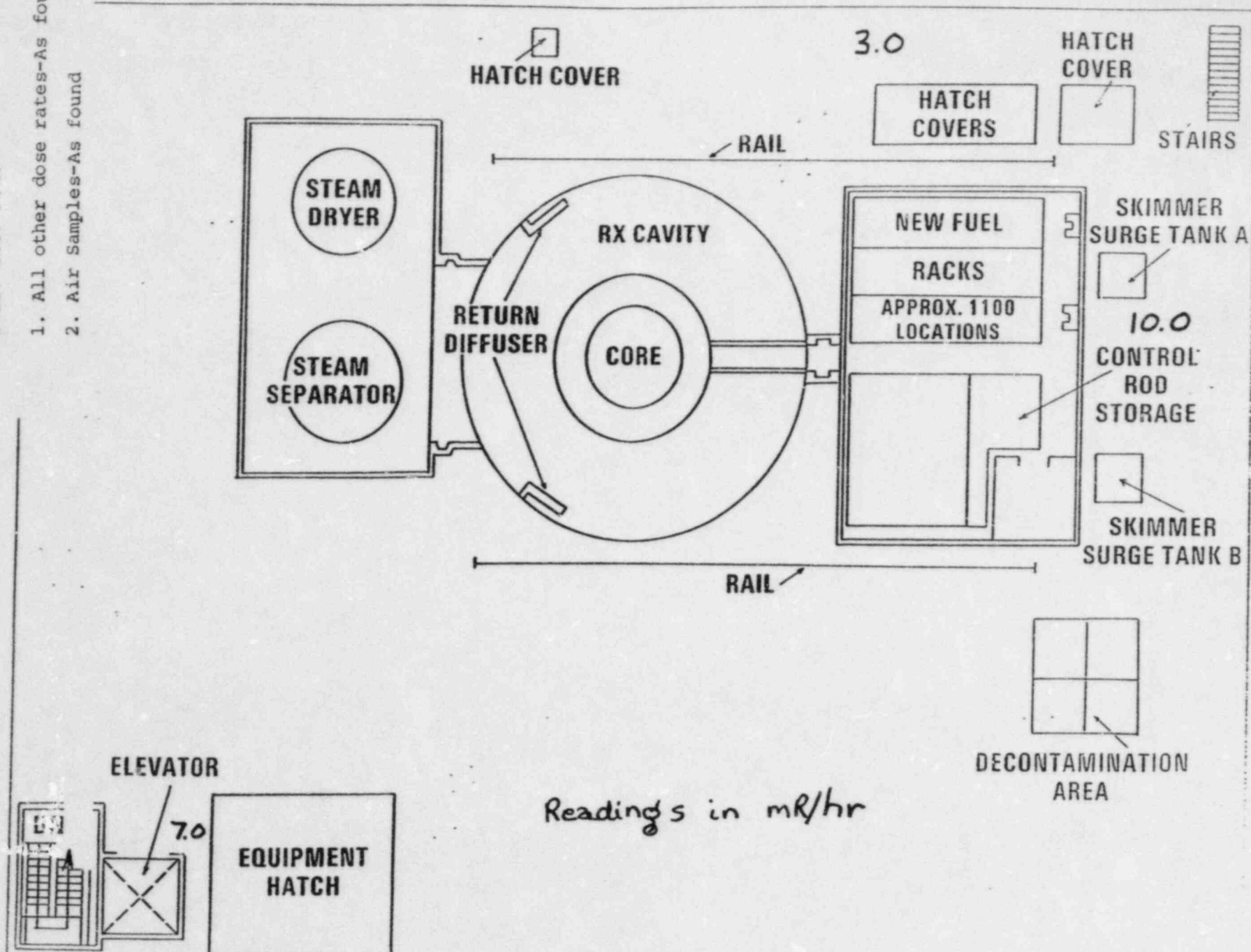
FLOOR PLANS

T=0. 4:00 P.M.

to

T=127 6:07 P.M.

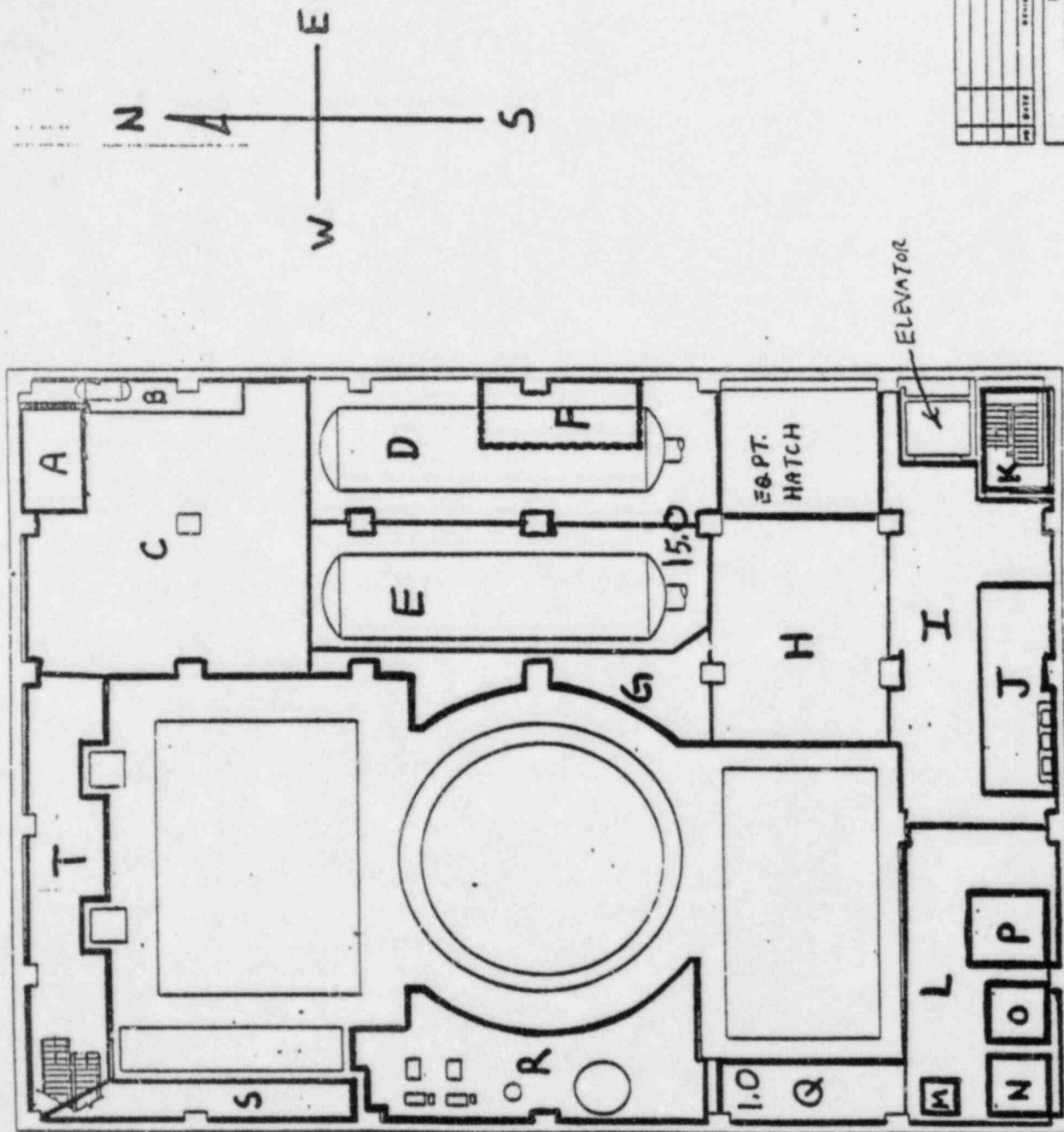
1. All other dose rates-As found
2. Air Samples-As found



119' Elev. Rx. Bldg.

T=0 4:00 P.M.
 to
 T=127 6:07 P.M.
 1. All other dose rates-As found
 2. Air Samples-As found

ATTACHMENT B-5



ELEV. 95'-3"

Readings in mR/hr

NO.	DATE	REMARKS	POWER & LIGHT CO.
			HOBBSISTON, N. J.
			SAVER-CATER NUCLEAR
			REACTOR BUILDING
			'15

T=0 4:00 P.M.

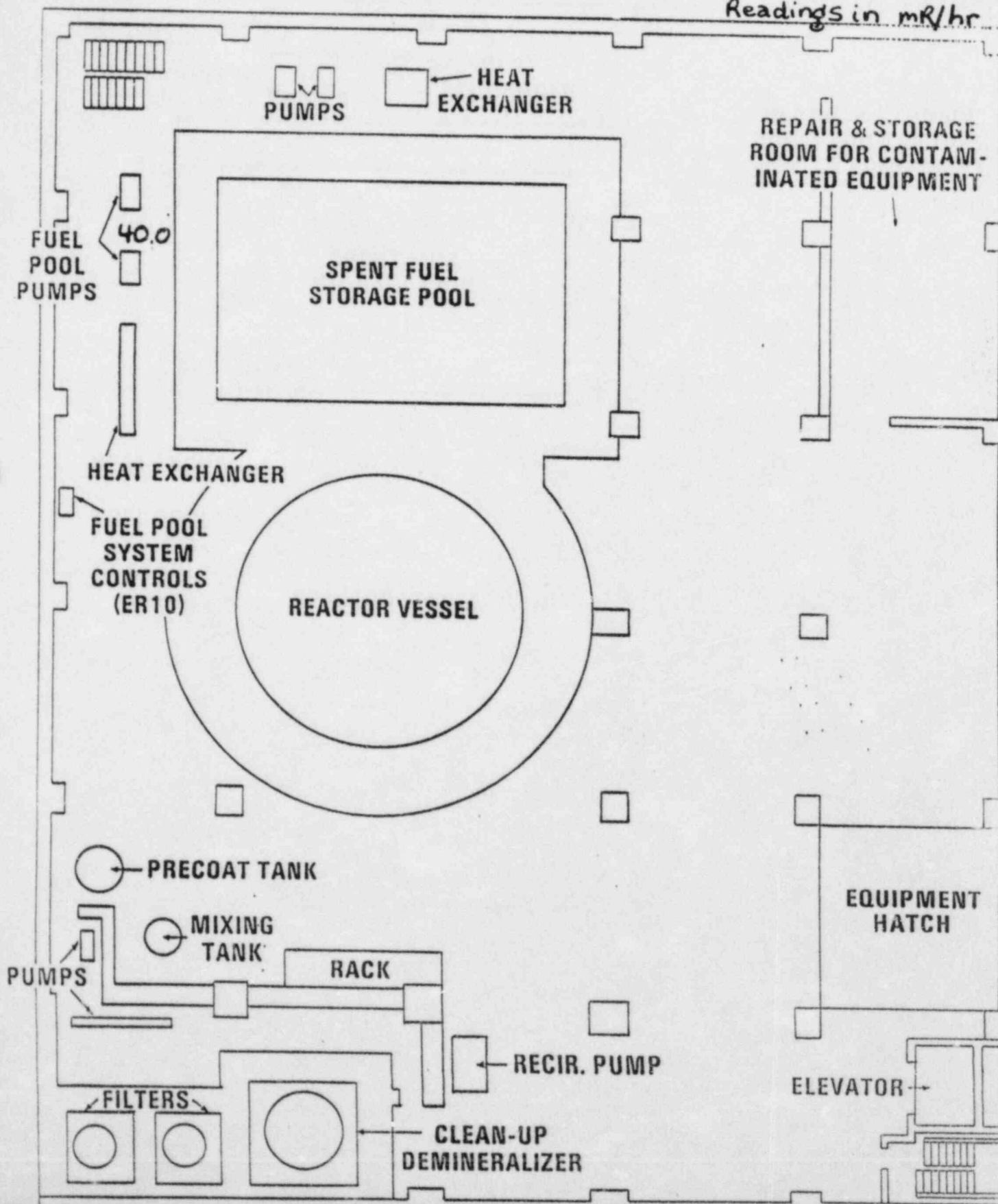
to

T=127 6:07 P.M.

Augmented Fuel Pool Cooling System

1. All other dose rates-As found
2. Air Samples-As found

Readings in mR/hr



ATTACHMENT B-5

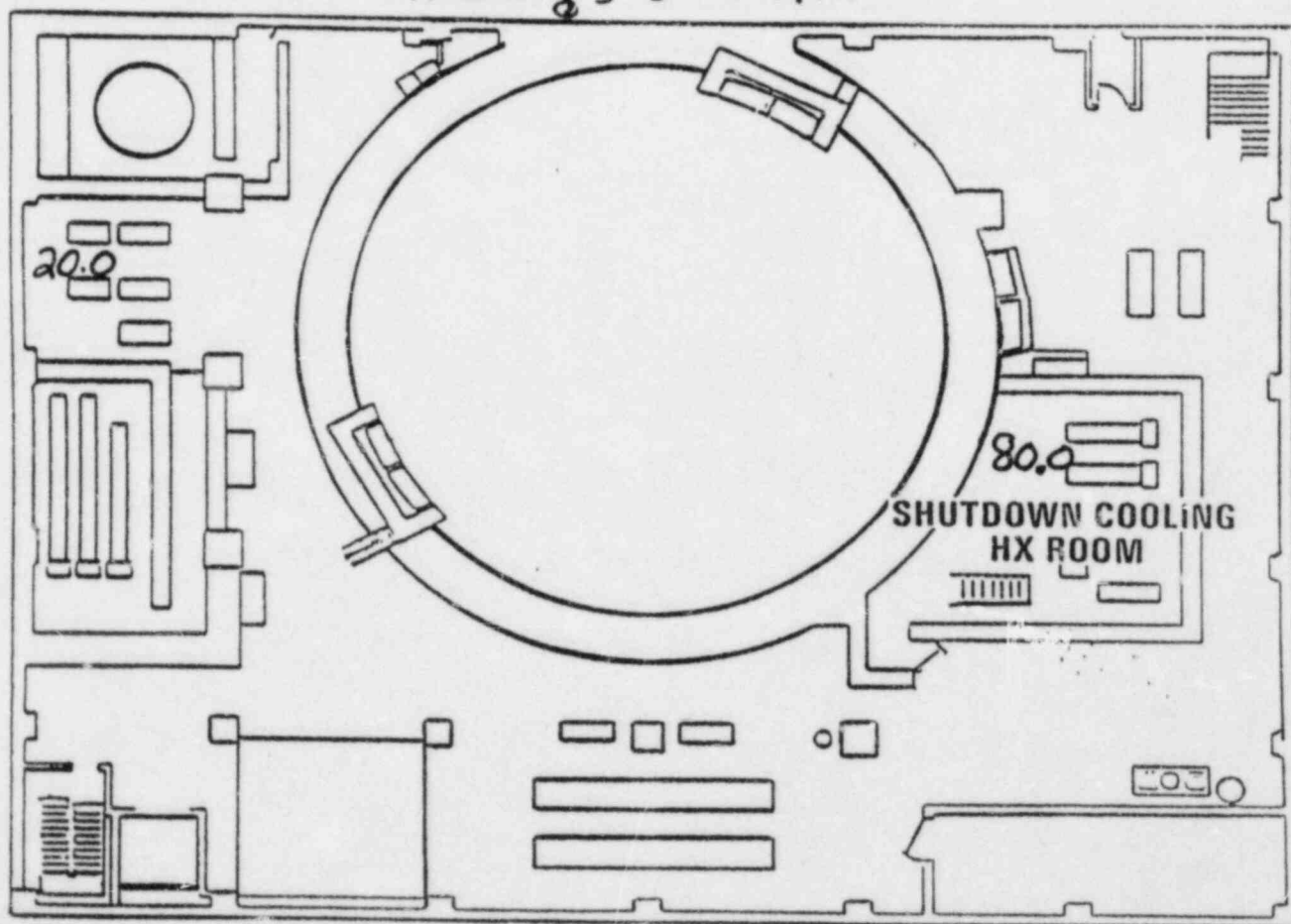
T=0 4:00 P.M.
to
T=127 6:07 P.M.

1. All other dose rates-As found
2. Air Samples-As found

51' ELEVATION

Rx. Bldg

Readings in mR/hr

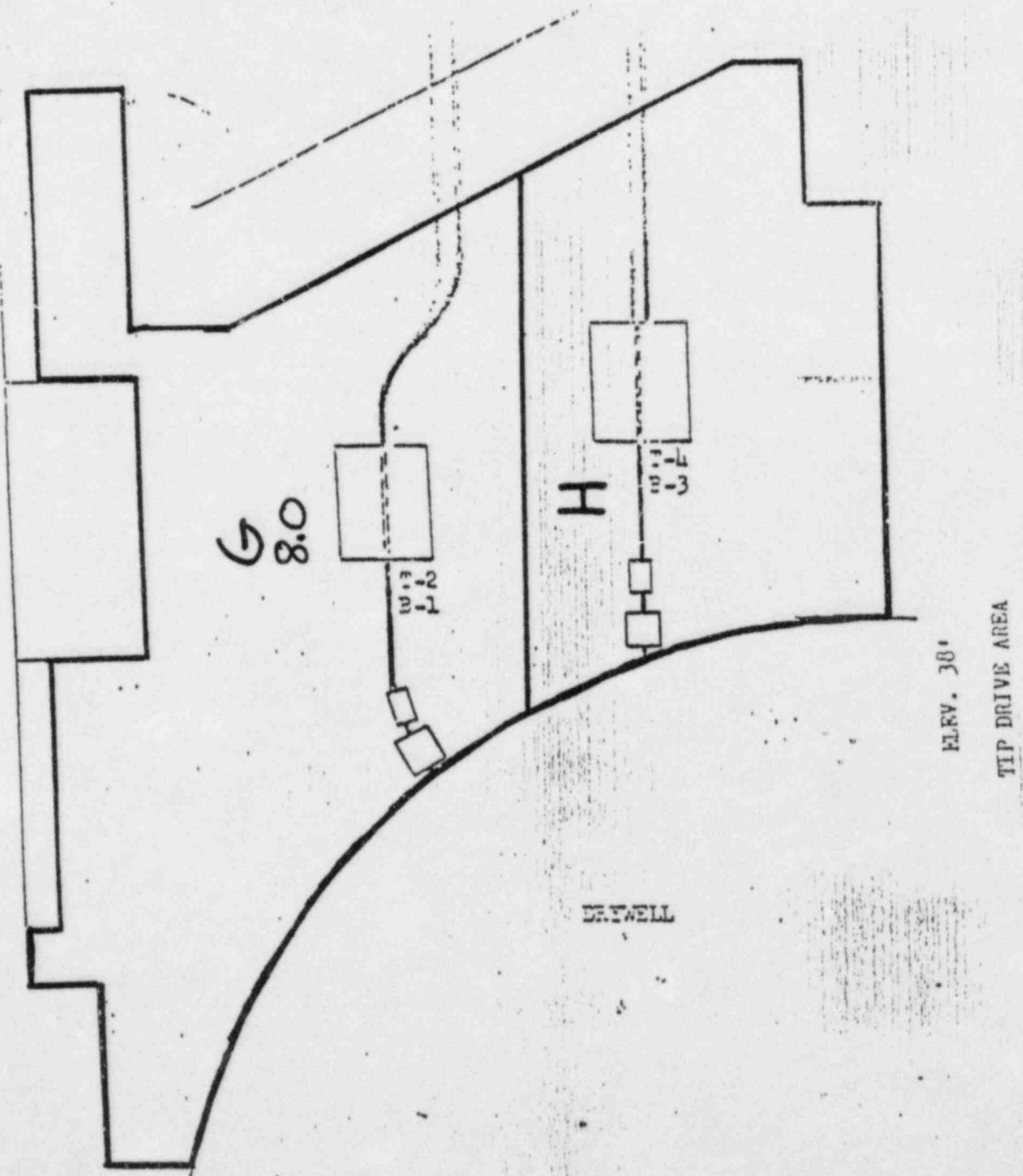


ATTACHMENT B-5

T=0 4:00 P.M.
to
T=127 6:07 P.M.

1. All other dose rates-As found
2. Air Samples-As found

Readings in mR/hr



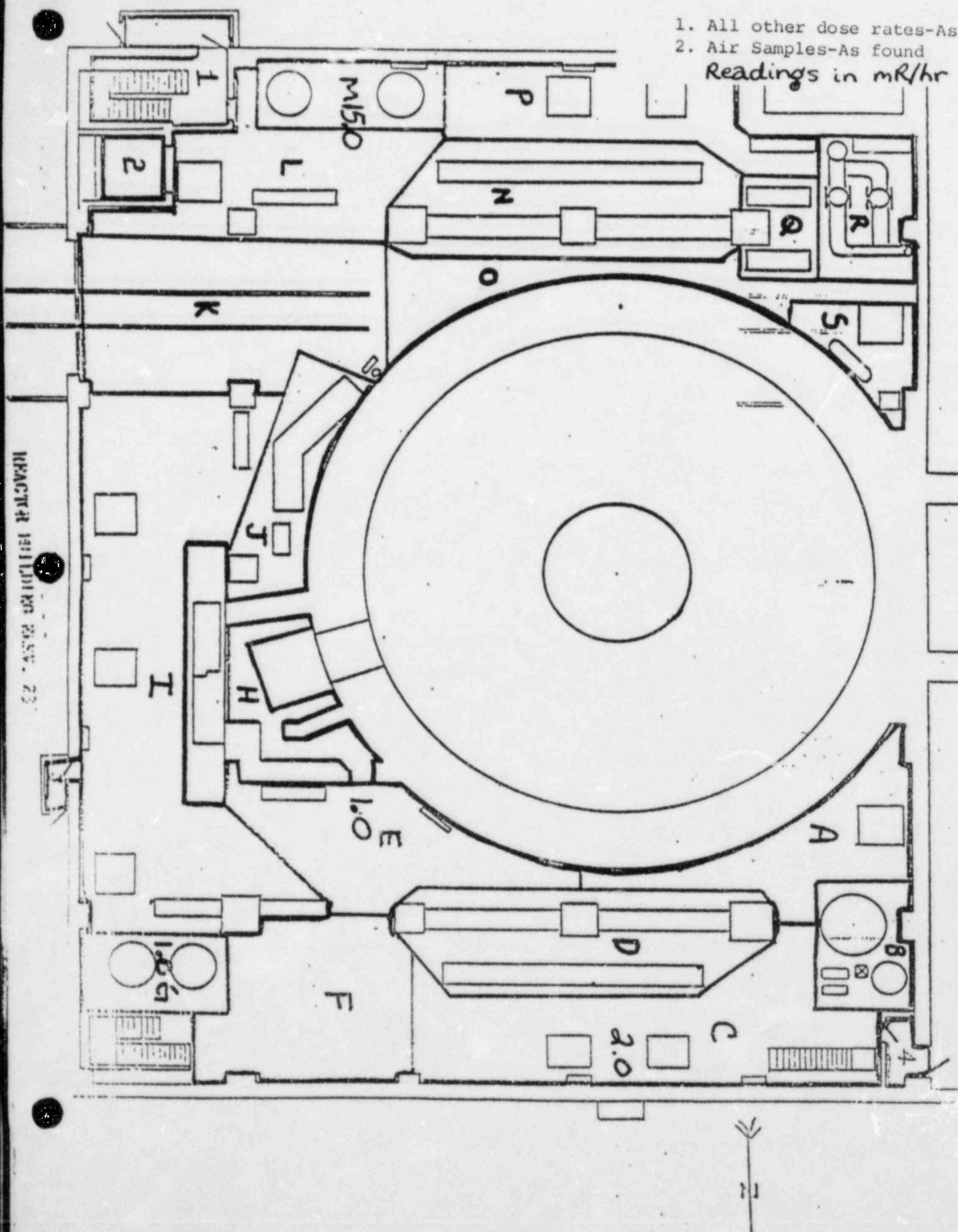
T=0 4:00 P.M.

to

T=127 6:07 P.M.

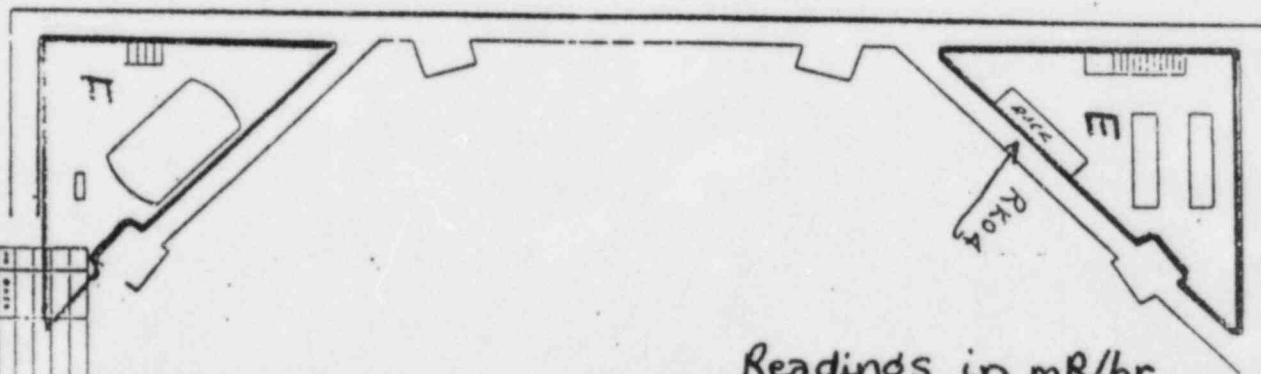
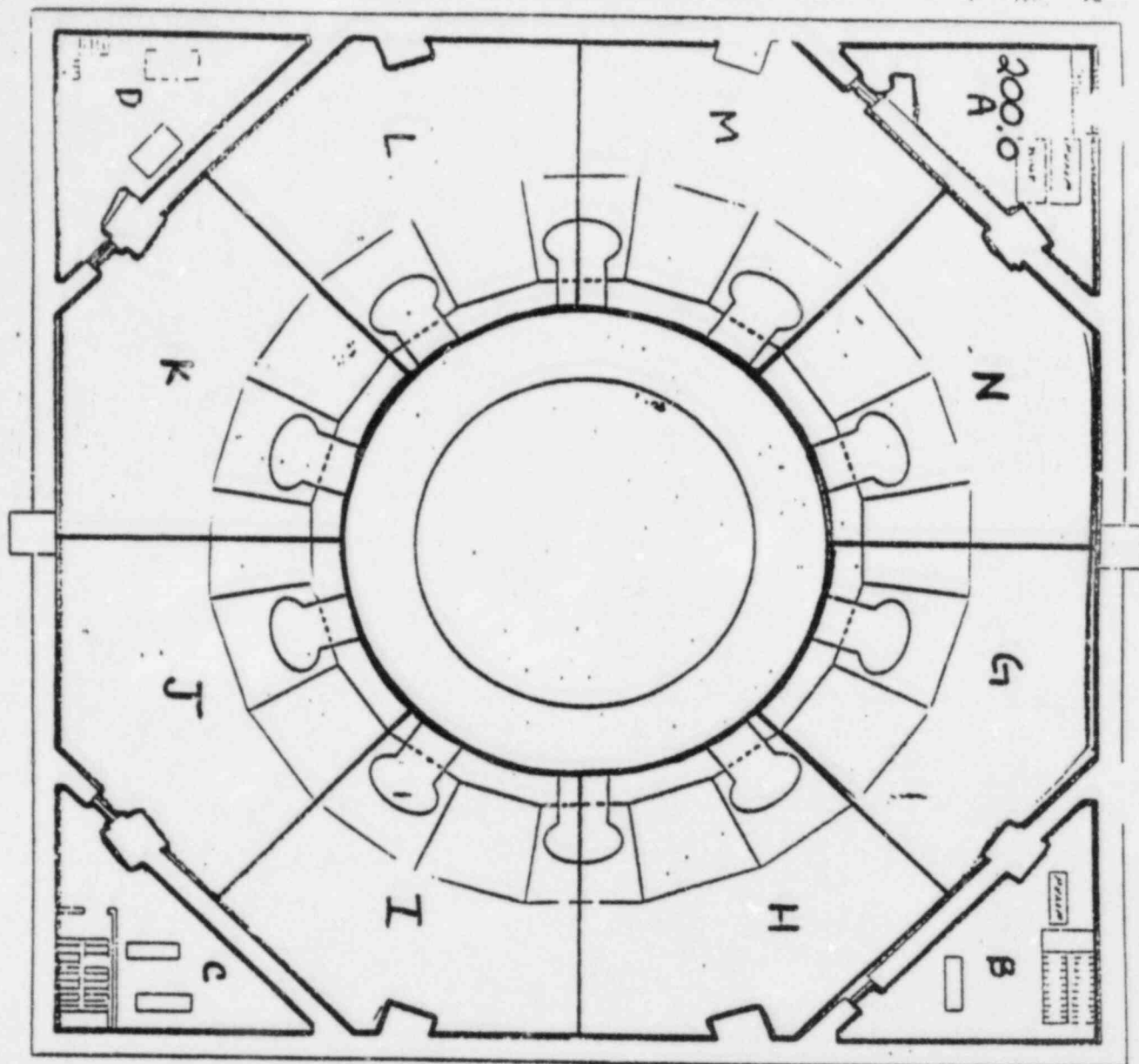
1. All other dose rates-As found
2. Air Samples-As found

Readings in mR/hr



REACTOR BUILDING 2050-23

ELEV.-19'-6"



Readings in mR/hr

T=0 4:00 P.M.

to

T=127 6:07 P.M.

1. All other dose rates-As found
2. Air Samples-As found

REACTOR BUILDING CELL AREA

FOX & CO. CO.

SYSTEM CHAIN SECTION ENGINEERING GROUP

1977-07-11

1977-07-11

1977-07-11

1977-07-11

1977-07-11

1977-07-11

1977-07-11

1977-07-11

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1977-07-11

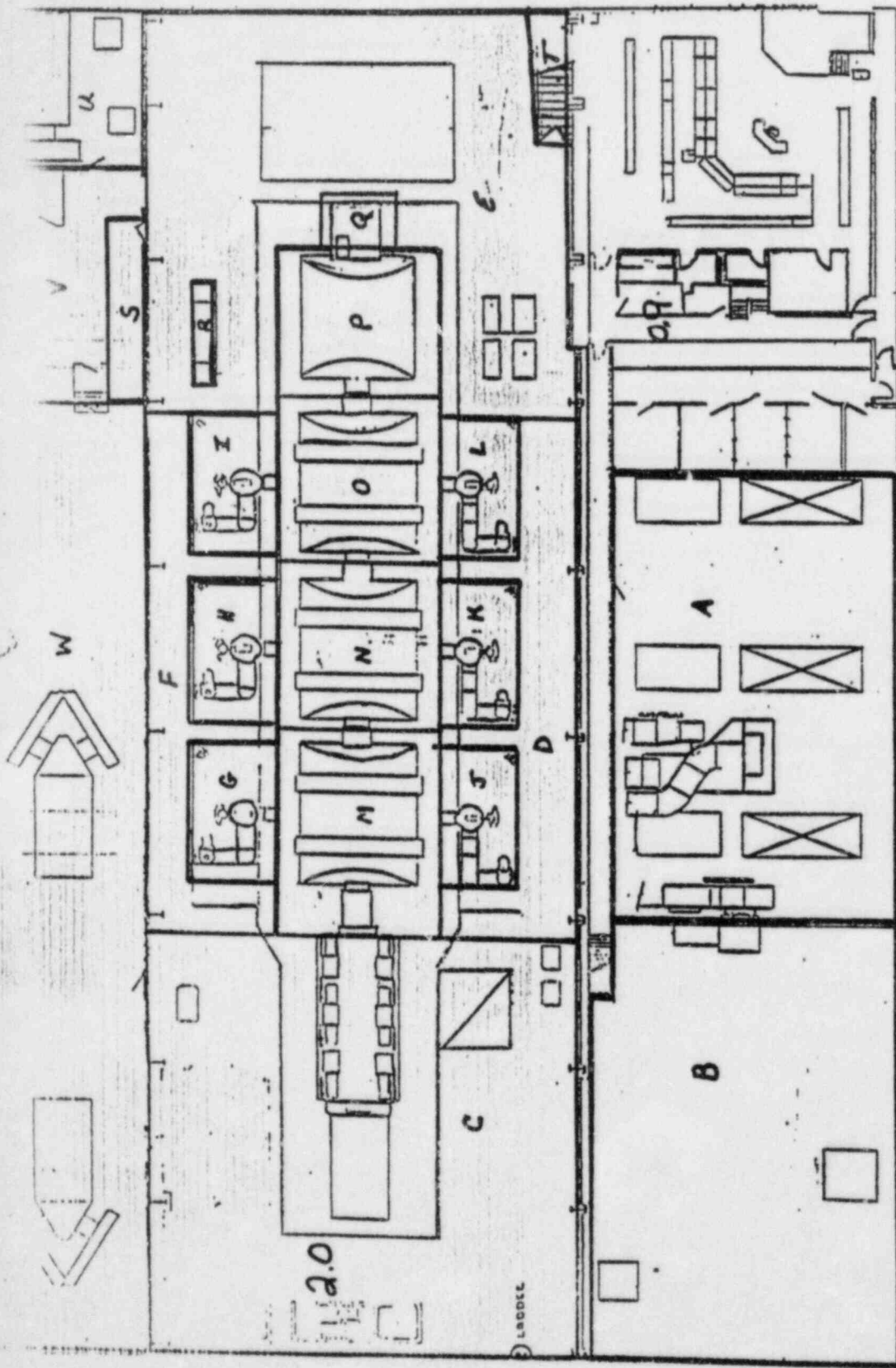
1977-07-11

1977-07-11

1977-07-11

1. All other dose rates-As found
2. Air Samples-As found

T=0 4:00 P.M.
to
T=127 6:07 P.M.



0.03

OPERATING FLOOR

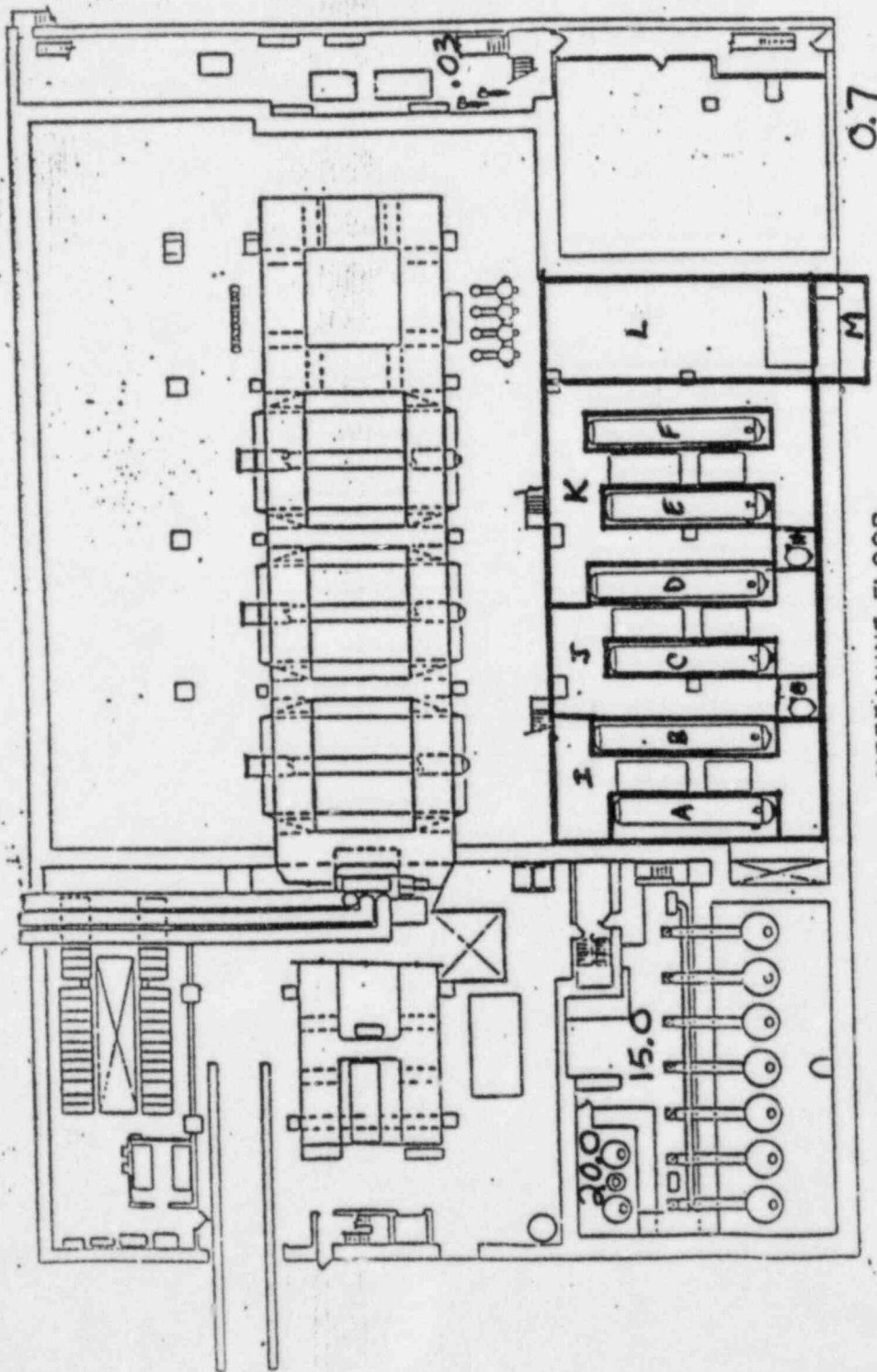
Reading in mR/hr.

NO.	DATE	BY	REMARKS
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

POWER & LIGHT CO.
HORN 5' CWT. N. J.
COSTER GREEN BUILDING
TURBINE OIL TANK
TURBINE COOLING FLOOR
DRAWING NO. 1

T=0 4:00 P.M.
to
T=127 6:07 P.M.

1. All other dose rates-As found
2. Air Samples-As found



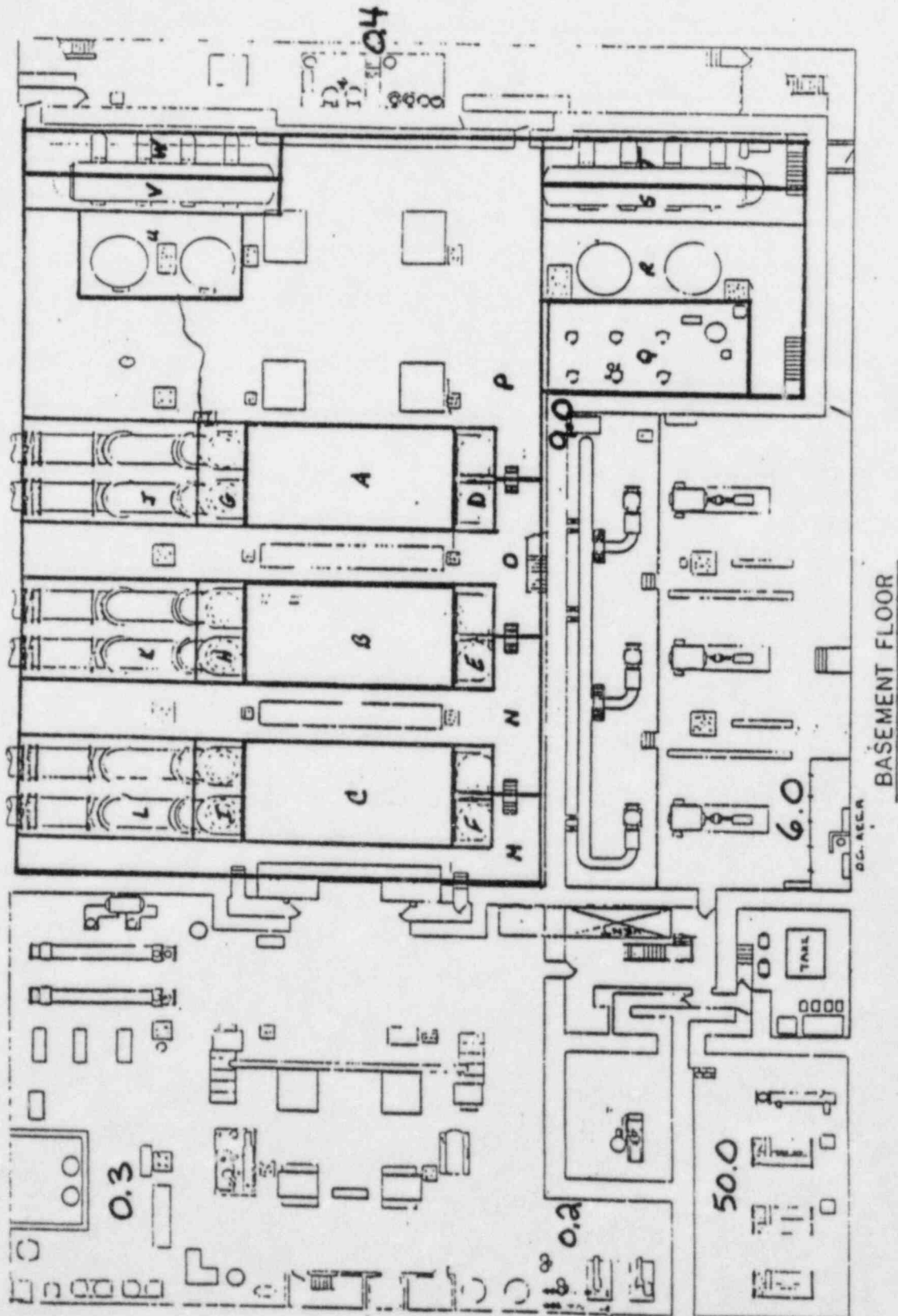
MEZZANINE FLOOR

Readings in mR/hr

DATE	TIME	LOCATION	READINGS
10/1/77	10:00	MEZZANINE FLOOR	0.7
10/1/77	10:05	MEZZANINE FLOOR	0.7
10/1/77	10:10	MEZZANINE FLOOR	0.7
10/1/77	10:15	MEZZANINE FLOOR	0.7
10/1/77	10:20	MEZZANINE FLOOR	0.7
10/1/77	10:25	MEZZANINE FLOOR	0.7
10/1/77	10:30	MEZZANINE FLOOR	0.7
10/1/77	10:35	MEZZANINE FLOOR	0.7
10/1/77	10:40	MEZZANINE FLOOR	0.7
10/1/77	10:45	MEZZANINE FLOOR	0.7
10/1/77	10:50	MEZZANINE FLOOR	0.7
10/1/77	10:55	MEZZANINE FLOOR	0.7
10/1/77	11:00	MEZZANINE FLOOR	0.7

Page 127 6:07 P.M.

- [illegible]



Readings in mL/hr

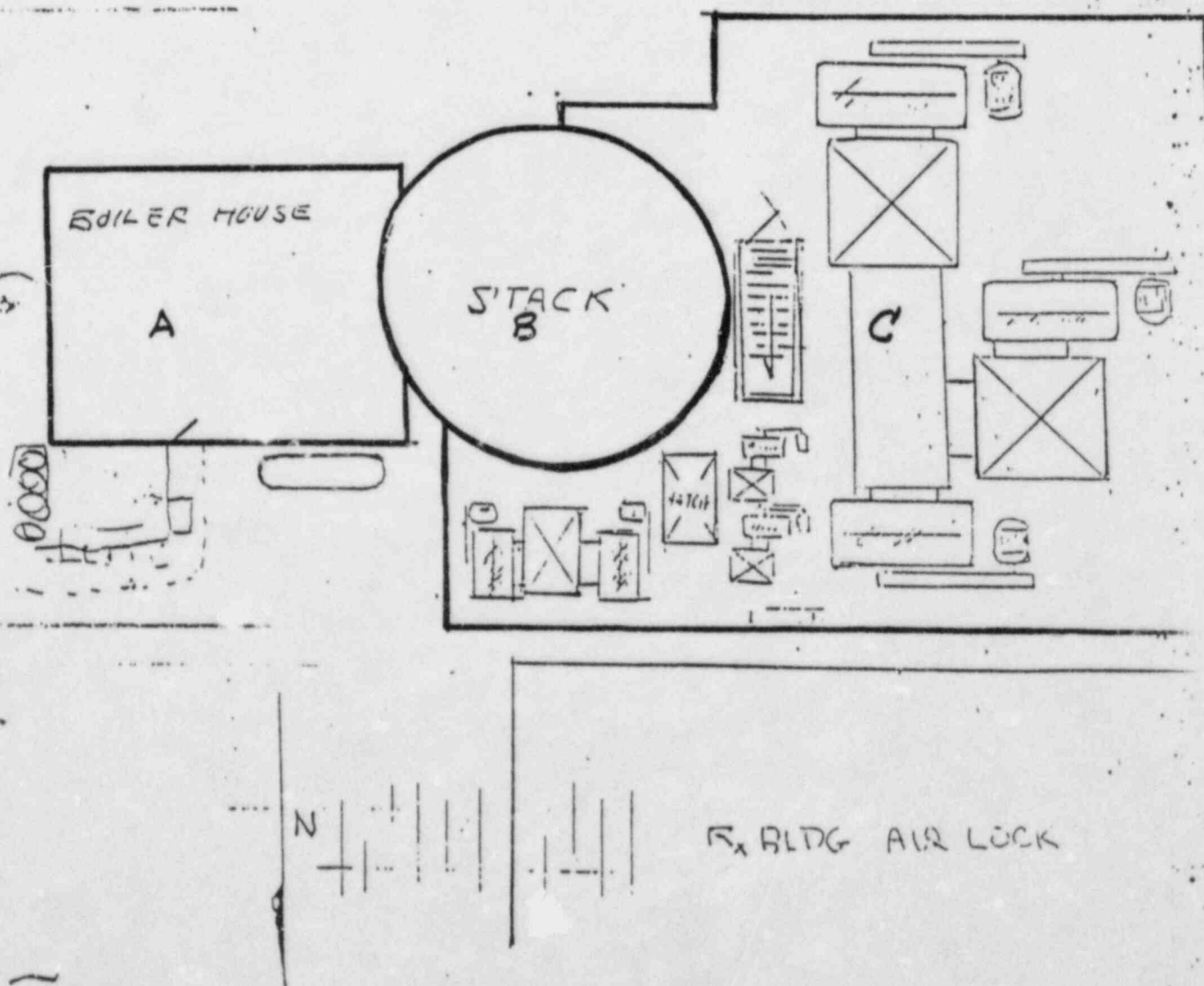
ATTACHMENT B-5

T=0 4:00 P.M.

to

T=127 6:07 P.M.

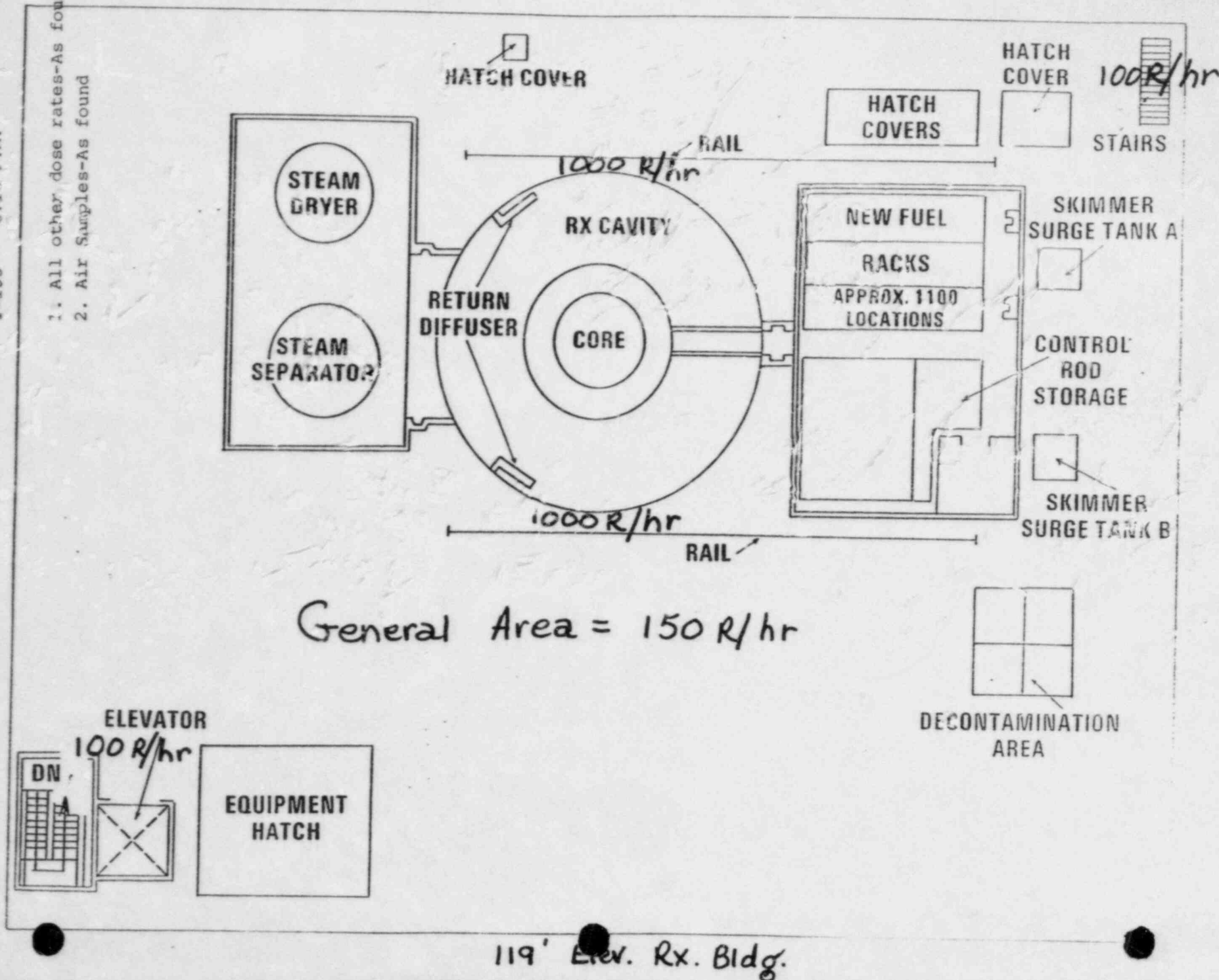
1. All other dose rates-As found
2. Air Samples-As found




T=127 6:07 P.M.

to
T=135 6:15 P.M.

1. All other dose rates-As found
2. Air Samples-As found

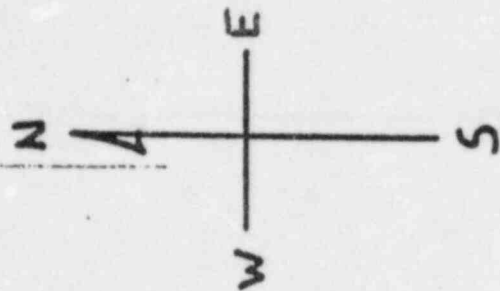


T=127 6:07 P.M.  T=135 6:15 P.M.

T=135 6:15 P.M.

T=135 6:15 P.M.

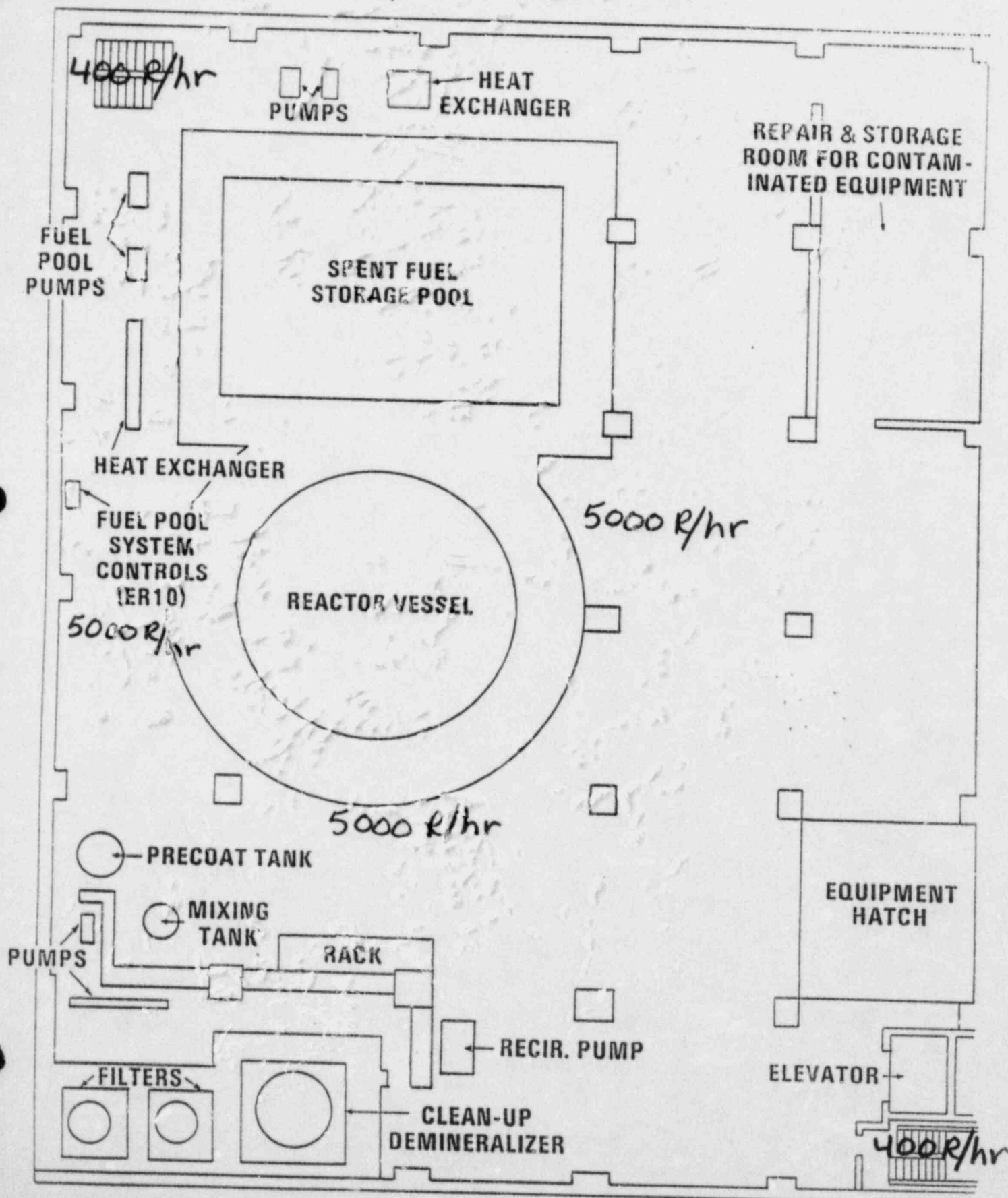
2. Air Samples-As found

[illegible][illegible]

T=127 6:07 P.M. to T=135 6:15 P.M.

1. All other dose rates-As found
2. Air Samples-As found

Augmented Fuel Pool Cooling System



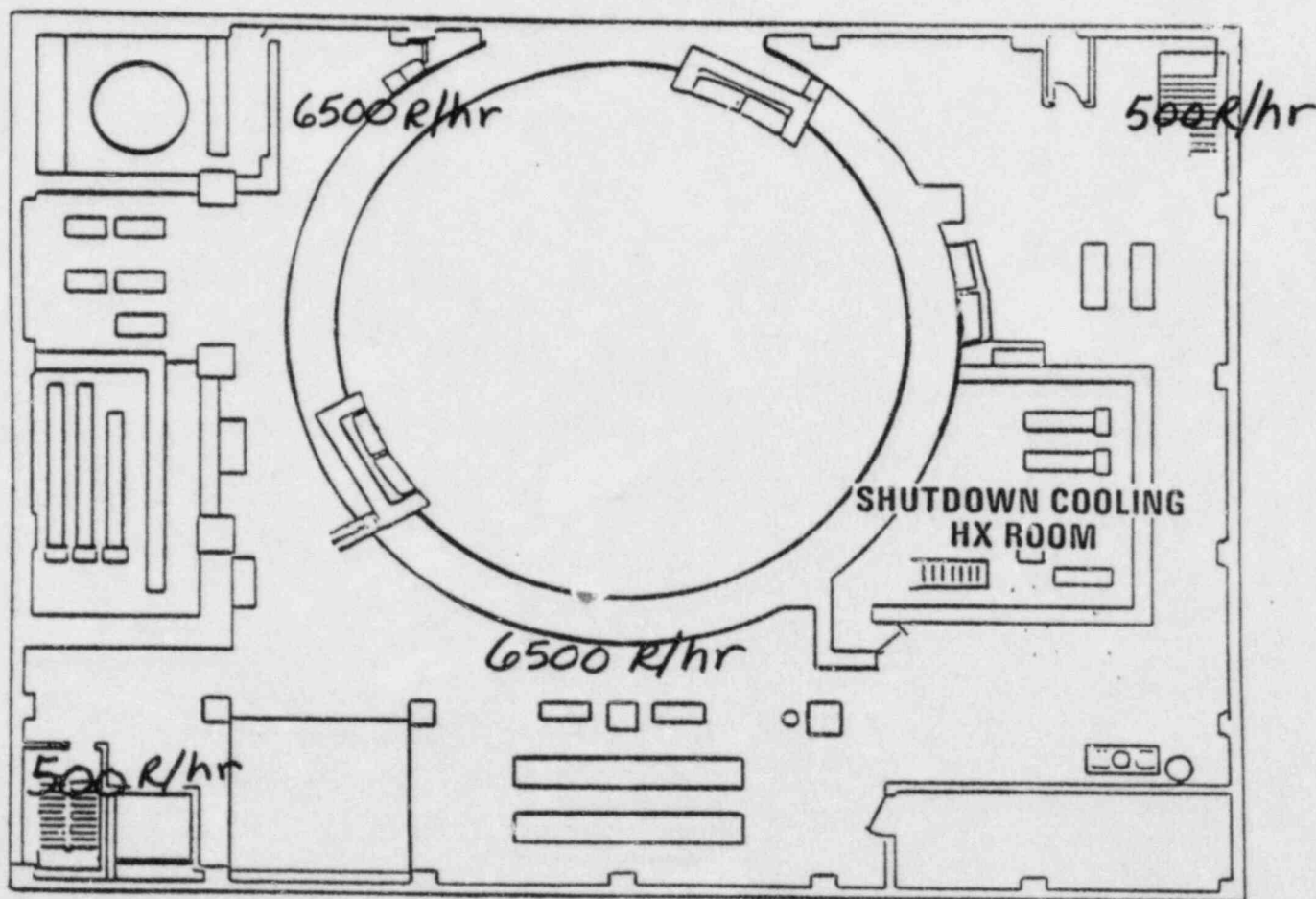
T=127 6:07 P.M.

to

T=135 6:15 P.M.

1. All other dose rates-As found
2. Air Samples-As found

51' ELEVATION

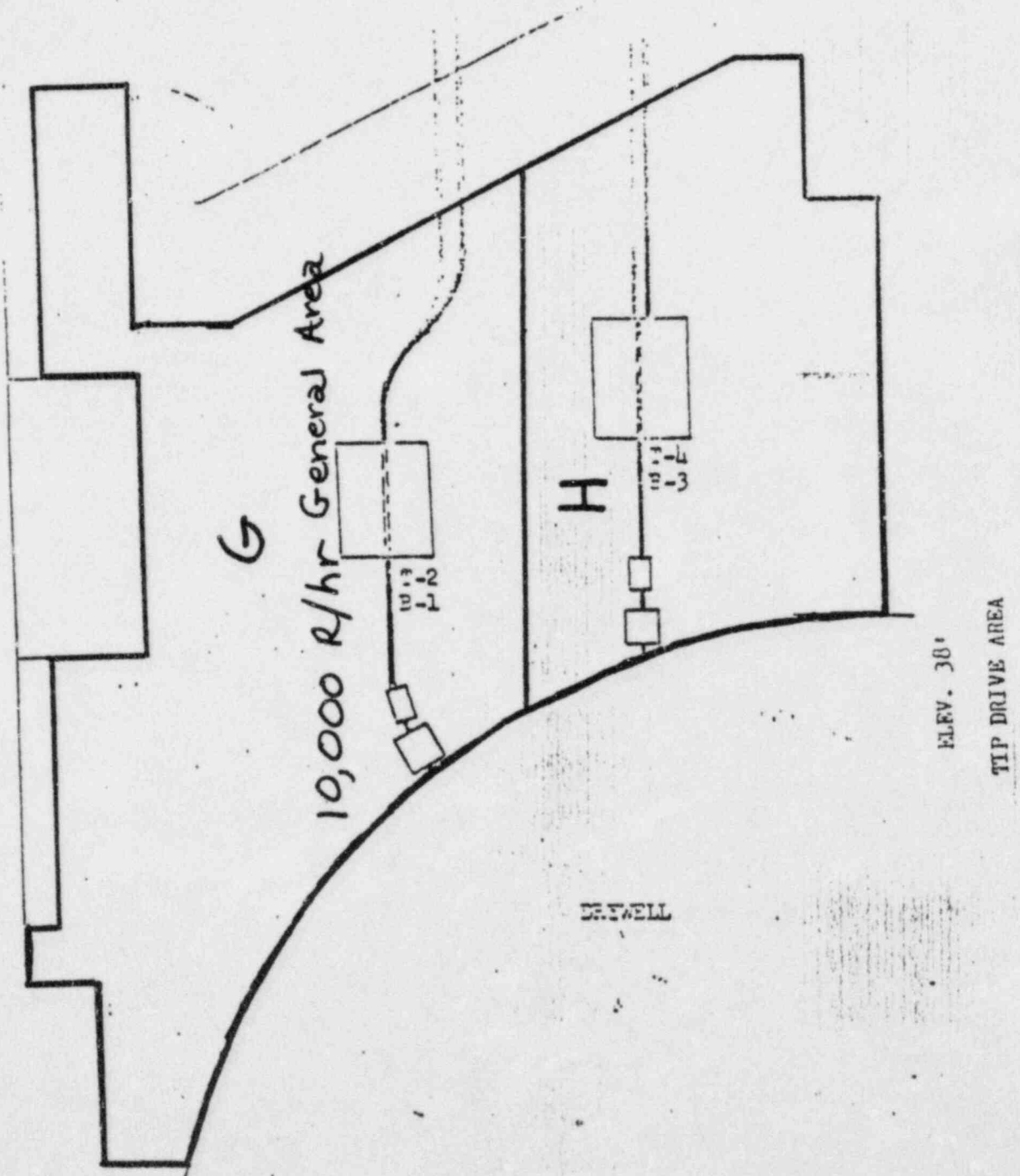


T=127 6:07 P.M.

to

T=135 6:15 P.M.

1. All other dose rates-As found
2. Air Samples-As found



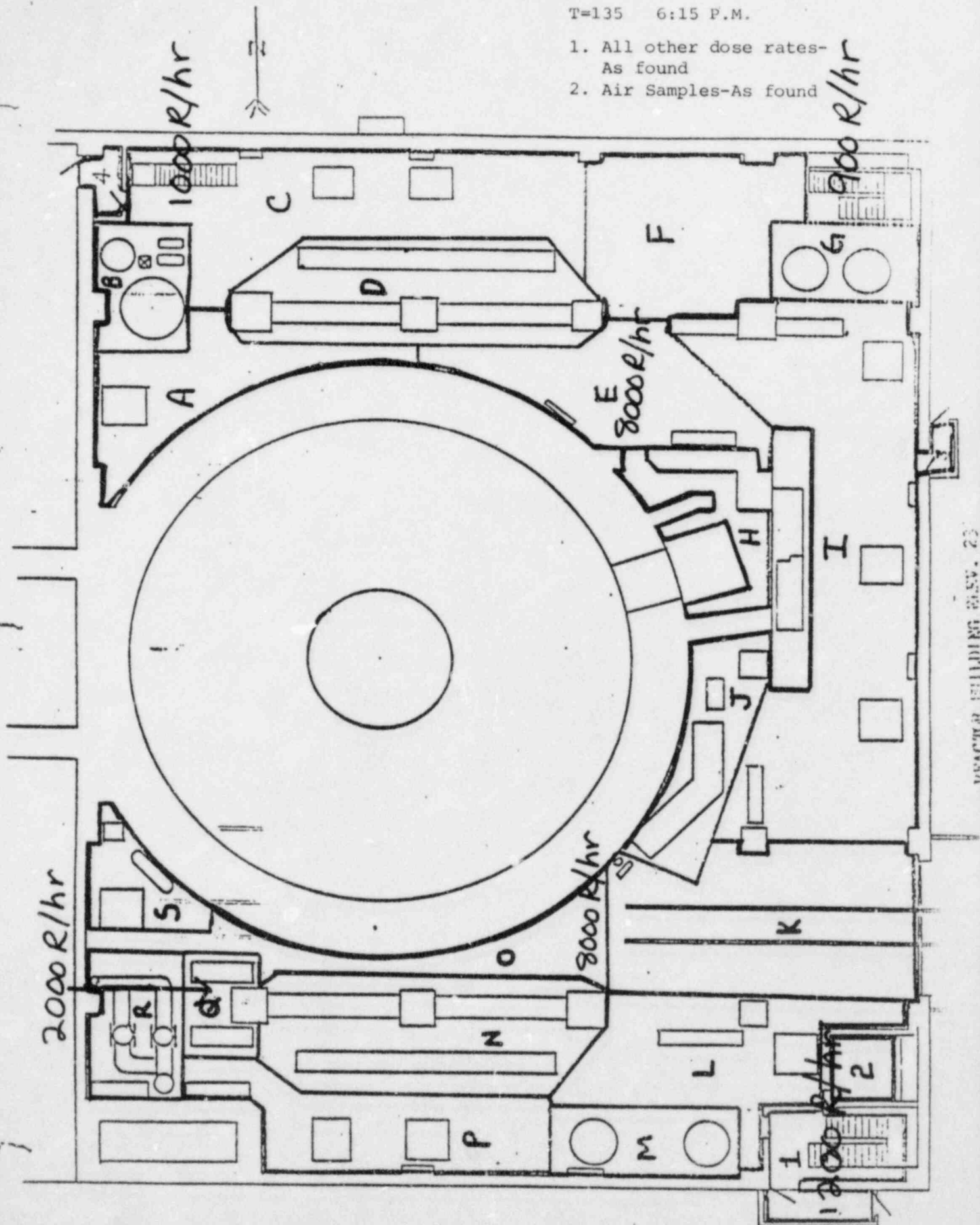
ATTACHMENT B-5

T=127 6:07 P.M.

- to

T=135 6:15 P.M.

1. All other dose rates-
As found
2. Air Samples-As found



T=127 6:07 P.M.

to

T=135 6:15 P.M.

1. All other dose rates-As found
2. Air Samples-As found

POWER & LIGHT CO.

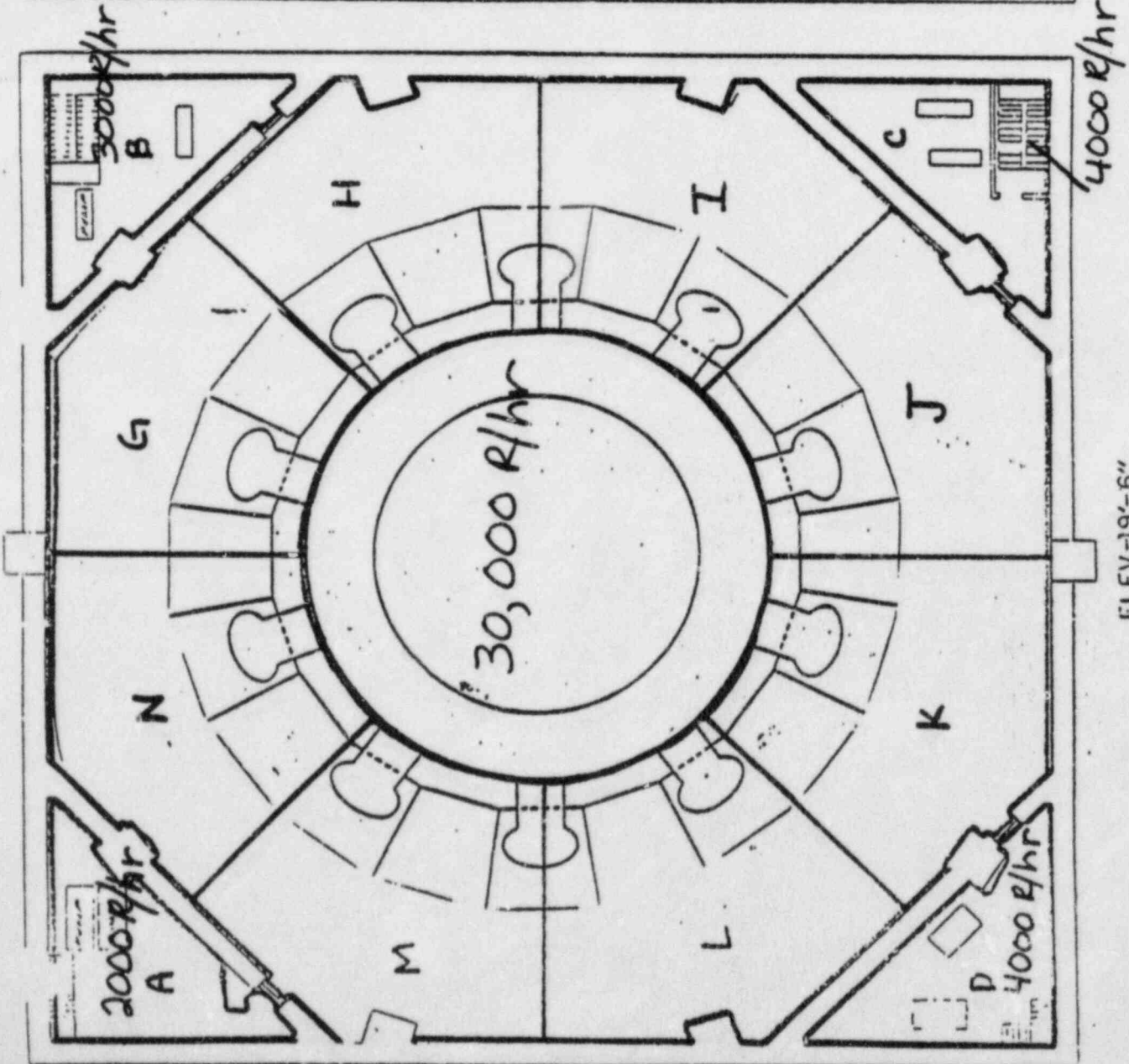
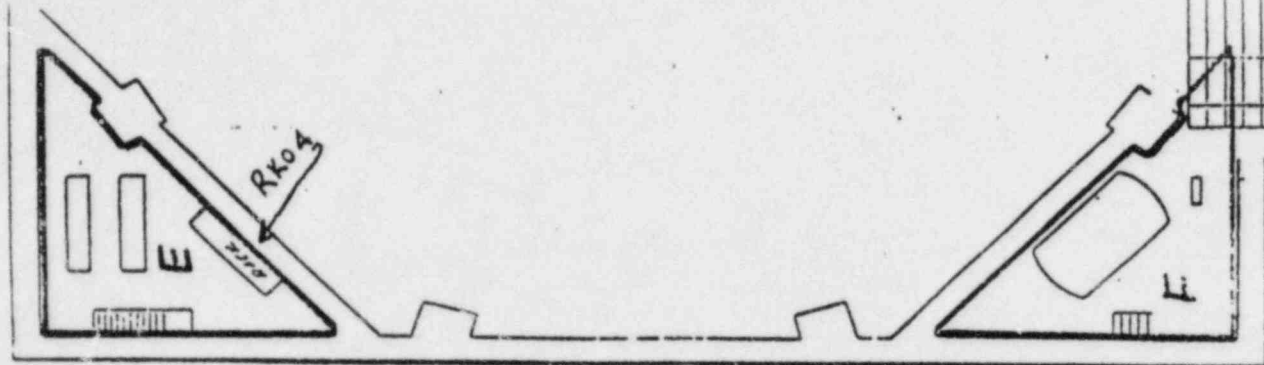
HONOLULU, HAWAII

REACTOR BUILDING GENERAL

-19'-6" ELEV.

-19'-6" ELEV.

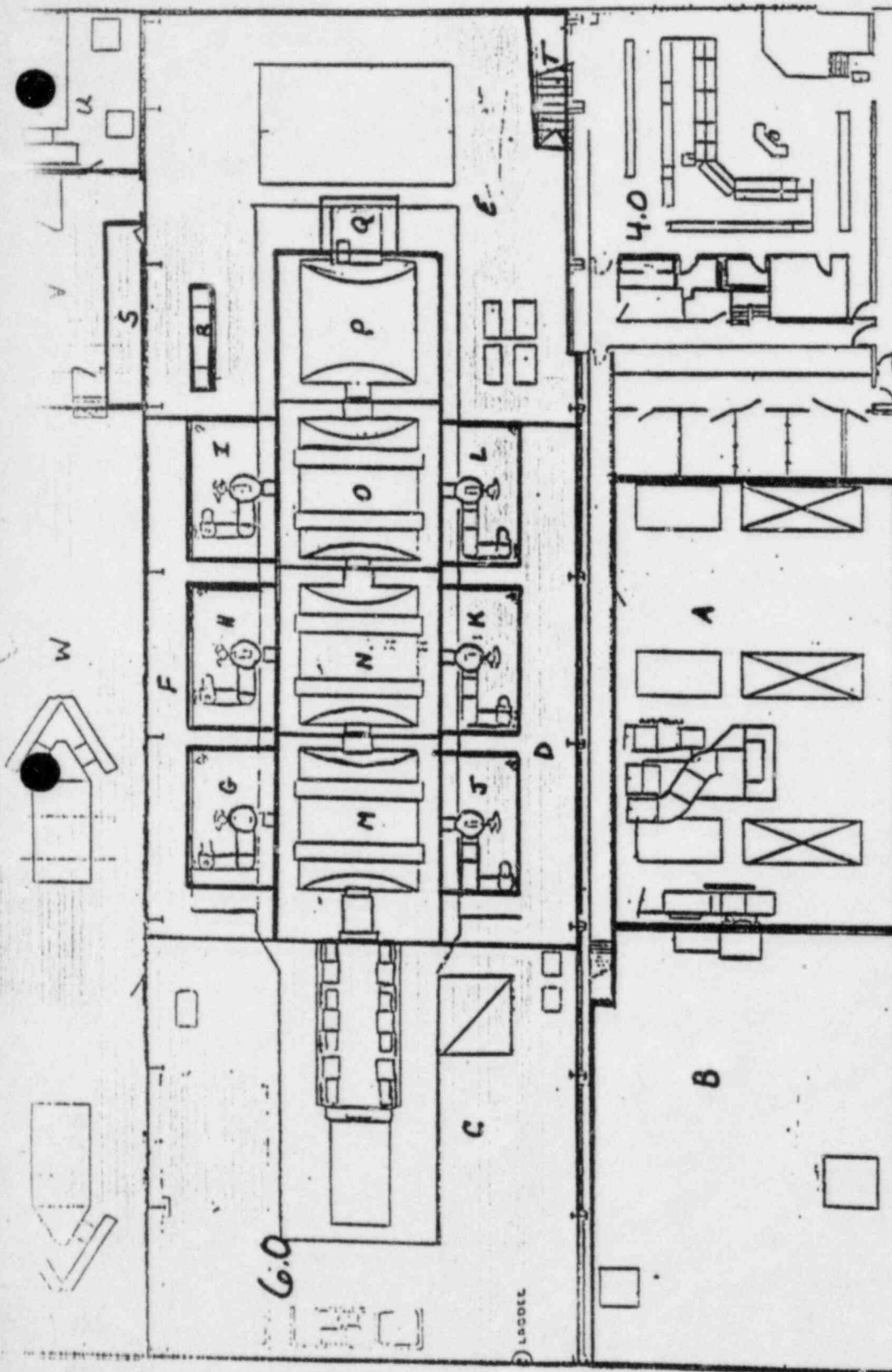
-19'-6" ELEV.



T=127 6:07 P.M.

to

T=135 6:15 P.M.



OPERATING FLOOR

70.0

1. All other dose rates-
As found
2. Air Samples-As found

Readings in mR/hr.

DATE	TIME	LOCATION	DOSE RATE	REMARKS
		POWER & LIGHT		
		MODESTOWN, N.J.		
		CASTLE GREEN		
		TURBINE OIL		
		TURBINE COOLING FLOO		

ATTACHMENT B-5

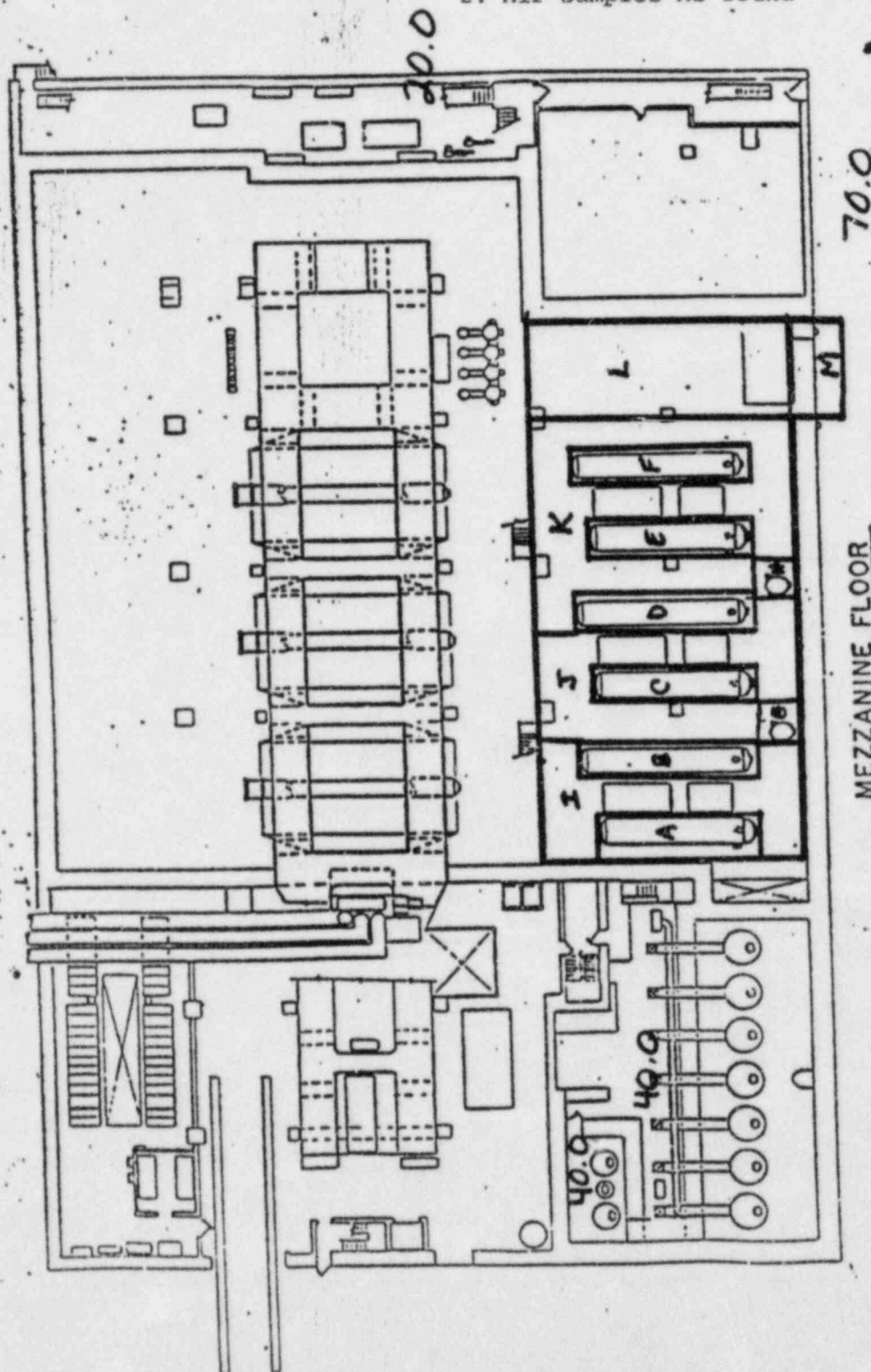
T=127 6:07 P.M.

to

T=135 6:15 P.M.

1. All other dose rates-As found
2. Air Samples-As found

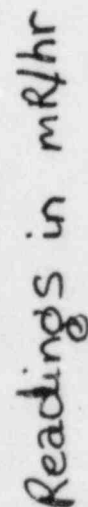
DATE	11-11-50
TIME	11:11
LOCATION	11-11-50
REMARKS	11-11-50
INITIALS	11-11-50
SIGNATURE	11-11-50
DATE	11-11-50
TIME	11:11
LOCATION	11-11-50
REMARKS	11-11-50
INITIALS	11-11-50
SIGNATURE	11-11-50



MEZZANINE FLOOR

Readings in ml/hr

- [illegible]



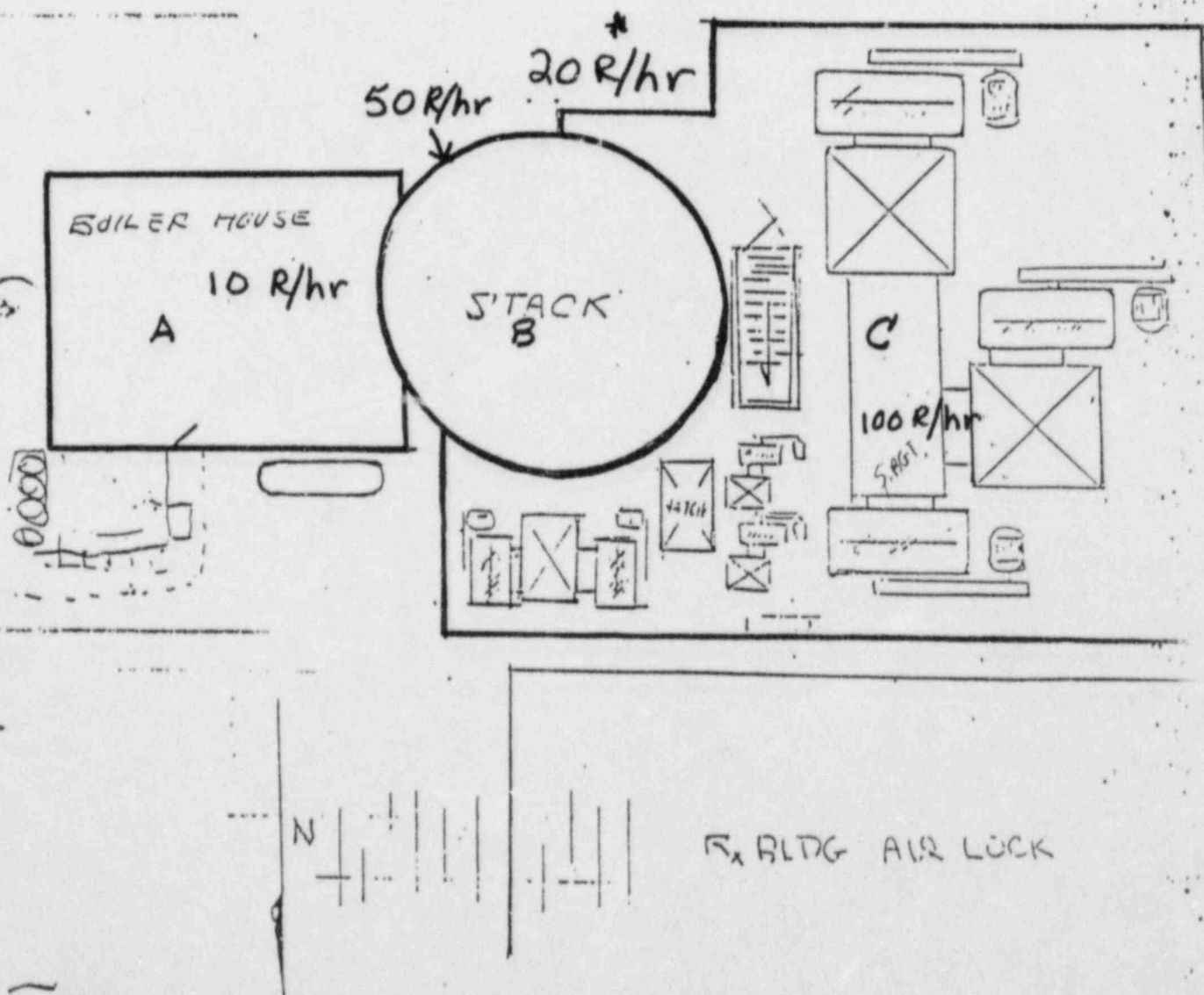
ATTACHMENT B-5

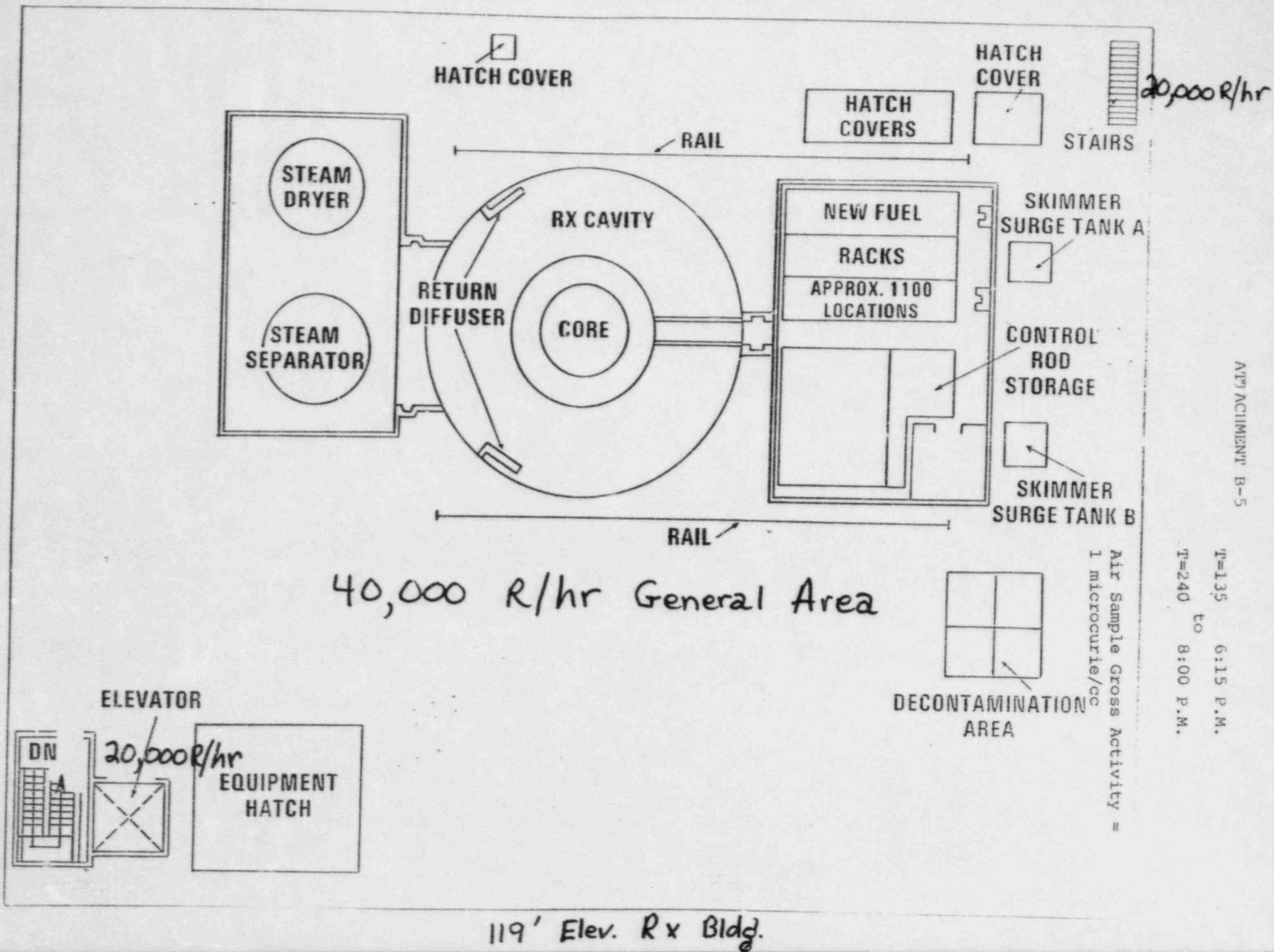
T=127 6:07 P.M.

to

T=135 6:15 P.M.

1. All other dose rates-As found
2. Air Samples-As found

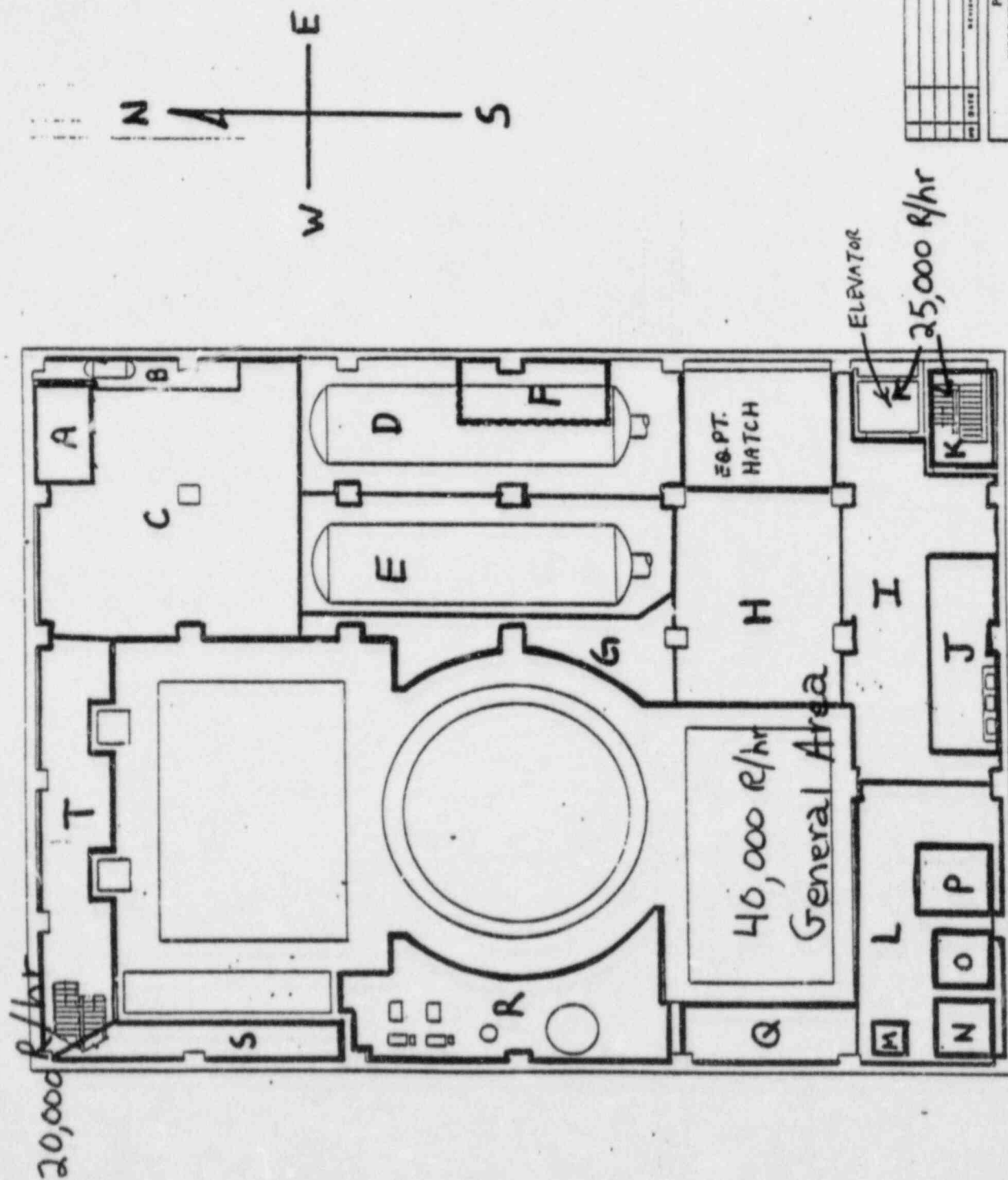




ATTACHMENT B-5

T=1.35 6:15 P.M.

T=2.40 to 8:00 P.M.

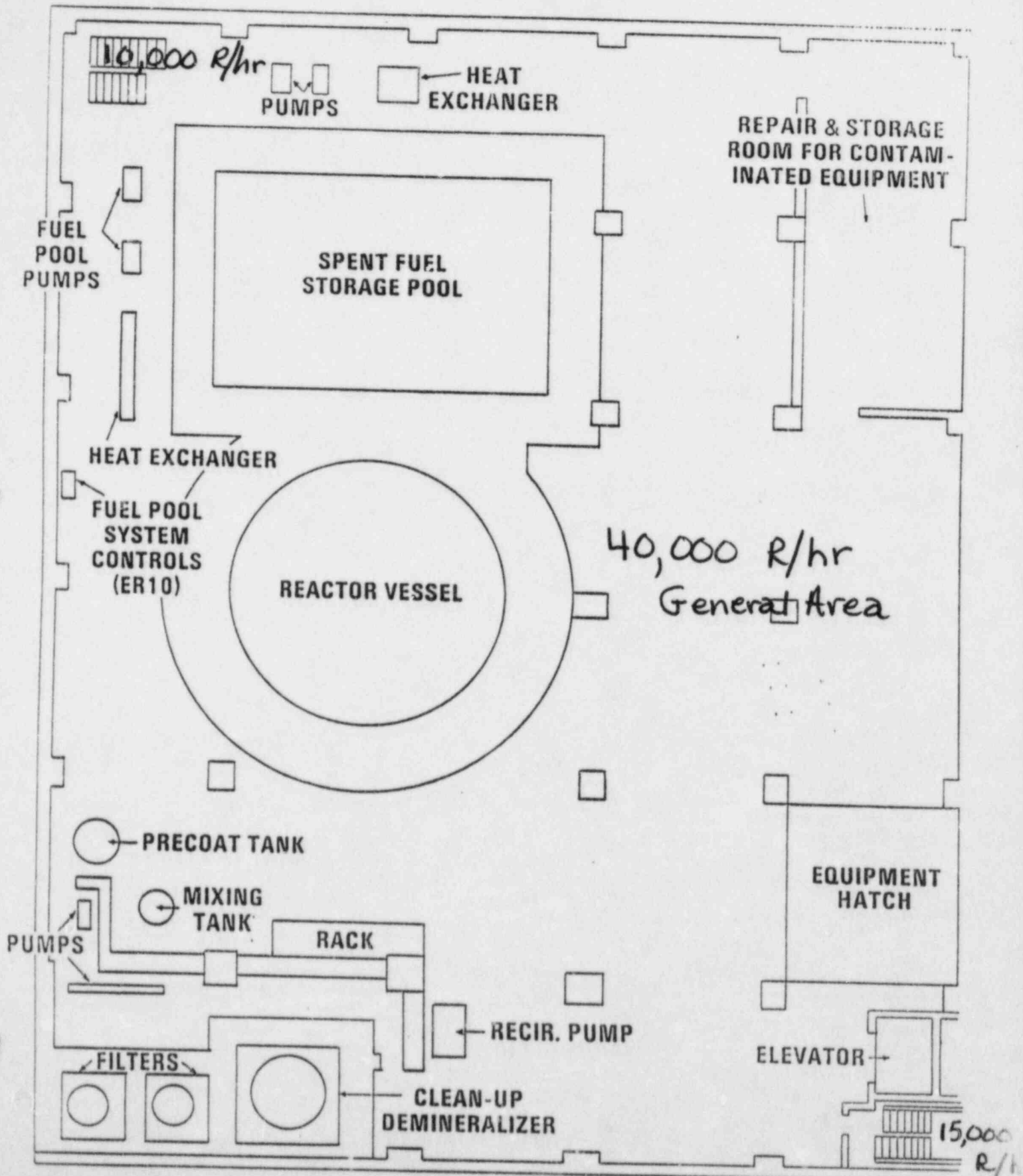
[illegible]

T=135 6:15 P.M.

to

T=240 8:00 P.M.

Augmented Fuel Pool Cooling System

Air Sample Gross Activity=
1 microcurie/cc

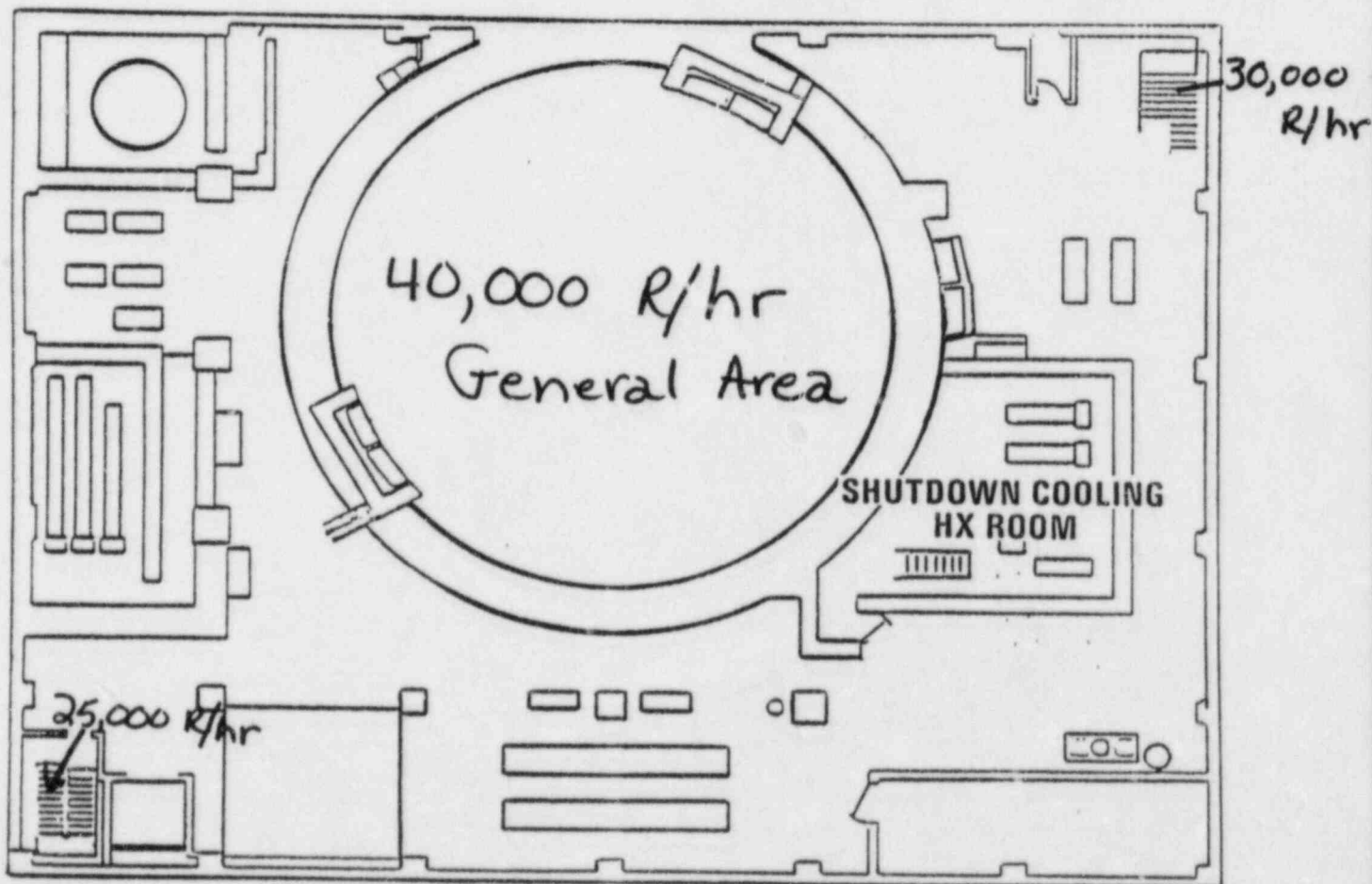
T=135 6:15 P.M.

to

T=240 8:00 P.M.

Air Sample Gross Activity=
1 microcurie/cc

51' ELEVATION

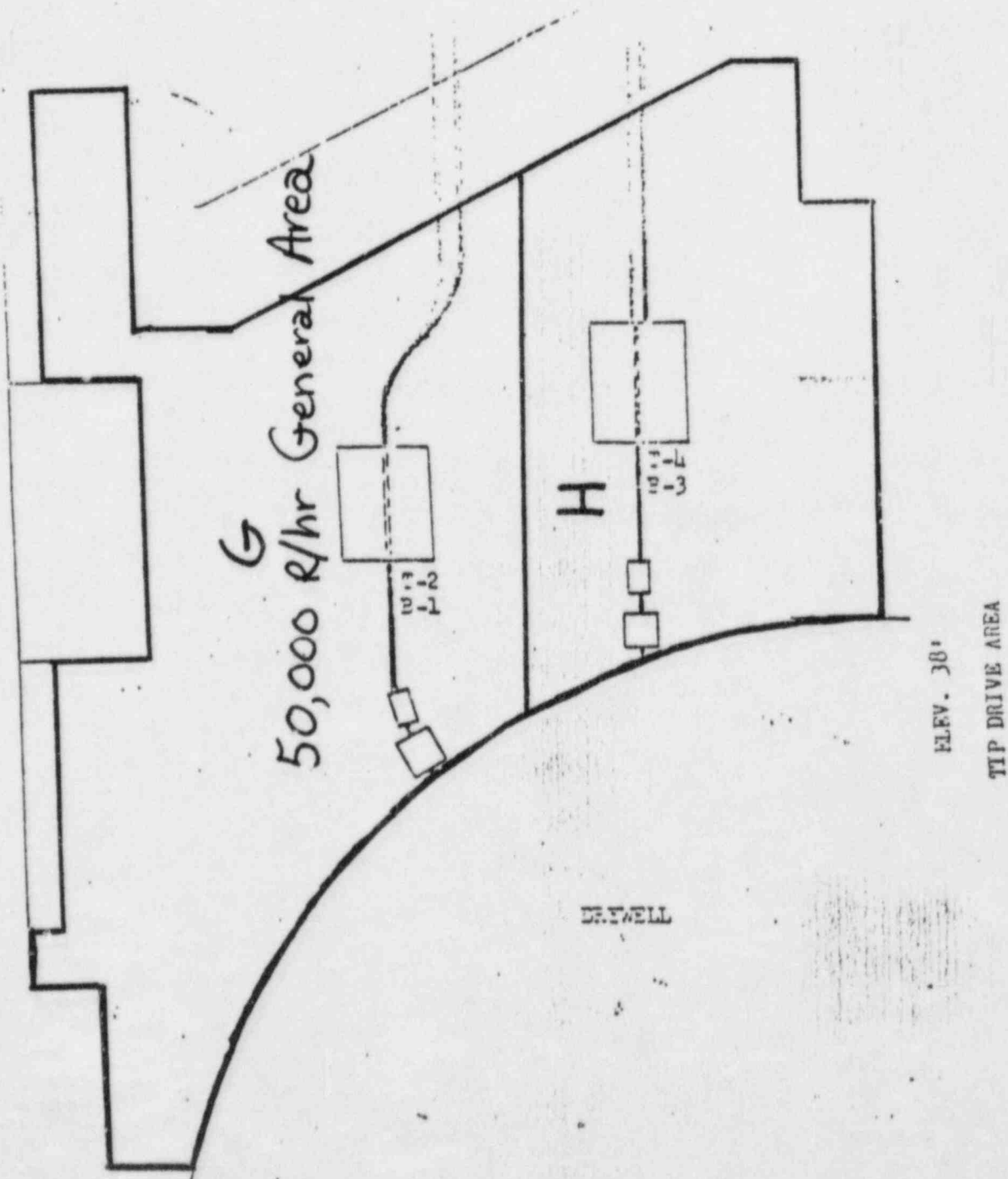


T=135 6:15 P.M.

to

T=240 8:00 P.M.

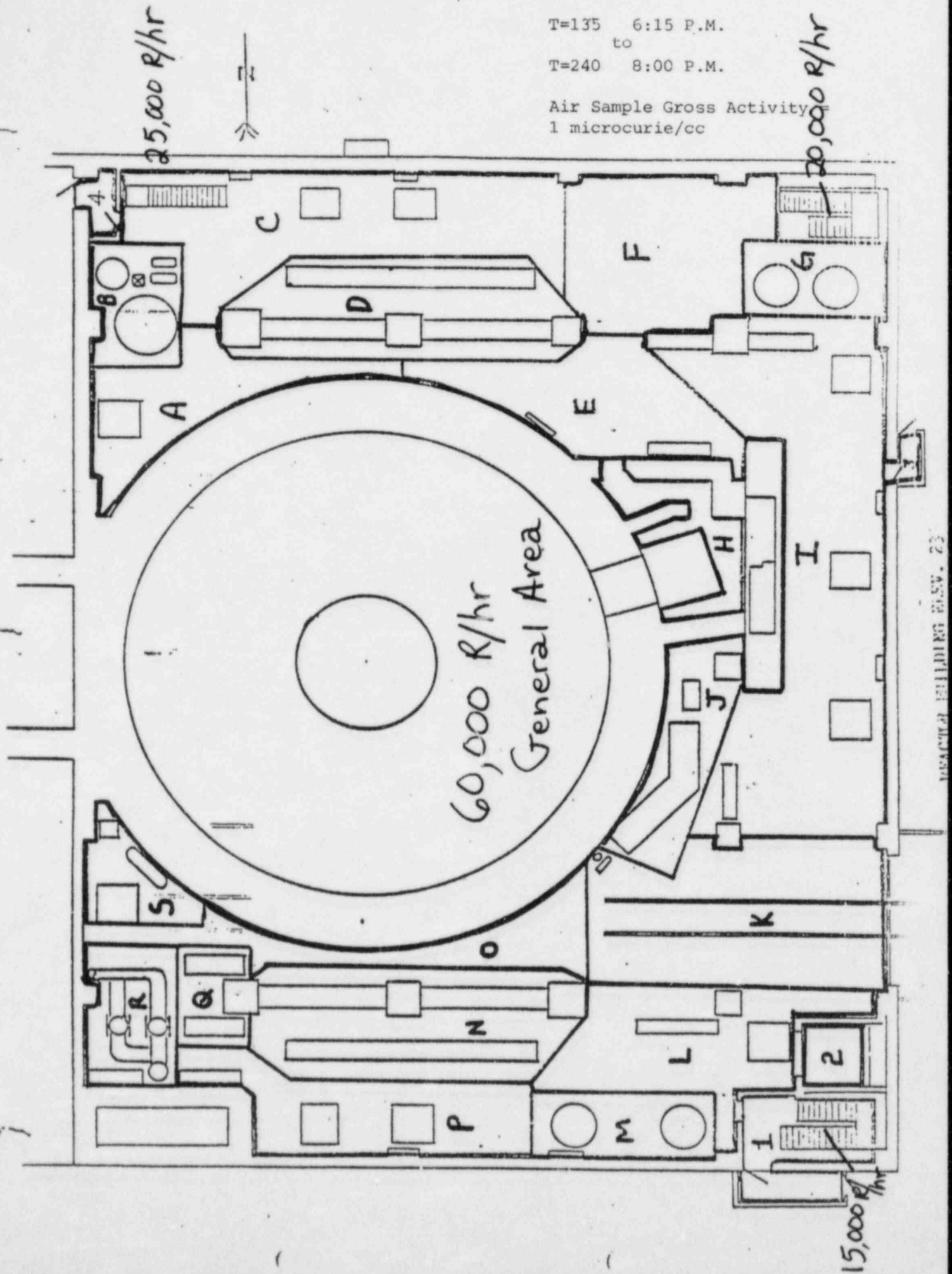
Air Sample Gross Activity=
1 microcurie/cc

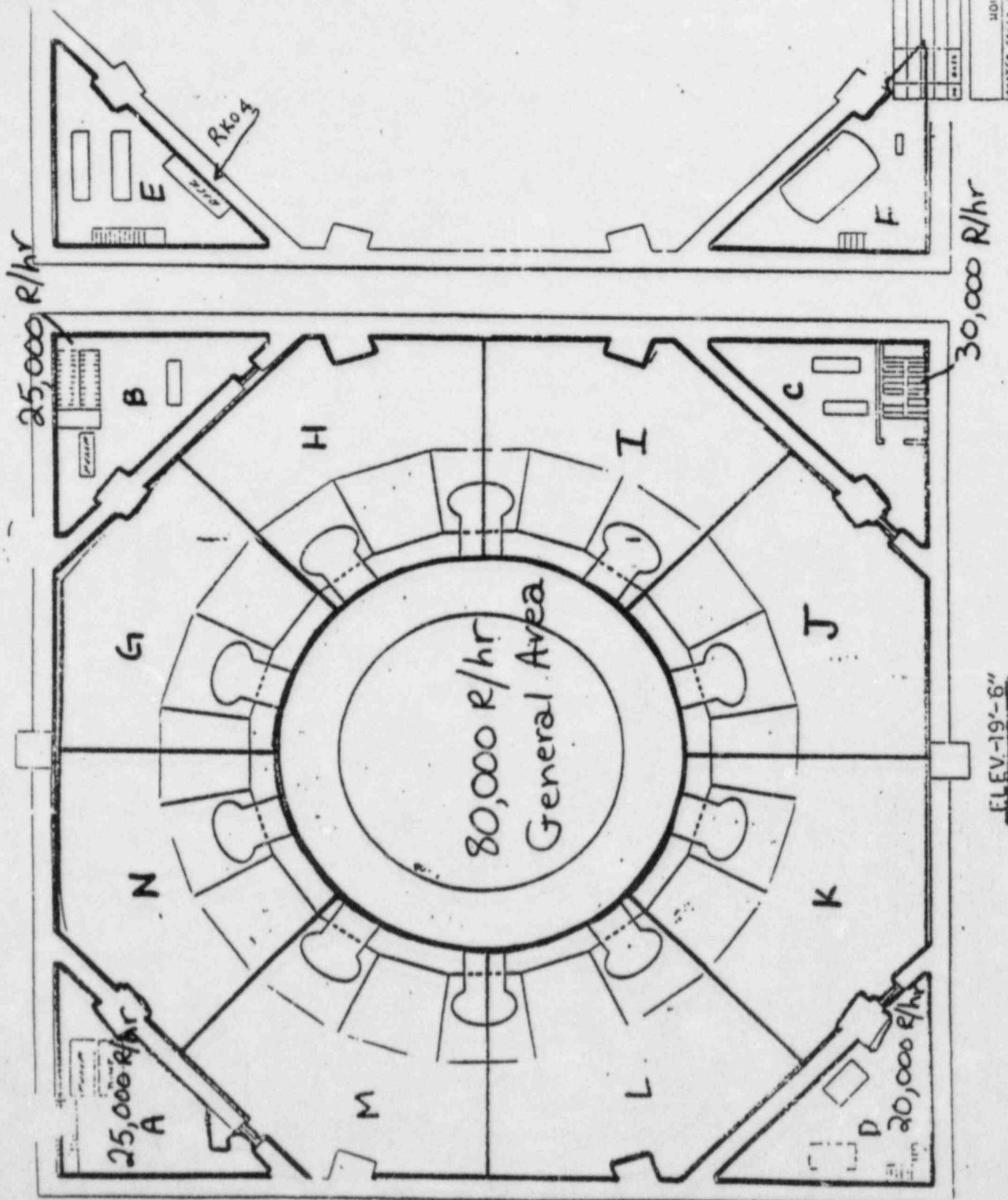


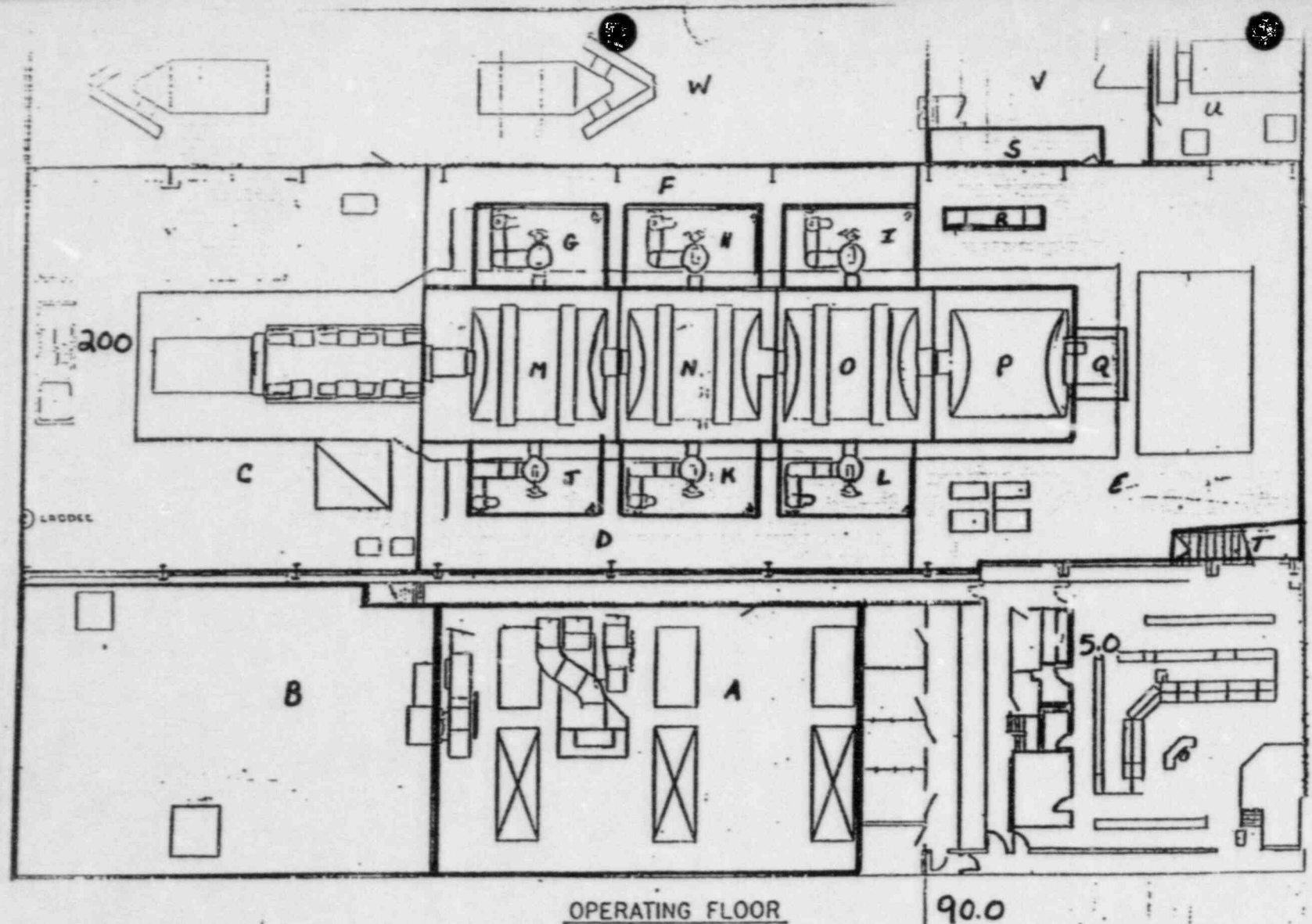
ATTACHMENT B-5

T=135 6:15 P.M.
to
T=240 8:00 P.M.

Air Sample Gross Activity
1 microcurie/cc



[illegible]



Readings in mR/hr.

Air Sample Gross Activity = **As Found**

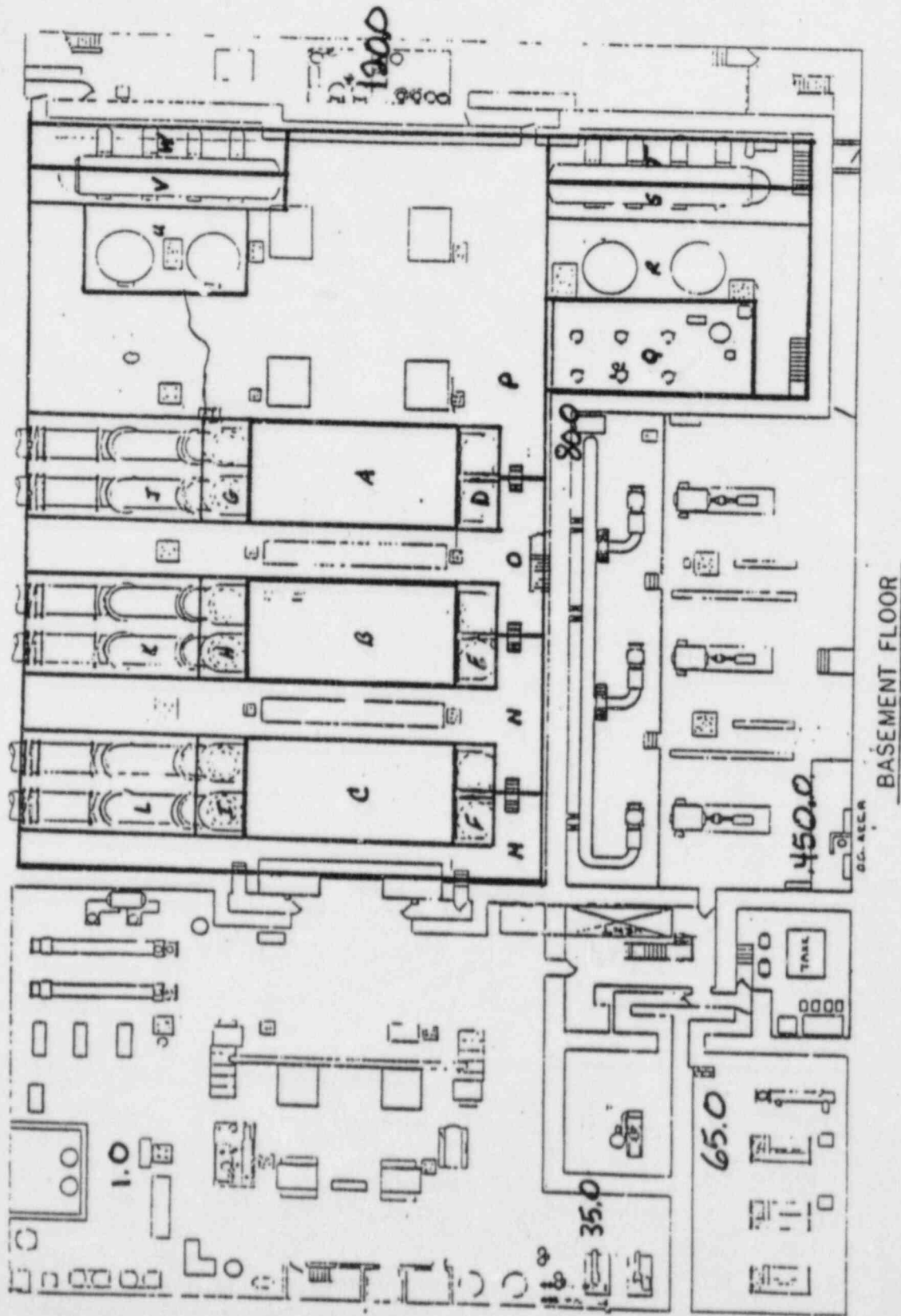
ATTACHMENT B-5

T=135 6:15 P.M.
to
T=240 8:00 P.M.

NO.	DATE	REVISION
POWER & LIGHT MORRIS, N. J.		
CYSTEA CREEK NUCLEAR		
TURBINE BUILDING		
TURBINE OPERATING FLOOR		
SCALE 1/2"		

T=135 6:15 P.M.
to
T=240 8:00 P.M.

Air Sample Gross Activity= **As Found**



All readings in mR/hr

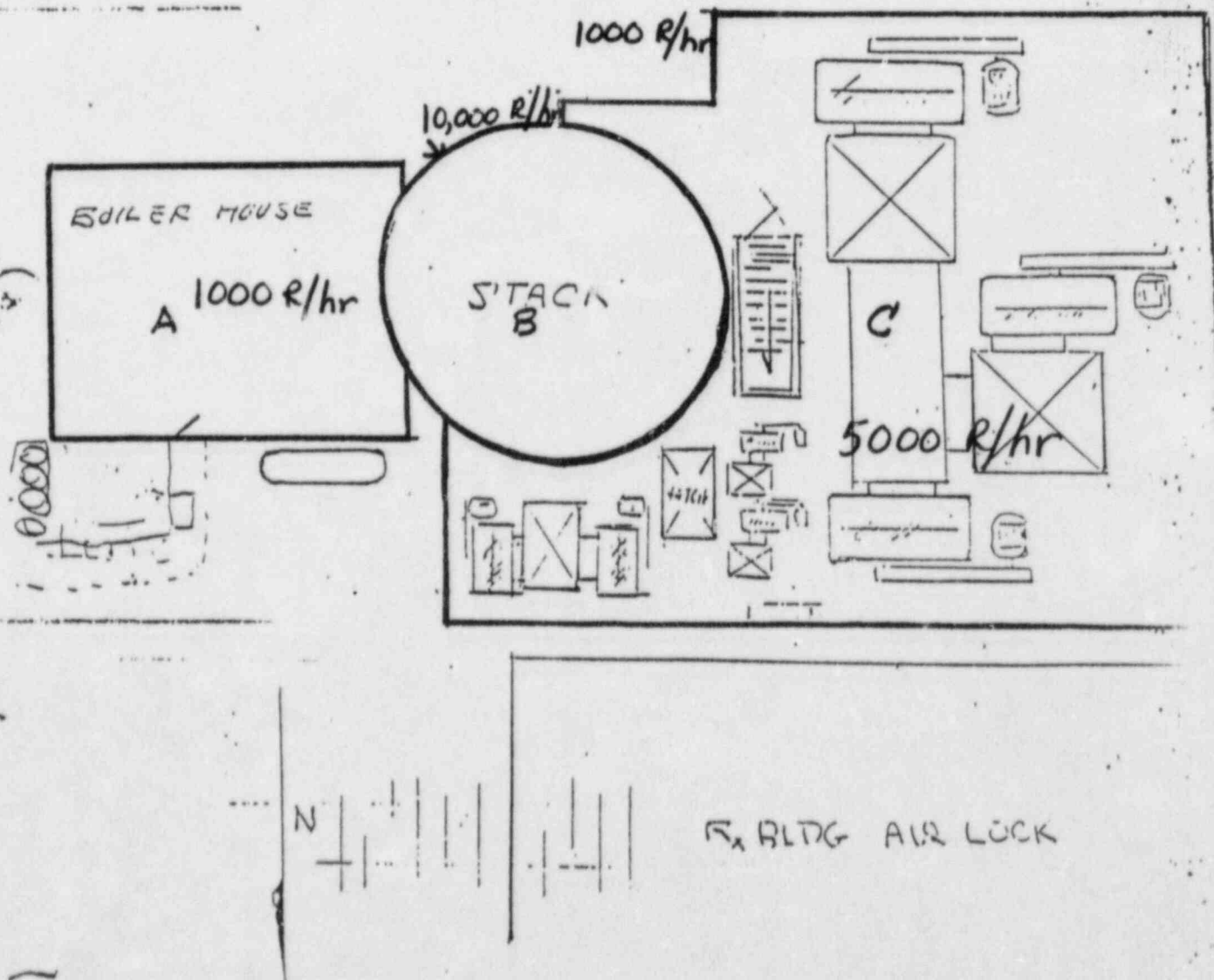
DATE	TIME	LOCATION	ACTIVITY

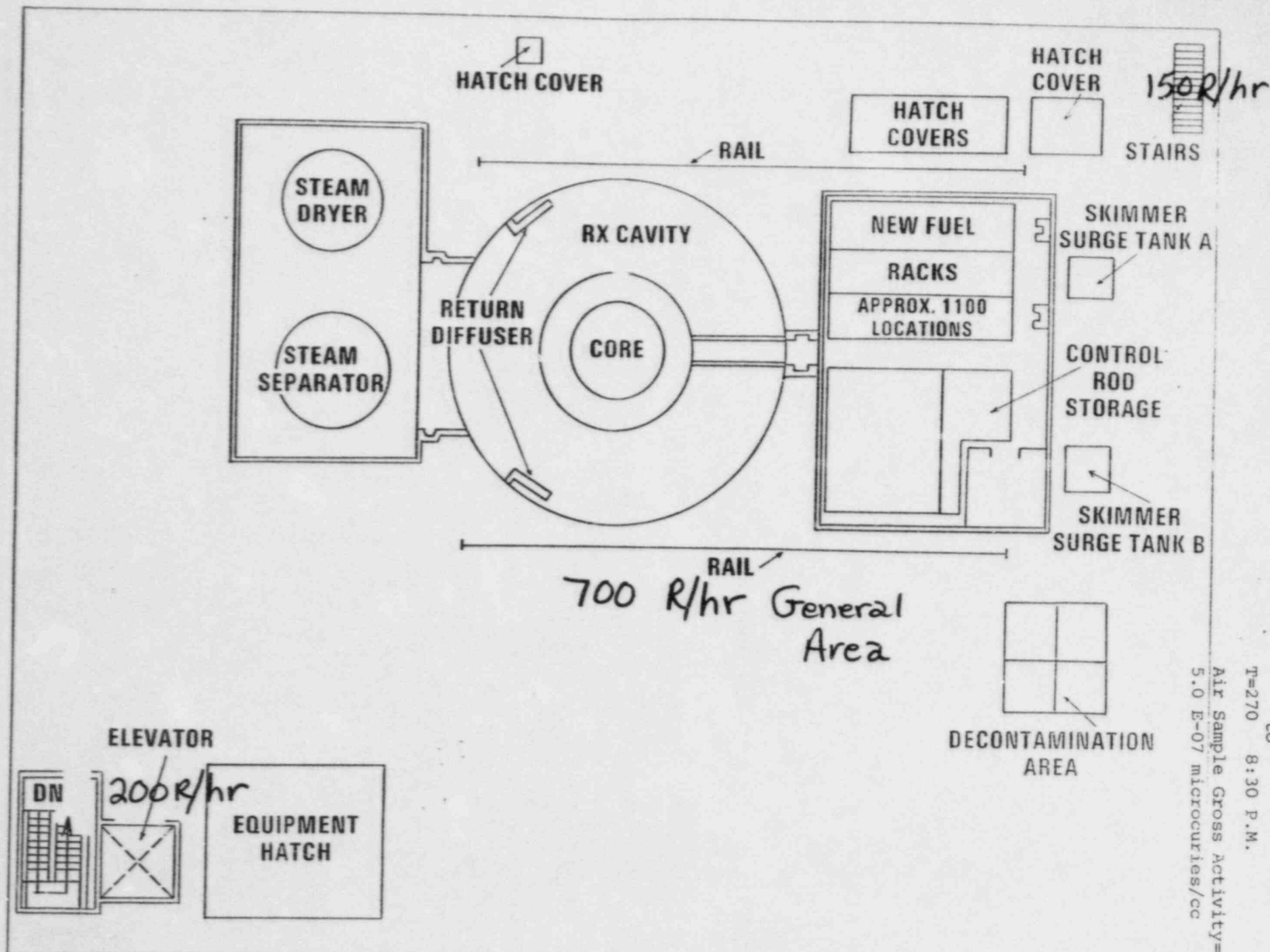
POWER & LIGHTING
HOSKINS, N. J.
SYSTEMS ENGINEERING
10000 ROUTE 100
FARMINGTON, CT 06030

T=135 6:15 P.M.

to

T=240 8:00 P.M.

Air Sample Gross Activity= **N.A.**



T=240 8:00 P.M.

to
T=270 8:30 P.M.

Air Sample Gross Activity=
5.0 E-07 microcuries/cc

119' Elev. Rx. Bldg.

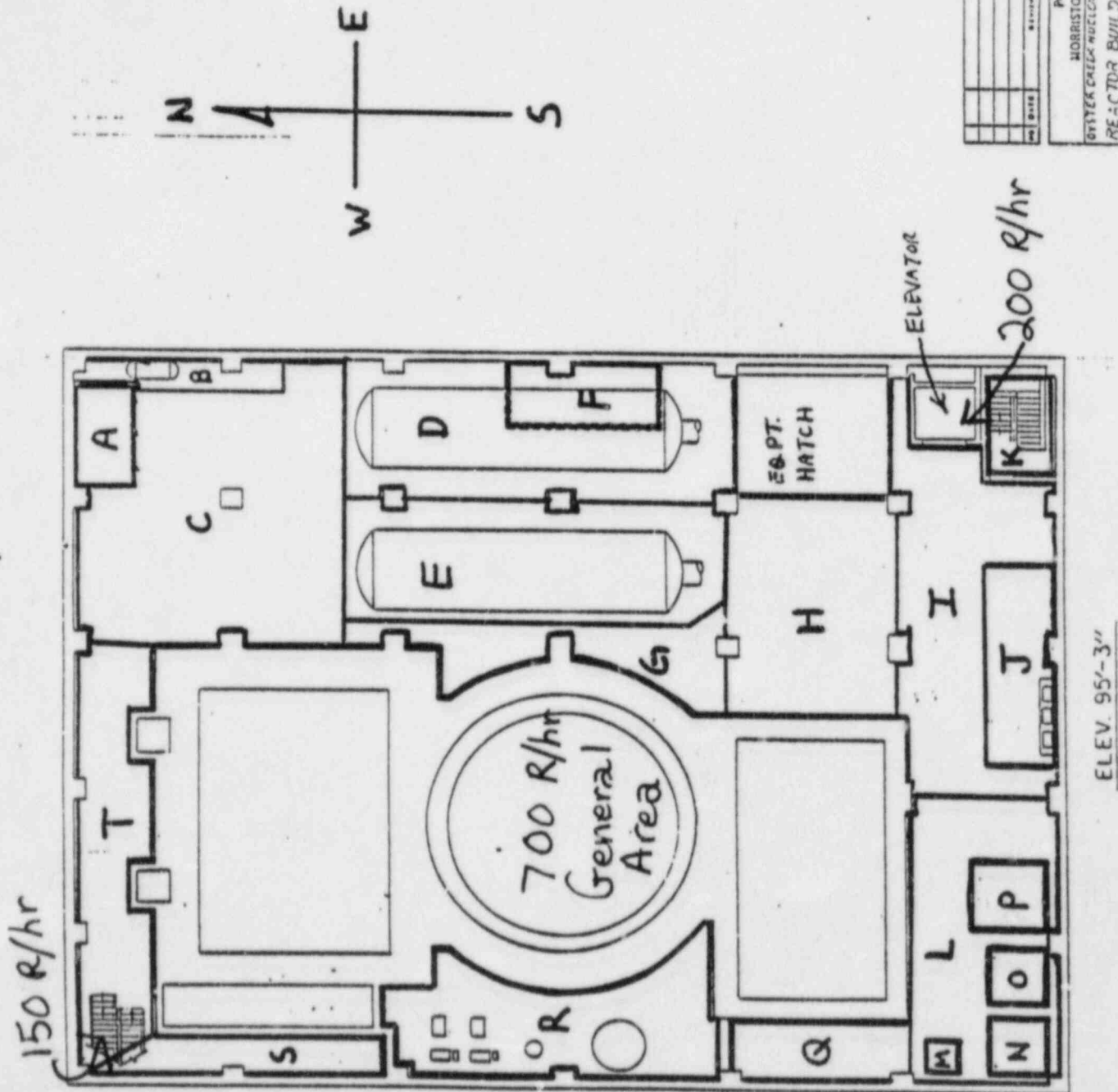
ATTACHMENT B-5

T=240 : 8:00 P.M.

to

T=270 8:30 P.M.

Air Sample Gross Activity=
5.0 E-07 microcuries/cc

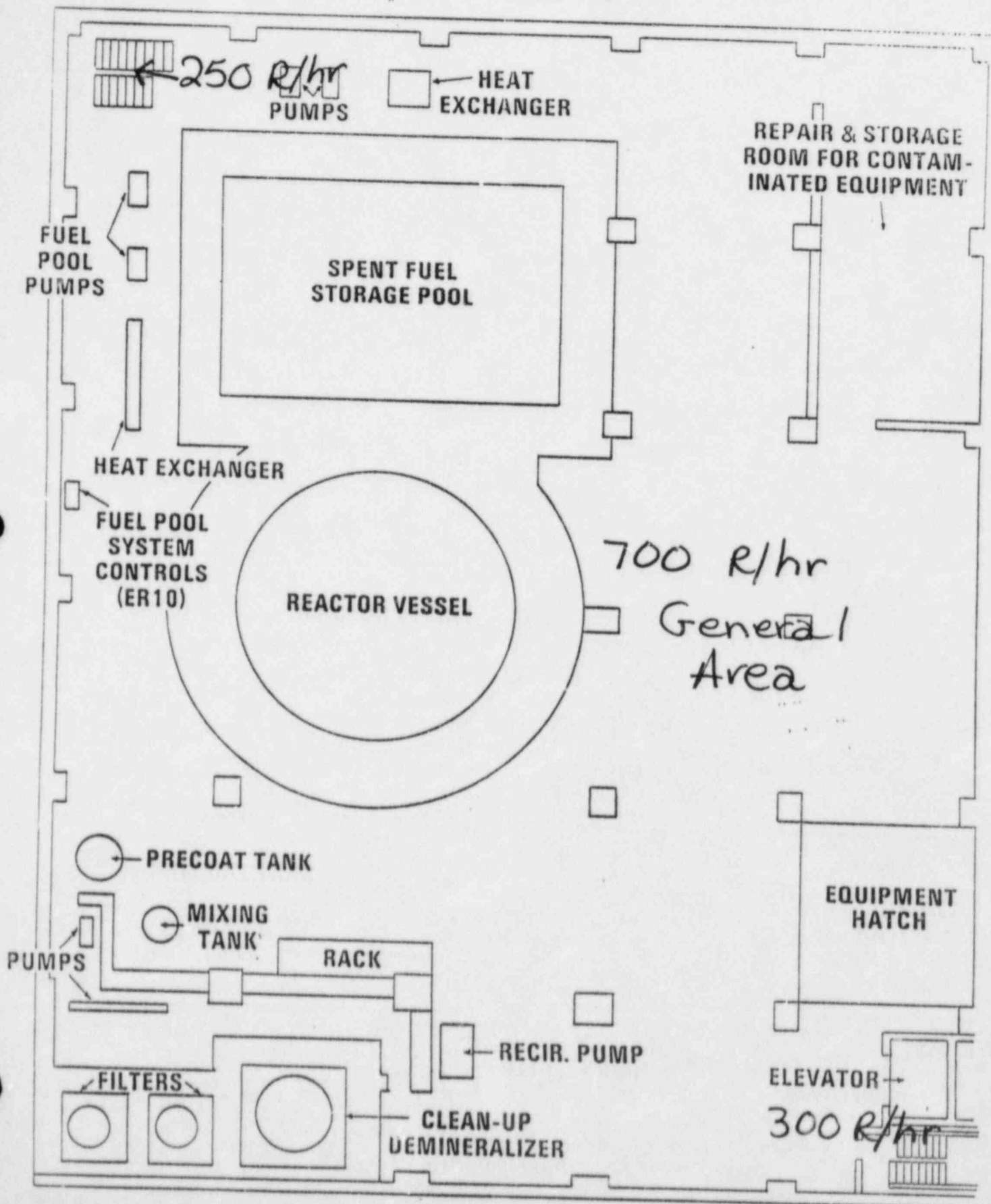


T=240 8:00 P.M.

to

T=270 8:30 P.M.

Augmented Fuel Pool Cooling System

Air Sample Gross Activity=
5.0 E-07 microcuries/cc

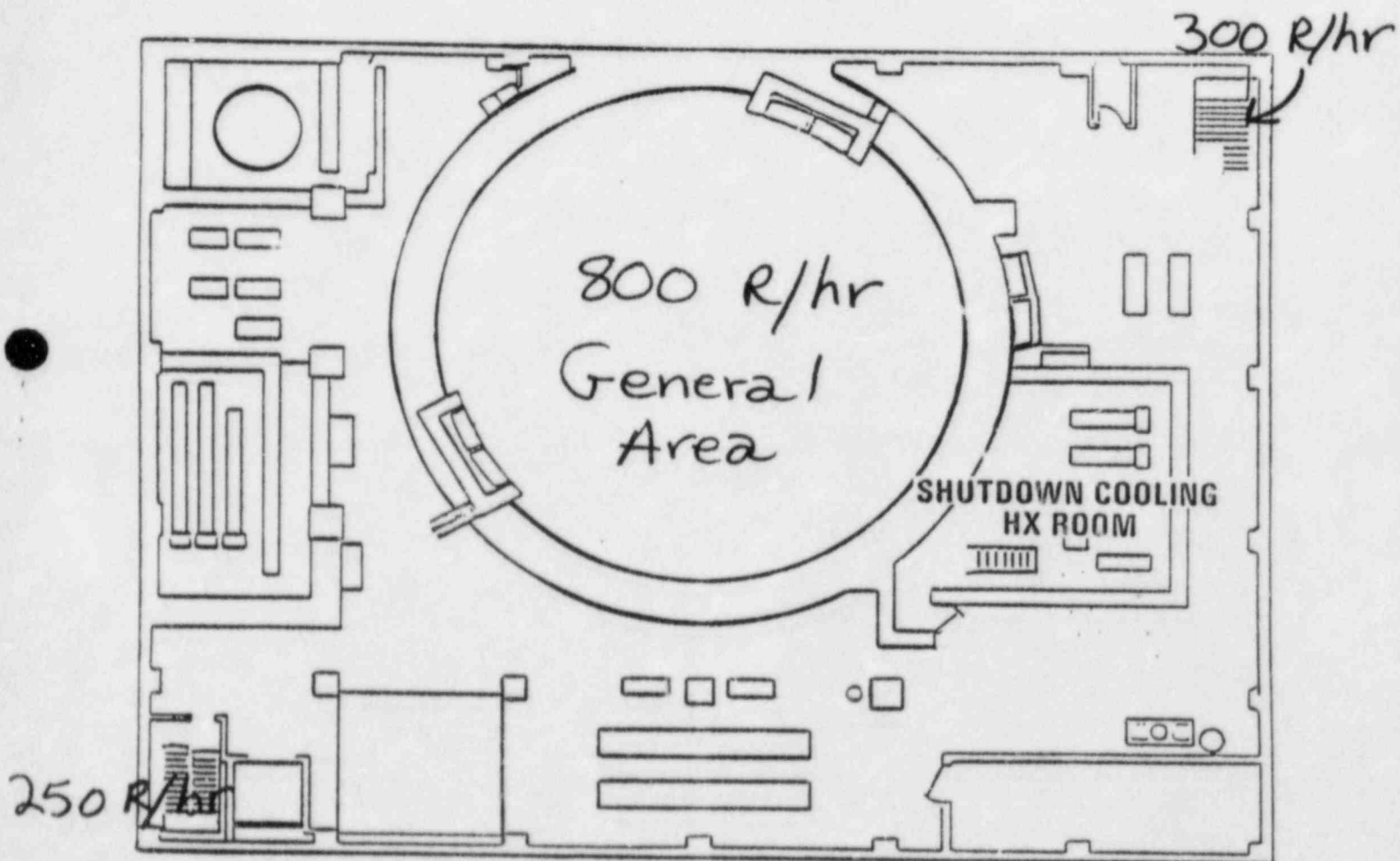
T=240 8:00 P.M.

to

T=270 8:30 P.M.

Air Sample Gross Activity=
5.0 E-07 microcuries/cc

51' ELEVATION

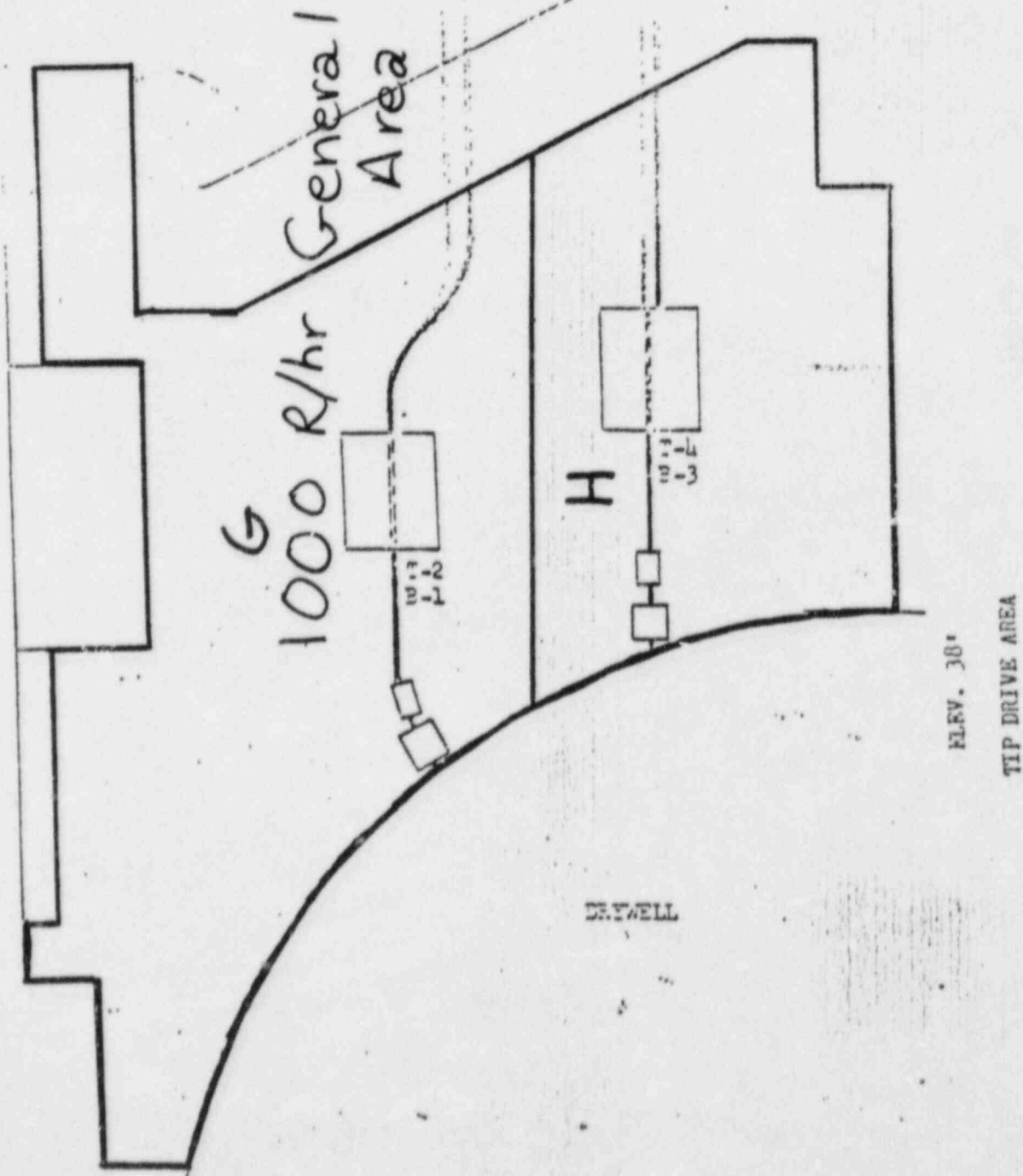


T=240 8:00 P.M.

to

T=270 8:30 P.M.

Air Sample Gross Activity=
5.0 E-07 microcuries/cc

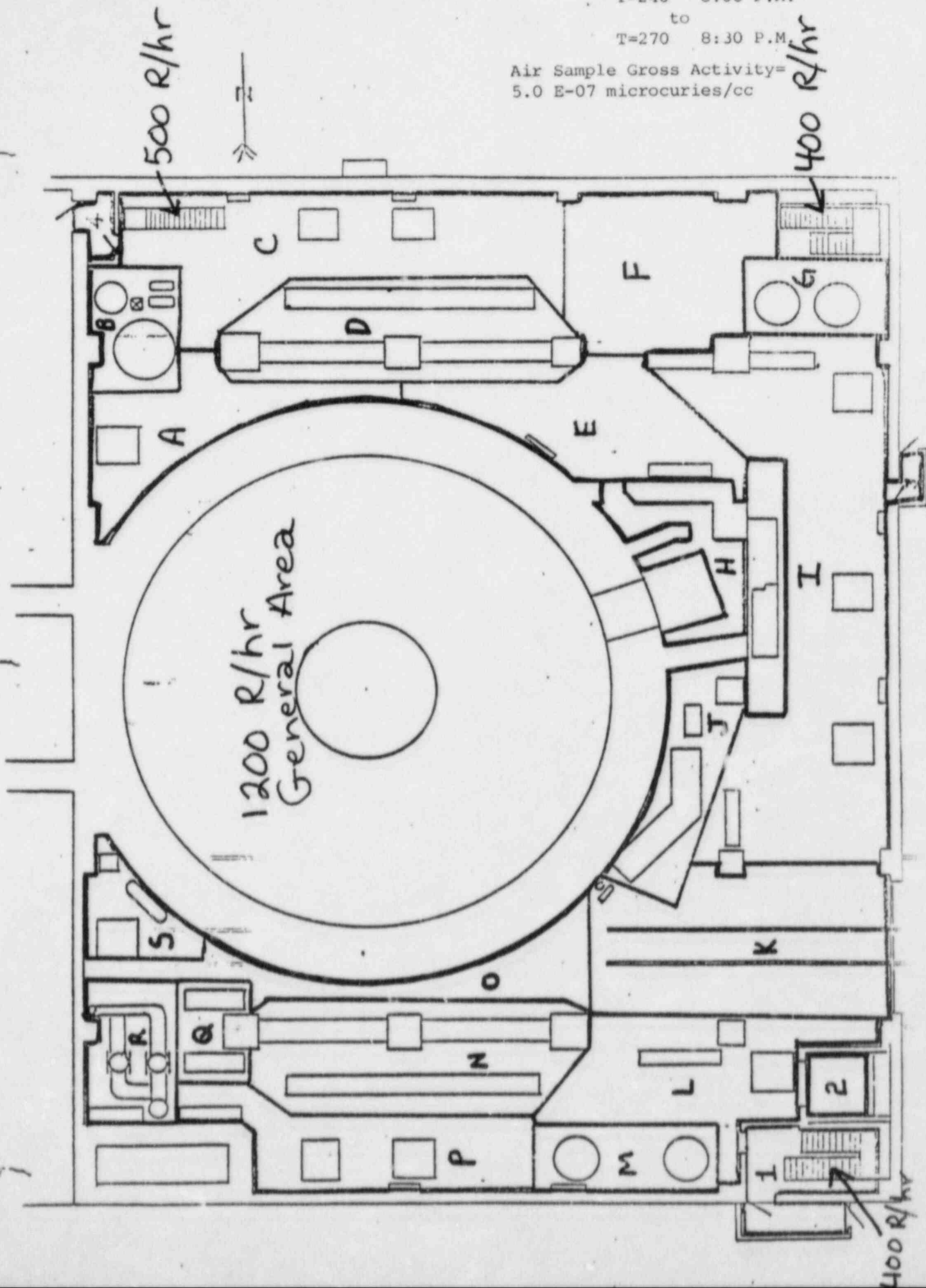


T=240 8:00 P.M.

to

T=270 8:30 P.M.

Air Sample Gross Activity=
 $5.0 \text{ E-07 microcuries/cc}$



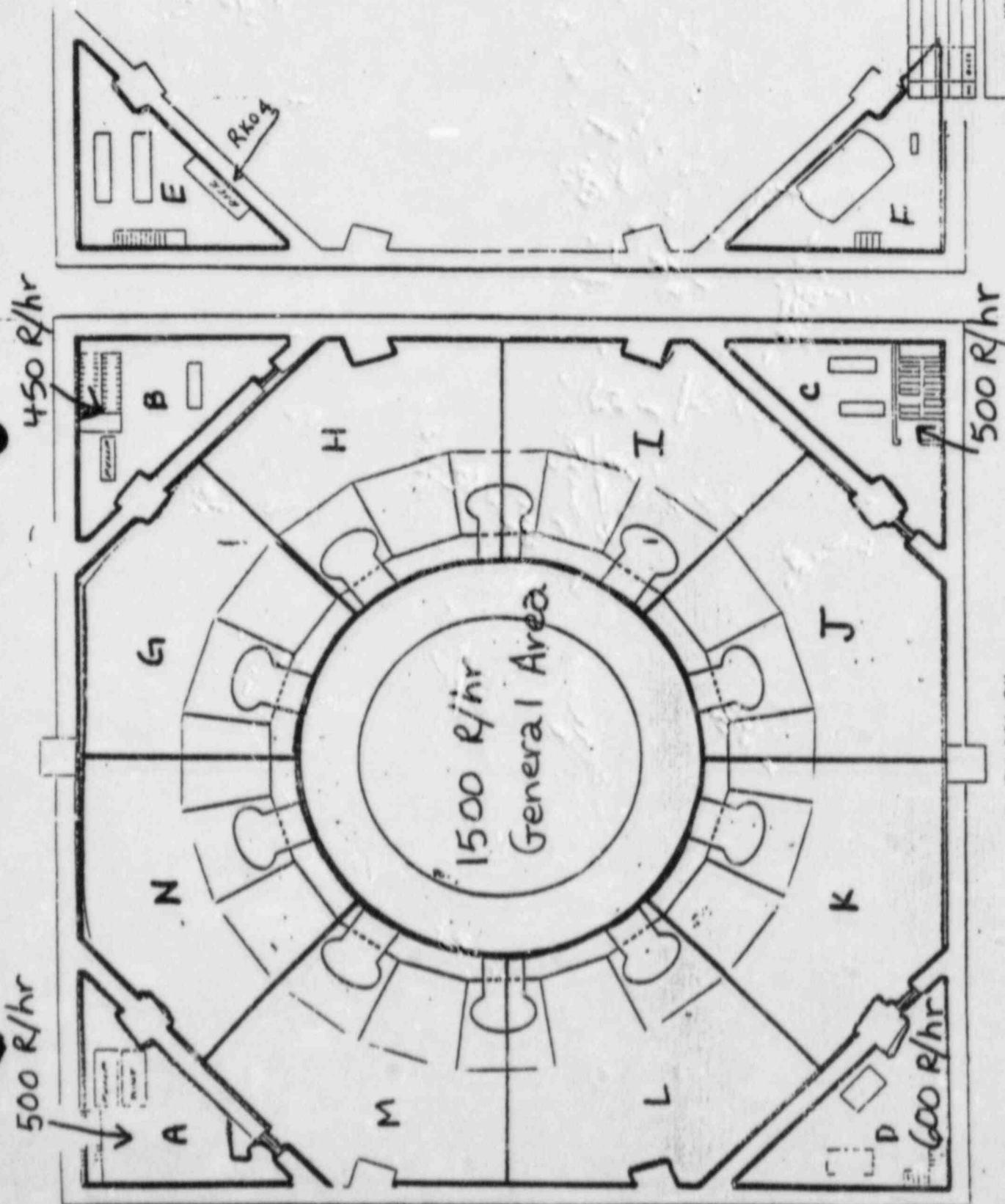
T=240 8:00 P.M.

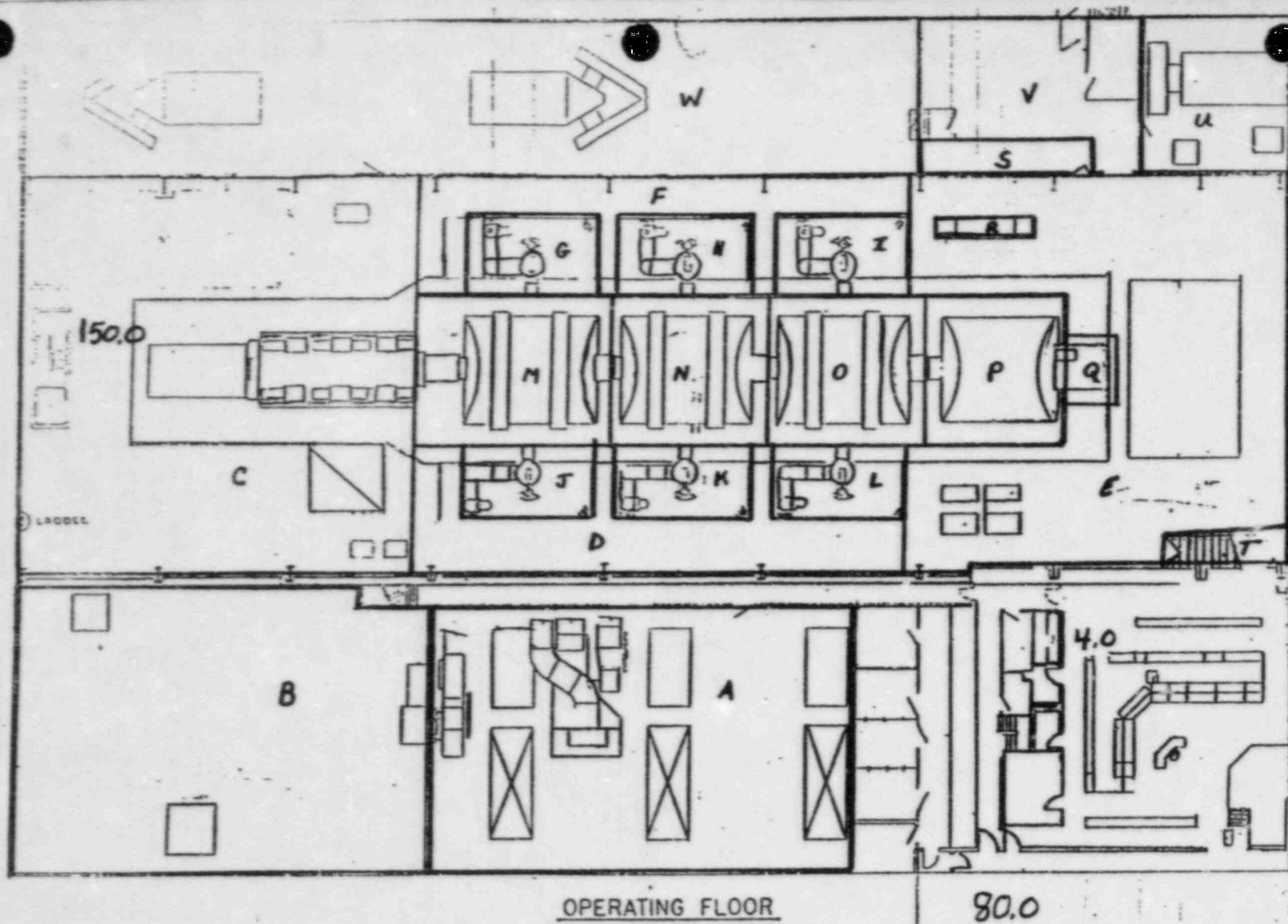
to

T=270 8:30 P.M.

Air Sample Gross Activity=
5.0 E-07 microcuries/cc

DATE	10-10-54	TIME	10:00 AM
TO	POWER & LIGHT CO.		
FROM	HOLMSTON, R. J.		
SUBJECT	POWER CABLE MISSING FROM REACTOR BUILDING		
REMARKS	REACTOR BUILDING GENERAL AREA - 10-10-54		





Readings in mR/hr

ATTACHMENT B-5
Air Sample Gross Activity = **As Found**

7=240 8:00 P.M.
to
7=270 8:30 P.M.

NO.	DATE	POSITION	BY

POWER & LIGHT CO.
MORRISTOWN, N. J.

CLYDE GREEN NUCLEAR - NEW JERSEY
TURBINE BUILDING - NEARLY 100
TURBINE OPERATING FLOOR

SCALE 1/2" = 1'-0"

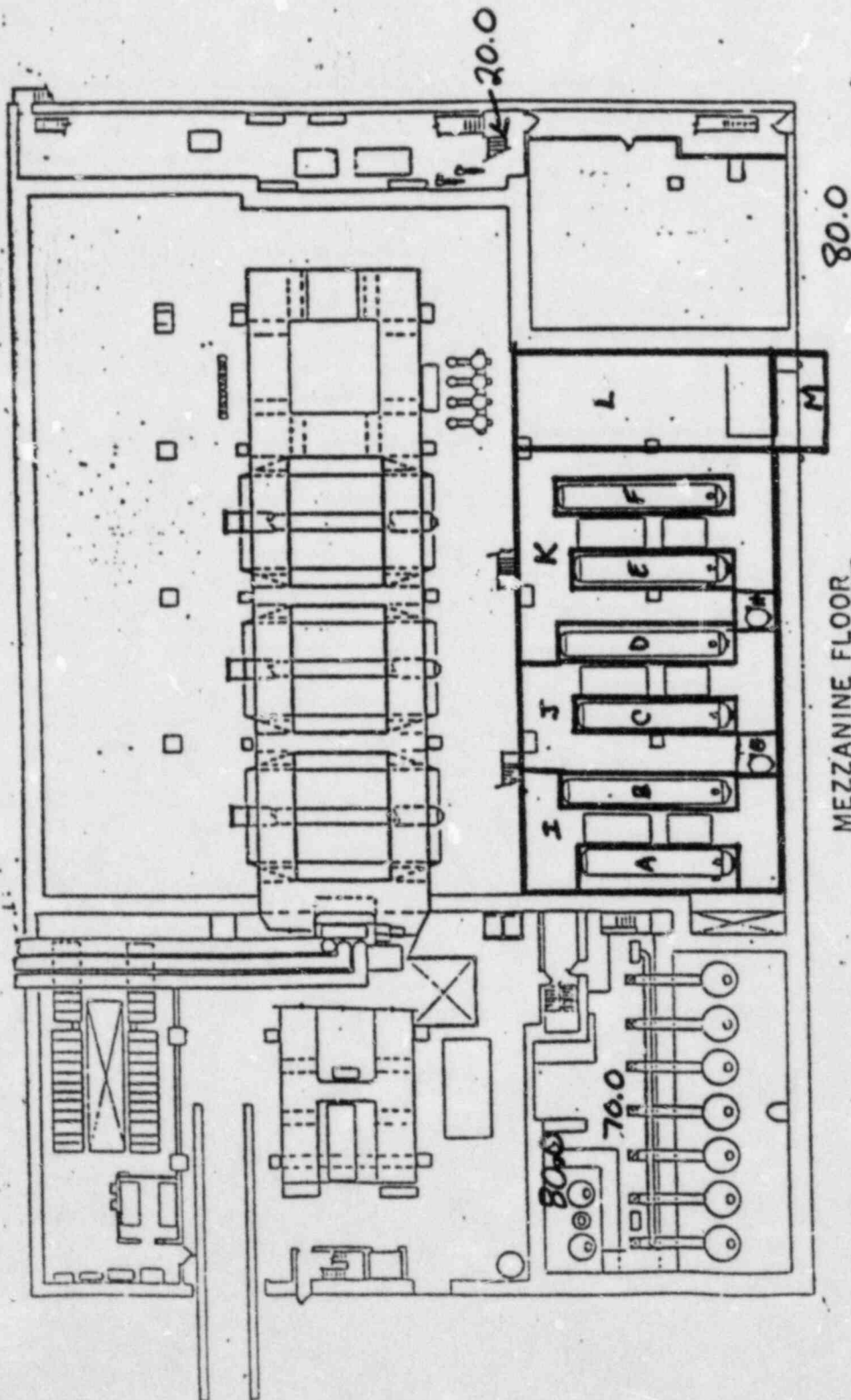
T=240 8:00 P.M.

to
T=270 8:30 P.M.

Air Sample Gross Activity= **As Found**

DATE	TIME	LOCATION	ANALYST

APPROVED: *[Signature]*
OFFICIAL USE
TWIDINE 231



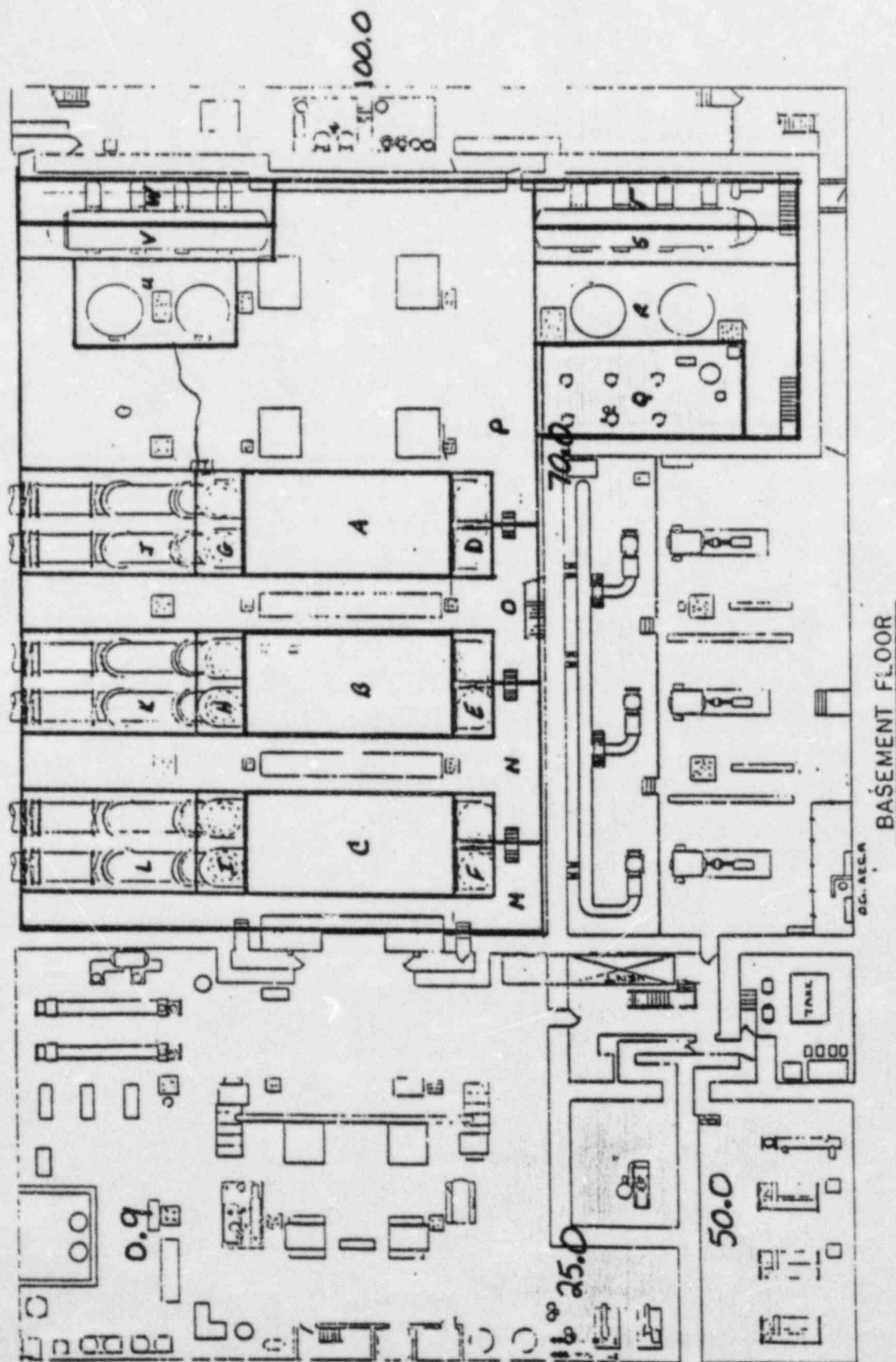
Readings in mR/hr

T=240 8:00 P.M.

to

T=270 8:30 P.M.

Air Sample Gross Activity=

As Found

Readings in mR/hr

NO.	DATE	TIME	LOCATION	ACTIVITY

POWER & LIGHT CO.
HOBOKEN, N. J.
OFFICE: 1000 10TH AVENUE, 10TH FLOOR
TELEPHONE: 875-1234

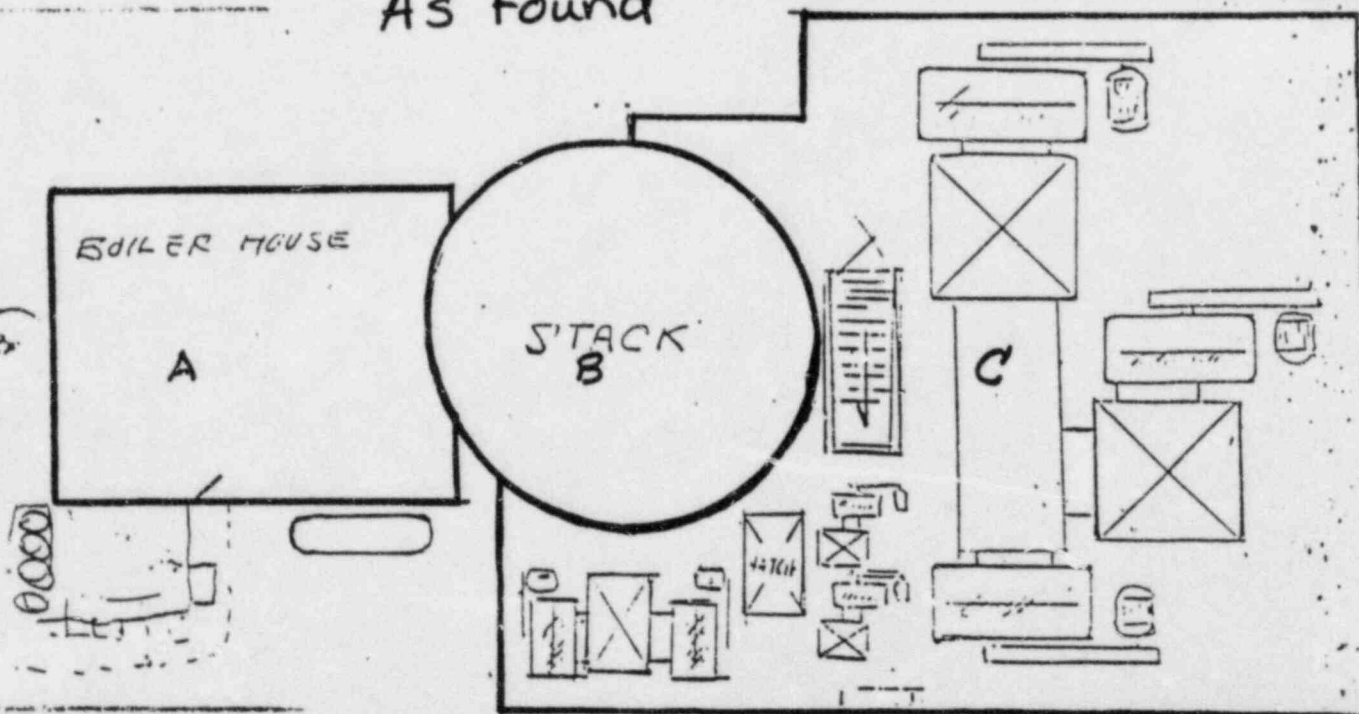
T=240 8:00 P.M.

to

T=270 8:30 P.M.

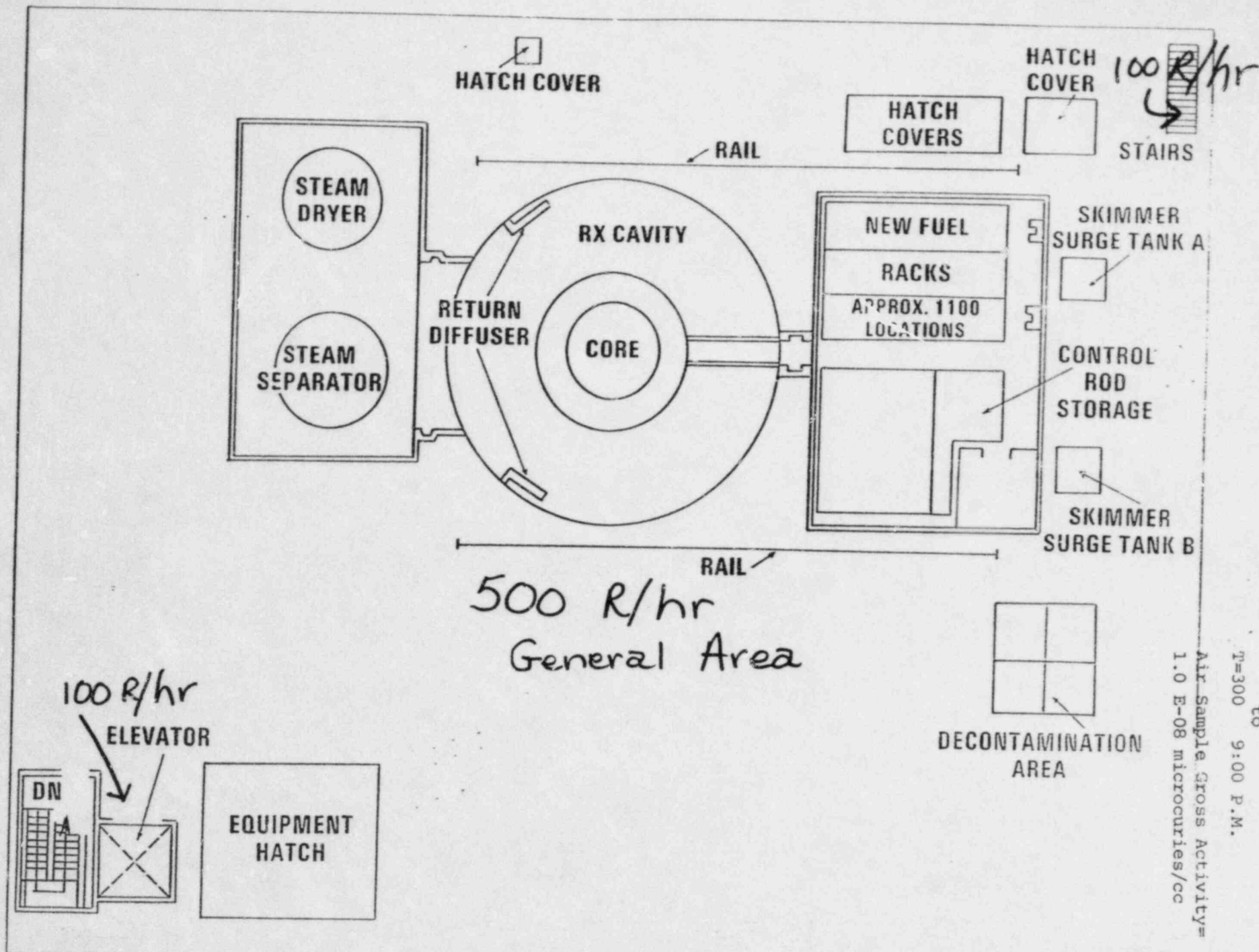
Air Sample Gross Activity= **N.A.**

As Found



N

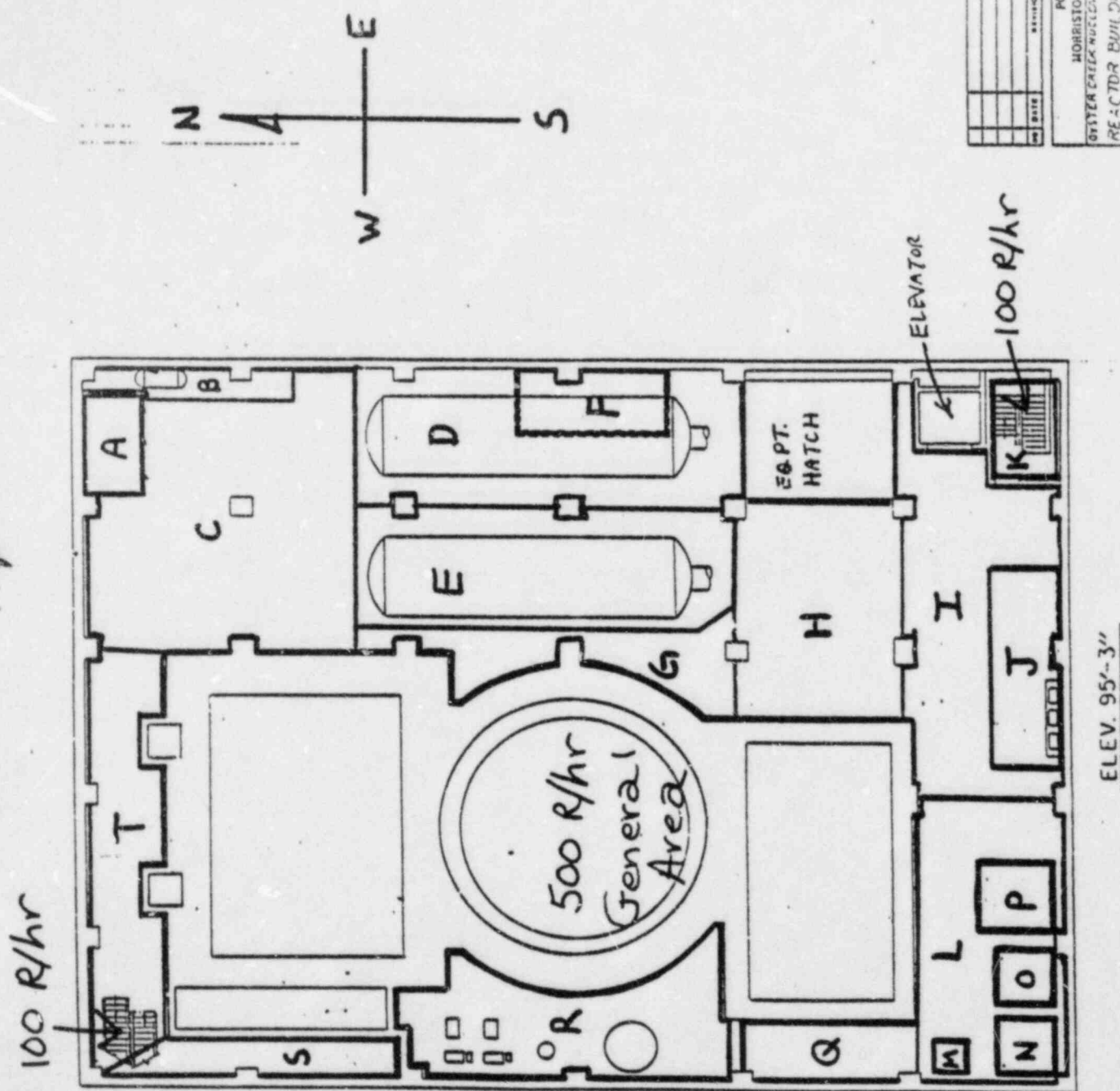
R, BLDG AIR LOCK



119' Elev. Rx. Bldg.

T=300 9:00 P.M.

Air Sample Gross Activity=
1.0 E-08 microcuries/cc



DATE	DESCRIPTION	AMOUNT	BALANCE
	POWER & LIGHT CO		
	MORRISTOWN, N. J.		
	GUYSTER ENGINE NUSCO		
	REACTOR BUILDING		
	150 300 00		

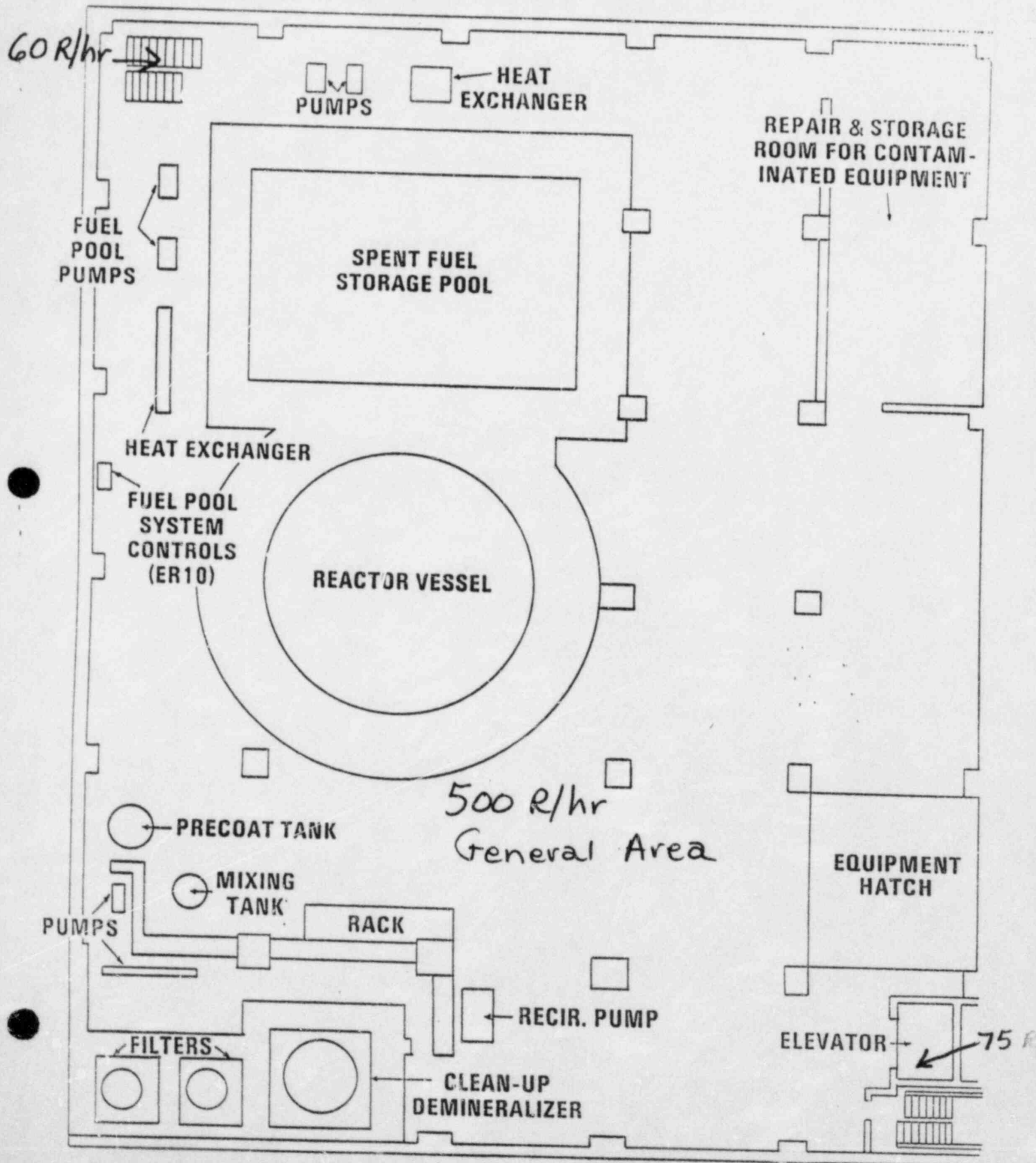
T=270 8:30 P.M.

to

T=300 9:00 P.M.

Air Sample Gross Activity=
1.0 E-08 microcuries/cc

Augmented Fuel Pool Cooling System

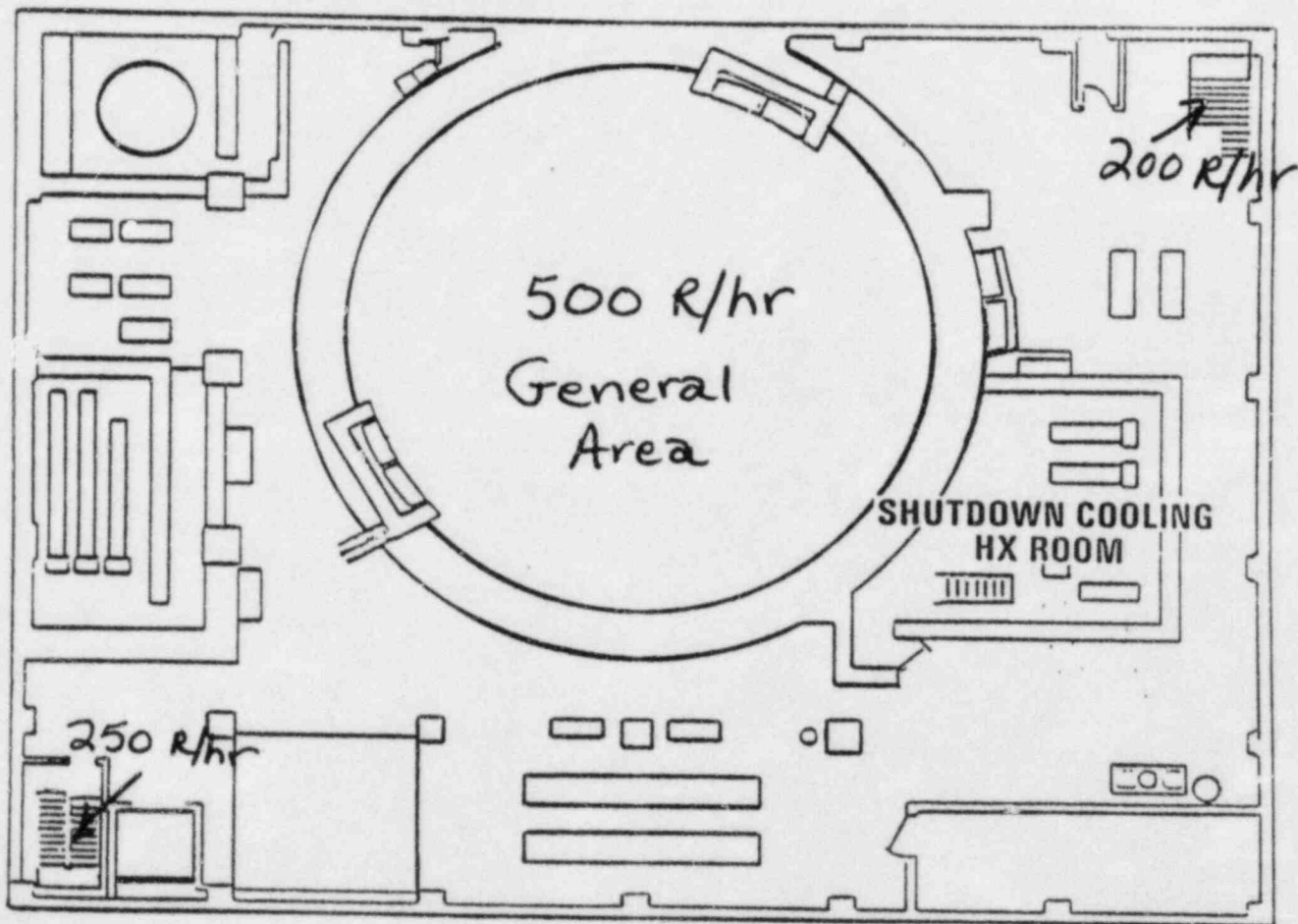


T=270 8:30 P.M.

to

T=300 9:00 P.M.

Air Sample Gross Activity=
1.0 E-08 microcuries/cc

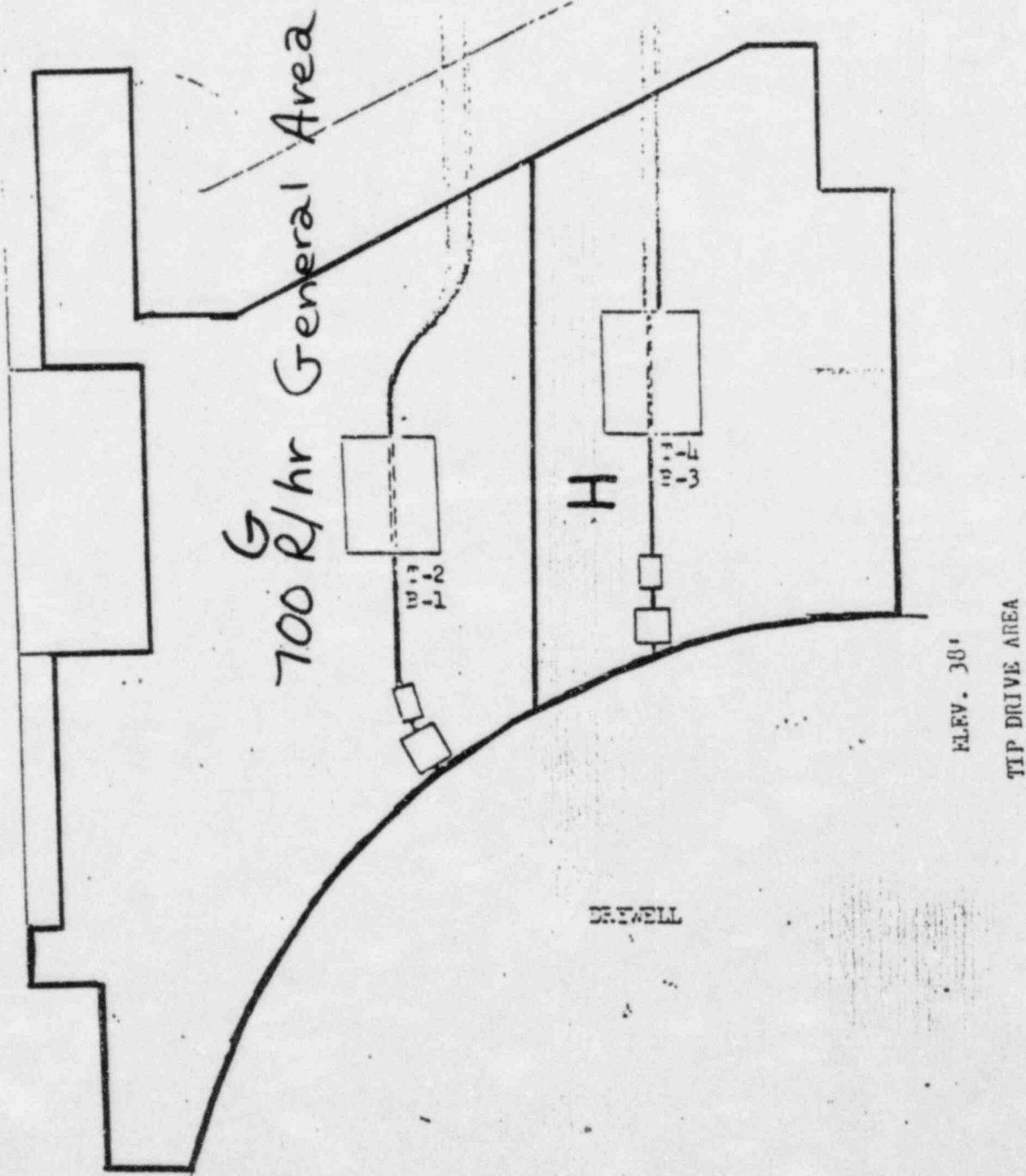
51' ELEVATION

T=270 8:30 P.M.

to

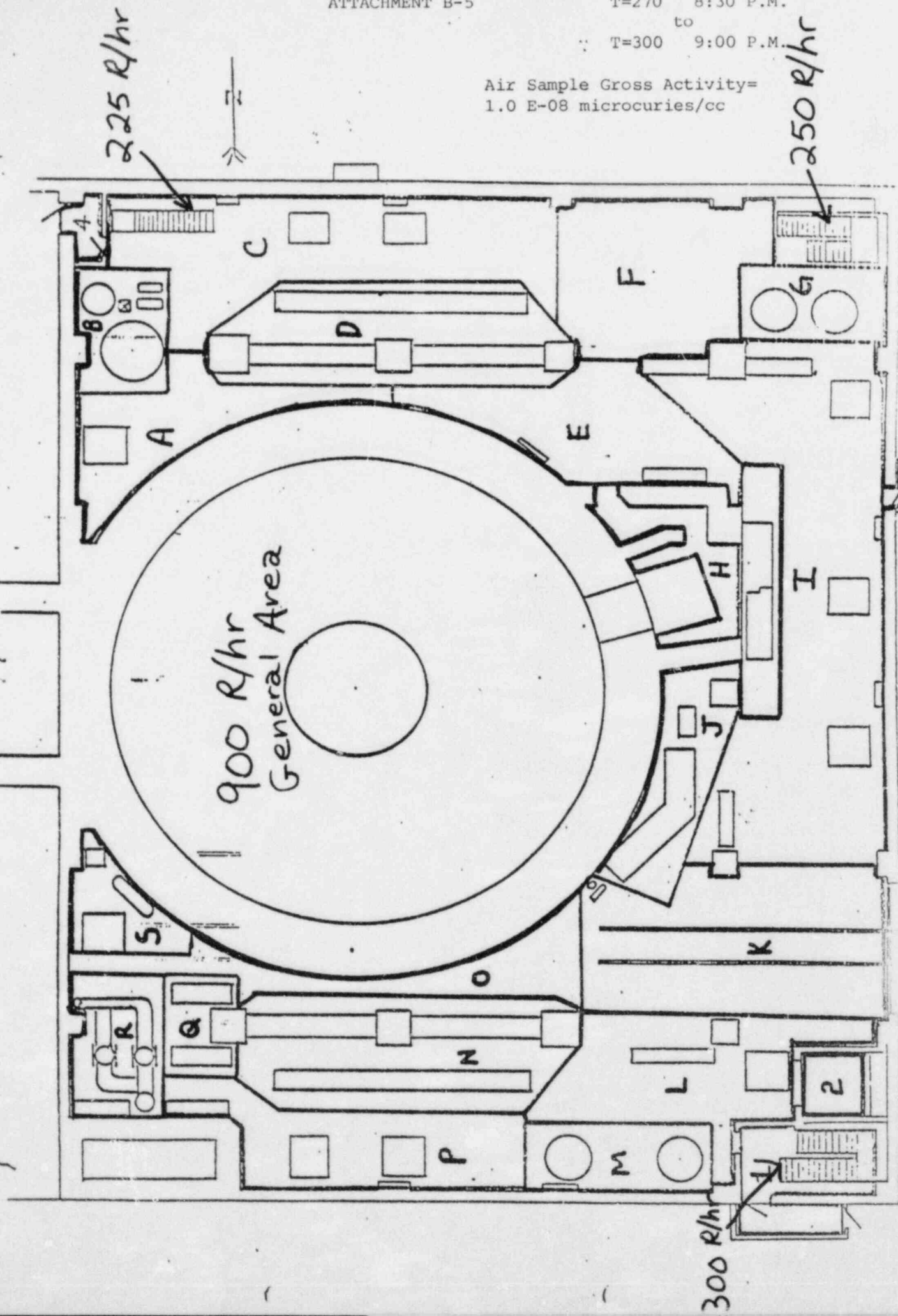
T=300 9:00 P.M.

Air Sample Gross Activity=
1.0 E-08 microcuries/cc

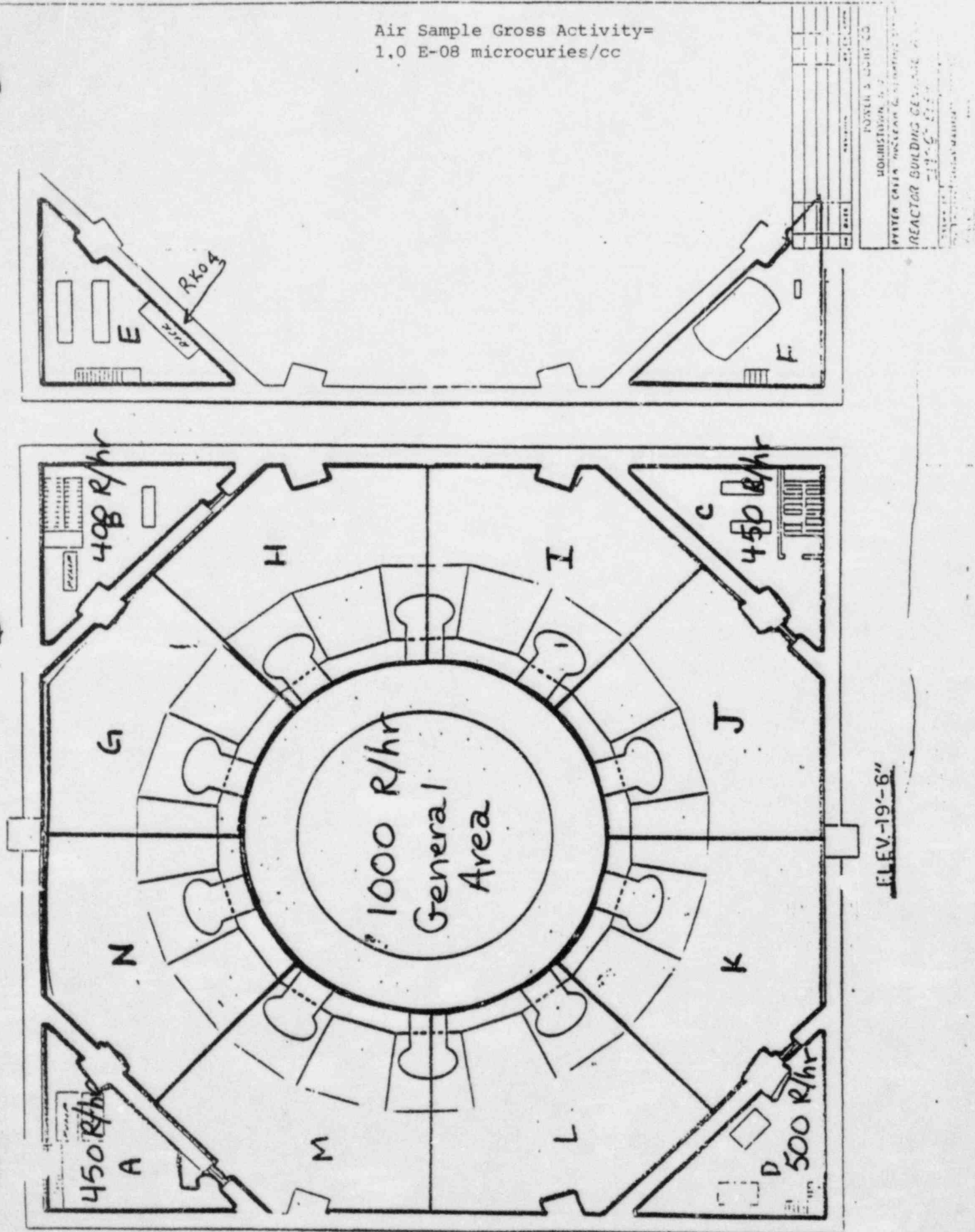


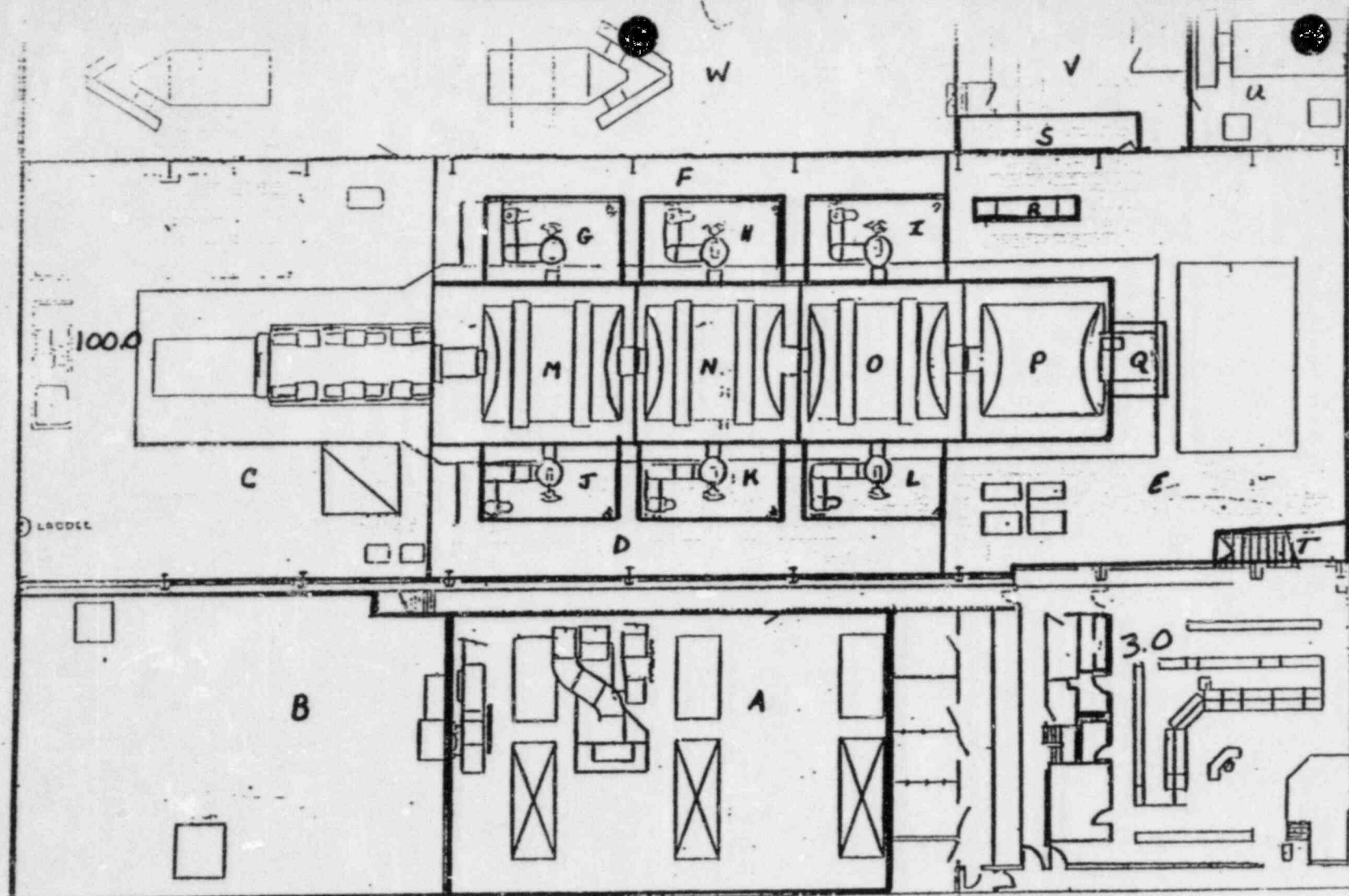
to

Air Sample Gross Activity=
1.0 E-08 microcuries/cc



Air Sample Gross Activity=
1.0 E-08 microcuries/cc





OPERATING FLOOR

Readings in mR/hr

60.0

Air Sample Gross Activity=
As Found

NO.	DATE	POSITION
POWER & LIGHT		
MORRISTOWN, N. J.		
CYSTER CREEK AND LAKES		
TURBINE BUILDING		
TURBINE OPERATING FLOOR		

I=2.1 V. 0.0000
TO
I=300 9:00PM

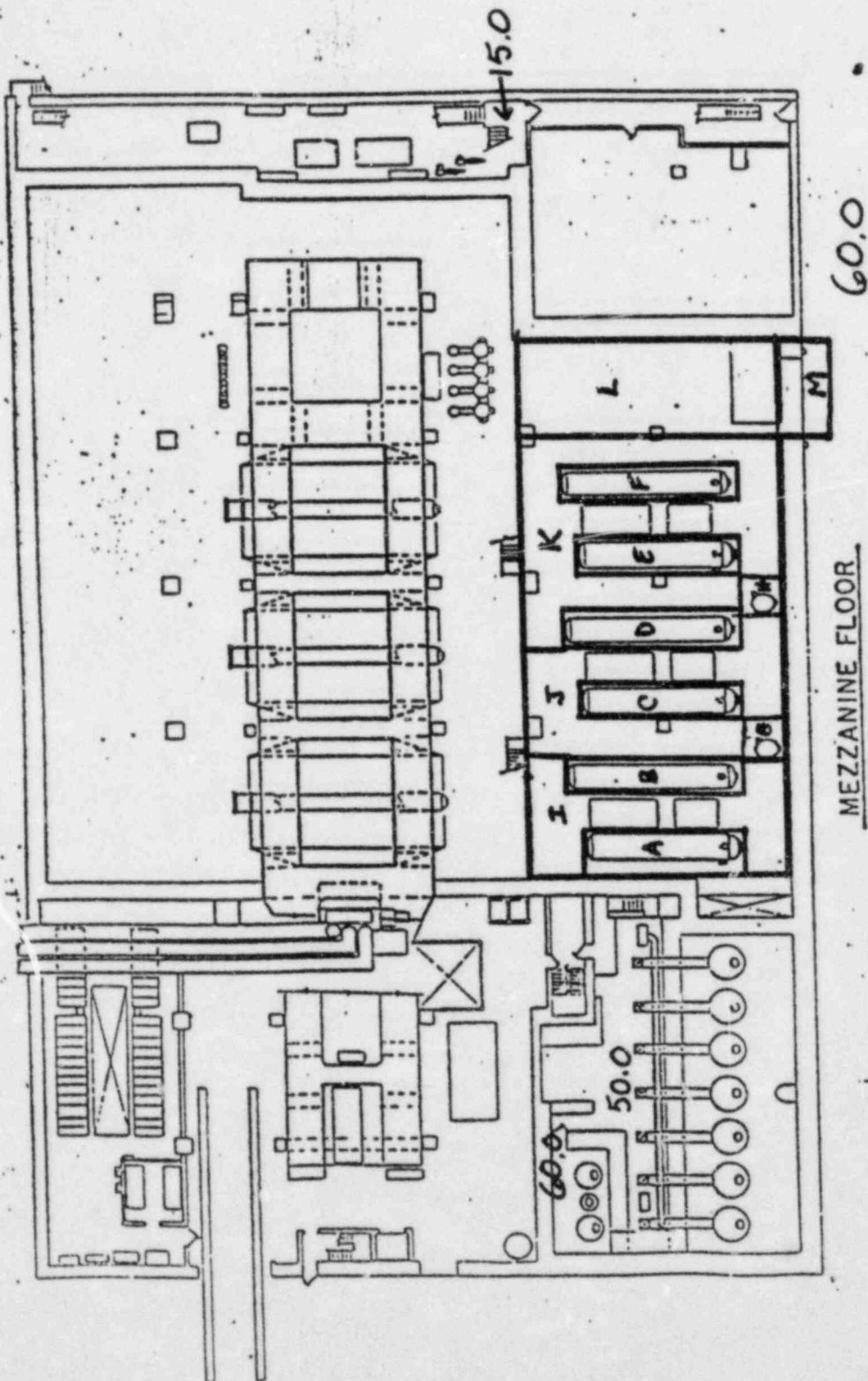
ATTACHMENT B-5

T=270 8:30 P.M.
to
T=300 9:00 P.M.

Air Sample Gross Activity= **AS Found**

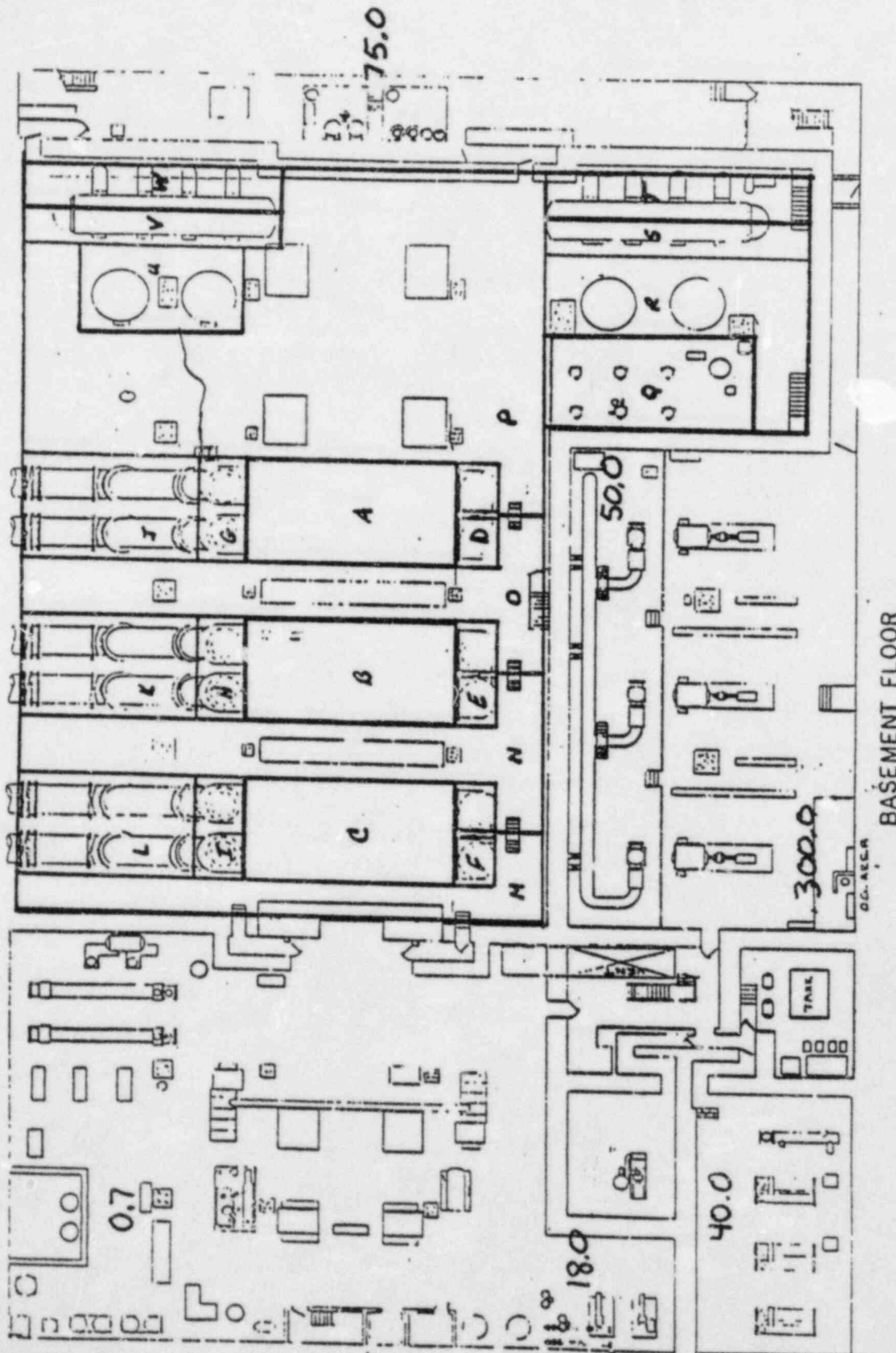
DATE	TIME	LOCATION	BY

OFFICE USE
TUTORIAL



Readings in mR/hr

to

Air Sample Gross Activity=
As Found

NO.	DATE	BY	POWER & LIGHT CO.
			ROCKFORD, N.Y.
			SYSTEMS GROUP
			THURSDAY, APRIL 1, 1983

Readings in mR/hr

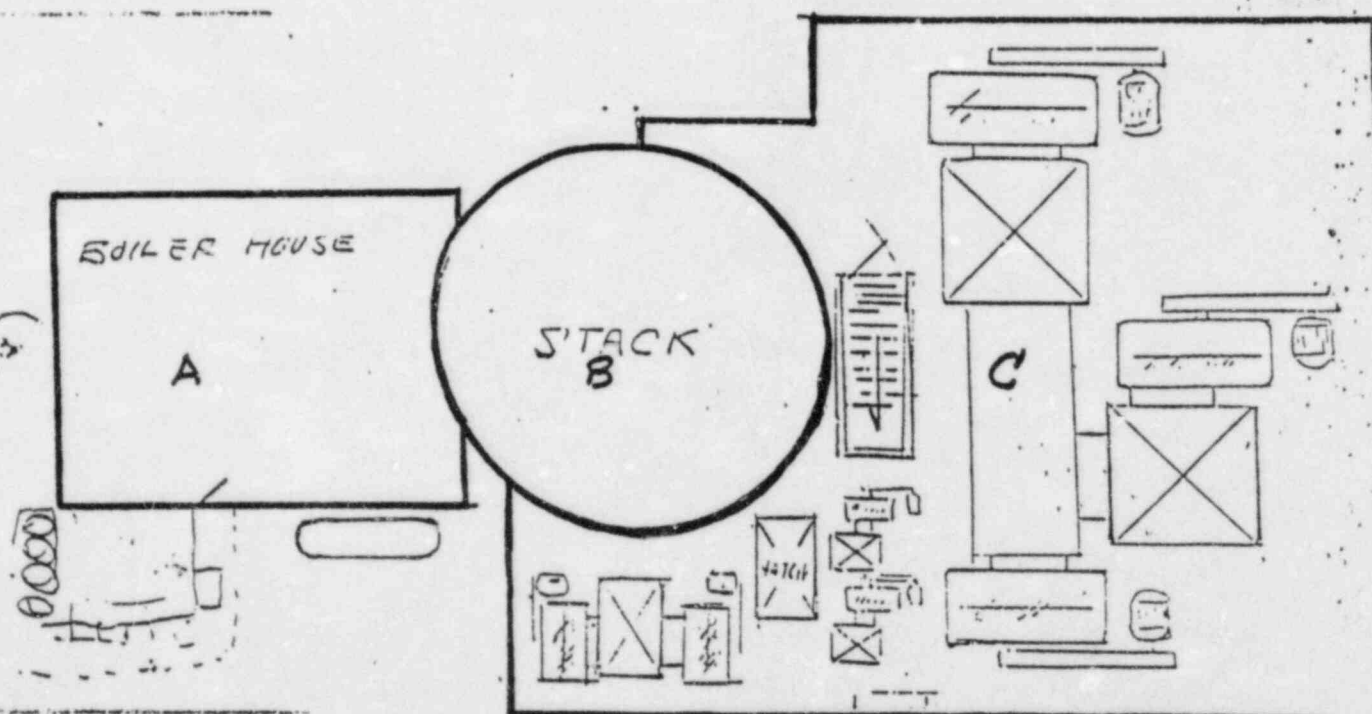
ATTACHMENT B-5

T=270 8:30 P.M.

to
T=300 9:00 P.M.

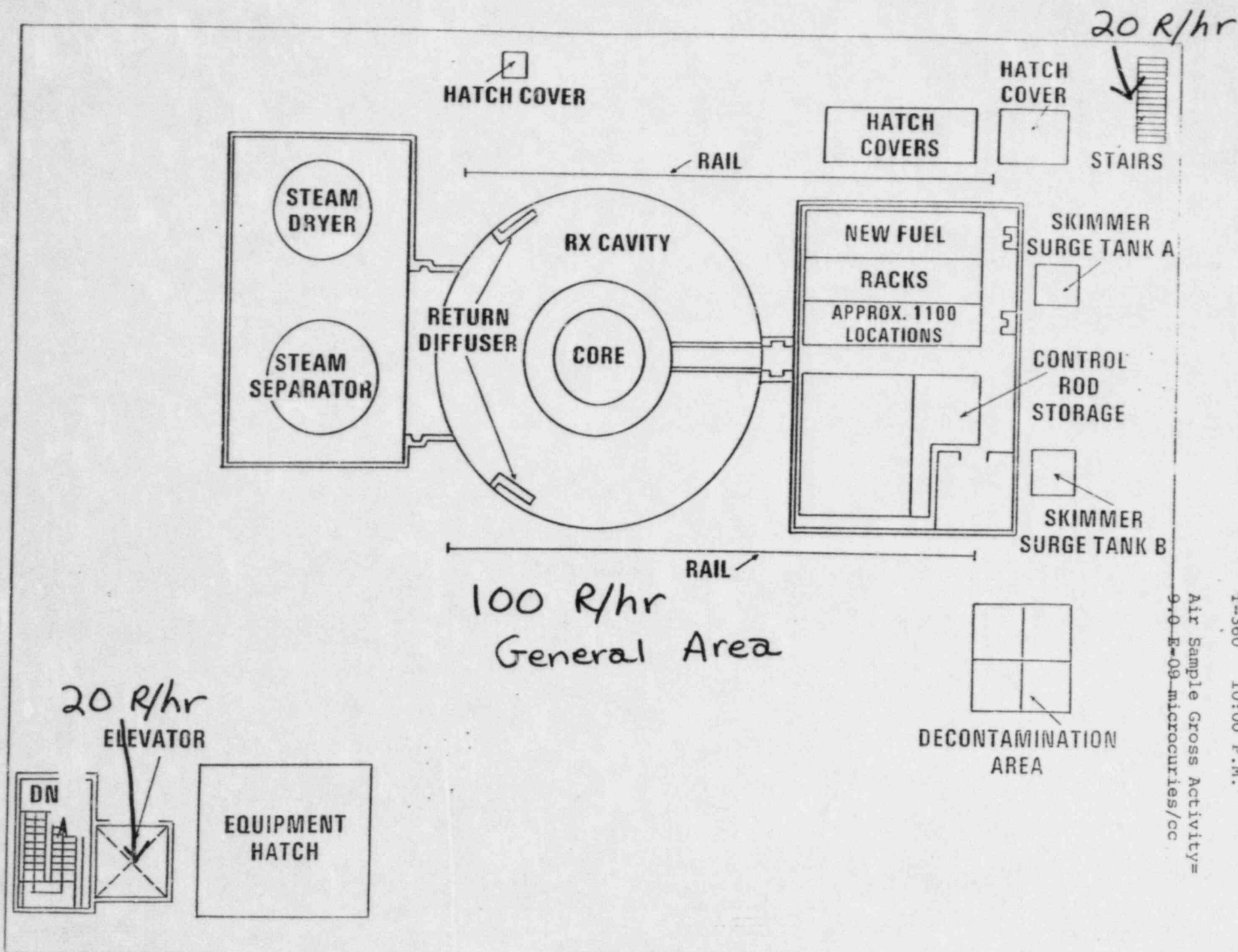
Air Sample Gross Activity= **N.A.**

As Found



N

BLDG AIR LOCK



ATTACHMENT B-5

T=300 9:00 P.M.
to

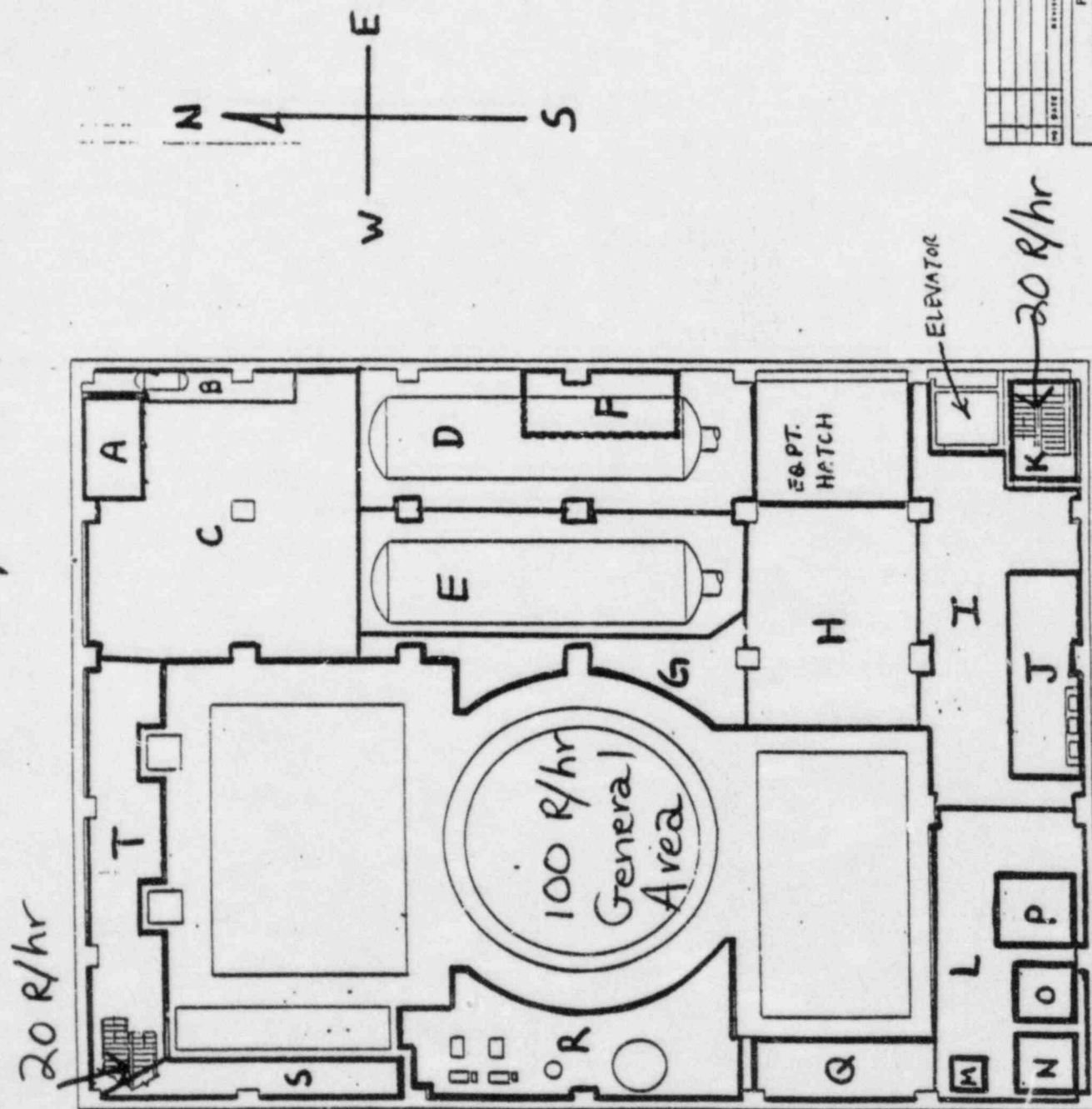
T=360 10:00 P.M.

Air Sample Gross Activity=
9.0 E-09 microcuries/cc

T=300 9:00 P.M.

T=360 to 10:00 P.M.

Air Sample Gross Activity=
9.0 E-09 microcuries/cc

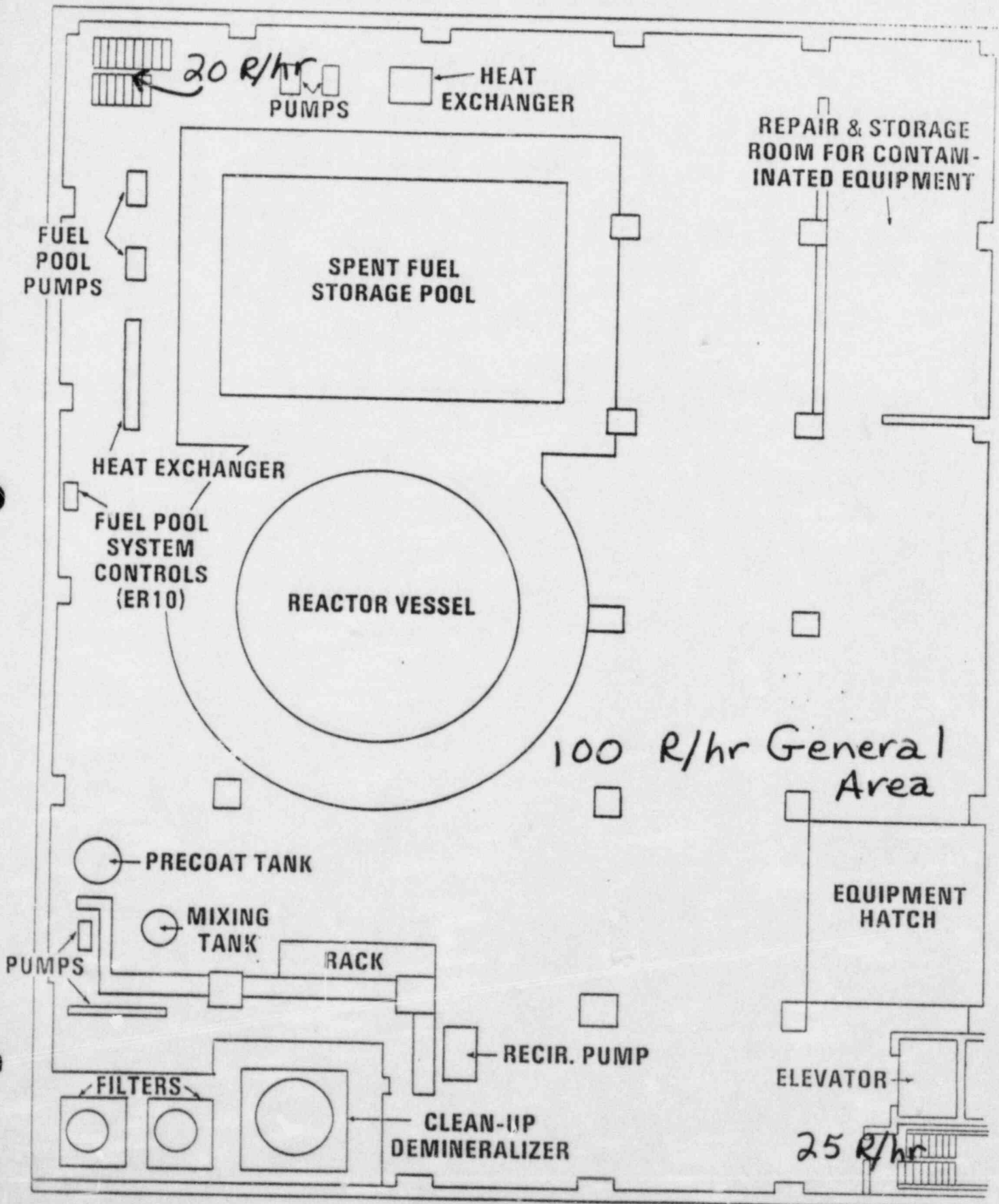


ELEV. 95'-3"

NO	DATE	DESCRIPTION	AMOUNT	REMARKS
		POWER & LIGHT CO		
		MORRISTOWN, N. J.		
		OSTER CATER NUCLEAR		
		REACTOR BUILDING		
		15.30		

Augmented Fuel Pool Cooling System

Air Sample Gross Activity=
9.0 E-09 microcuries/cc



ATTACHMENT B-5

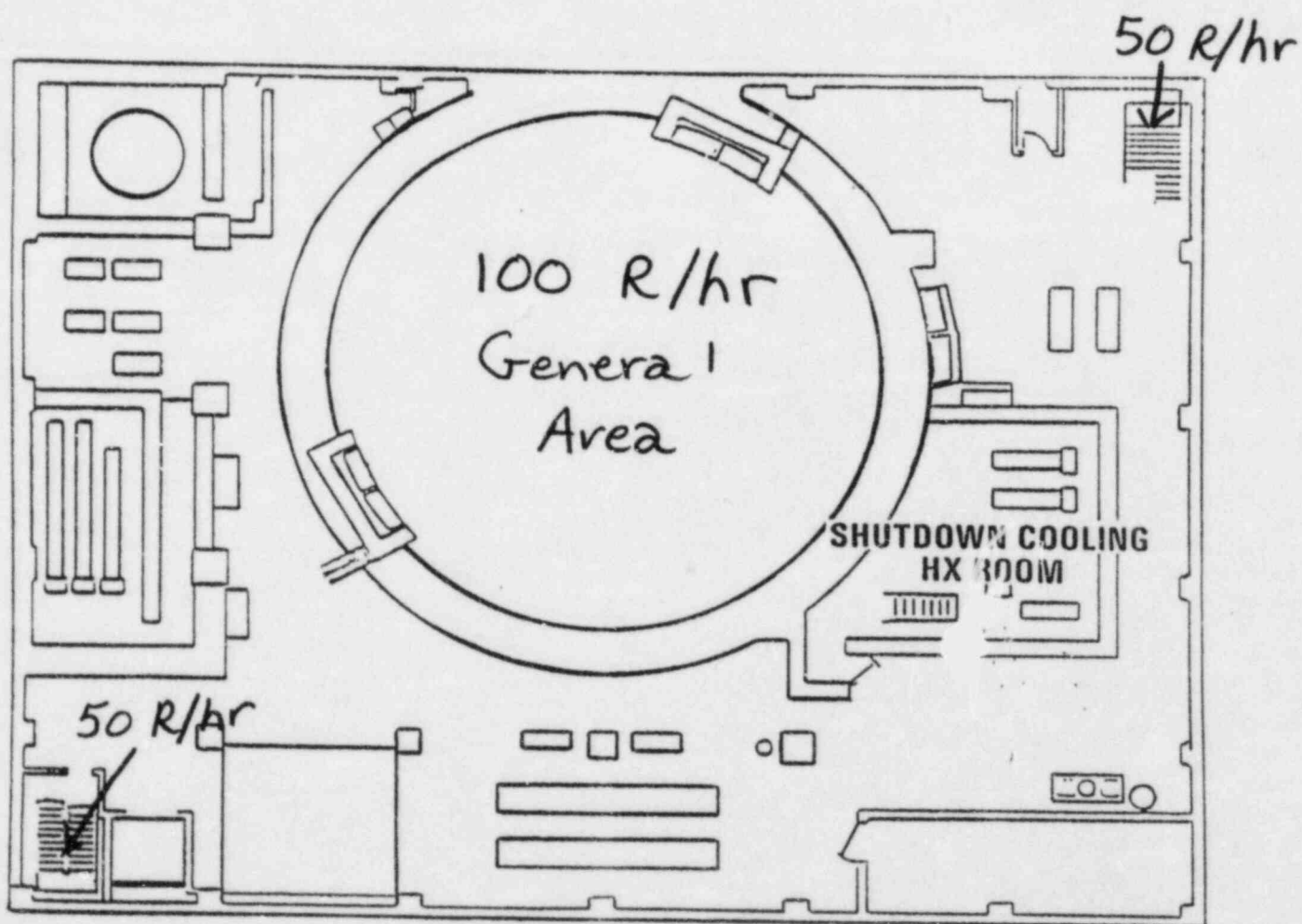
T=300 9:00 P.M.

to

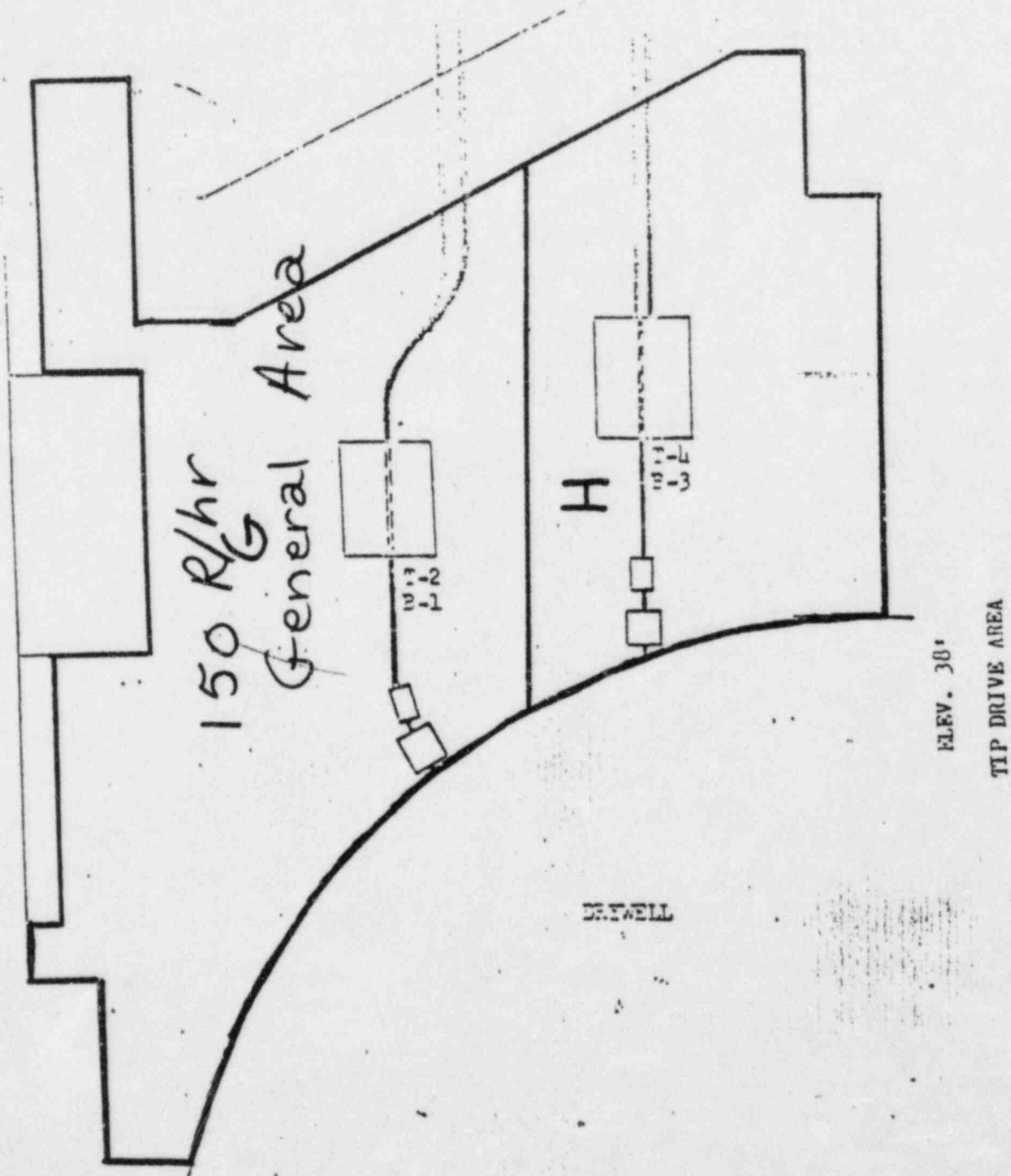
T=360 10:00 P.M.

Air Sample Gross Activity=
9.0 E-09 microcuries/cc

51' ELEVATION



ATTACHMENT B-5
 T=300 9:00 P.M.
 to
 T=360 10:00 P.M.
 Air Sample Gross Activity=
 9.0 E-09 microcuries/cc



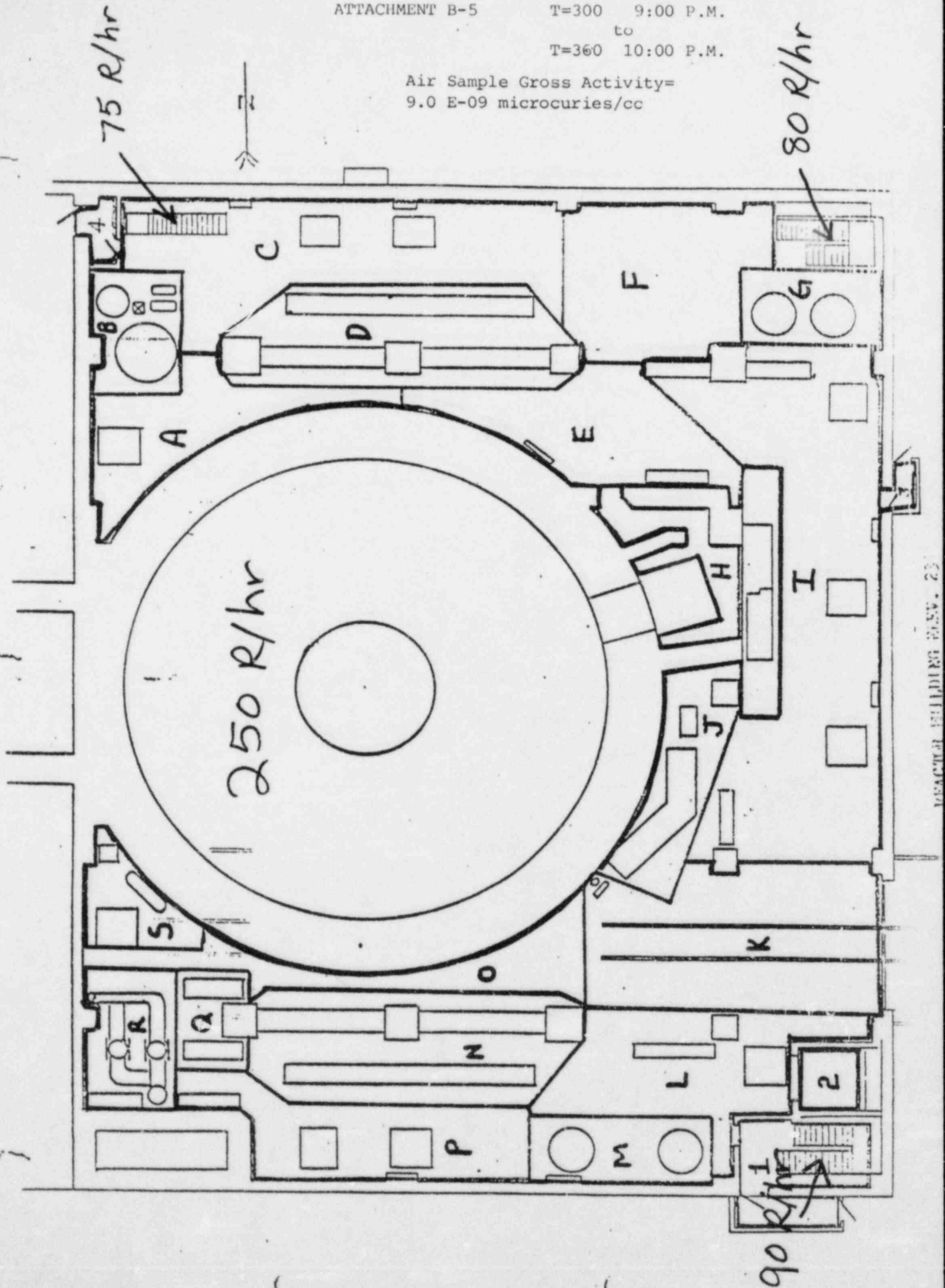
ATTACHMENT B-5

T=300 9:00 P.M.

to

T=360 10:00 P.M.

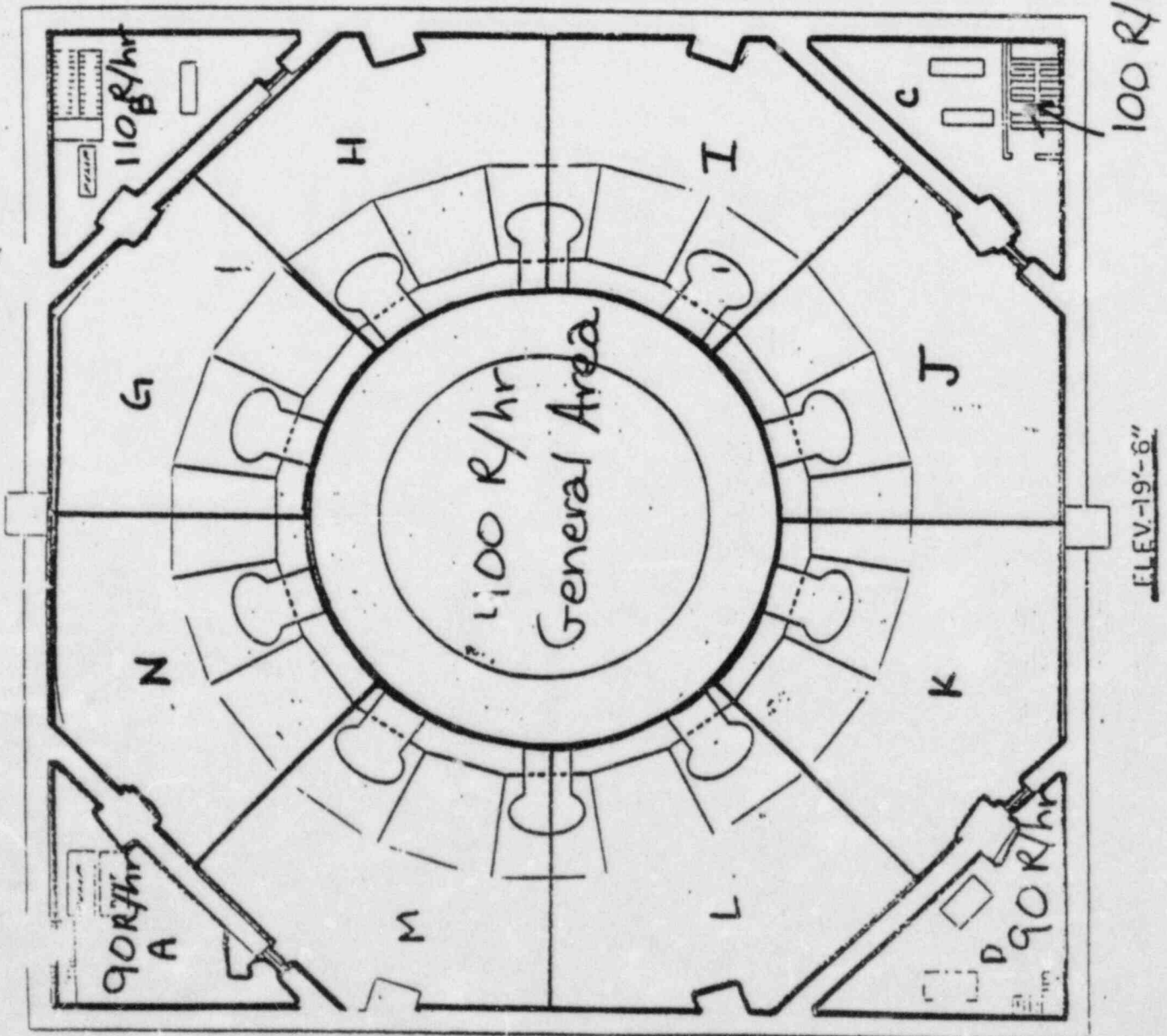
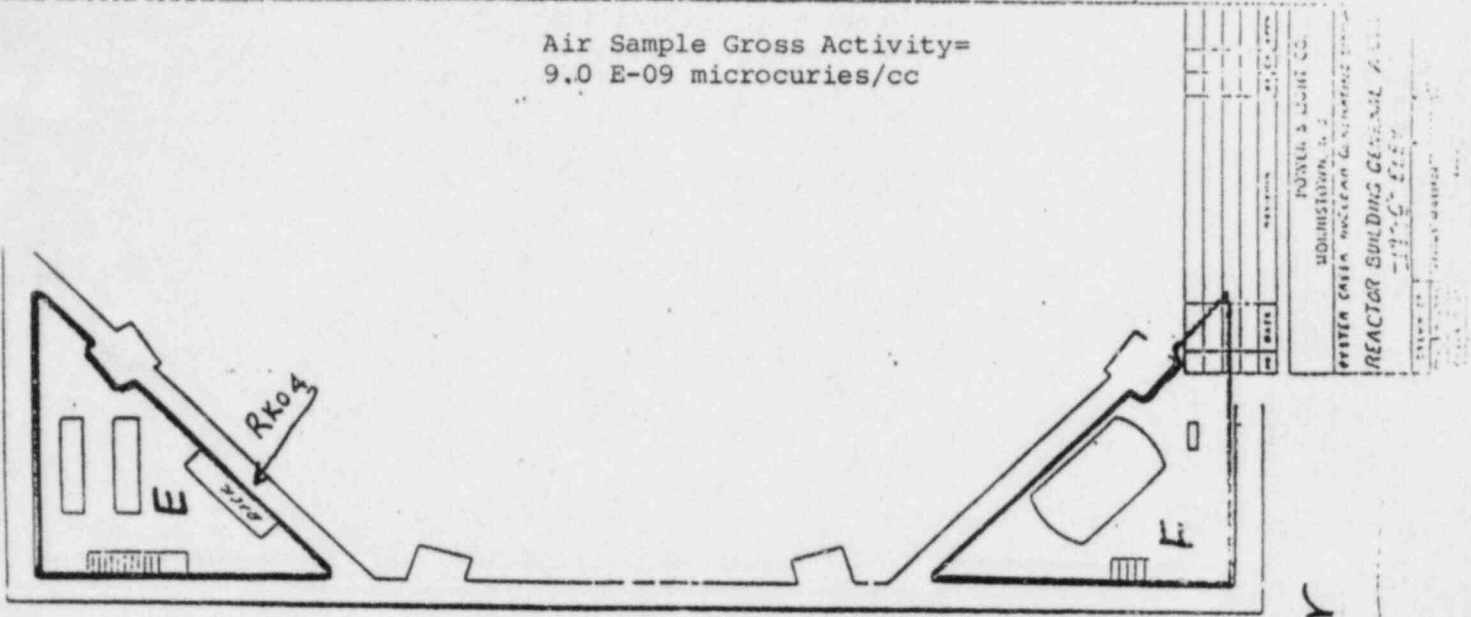
Air Sample Gross Activity=
9.0 E-09 microcuries/cc



T=300 9:00 P.M.

T=360 to 10:00 P.M.

Air Sample Gross Activity=
9.0 E-09 microcuries/cc



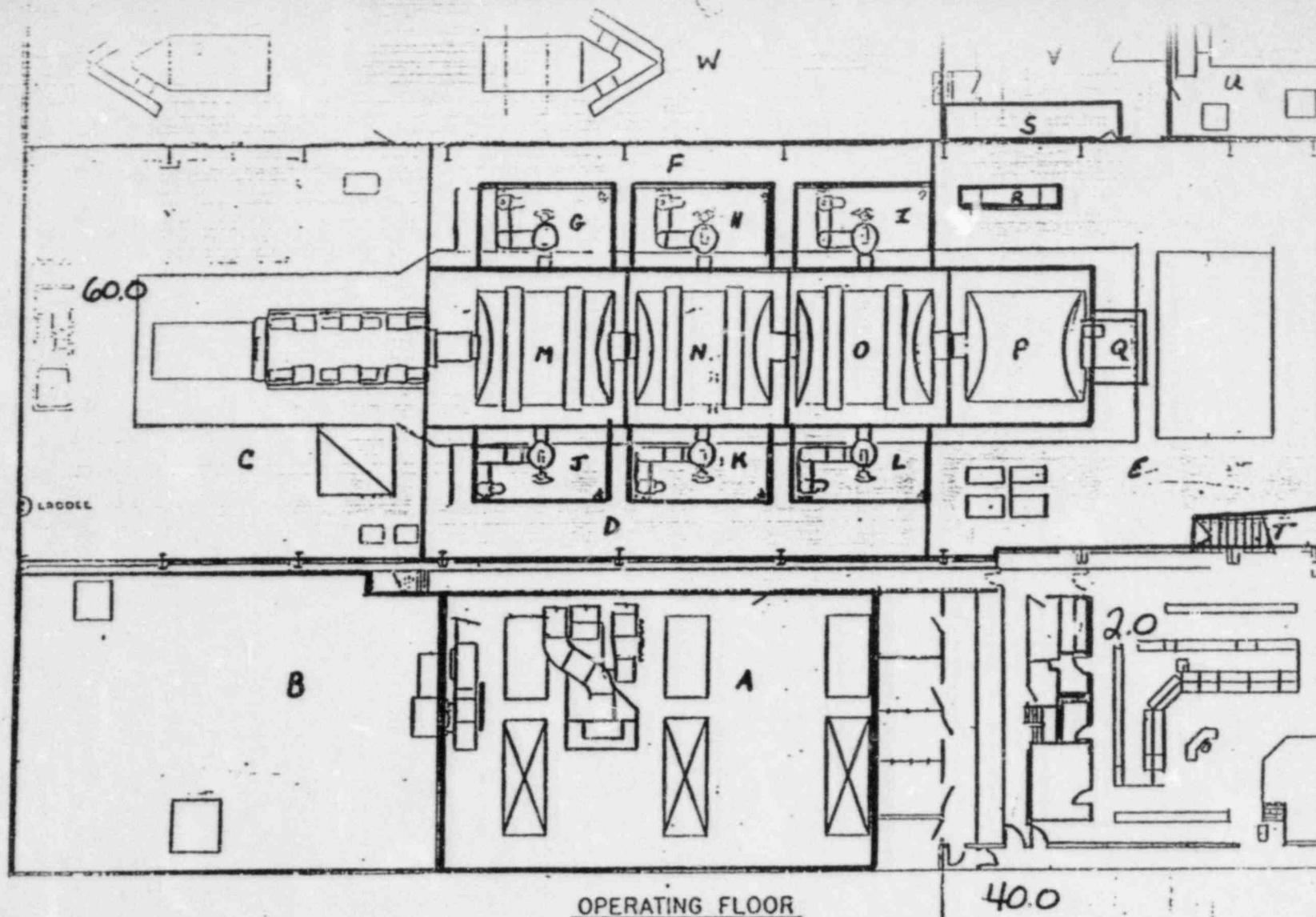
ATTACHMENT B-5

T=300 9:00 P.M.

to

T=360 10:00 P.M.

Air Sample Gross Activity= As Found



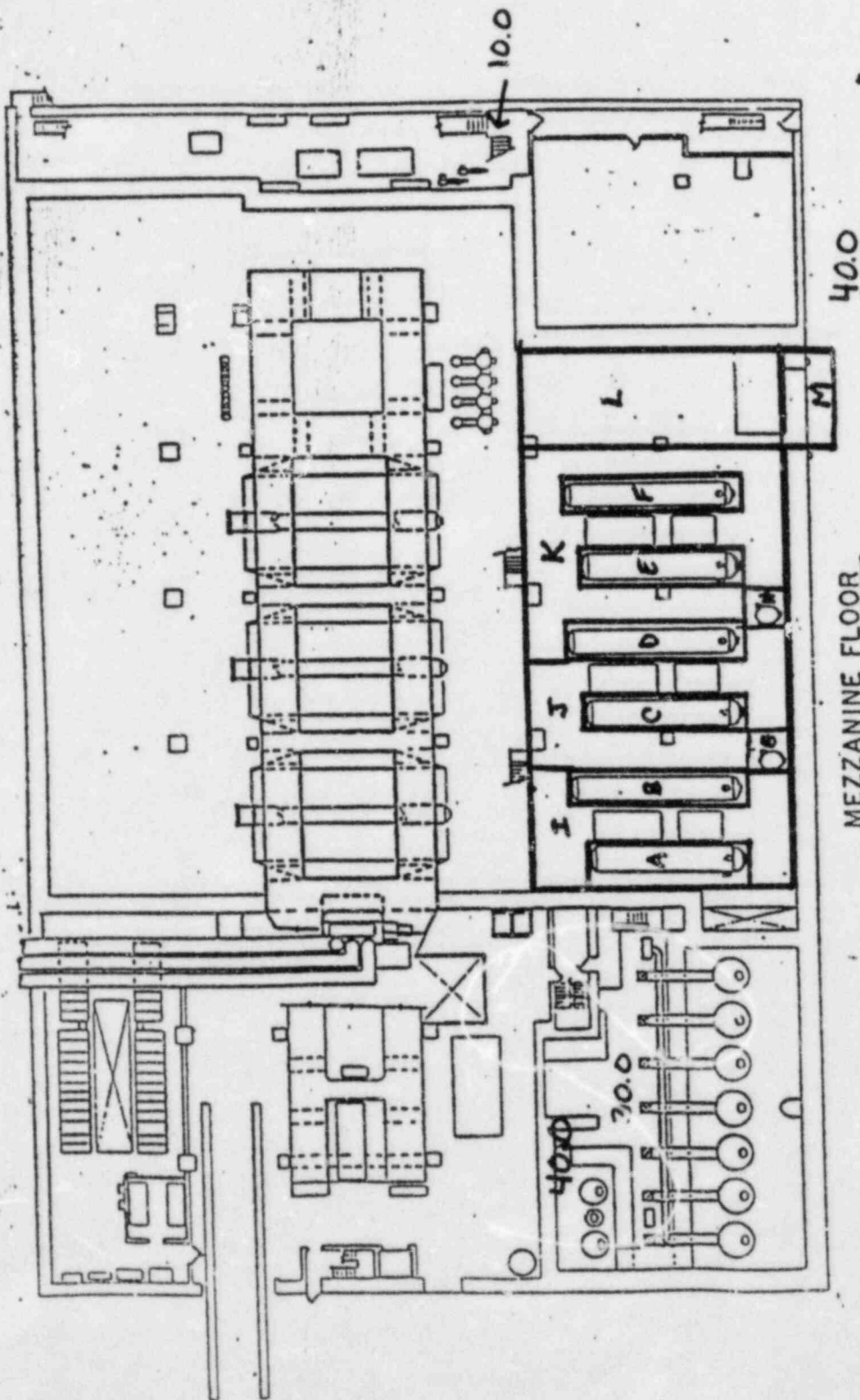
Readings in mR/hr

NO.	DATE	REVISION	DATE
POWER & LIGHT			
MOORESTOWN, N. J.			
OYSTER CREEK WASTEWATER TREATMENT PLANT			
TURBINE BUILDING - 1ST FLOOR			
TURBINE OPERATING FLOOR			
DRAWN BY			

Air Sample Gross Activity= **As Found**

DATE	TIME	LOCATION	ANALYST

OFFICE OF THE ATTORNEY GENERAL
TULSA, OKLA.



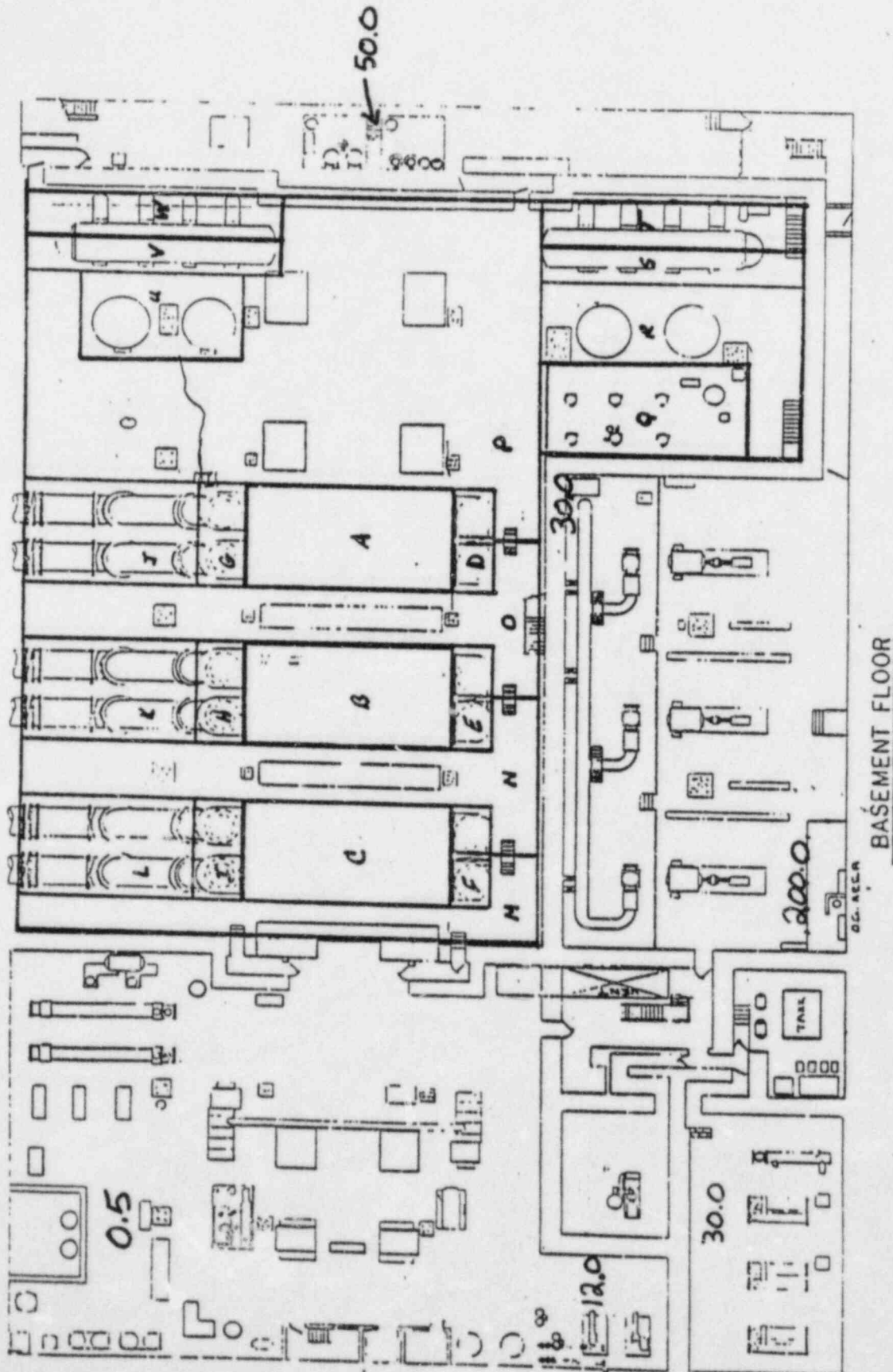
Readings in mR/hr

T=300 9:00 P.M.

to

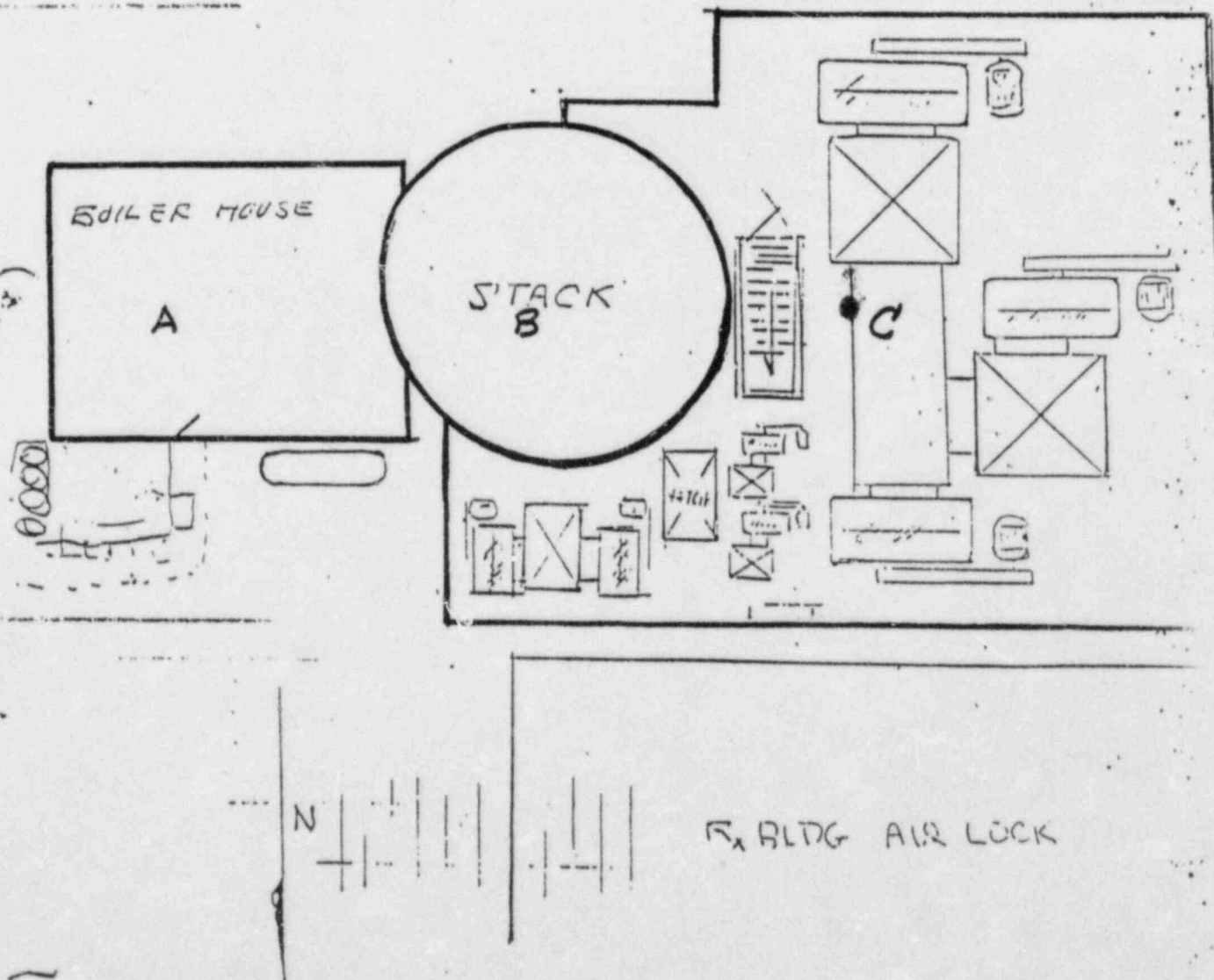
T=360 10:00 P.M.

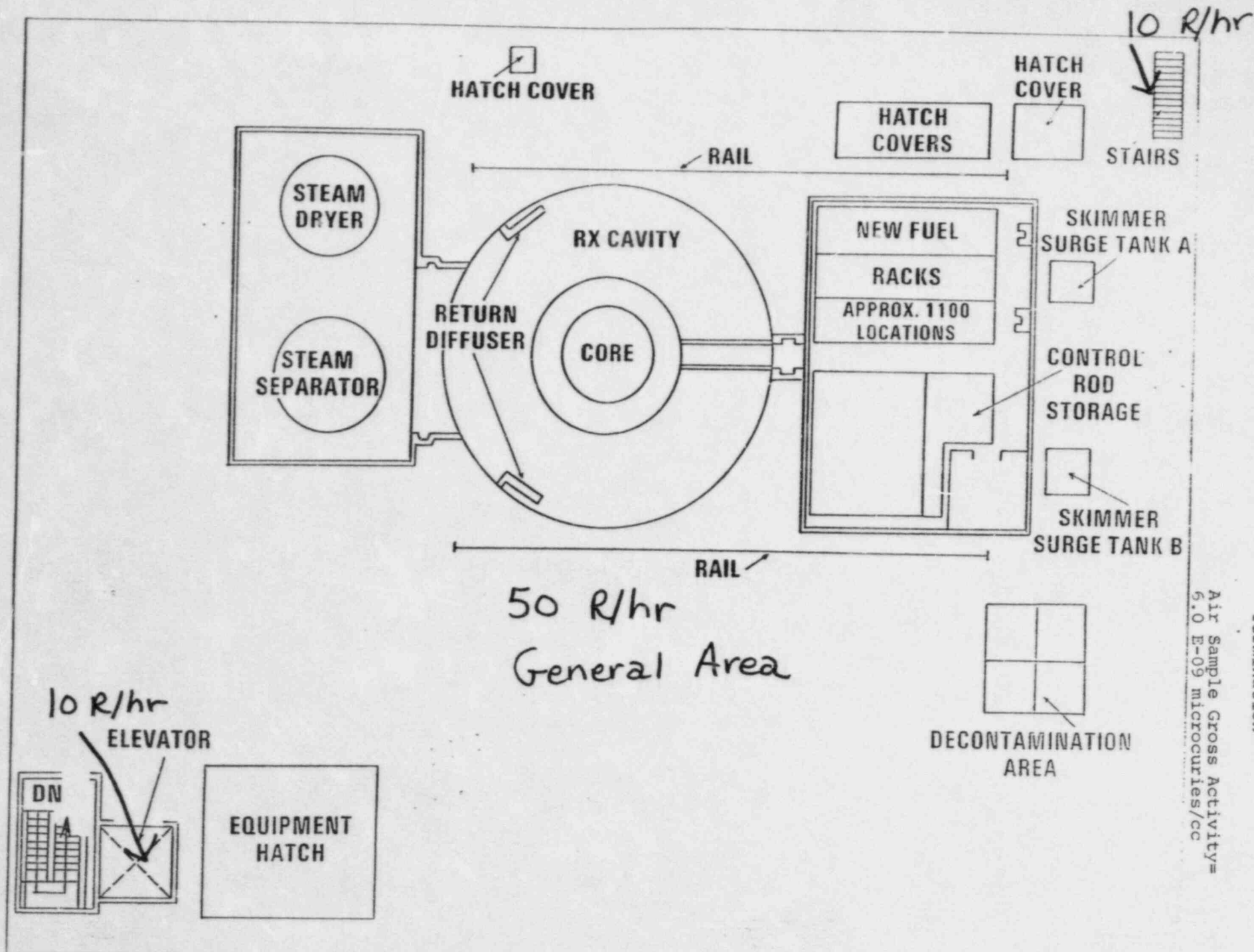
Air Sample Gross Activity= *AS Found*



Readings in mL/hr

T=300 9:00 P.M.

to
T=360 10:00 P.M.Air Sample Gross Activity= **N.A.***As Found*



ATTACHMENT B-5

T=360 10:00 P.M.

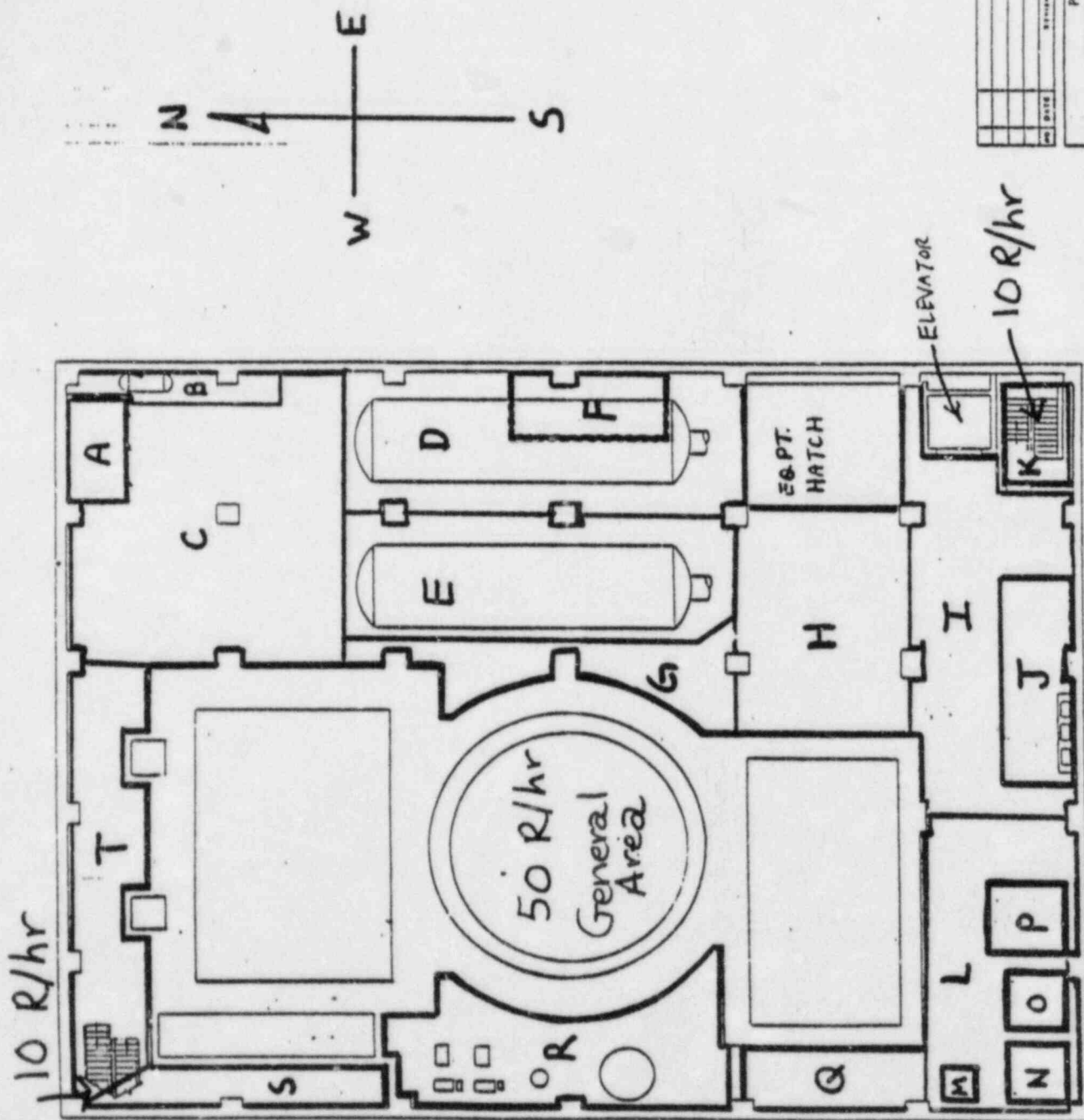
to
Termination

Air Sample Gross Activity=
6.0 E-09 microcuries/cc

T=360 10:00 P.M.

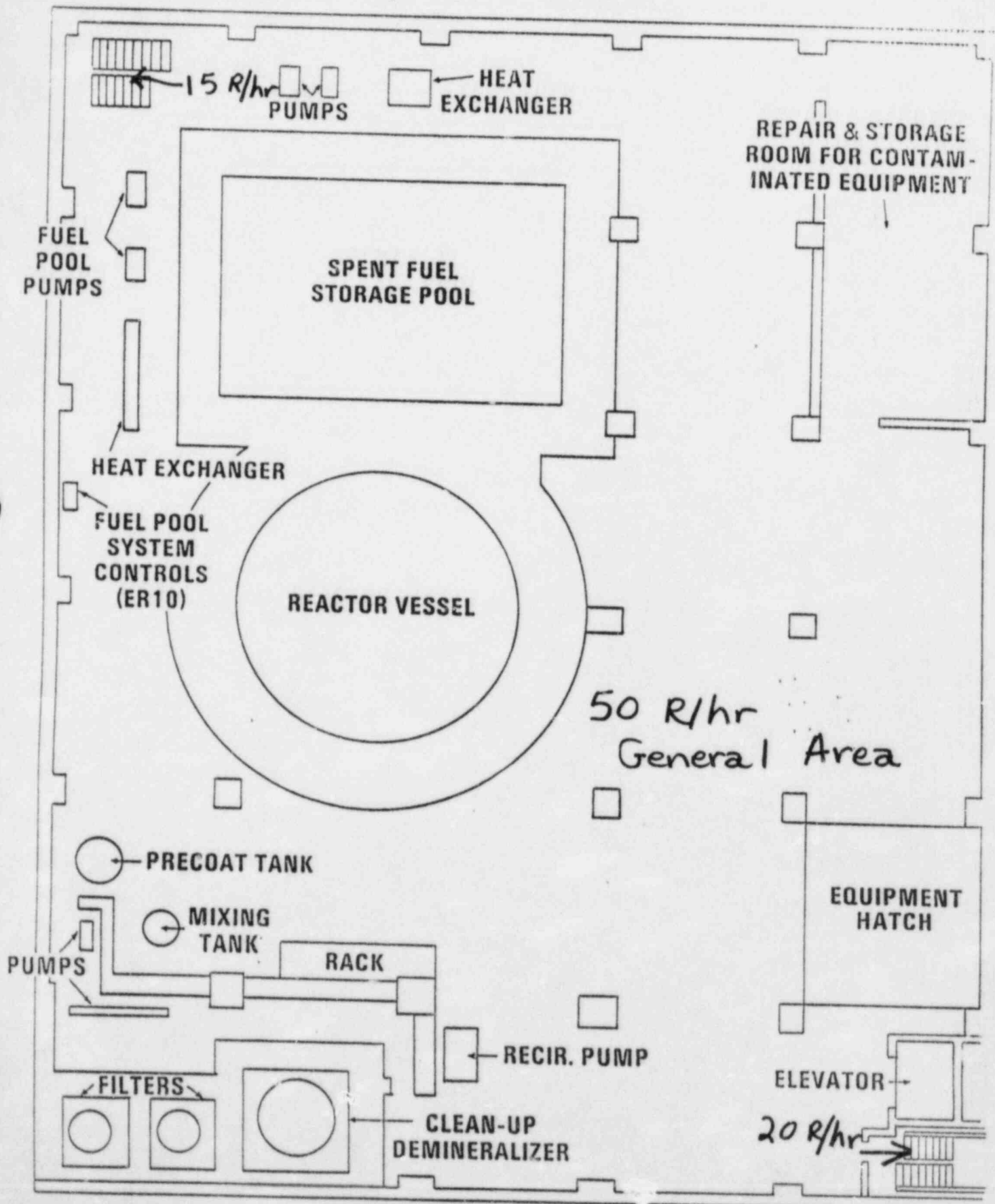
to
Termination

Air Sample Gross Activity=
6.0 E-09 microcuries/cc

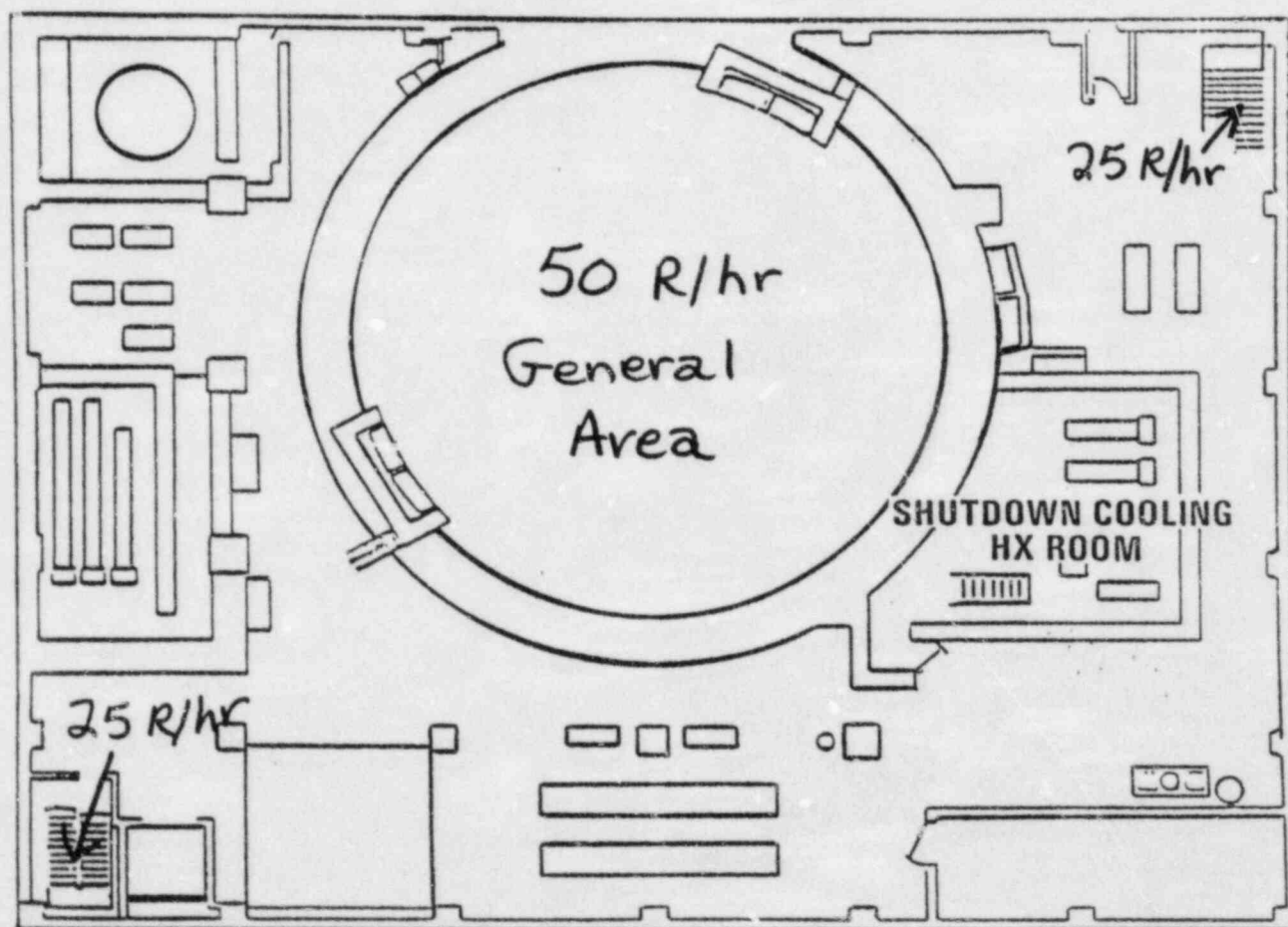


to
Termination

Augmented Fuel Pool Cooling System

Air Sample Gross Activity=
6.0 E-09 microcuries/cc

75' Elev. Rm. Bldg

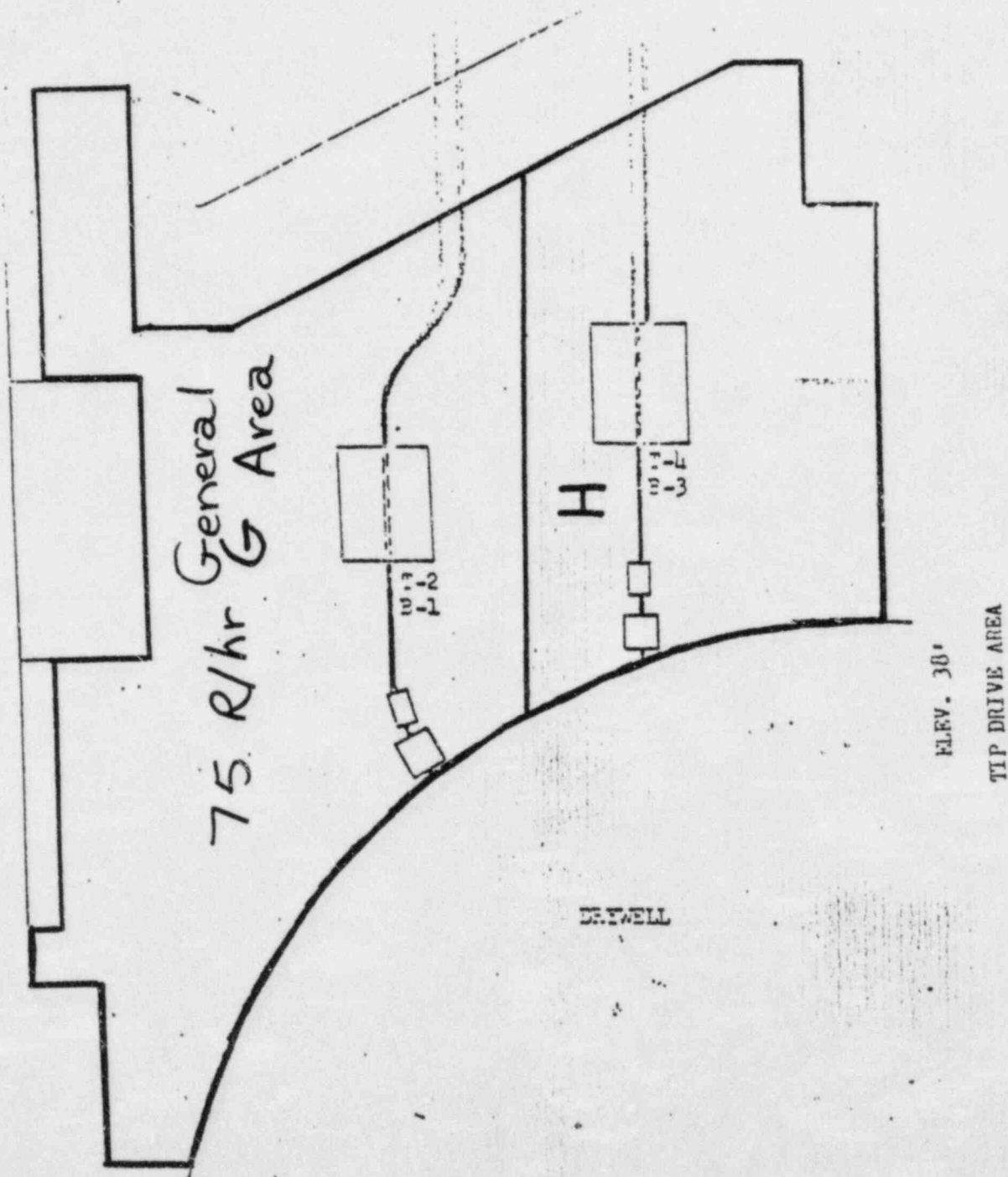
to
TerminationAir Sample Gross Activity=
5.0 E-09 microcuries/cc**51' ELEVATION**

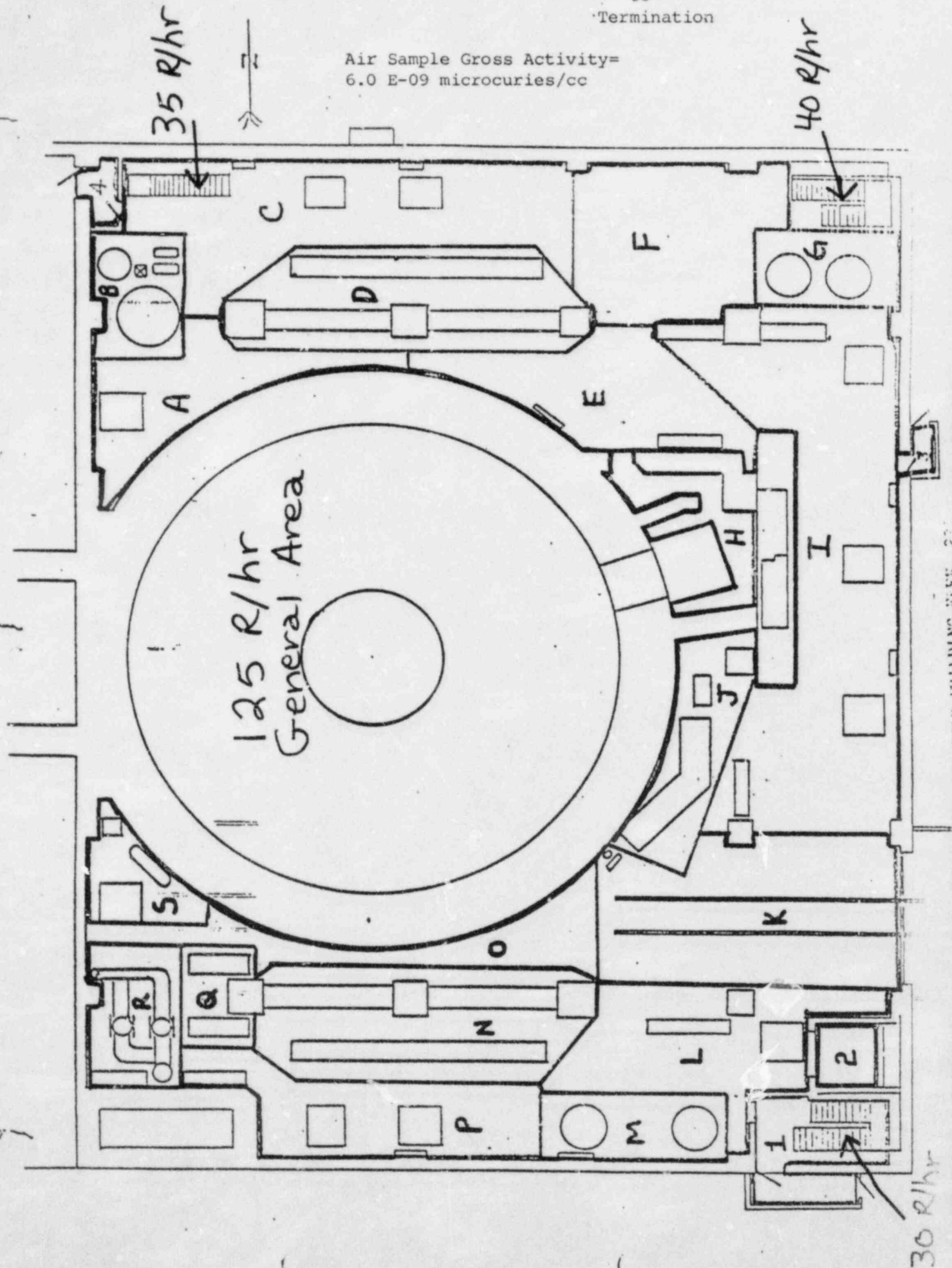
ATTACHMENT B-5

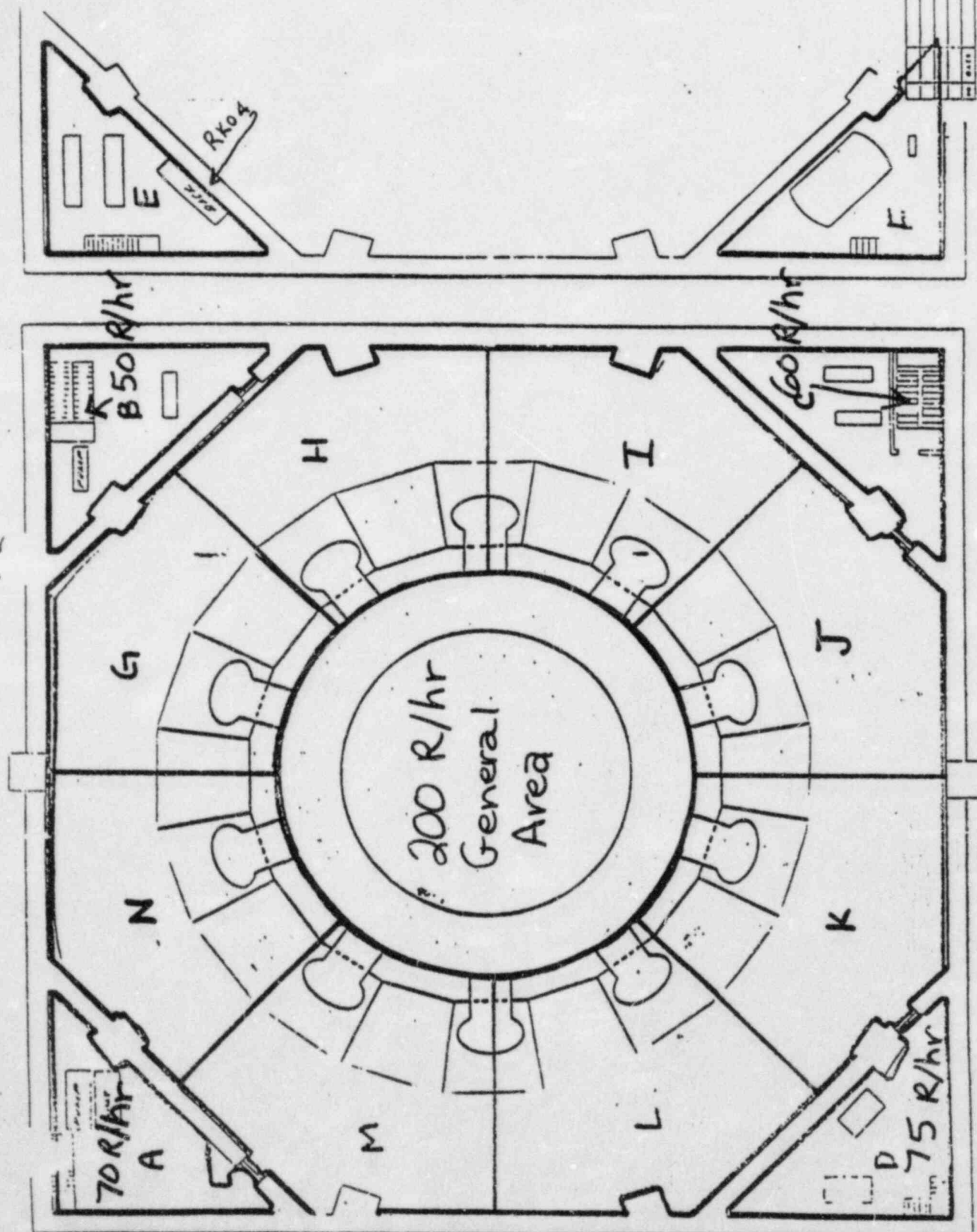
T=360 10:00 P.M.

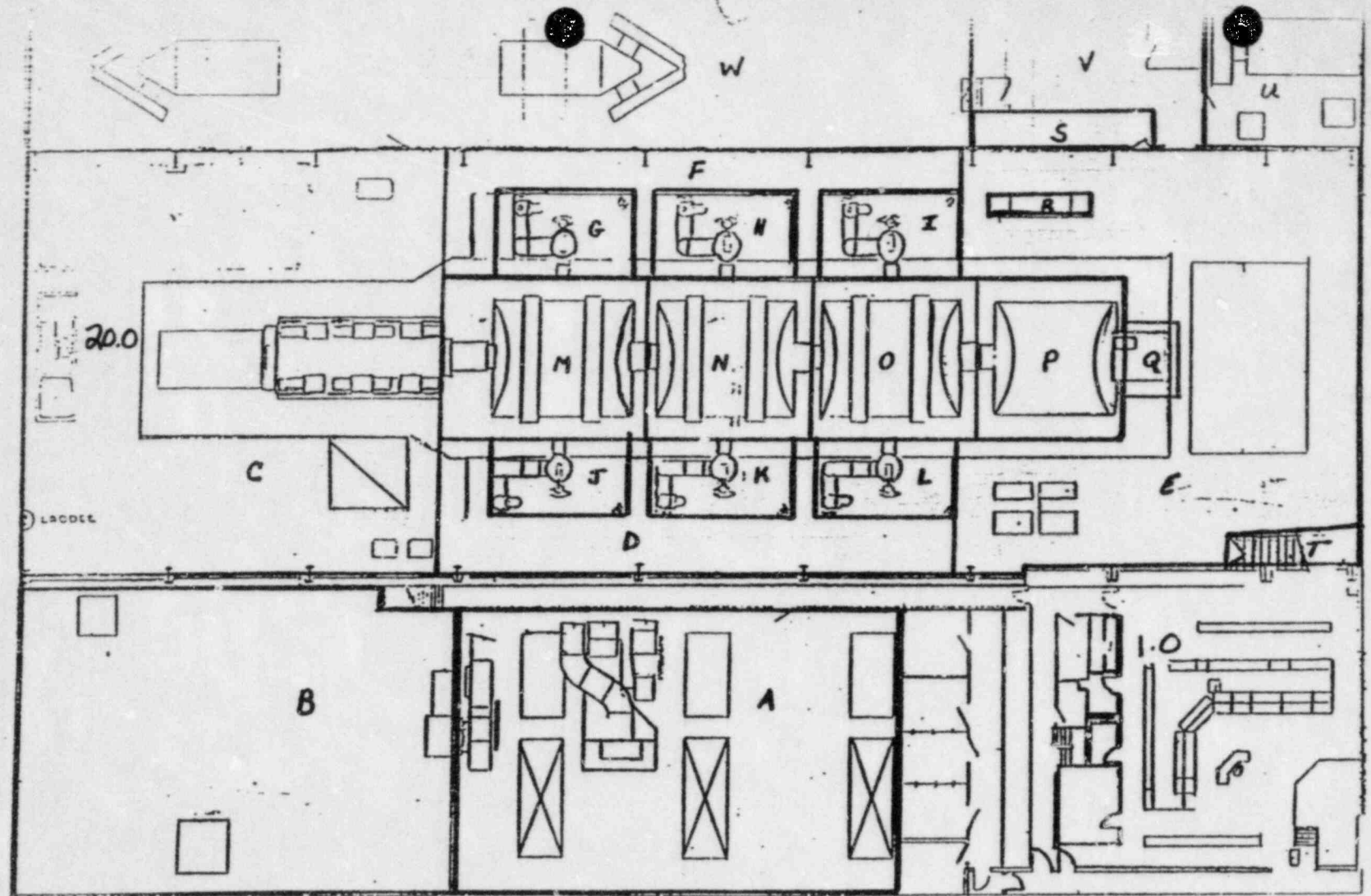
to
Termination

Air Sample Gross Activity=
6.0 E-09 microcuries/cc



to
TerminationAir Sample Gross Activity=
6.0 E-09 microcuries/cc

[illegible]



OPERATING FLOOR

Readings in mR/hr

20.0

Air Sample Gross Activity=
As Found

T=360
to
Termination
10:00 P.M.

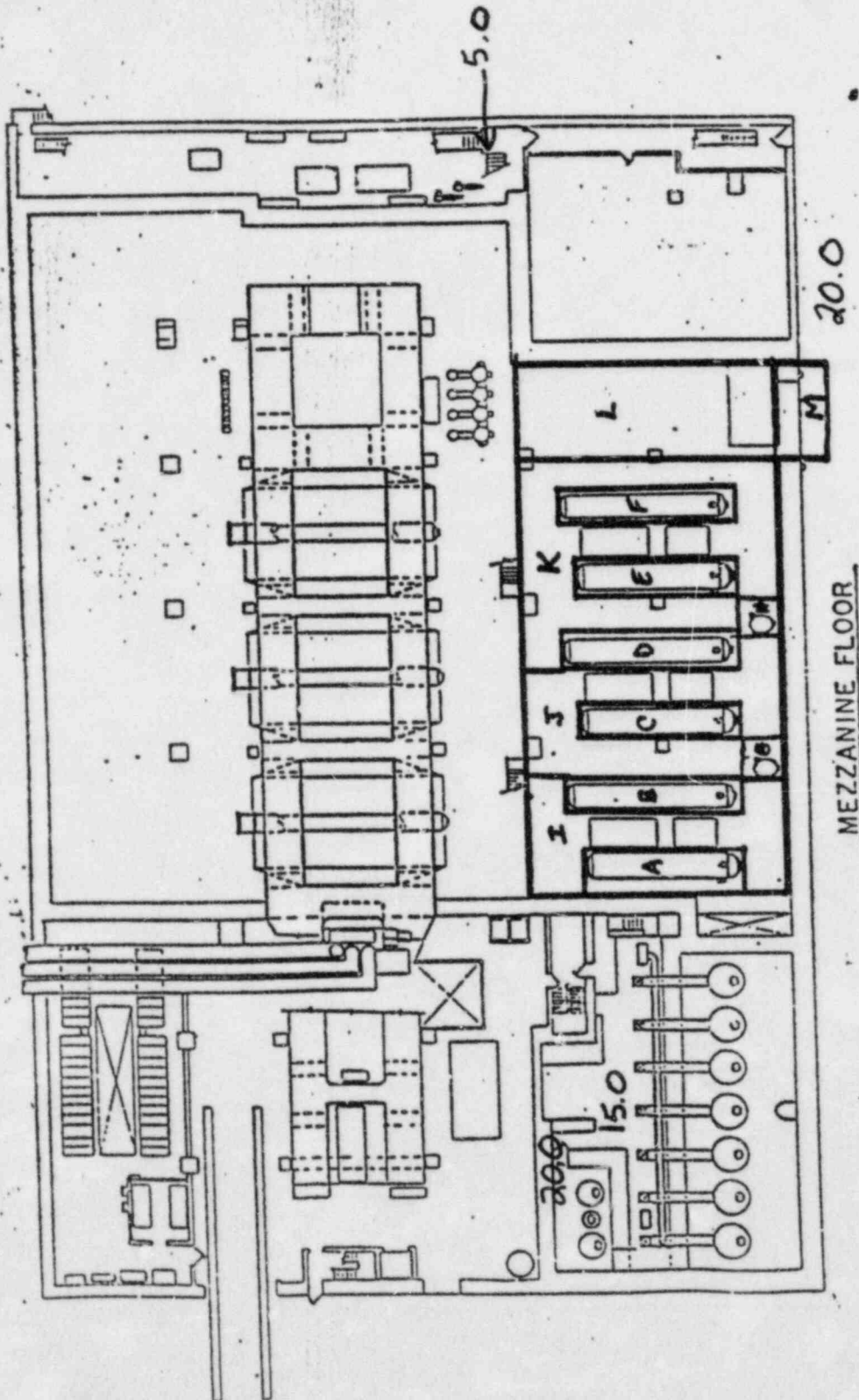
DATE	REVISION
FOR	
MODIFICATION	
SYSTEM CABLE MODIFICATION	
TURBINE BUILDING	
TURBINE OPERATOR	
DRAWN BY	

ATTACHMENT B-5

to
Termination

Air Sample Gross Activity= *As Found*

DATE	8/10/26
TIME	10:15
LOCATION	10:15
REMARKS	10:15
INITIALS	10:15
SIGNATURE	10:15
OFFICE	10:15
TELEPHONE	10:15

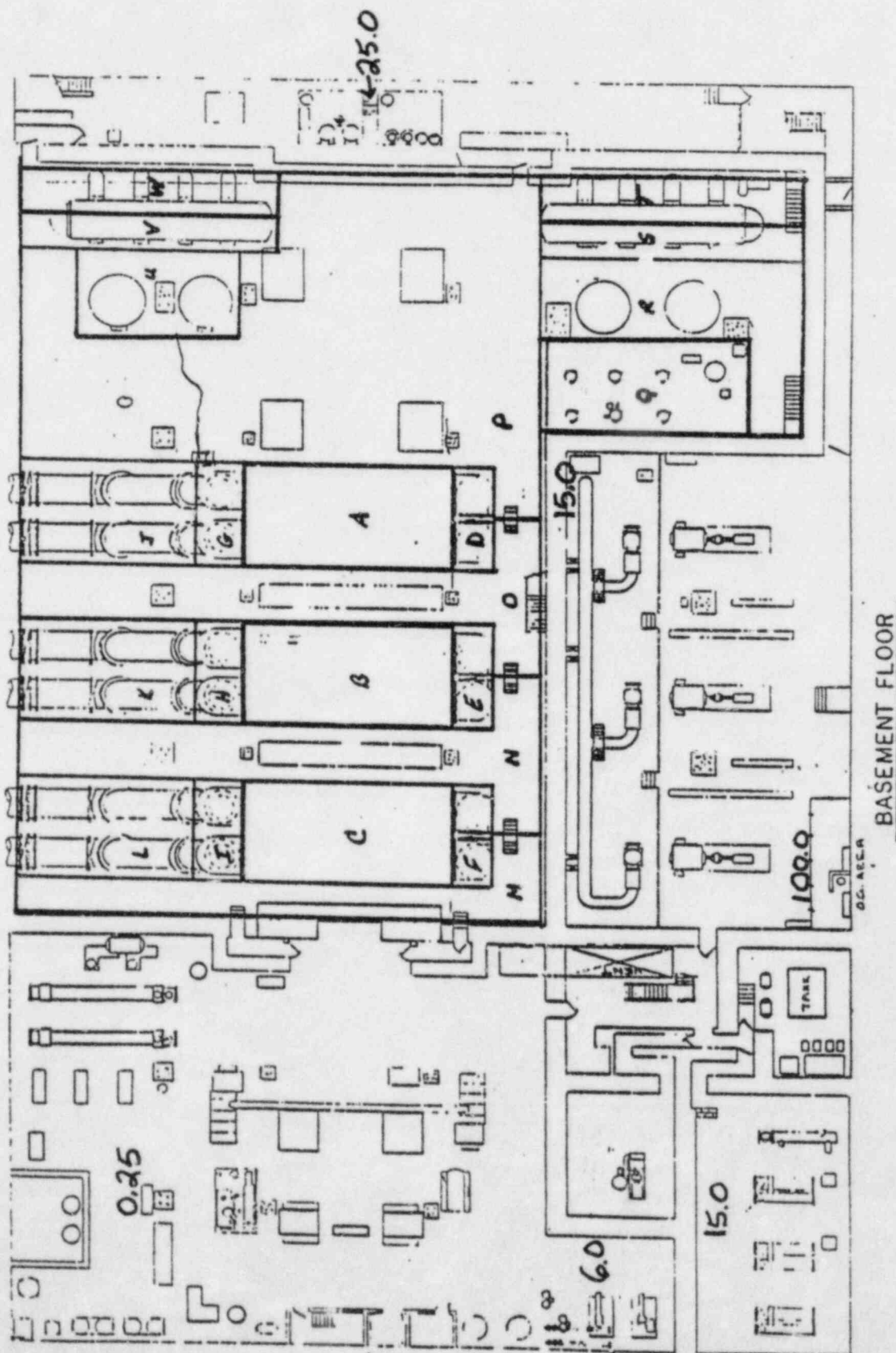


Readings in mR/hr

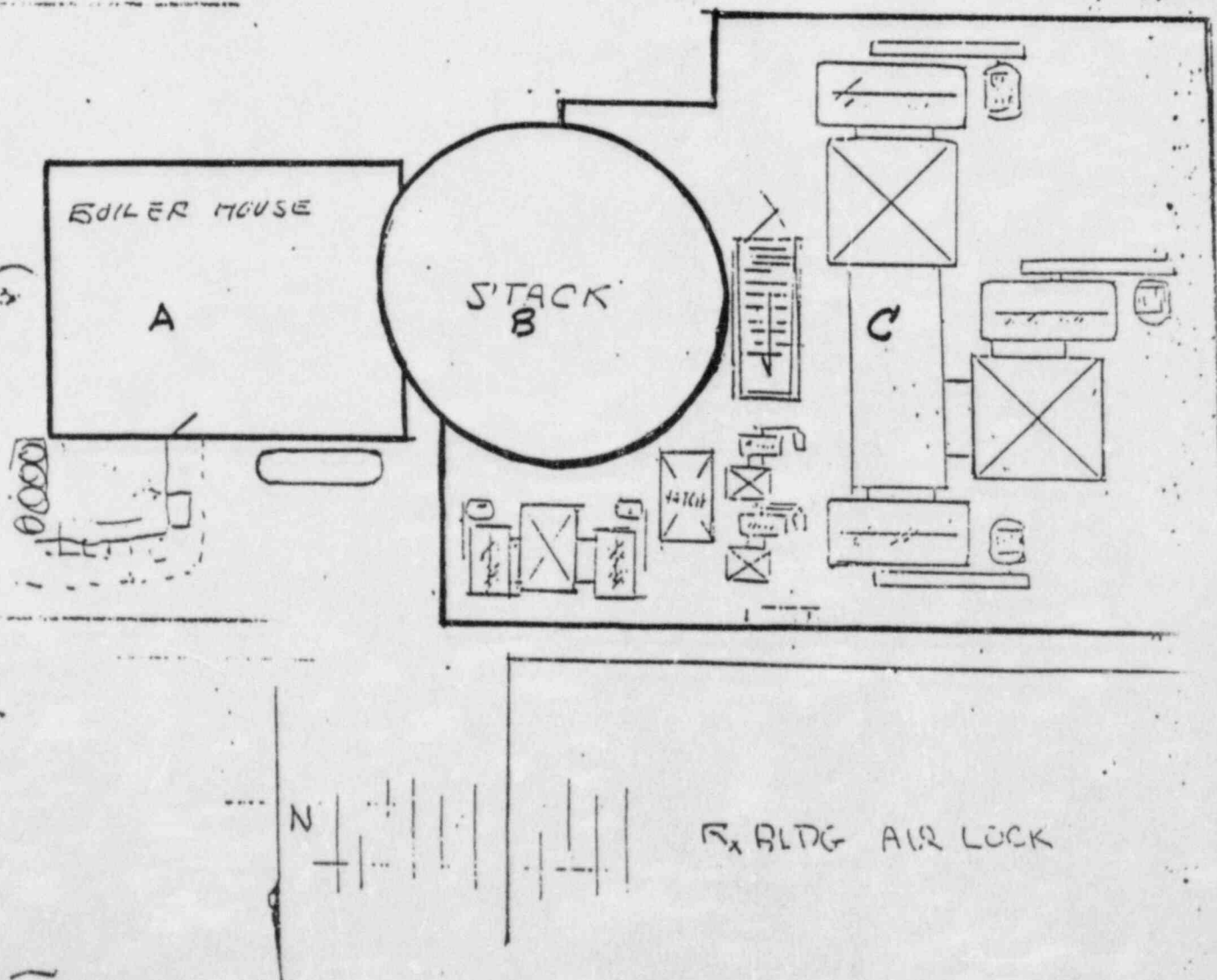
to

Termination

"Air Sample Gross Activity= *As Found*



Readings in mR/hr

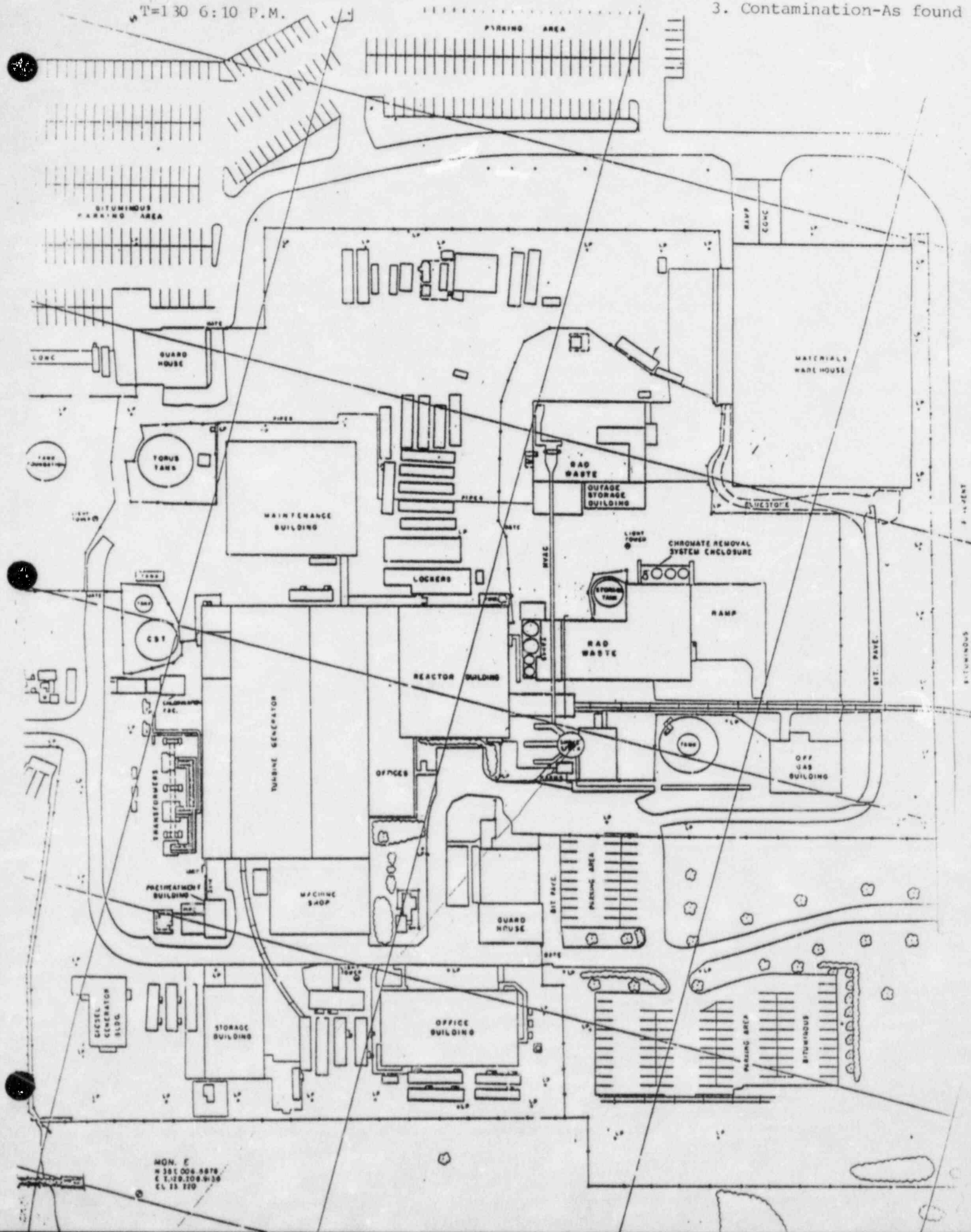
to
TerminationAir Sample Gross Activity= *N.A.**As Found*

OCNGS
ANNUAL EXERCISE
1984

ATTACHMENT B-6

ONSITE SURVEY MAPS

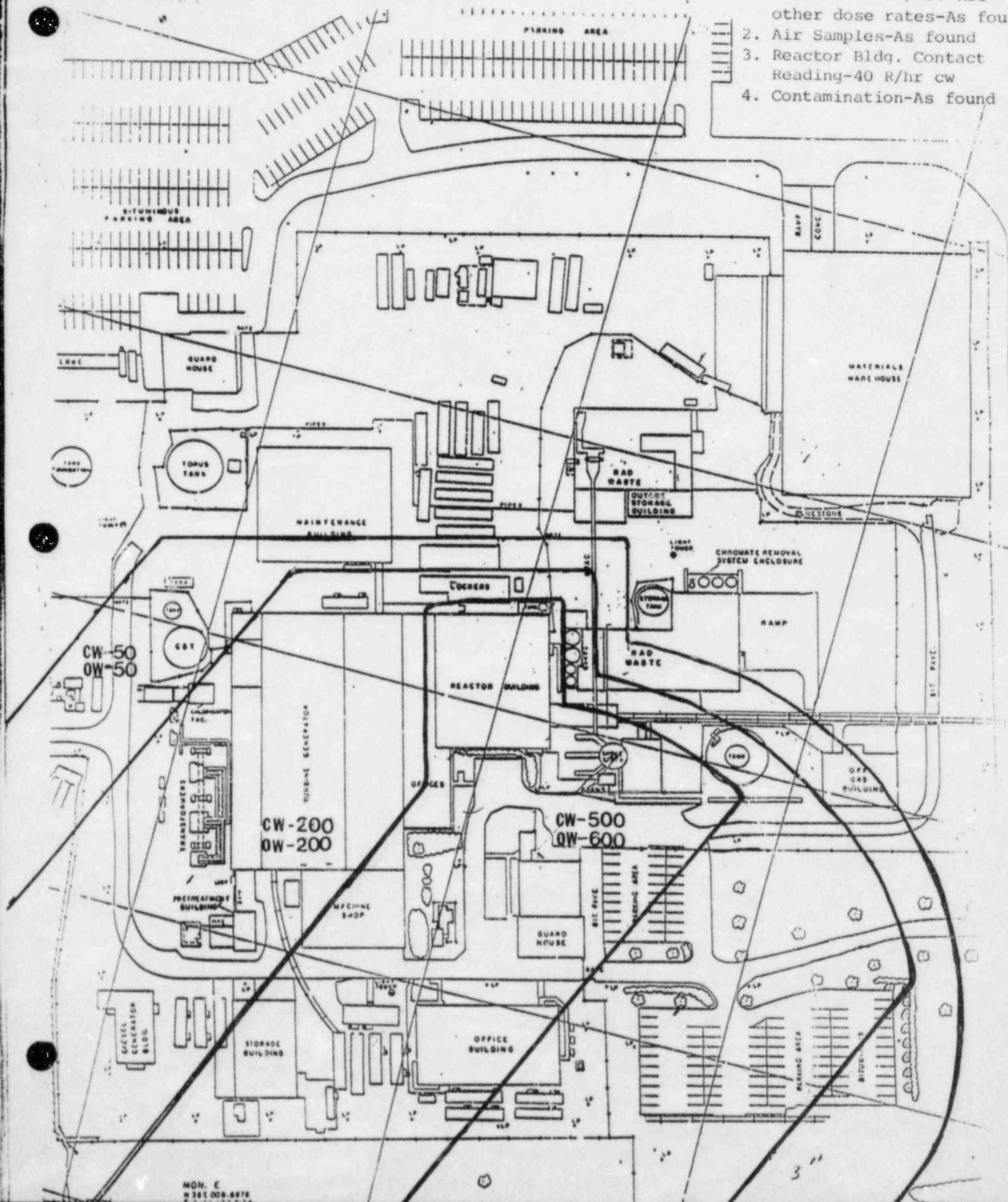
1. Dose Rates-As found
2. Air Samples-As found
3. Contamination-As found



T=130 6:10 P.M.
to
T=245 8:05 P.M.

ATTACHMENT B-6 ONSITE SURVEY MAPS

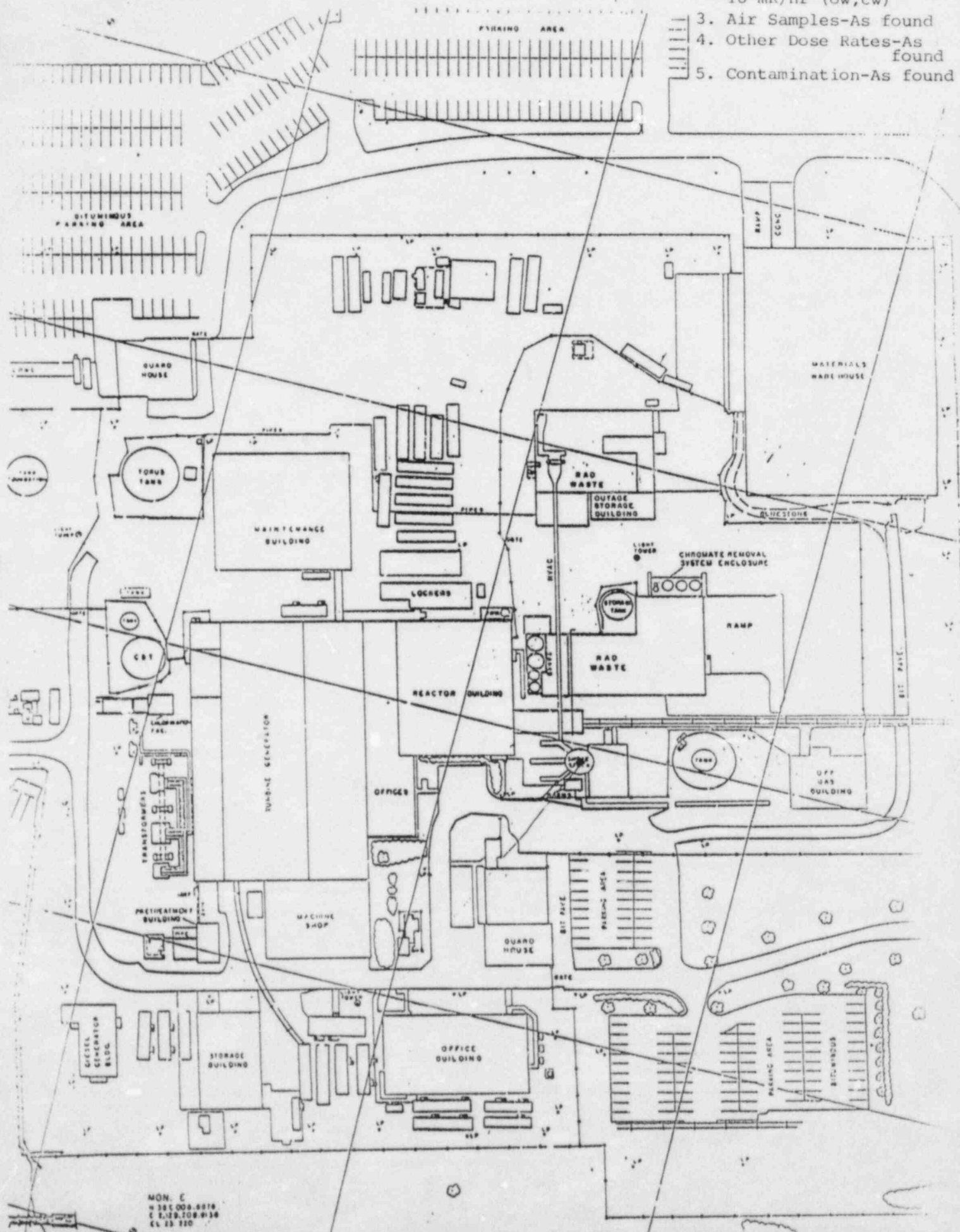
1. Closed window (cw) and open window (ow) dose rates in mRem/hr. All other dose rates-As found
2. Air Samples-As found
3. Reactor Bldg. Contact Reading-40 R/hr cw
4. Contamination-As found



T=246 8:06 P.M.
to
T=255 8:15 P.M.

ATTACHMENT B-6
ONSITE SURVEY MAPS

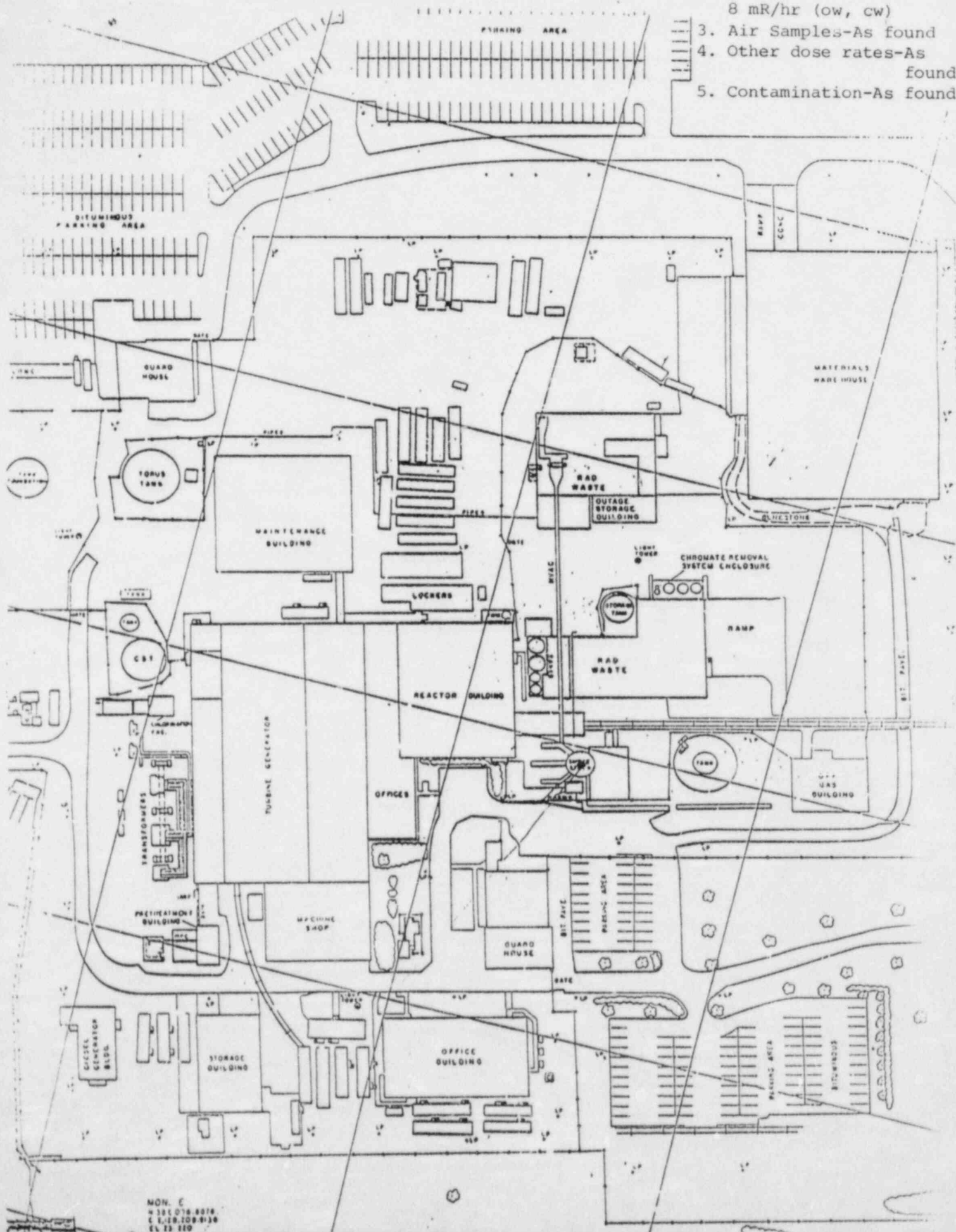
1. Reactor Bldg. Contact
Reading-1.0 r/hr (ow, cw)
2. 10ft. from Reactor Bldg.
10 mR/hr (ow, cw)
3. Air Samples-As found
4. Other Dose Rates-As
found
5. Contamination-As found



T=256 8:16 P.M.
to
T=270 8:30 P.M.

ATTACHMENT B-6 ONSITE SURVEY MAPS

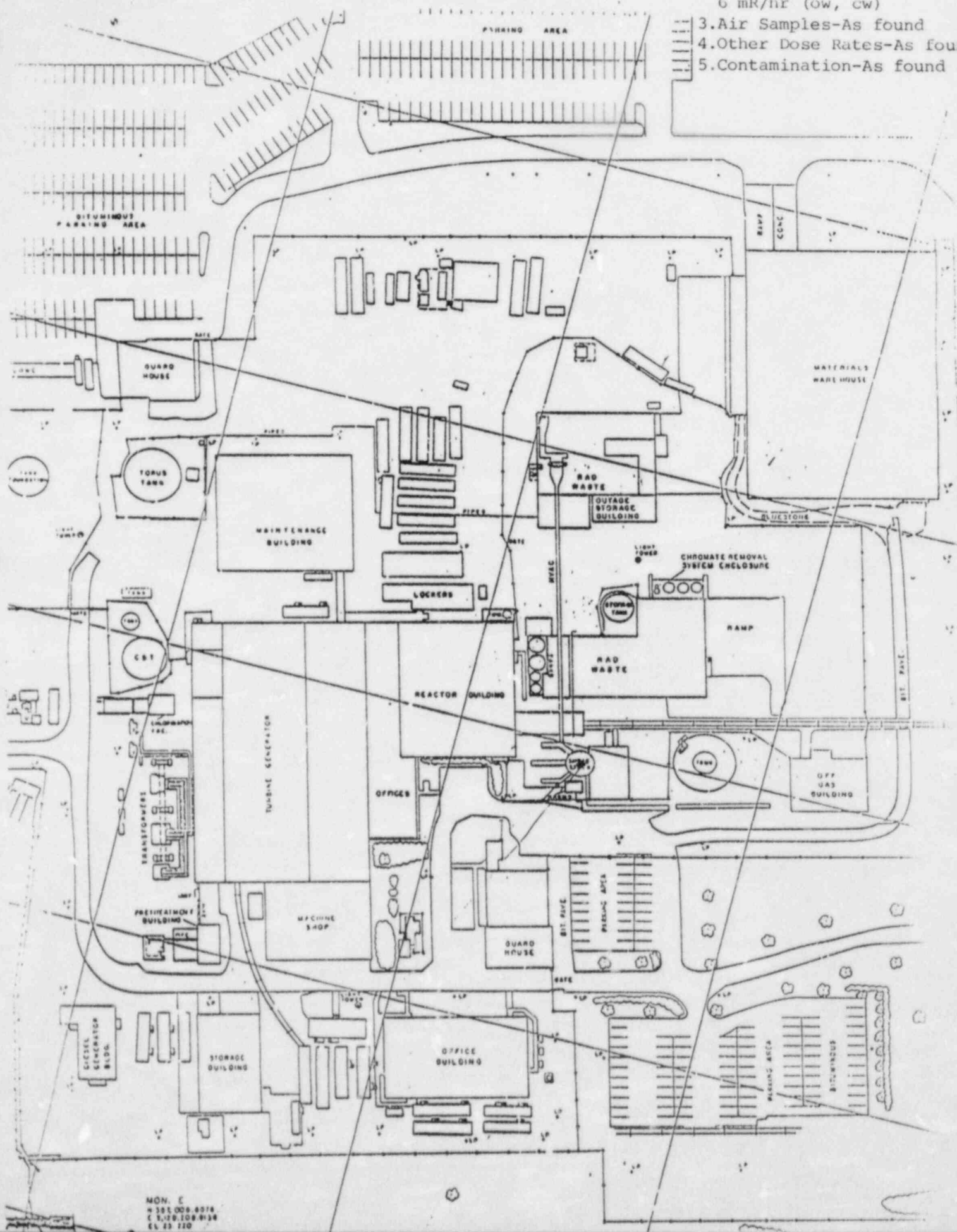
1. Reactor Bldg. Contact
Reading-800 mR/hr (ow, cw)
2. 10 ft. from Reactor Bldg
8 mR/hr (ow, cw)
3. Air Samples-As found
4. Other dose rates-As
found
5. Contamination-As found



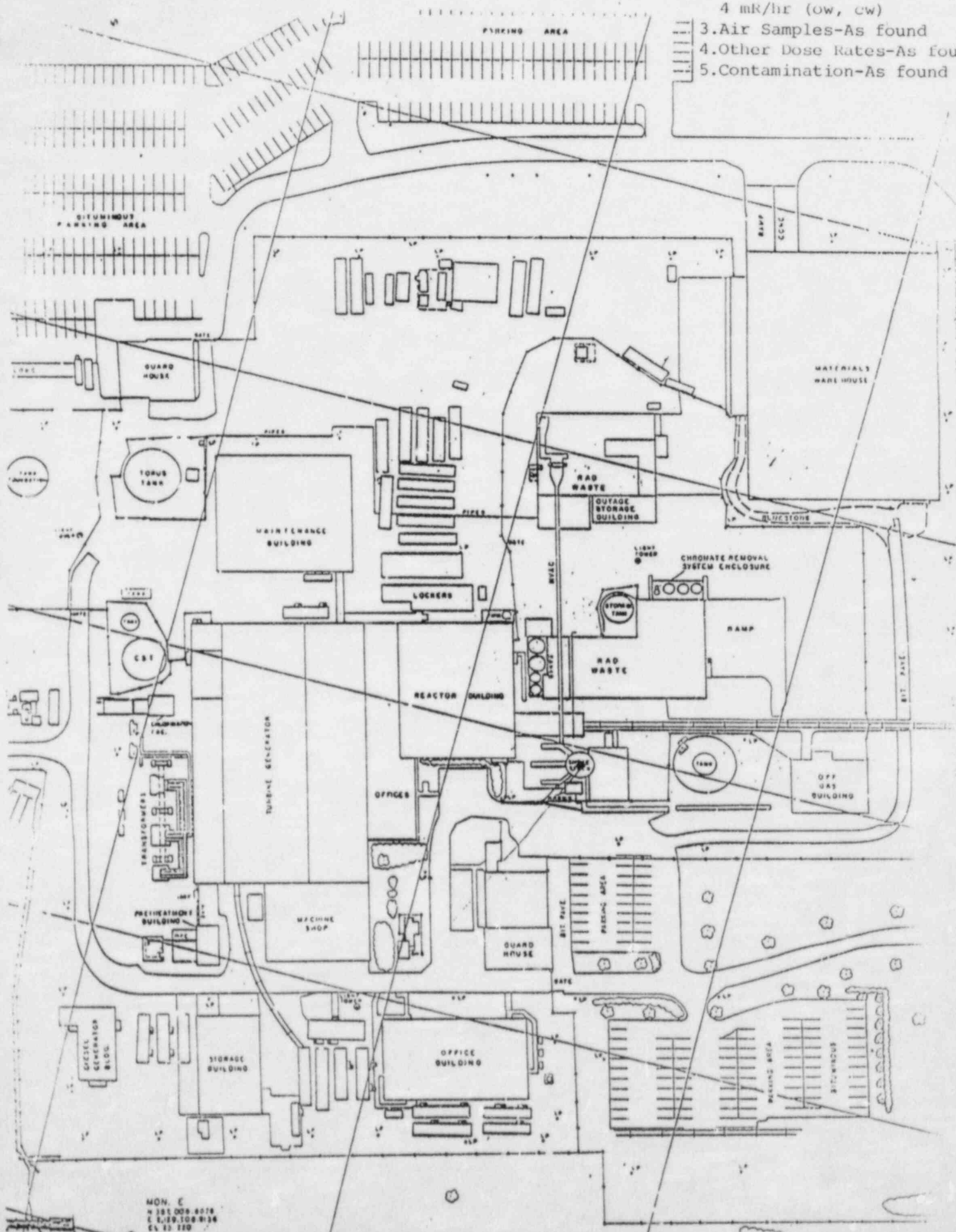
T=271 8:31 P.M.
 TO
 T=300 9:00 P.M.

ATTACHMENT B-6
 ONSITE SURVEY MAPS

1. Reactor Bldg. Contact
 Reading-600 mR/hr (ow, cw)
2. 10 ft. from Reactor Bldg.
 6 mR/hr (ow, cw)
3. Air Samples-As found
4. Other Dose Rates-As found
5. Contamination-As found



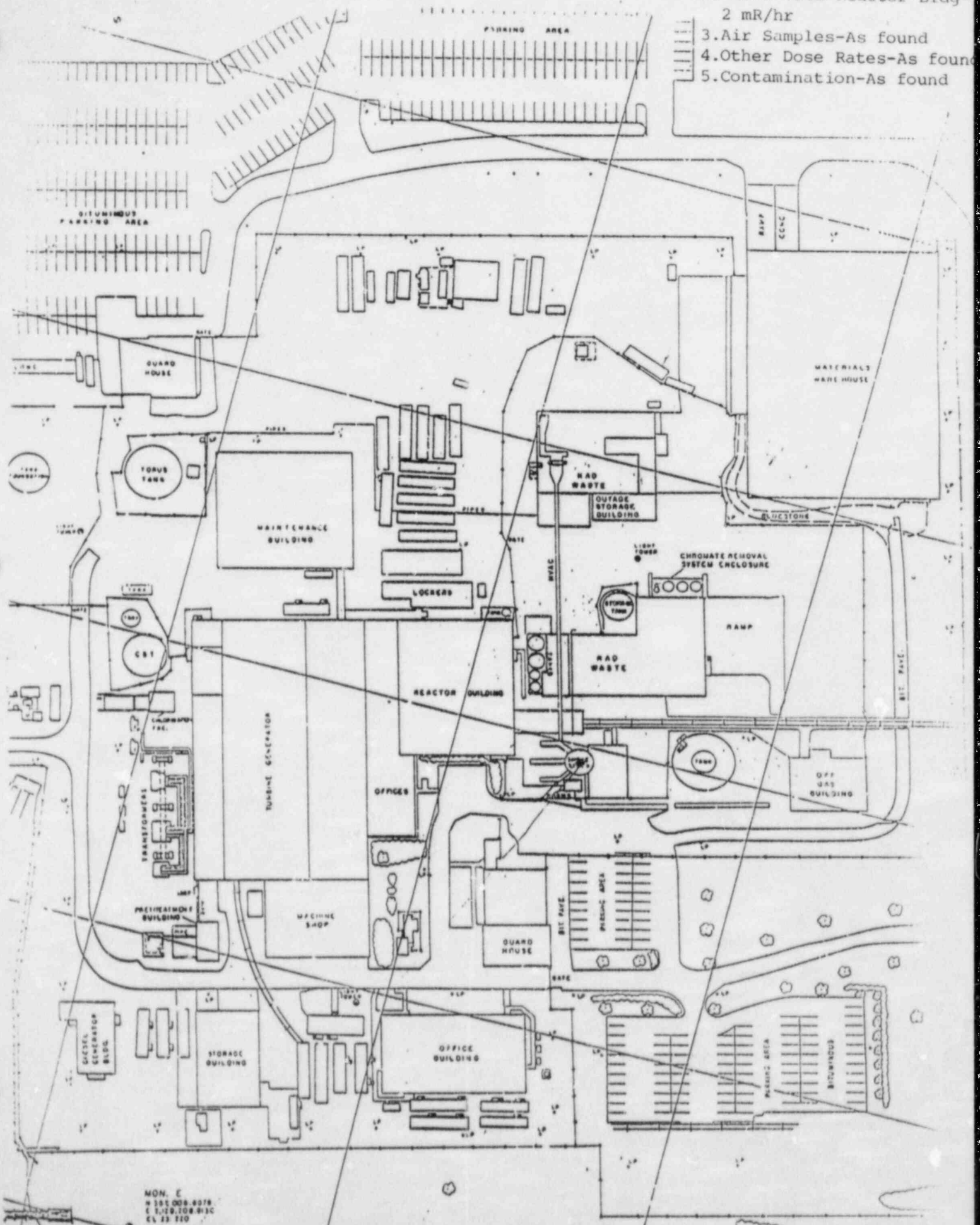
1. Reactor Bldg. Contact
Reading-400 mR/hr (ow, cw)
2. 10 ft. from Reactor Bldg.
4 mR/hr (ow, cw)
3. Air Samples-As found
4. Other Dose Rates-As found
5. Contamination-As found



T=361 10:01 P.M.
to
Termination

ATTACHMENT B-6
ONSITE SURVEY MAPS

1. Reactor Bldg. Contact
Reading-200 mR/hr (ow, cw)
2. 10ft. from Reactor Bldg-
2 mR/hr
3. Air Samples-As found
4. Other Dose Rates-As found
5. Contamination-As found



ATTACHMENT B-7
PRE-POSITIONED EXTRA EQUIPMENT

- A. Five (5) sets of SCBA's will be prepositioned at the Monitor and Change Area.

ATTACHMENT B-8
CHEMISTRY SAMPLE DATA

1. Drywell Sump Samples Until Scram (6:05 P.M.)
5.0 E - 02 μ Ci/cc Gross Activity/Total Iodine
2. Drywell Ring Header Sample Until Scram (6:05 P.M.)
9 E - 09 μ Ci/cc
3. Reactor Coolant Sample Before Scram (6:05 P.M.)
6.4 E - 01 μ Ci/cc Gross Activity/Total Iodine

<u>Hours</u>	<u>After Scram (Activity in μCi/ml)</u>		
	<u>1</u>	<u>2</u>	<u>3</u>
Iodine	2.0 E + 4	8.0 E + 4	1.0 E + 04
Gross Activity	6.0 E + 4	4.0 E + 04	3.2 E + 04

OCNGS
ANNUAL EXERCISE
1984

ATTACHMENT B-9

MESSAGE CARDS

T=15
4:15 PM

ANNUNCIATOR			H	LAYOUT	NSSS	
CONTROL RODS / DRIVES			REACTOR			
ROD CNTRL	SDV	HYDR	PRESS	LEVEL	PRESS	
1 CONTROL AIR PRESS LO	SDV LEVEL HI-HI I	PUMP A OL	DW PRESS (CI) HI-HI I	(CCW) RX LVL LO-LO-I	RX PRESS HI-HI I	1
2 SCRAM CONTACTOR OPEN	SDV LEVEL HI-HI II	PUMP B OL	DW PRESS (CI) HI-HI II	(CCW) RX LVL LO-LO-II	RX PRESS HI-HI II	2
3 RPS MG SET 1 TRIP	NORTH SDV LEVEL HI ROD BLOCK	SUCT PRESS LO PUMP TRIP		(RXI) RX LVL LO-LO-I (CI)	RX PRESS HI	3
4 RPS MG SET 2 TRIP	SOUTH SDV LEVEL HI ROD BLOCK	FILTER Δ P HI		(RXI) RX LVL LO-LO-II (CI)		4
5 ROD OVERTRAVEL	SDV NOT DRAINED		EXAMPLE	RX LVL LO I		5
6 ROD DRIFT	SDV HI-HI LEVEL SCRAM BYPASS			RX LVL LO II		6
7 ROD BLOCK		CHARG WTR PRESS LO		RX LVL HI/LO		7
8 RPS TRIP BYPASS		ACCUMULATOR PRESS LO/LEVEL HI				8
a	b	c	d	e	f	

T=20
4:20 PM

LAYOUT

ANNUNCIATOR

C

ISOL COND		RB CCW	SHUT DN CLG	TORUS / DRYWELL			
LOGIC TRAIN I ACTUATED					DM PRESS HI-HI I		
AND LOGIC TRAIN II ACTUATED			PUMP A TRIP		DM PRESS HI-HI II		
COND A FLOW HI POSSIBLE RUPTURE	COND B FLOW HI POSSIBLE RUPTURE	RB COM (CCW) ISOL	PUMP B TRIP			H2 COMP FAIL	DM SUMP HI LEAK
		PUMP 1-1 TRIP	PUMP C TRIP	TORUS VAC HI	TORUS/DM 1 VAC BRKR OPN	LTO H2 TANK LEVEL LO	DM SUMP VLV CLOSED
COND A DISABLED	COND B DISABLED	SURGE TANK LVL HI/LO		RB/TORUS VAC BRKR OPN	TORUS/DM 2 VAC BRKR OPN	H2 PURGE VLV OPEN	DM CTRL AIR FLOW HI
SHELL A LVL HI/LO	SHELL B LVL HI/LO	CHEM ADD TANK LVL LO		TORUS LEVEL HI/LO	TORUS/DM H2 HI	DM VENT VLV OPEN	DM CTRL AIR ISOLATED
	RETN PIPE TEMP HI		ISOL VALVES OPEN	TORUS TEMP HI-HI	TORUS/DM O2 HI	VENT/PURGE ISOL BYPASS	DM CTRL AIR ISOL BYPASS
COND A/B VLVS CLOSED	COND AREA TEMP HI	CCW/SD CLG/ FUEL POOL TEMP HI	SD HX PUMP RM TEMP HI	TORUS TEMP HI	H2/O2 SYS TROUBLE		MISC DM TEMP HI

a

b

c

d

e

f

g

h

T-90
5:30 PM

ANNUNCIATOR			LAYOUT	
AUX XFMR	STARTUP XFMR		4160V STATION POWER	
	S1A	S1B	BUS A	
	LKOUT RELAY 86/SA TRIP	LKOUT RELAY 86/SB TRIP	MM BKCR A TRIP	SU BKCR A TRIP
			MM BKCR A OL TRIP	SU BKCR A OL/TRIP BKCR PERM OPN
			BUS A OV	SU BKCR A OFF NORMAL
			BUS A UV	
			BUS A CNTRL DC LOST	
				FDR TO 480V A1 TRIP
				FDR TO 480V A2 TRIP
				FDR TO 480V A3 TRIP

T=95
5:35 PM

ANNUNCIATOR

LAYOUT

T

4160V
STATION
POWER

BUS C		BUS B		BUS D		EDG 2	
1	MN BRKR C TRIP	MN BRKR B TRIP	SU BRKR B TRIP	MN BRKR D TRIP	MN BRKR D TRIP	LKOUT RELAY TRIP	1
2	MN BRKR C OL TRIP	MN BRKR B OL TRIP	SU BRKR B OL TRIP / BRKR PERM OPEN	MN BRKR D OL TRIP	MN BRKR D OL TRIP	CNTRL DC LO/LOST	2
3	BUS C VOLTS LO	BUS B OV	SU BRKR B OFF NORMAL	BUS D VOLTS LO	BUS D VOLTS LO	EDG 2 OV/GND	3
4	BUS C VOLTS LO-LO (UV)	BUS B UV		BUS D VOLTS LO-LO (UV)	BUS D VOLTS LO-LO (UV)		4
5	BUS C CNTRL DC LOST	BUS B CNTRL DC LOST		BUS D CNTRL DC LOST	BUS D CNTRL DC LOST	EDG 2 NOT IN AUTO	5
6	C&D SMGR RM H&V LOST		FDR TO 480V B1 TRIP				6
7	TIE BRKR EC TRIP		FDR TO 480V B2 TRIP	TIE BRKR ED TRIP	TIE BRKR ED TRIP	EDG 2 DAY TNK LVL HI/LO	7
8	TIE BRKR EC CLOSED	NORM/EMERG PWR INTLK DC LOST	FDR TO 480V B3 TRIP	TIE BRKR ED CLOSED	TIE BRKR ED CLOSED		8
a		b		c		d	
				e		f	

T=100

LAYOUT 5:40 PM

ANNUNCIATOR

C

ISOL		COND	RB	CCW	SHUT	TORUS / DRYWELL	
LOGIC TRAIN I ACTUATED	LOGIC TRAIN II ACTUATED					DM PRESS HI-HI I AND DM PRESS HI-HI II	DM PRESS HI-HI I
COND A FLOW HI POSSIBLE RUPTURE	COND B FLOW HI POSSIBLE RUPTURE	PUMP 1-1 TRIP	PUMP 1-2 TRIP	RB CCM ISOL (CCW)	PUMP A TRIP	DM PRESS HI-LO	DM SUMP HI LEAK
COND A DISABLED	COND B DISABLED	SURGE TANK LVL HI/LO	CHEN ADD TANK LVL LO		PUMP C TRIP	TORUS/DW 1 VAC BRKR OPN	DM SUMP VLV CLOSED
SHELL A LVL HI/LO	SHELL B LVL HI/LO	RETN PIPE TEMP HI	COND AREA TEMP HI	CCW/SD CLG/ FUEL POOL TEMP HI	ISOL VALVES OPEN	TORUS/DW H2 HI	DM CNTRL AIR ISOLATED
COND A/B VLVS CLOSED	COND A/B VLVS CLOSED	COND AREA TEMP HI	COND AREA TEMP HI	COND AREA TEMP HI	SD HX PUMP RM TEMP HI	TORUS/DW H2 HI	DM CNTRL AIR ISOL BYPASS
						H2/O2 SYS TROUBLE	MISC DM TEMP HI

a b c d e f g h

T = 10.2
5:40 PM

LAYOUT

ANNUNCIATOR

CLEANUP SYSTEM

RX
WTQ
C.O.M.B.U.C.T

	a	b	c	d	e	f
1						
2		DISCH PRESS LO	DEMIN CONDUCT HI		RX WATER CONDUCT HI-HI	
3		CU RCP A OL/TRIP	DEMIN STRIP Δ P HI	PRECOAT TANK LEVEL HI	RX WATER CONDUCT HI	
4		CU RCP B OL/TRIP	DEMIN Δ P HI	PRECOAT TANK LEVEL LO		
5		SUCT PRESS LO	CU FLOW LO	BACKWASH TANK LVL HI/LO		
6	AUX PUMP TRIP	PRECOAT TANK LEVEL LO	FILTER Δ P HI	FILTER SLDG RCVR LVL HI		
7	AUX PUMP SUCT PRESS HI	PRV DISCH PRESS HI	FILTER FLOW LO			
8	AUX PUMP CCW TEMP HI	NONHX OUTLET TEMP HI		CU ROOM TEMP HI		

T=100
5:40 PM

LAYOUT

ANNUNCIATOR

RX RECIRC PUMPS / DRIVES		PUMP NG01A		PUMP NG01B	
ATWOS RX RECIRC PUMP TRIP		MG NG13A		MG NG12A	
ACTUATE A AND ACTUATE B	ACTUATE C AND ACTUATE D	DRV MOT BRKR TRIP	PUMP Δ P LO	DRV MOT BRKR TRIP	PUMP Δ P LO
TEST	TEST	DRV MOT BRKR LOCKOUT	VIBRATION H7	DRV MOT BRKR LOCKOUT	
		MG OL	No.1 SEAL FLOW HI	MG OL	No.1 SEAL FLOW HI
		SPEED CNTRL LOST	No.1 SEAL FLOW LO	SPEED CNTRL LOST	No.1 SEAL FLOW LO
RCP/MG MDG TEMP HI			No.2 SEAL FLOW HI		No.2 SEAL FLOW HI
MG BRG OIL TEMP HI			OIL LEVEL HI/LO		OIL LEVEL HI/LO
MG BRG TEMP HI	CCW TEMP HI		CCW FLOW LO		CCW FLOW LO

a b c d e f

LAYOUT

ANNUNCIATOR

F

RX RECIRC PUMPS /
DRIVES

PUMP NG01C				PUMP NG01D				PUMP NG01E			
HG NG13B				HG NG12B				HG NG13C			
1	DRV MOT BRKR TRIP C	PUMP Δ P LO C		1	DRV MOT BRKR TRIP D	PUMP Δ P LO D		1	DRV MOT BRKR TRIP E	PUMP Δ P LO E	
2	DRV MOT BRKR LOCKOUT C	VIBRATION HI C		2	DRV MOT BRKR LOCKOUT D	VIBRATION HI D		2	DRV MOT BRKR LOCKOUT E	VIBRATION HI E	
3	HG OL C	No. 1 SEAL FLOW HI C		3	HG OL D	No. 1 SEAL FLOW HI D		3	HG OL E	No. 1 SEAL FLOW HI E	
4	SPEED CNTRL LOST C	No. 1 SEAL FLOW LO C		4	SPEED CNTRL LOST D	No. 1 SEAL FLOW LO D		4	SPEED CNTRL LOST E	No. 1 SEAL FLOW LO E	
5		No. 2 SEAL FLOW HI C		5		No. 2 SEAL FLOW HI D		5		No. 2 SEAL FLOW HI E	
6		OIL LEVEL HI/LO C		6		OIL LEVEL HI/LO D		6		OIL LEVEL HI/LO E	
7		CCW FLOW LO C		7		CCW FLOW LO D		7		CCW FLOW LO E	
8				8				8			
a				b				c			
				d				e			
								f			

T=100
5:40 PM

T=100
5:40 PM

ANNUNCIATOR Q LAYOUT				BOP			
TURBINE				T B C C W			
CNTRL	MECH	VAC/SEALS	SJAE	1	2	3	4
STOP VLVS CLOSED		COND VAC TRIP 2 10 INCHES	SJAE ROOM H2 HI-HI	DISCH PRESS LO	PUMP AUTO START	PUMP 1 TRIP	PUMP 2 TRIP
TRIP SOL 1 DC LOST	THRUST BRG WEAR HI	COND VAC TRIP 1 22 INCHES	SJAE ROOM H2 HI				PUMP 3 TRIP
TRIP SOL 2 DC LOST		COND VAC LO 25 INCHES					SURGE TANK LVL HI/LO
PANEL 7F PAR LOST	SHELL ROTOR DIFF EXP HI	COND VAC PUMP TRIP					
PANEL 13R PAR LOST		EXH HOOD TEMP HI	SJAE STM PRESS HI/LO				
EPR PAR LOST	BRG TEMP HI						
EPR FILTER P HI		STM SEAL PRESS LO	SJAE DRN TNK LVL HI				
25% LOAD TRIP NOT RESET		EXHAUSTER TRIP	SJAE DRN TNK LVL LO				CHEM ADD TNK LVL LO
a	b	c	d	e	f		

T=100
5:40 PM

BOP ANNUNCIATOR J LAYOUT

M A I N S T E A M				F E E D P U M P S			
1	2	3	4	5	6	7	8
MSIV CLOSED I	MSIV CLOSED II	COND VAC LO/ TURB TRIP I	COND VAC LO/ TURB TRIP II	FEED PUMP TRIP A	FEED PUMP TRIP B	FEED PUMP TRIP C	
AND MSIV CLOSED II	AND MSIV CLOSED II	AND COND VAC LO/ TURB TRIP II	AND COND VAC LO/ TURB TRIP II	FEED PUMP OL A	FEED PUMP OL B	FEED PUMP OL C	
FLW HI/ TRUNNION RH TEMP HI-NI I	FLW HI/ TRUNNION RH TEMP HI-NI II	RAD HI	RAD HI	LUBE OIL PRESS LO A	LUBE OIL PRESS LO B	LUBE OIL PRESS LO C	
AND FLW HI/ TRUNNION RH TEMP HI-NI II	AND FLW HI/ TRUNNION RH TEMP HI-NI II			MIN FLOW OPEN A	MIN FLOW OPEN B	MIN FLOW OPEN C	
MIN STM PRESS LO I	MIN STM PRESS LO II						
AND MIN STM PRESS LO II	AND MIN STM PRESS LO II	LO PRESS BYPASS	LO PRESS BYPASS		FLOW CNTRL PHR LOST		
FLOW MISMATCH	FLOW MISMATCH				FD PHM A/B/C RUNOUT LIMIT		
TRUNNION RH TEMP HI	TRUNNION RH TEMP HI	MIN STM VLVS OFF NORMAL	MIN STM VLVS OFF NORMAL			COND/ID PHM BRC TEMP HI	
a	b	c	d	e	f		

$T = 100$
5:40 PM

ANNUNCIATOR K LAYOUT

	a	b	c	d	e	f
F E E D T R A I N C O N D U C T	C I R C & S E R V I C E W A T E R	PUMP A TRIP	PUMP B TRIP	PUMP C TRIP	CH PUMP TRIP	SVC WATER PUMP TRIP
DENIM EFFL CONDUCT HI		PUMP A OL	PUMP B OL	PUMP C OL	CH PUMP OL	SEAL SUPPLY PRESS LO
INDVOL DENIM CONDUCT HI					DISCH PRESS HI	SEAL STWR Δ P HI
INDVOL DENIM MON BYPASS			COND DENIM Δ P HI	COND XFER PUMP TRIP		
DENIM INFL CONDUCT HI-HI			HOTWELL LVL HI/LO	COND XFER 2 PUMPS RHG	INTAKE SCRN Δ P HI	
DENIM INFL CONDUCT HI			STORAGE TANK LVL HI/LO	EMERG COND MU VLV OPEN	FAP TROUBLE	
HOTWELL CONDUCT HI		TUBE SHEET CONDUCT HI	HI CONDUCT TNK LVL HI	LO CONDUCT TNK LVL HI	ENVIRON WATER MON	VAC PRIM PMP TRIP
HOTWELL MON BYPASS		TUBE SHEET MON BYPASS	WASTE WATER TO HI CONDUCT TANK		CHLORIN TROUBLE	VAC PRIM PMP VAC LO

T=100
5:40 PM

ANNUNCIATOR M LAYOUT

S E R V I C E A I R				T U R B I N E			
				O I L			
				T U R N G E A R			
1				BRG OIL PRESS LO	HYDR OIL PRESS LO	TURB GEAR FAIL	1
2		SVC AIR DISCH VLV CLOSED			AUX OIL PUMP 1-1 OL TRIP	MOTOR OL TRIP	2
3	RCVR 1 PRESS LO	RCVR 2/INSTR AIR PRESS LO	RCVR 3 PRESS LO	EMERG OIL PHP OL TRIP	AUX OIL PUMP 1-2 OL TRIP	OIL PUMP OL TRIP	3
4	COMPR 1 TRIP	COMPR 2 TRIP	COMPR 3 TRIP	EMERG OIL PHP RUNNING	AUX OIL PUMP RUNNING	OIL PUMP RUNNING	4
5	COMPR 1 TROUBLE	COMPR 2 TROUBLE	COMPR 3 TROUBLE				5
6				OIL TANK OVERFLOW	HP LIFT PHP TRIP		6
7		INSTR AIR DRYER FAIL		OIL TANK LEVEL HI	HP LIFT PHP SUCT PRESS LO		7
8	BREATHING AIR TROUBLE			OIL TANK LEVEL LO	VAPOR EXTR DISCH PRESS LO		8
a				d			
b				e			
c				f			

T=10
5:40 PM

ANNUNCIATOR				LAYOUT				BOP	
TURBINE				MECH	VAC/SEALS	SJAE		T B	CCW
CNTRL									
STOP VLVS CLOSED					COND VAC TRIP 2 10 INCHES	SJAE ROOM H2 HI-HI		DISCH PRESS LO	
TRIP SOL 1 DC LOST				THRUST BRG WEAR HI	COND VAC TRIP 1 22 INCHES	SJAE ROOM H2 HI			
TRIP SOL 2 DC LOST				VIBRATION HI	COND VAC LO 25 INCHES			PUMP 1 TRIP	
PANEL 7F PAR LOST				SHELL ROTOR DIFF EXP HI	COND VAC PUMP TRIP			PUMP 2 TRIP	
PANEL 13R PAR LOST					EXH HOOD TEMP HI	SJAE STM PRESS HI/LO		PUMP 3 TRIP	
EPR PAR LOST				BRG TEMP HI				SURGE TANK LVL HI/LO	
EPR FILTER P HI					STM SEAL PRESS LO	SJAE DRN TNK LVL HI			
25% LOAD TRIP NOT RESET					EXHAUSTER TRIP	SJAE DRN TNK LVL LO		CHEM ADD TNK LVL LO	
a	b	c	d	e	f				

T=100
5:40 PM

ANNUNCIATOR

U

LAYOUT

480V STATION POWER				STATION BAT / CHG			
A	A-B	B	CNTRL DC	A-B	C		
1 A1 MM BRKR TRIP	A1-B1 TIE BRKR TRIP	B1 MM BRKR TRIP	A1 DC LOST	BAT CHG A TRIP		1	
2 A1 MM BRKR OL TRIP	A1-B1 TIE BRKR OL	B1 MM BRKR OL TRIP	B1 DC LOST	BAT CHG B TRIP		2	
3 A2 MM BRKR TRIP	A2-B2 TIE BRKR TRIP	B2 MM BRKR TRIP	A2 DC LOST	A/B BAT CHG DRV MOT TRIP		3	
4 A2 MM BRKR OL TRIP	A2-B2 TIE BRKR OL	B2 MM BRKR OL TRIP	B2 DC LOST	A-B STAT CHG TRIP	BAT CHG C1 TROUBLE	4	
5 A3 MM BRKR TRIP	A3-B3 TIE BRKR TRIP	B3 MM BRKR TRIP	A3 DC LOST	24 VDC CHG TROUBLE	BAT CHG C2 TROUBLE	5	
6 A3 MM BRKR OL TRIP	A3-B3 TIE BRKR OL	B3 MM BRKR OL TRIP	B3 DC LOST		C BAT H2 HI-HI	6	
	480V BUSES PARALLELED		PNL 8F/9F DC LOST	A-B BAT RM AIRFLOW LO	C BAT H2 H2	7	
	SWGR RM SF 21/EF 21 TRIP			BAT/MG RM SF 20/EF 20 TRIP	C BAT HVAC TROUBLE	8	
a	b	c	d	e	f		

T=100
5:40 PM

ANNUNCIATOR			9 X F		LAYOUT		ELECTRIC	
VITAL POWER								
AC				DC				
PWR LOST		XFERS		PWR LOST		XFERS		
			VLDP-1 PWR XFER	BUS A/B UV				
			MCC-1AB2 PWR XFER					
PS-1 PWR LOST	VACP-1 PWR LOST		VACP-1 PWR XFER	DC-D PWR LOST				
PS-2 PWR LOST	CIP-3 PWR LOST		CIP-3 PWR XFER	DC-1 PWR LOST		DC-E PWR XFER		
	IP-4 PWR LOST		CIP-3 INV AC INP LOST			INTERCOM DC LOST		
	IP-4A PWR LOST		CIP-3 INV DC INP LOST	DC-F PWR LOST				
	IP-4B PWR LOST		IP-4 PWR XFER	24VDC PP-A PWR LOST				
	IP-4C PWR LOST			24VDC PP-B PWR LOST		BUS A/B GROUND		
a	b	c	d	e	f			

T=100
5:40 PM

N S S S ANNUNCIATOR			10 X F		LAYOUT	
NEW/OLD RAD WSTE		OFF GAS BLDG		AUGMENTED OFF GAS		
				RCMBNR A	RCMBNR B	
NEW RAD WSTE AREA RAD HI	AREA RAD HI	H2 HI-HI	STACK AREA H2 HI-HI	H2 HI A	H2 HI B	
NEW RAD WSTE H & V RAD HI	H & V RAD HI	H2 HI	STACK AREA H2 HI	DISCH TEMP HI A	DISCH TEMP HI B	
OVBD DISCH RAD HI				COOLER TEMP HI A	COOLER TEMP HI B	
NEW RAD WSTE FIRE		FIRE		RECIRC FLOW LO A	RECIRC FLOW LO B	
NEW RAD WSTE TROUBLE						
				BLOWER A H2 HI	BLOWER B H2 HI	
OLD RAD WSTE TROUBLE			WTR REM MOIST HI			
OLD RAD WSTE BLDG RAD HI			WTR REM FREON LVL HI			
a	b	c	d	e	f	

SSS

LAYOUT

101

ANNUNCIATOR

RADIATION MONITORS									
OFF GAS SYSTEM		PROCESS						AREA	
		OFF GAS	STACK GAS	ISOL COND	RX BLDG	WTR	TURB BLDG		119 FT ELEV
OFF GAS ISOL ACT I	OFF GAS PRESS HI	OFF GAS HI-HI	STACK GAS HI-HI	A VENT HI	VENT HI	EMERG SVC A/B HI	STACK HI	AREA MOM HI	CRIT MOM C5 HI
OFF GAS ISOL ACT II	OFF GAS TEMP HI	OFF GAS HI	STACK GAS HI	B VENT HI		EMERG SVC C/D HI		FUEL POOL FLTR AREA HI	NORTH WALL C10 HI
SJAE INLET VLV CLOSED	OFF GAS DISCH VLV CLOSED		COMPUTER TROUBLE			RB CCM/ SVC WTR HI	COMPUTER TROUBLE	CU SYS AREA HI	NORTH WALL C9 HI VENT TRIP
V-24-28/30 ISOL SIG BYPASS	OFF GAS FLTR / P HI	OFF GAS SAMPLE FLOW LO	STK SAMPLE FLOW LO	OFF GAS/HN STM DNSCL	LIQ/STK DNSCL	AREA/VENT/ EFFL DNSCL	TB SAMPLE FLOW LO		OPER FLOOR B8 HI VENT TRIP

alarm was in
now is clear (ie V-7-31 is open)

T=120
6:00 PM

LAYOUT

ANNUNCIATOR

T

4160V
STATION
POWER

	BUS C	EDG 1	BUS B		BUS D	EDG 2	
1	MN BRKR C TRIP	LKOUT RELAY TRIP	MN BRKR B TRIP	SU BRKR B TRIP	MN BRKR B TRIP	DAY RELAY TRIP	
2	MN BRKR C OL TRIP	CNTRL DC LO/LOST	MN BRKR B OL TRIP	SU BRKR B OL TRIP/ BRKR PERM OPEN	MN BRKR B OL TRIP	CNTRL DC LO/LOST	
3	BUS C VOLTS LO	EDG 1 OV/GND	BUS B OV	SU BRKR B OFF NORMAL	MN BRKR B OL TRIP	DAY RELAY TRIP	
4	BUS C VOLTS LO-LO (UV)	EDG 1 DISABLED	BUS B UV		MN BRKR B OL TRIP	CNTRL DC LO/LOST	
5	BUS C CNTRL DC LOST	EDG 1 NOT IN AUTO	BUS B CNTRL DC LOST		BUS D CNTRL DC LOST	EDG 2 NOT IN AUTO	
6	CBC GR BN H&V LOST	EDG 1 ENG TEMP HI		FDR TO 480V B1 TRIP		EDG 2 ENG TEMP HI	
7	TIE BRKR EC TRIP	EDG 1 DAY TNK LVL HI/LO		FDR TO 480V B2 TRIP	TIE BRKR ED TRIP	EDG 2 DAY TNK LVL HI/LO	
8	TIE BRKR EC CLOSED		NORM/EMERG PHR INTLK DC LOST	FDR TO 480V B3 TRIP	TIE BRKR ED CLOSED		

T=120
6:00 PM

PEN #	TRIP CONTACTS	FUI ION	TRIP CONTACTS	PEN NO.
1	1K1	Reactor Neutron Monitoring System Trip	2K1	31
2	1K2		2K2	32
3	1K3		2K3	33
4	1K4	Reactor High Pressure	2K4	34
5	1K5		2K5	35
6	1K6		2K6	36
7	1K7, 1K8	Dump Volume High Water Level	2K7, 2K8	37
8	1K121, 1K122		2K121, 2K122	38
9	1K9		2K9	39
10	1K10	Drywell High Pressure	2K10	40
11	1K11		2K11	41
12	1K12		2K12	42
13	1K13	Main Steam Line High Radiation	2K13	43
14	1K14		2K14	44
15	1K15		2K15	45
16	1K16	Main Steam Line Break	2K16	46
17	1K17		2K17	47
18	1K18		2K18	48
19	1K19	Main Steam Line Isolation Valve Closure	2K19	49
20	1K20		2K20	50
21	1K21A		2K21A	51
22	16K201A	Reactor Manual Scram	16K201B	52
23	16K2A		16K2B	53
24	16K107A & C		16K107B & D	54
25	16K217A	Auto Depressurization	16K217B	55
26	16K217C		16K217D	56
27	16K115A		16K115B	57
28	16K115C	Containment Spray System	16K115D	58
29	1K117		2K117	59
30	1K118		2K118	60
		Core Spray System		
		Reactor Triple Low Level Alarm		
		Drywell High High Pressure		
		Main Steam Line Low Pressure		

SUPERSEDED
FOR INFORMATION ONLY

ATTACHMENT 13-9

T=120
6:00 PM

N S S S		ANNUNCIATOR		B		LAYOUT		CORE SPRAY		ADS		SV / EMRV											
C M T M T S P R A Y		E S W						1		2		1		2		AND		ADS TIMER A START I		AND		ADS TIMER B START I	
1	SYSTEM 1 AUTOSTART	2	SYSTEM 2 AUTOSTART																				
2	PUMP A FAIL		PUMP C FAIL																				
3	CIRCUIT PUMP 1 LOST		CIRCUIT PUMP 2 LOST																				
4	AUTOSTART 1 DISABLED		AUTOSTART 2 DISABLED																				
5	TUBE/SHELL Δ P L O 1		TUBE/SHELL Δ P L O 2																				
6	ESW PUMP A TROUBLE		ESW PUMP C TROUBLE																				
7	ESW PUMP B TROUBLE		ESW PUMP D TROUBLE																				
8	RECIRC FAN 10 TRIP		RECIRC FAN 11 TRIP																				

T=120
6:00 PM

LAYOUT

ANNUNCIATOR

C

ISOL		COND		SHUT	RB	CCW	TORUS / DRYWELL	
COND A FLOW HI POSSIBLE RUPTURE	COND B FLOW HI POSSIBLE RUPTURE	COND C FLOW HI POSSIBLE RUPTURE	COND D FLOW HI POSSIBLE RUPTURE	PUMP A TRIP	PUMP B TRIP	PUMP C TRIP	TORUS/DW 1 VAC BRKR OPN	N2 COMP FAIL
COND E FLOW HI POSSIBLE RUPTURE	COND F FLOW HI POSSIBLE RUPTURE	COND G FLOW HI POSSIBLE RUPTURE	COND H FLOW HI POSSIBLE RUPTURE	PUMP D TRIP	PUMP E TRIP	PUMP F TRIP	TORUS/DW 2 VAC BRKR OPN	LTO N2 TANK LEVEL LO
COND I FLOW HI POSSIBLE RUPTURE	COND J FLOW HI POSSIBLE RUPTURE	COND K FLOW HI POSSIBLE RUPTURE	COND L FLOW HI POSSIBLE RUPTURE	PUMP G TRIP	PUMP H TRIP	PUMP I TRIP	TORUS/DW 3 VAC BRKR OPN	N2 PURGE VLV OPEN
COND M FLOW HI POSSIBLE RUPTURE	COND N FLOW HI POSSIBLE RUPTURE	COND O FLOW HI POSSIBLE RUPTURE	COND P FLOW HI POSSIBLE RUPTURE	PUMP H TRIP	PUMP I TRIP	PUMP J TRIP	TORUS/DW 4 VAC BRKR OPN	DW VENT VLV OPEN
COND Q FLOW HI POSSIBLE RUPTURE	COND R FLOW HI POSSIBLE RUPTURE	COND S FLOW HI POSSIBLE RUPTURE	COND T FLOW HI POSSIBLE RUPTURE	PUMP I TRIP	PUMP J TRIP	PUMP K TRIP	TORUS/DW 5 VAC BRKR OPN	DW CNTRL AIR FLOW HI
COND U FLOW HI POSSIBLE RUPTURE	COND V FLOW HI POSSIBLE RUPTURE	COND W FLOW HI POSSIBLE RUPTURE	COND X FLOW HI POSSIBLE RUPTURE	PUMP J TRIP	PUMP K TRIP	PUMP L TRIP	TORUS/DW 6 VAC BRKR OPN	DW CNTRL AIR ISOL BYPASS
COND Y FLOW HI POSSIBLE RUPTURE	COND Z FLOW HI POSSIBLE RUPTURE	COND AA FLOW HI POSSIBLE RUPTURE	COND AB FLOW HI POSSIBLE RUPTURE	PUMP K TRIP	PUMP L TRIP	PUMP M TRIP	TORUS/DW 7 VAC BRKR OPN	
COND AC FLOW HI POSSIBLE RUPTURE	COND AD FLOW HI POSSIBLE RUPTURE	COND AE FLOW HI POSSIBLE RUPTURE	COND AF FLOW HI POSSIBLE RUPTURE	PUMP L TRIP	PUMP M TRIP	PUMP N TRIP	TORUS/DW 8 VAC BRKR OPN	

a b c d e f g h

T=120
6:00 PM

ANNUNCIATOR		D		LAYOUT	
CLEANUP SYSTEM					
				RX WTR CONDUCT	
				RX WATER CONDUCT HI-HI	
				RX WATER CONDUCT HI	
				PRECOAT TKN LEVEL HI	
				PRECOAT TKN LEVEL LO	
				BACKSH TKN LVL HI/LO	
				FILTER SLDG RCVR LVL HI	
	</				

$T = 120$
6:00 PM

ANNUNCIATOR		E		LAYOUT	
ATWOS RX RECIRC PUMP TRIP		RX RECIRC PUMPS / DRIVES			
		PUMP NG01A		PUMP NG01B	
		MG NG13A		MG NG12A	
ACTUATE A	ACTUATE C	DRV MOT BRKR TRIP	PUMP Δ P LO	DRV MOT BRKR TRIP	PUMP Δ P LO
AND ACTUATE B	AND ACTUATE D	DRV MOT BRKR LOCKOUT	VIBRATION HI	DRV MOT BRKR LOCKOUT	VIBRATION HI
TEST I	TEST II	MG OL	No. 1 SEAL FLOW HI	MG OL	No. 1 SEAL FLOW HI
		SPEED CTRL LOST	No. 1 SEAL FLOW LO		No. 1 SEAL FLOW LO
RCP/MG MDG TEMP HI			No. 2 SEAL FLOW HI		No. 2 SEAL FLOW HI
MG BRG OIL TEMP HI			OIL LEVEL HI/LO		OIL LEVEL HI/LO
MG BRG TEMP HI	MG TEMP HI				

$T = 120$
6:00 PM

LAYOUT

ANNUNCIATOR

RX RECIRC PUMPS /
DRIVES

RX RECIRC PUMPS / DRIVES					
PUMP NG01C		PUMP NG01D		PUMP NG01E	
MG NG13B	PUMP Δ P LO C	MG NG12B	PUMP Δ P LO D	MG NG13C	PUMP Δ P LO E
DRV MOT BKR TRIP C		DRV MOT BKR TRIP D		DRV MOT BKR TRIP E	
DRV MOT BKR LOCKOUT C	VIBRATION HI C	DRV MOT BKR LOCKOUT D	VIBRATION HI D	DRV MOT BKR LOCKOUT E	VIBRATION HI E
MG OL C	NO.1 SEAL FLOW HI C	MG OL D	NO.1 SEAL FLOW HI D	MG OL E	NO.1 SEAL FLOW HI E
SPEED CTRL LOST C	NO.1 SEAL FLOW LO C	SPEED CTRL LOST D	NO.1 SEAL FLOW LO D	SPEED CTRL LOST E	NO.1 SEAL FLOW LO E
	NO.2 SEAL FLOW HI C		NO.2 SEAL FLOW HI D		NO.2 SEAL FLOW HI E
	OIL LEVEL HI/LO C		OIL LEVEL HI/LO D		OIL LEVEL HI/LO E
	COV FLOW LO C		COV FLOW LO D		COV FLOW LO E

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T=120
6:00 PM

LAYOUT

6

ANNUNCIATOR

FUEL POOL		LIQ POISM SYS		REACTOR					
1	GATES LEAK HI	2	FLOW ON	CHANNEL I	AND CHANNEL II	ISM HI-HI/INOP I	AND ISM HI-HI/INOP II	1	APRM HI-HI/INOP I
3	REFUEL SEAL LEAK HI			ISM HI-HI		ISM HI		3	APRM HI
4	POOL LEVEL HI		TANK LEVEL HI/LO	ISM HI/INOP				4	
5	POOL LEVEL LO							5	APRM FLO BIAS OFF NORMAL
6	SKM SRG TRK LVL HI/LO							6	LRPM HI
7	SKM SRG TRK LVL LO-LO			SKM PERIOD SHORT				7	
8			TANK TEMP HI/LO					8	TIP SQUIB CONTINUITY
a		b		c		d		e	f

T=120
6:00 PM

ANNUNCIATOR				H	LAYOUT		NSSS	
CONTROL RODS / DRIVES					DW	REACTOR		
ROD CNTRL		SDV	HYDR		PRESS	LEVEL	PRESS	
1	CONTROL AIR PRESS LO	SDV LEVEL HI-MI	PUMP A OL		DM PRESS HI-MI	(CCW) RX LVL LO-LO-LO I	RX PRESS HI-MI I	
2	SCRAM CONTRACTOR STOP	SDV LEVEL HI-MI	PUMP B OL		DM PRESS HI-MI	OR (CCW) RX LVL LO-LO-LO II	AND RX PRESS HI-MI II	
3	SCRAM CONTRACTOR STOP	SDV LEVEL HI-MI	SUCT PRESS LO PUMP TRIP			(RxI) RX LVL LO-LO I (CI)	RX PRESS HI	
4	SCRAM CONTRACTOR STOP	SDV LEVEL HI-MI	FILTER Δ P HI			(RxI) RX LVL LO-LO II (CI)		
5	ROD OVERTRAVEL	SDV NOT DRAINED	END TEMP HI					
6	SCRAM CONTRACTOR STOP	SDV HI-MI LEVEL SCRAM BYPASS						
7	SCRAM CONTRACTOR STOP		CHANGE RATE PRESS LO					
8	RPS TRIP BYPASS		REGULATOR PRESS TRIP LEVEL HI					
	a	b	c	d	e	f		

T=120
6:00 PM

BOP ANNUNCIATOR J LAYOUT			F E E D P U M P S			M A I N S T E A M		
1	2	3	1A	1B	1C	1	2	3
COND VAC LO/ TURB TRIP I	COND VAC LO/ TURB TRIP II	COND VAC LO/ TURB TRIP III	FEED PUMP TRIP A	FEED PUMP TRIP B	FEED PUMP TRIP C	COND VAC LO/ TURB TRIP I	COND VAC LO/ TURB TRIP II	COND VAC LO/ TURB TRIP III
AND	AND	AND	FEED PUMP OL A	FEED PUMP OL B	FEED PUMP OL C	AND	AND	AND
FLOW HI/ TRUNTION RH TEMP HI-NI	FLOW HI/ TRUNTION RH TEMP HI-NI	FLOW HI/ TRUNTION RH TEMP HI-NI	LIME OIL PRESS LO A	LIME OIL PRESS LO B	LIME OIL PRESS LO C	FLOW HI/ TRUNTION RH TEMP HI-NI	FLOW HI/ TRUNTION RH TEMP HI-NI	FLOW HI/ TRUNTION RH TEMP HI-NI
AND	AND	AND	MIN FLOW OPEN A	MIN FLOW OPEN B	MIN FLOW OPEN C	AND	AND	AND
LO PRESS BYPASS	LO PRESS BYPASS	LO PRESS BYPASS				LO PRESS BYPASS	LO PRESS BYPASS	LO PRESS BYPASS
FLOW MISMATCH	FLOW MISMATCH	FLOW MISMATCH				FLOW MISMATCH	FLOW MISMATCH	FLOW MISMATCH
TRUNTION RH TEMP HI	TRUNTION RH TEMP HI	TRUNTION RH TEMP HI				TRUNTION RH TEMP HI	TRUNTION RH TEMP HI	TRUNTION RH TEMP HI
COND/FB PMP BKG TEMP HI	COND/FB PMP BKG TEMP HI	COND/FB PMP BKG TEMP HI				COND/FB PMP BKG TEMP HI	COND/FB PMP BKG TEMP HI	COND/FB PMP BKG TEMP HI

a b c d e f

T=120
6:00 PM

ANNUNCIATOR K LAYOUT

FEED TRAIN CONDUCT	CONDENSATE				CIRC & SERVICE WATER		
	PUMP A TRIP	PUMP B TRIP	PUMP C TRIP		OL PUMP TRIP	OL PUMP TRIP	SEAL STRNR Δ P HI
DEMIN EFFL CONDUCT HI	PUMP A OL	PUMP B OL	PUMP C OL		OL PUMP OL	OL PUMP OL	
INDVOL DEMIN CONDUCT HI					DISCH PRESS HI		
INDVOL DEMIN MON BYPASS		COND DEMIN Δ P HI					
DEMIN INFL CONDUCT HI-HI		HOTWELL LVL HI/LO	COND XFER 2 PUMPS RING		INTAKE SCRN Δ P HI		
DEMIN INFL CONDUCT HI		STORAGE TANK LVL HI/LO	EMERG COND MU VLV OPEN				
	TIME SHEET CONDUCT HI	HI CONDUCT TNK LVL HI	LO CONDUCT TNK LVL HI		ENVIRON WATER MON		
HOTWELL MON BYPASS	TUBE SHEET MON BYPASS	WASTE WATER TO HI CONDUCT TANK					

a b c d e f

H & V				NORTH		SOUTH	
DW	RX BLDG	TURB BLDG	OFFICE	1	2	3	4
RECIRC	ENERG EXH	AIR WASH	BLDG	1	2	3	4
FANS	EF 8 FLTRS Δ P HI	AM 1 Δ P HI	NORTH SF 26 TRIP	1	2	3	4
	EF 8 FLTRS Δ P LO	AM 1 Δ P HI	NORTH SF 27 TRIP	1	2	3	4
	EF 8 ON TRIP	AM 2 Δ P HI	NORTH SF 16 TRIP	1	2	3	4
	EF 9 FLTRS Δ P HI	AM 1 Δ P HI	NORTH SF 17 TRIP	1	2	3	4
	EF 9 FLTRS Δ P LO	AM 3 Δ P HI	SOUTH SF 18 TRIP	1	2	3	4
	EF 9 OL TRIP	AM 3 Δ P LO	NORTH SF 19 TRIP	1	2	3	4
	AM 4 Δ P HI	MTG BLR TB COND RETN TNK LVL HI	EF 26/27 FLTRS Δ P HI	1	2	3	4
	AM 4 Δ P LO	MTG BLR TROUBLE	EF 27/28 FLTRS Δ P LO	1	2	3	4

ANNUNCIATOR M LAYOUT

S E R V I C E A I R				T U R B I N E			
				O I L			
				T U R N G E A R			
1				BIG OIL PRESS LO			1
2							2
3							3
4							4
5							5
6							6
7							7
8							8

a b c d e f

T=120
6:00 PM

T=12.0
6:00 PM

ANNUNCIATOR N LAYOUT

FIRE				FEEDWATER HEATERS						
PROTECTION / DOM WTR				DETEC	1A	1B	1C			
1	FIRE PUMP 1 TROUBLE	FIRE PUMP 2 TROUBLE			HP A3 REV CK VLV TRIP A	HP B3 REV CK VLV TRIP B	HP C3 REV CK VLV TRIP C			
2	FIRE PUMP 1 TROUBLE	FIRE PUMP 2 TROUBLE			HP A3 MRV OPEN A	HP B3 MRV OPEN B	HP C3 MRV OPEN C			
3	POND PUMP 1 OL TRIP	POND PUMP 2 OL TRIP		XFMR/TURB AREA FIRE	HP A3 LEVEL HI/LO A	HP B3 LEVEL HI/LO B	HP C3 LEVEL HI/LO C			
4				TG BRG 1-9 FIRE/WTR SPR	IP A2 REV CK VLV TRIP A	IP B2 REV CK VLV TRIP B	IP C2 REV CK VLV TRIP C			
5	FIRE SYS TANK TROUBLE	DOM WTR TANK LEVEL LO		TG BRG 10 FIRE/CO ₂	IP A2 MRV OPEN A	IP B2 MRV OPEN B	IP C2 MRV OPEN C			
6		DOM WTR TANK LEVEL LO		XCTER AREA FIRE/CO ₂	IP A2 LEVEL HI/LO A	IP B2 LEVEL HI/LO B	IP C2 LEVEL HI/LO C			
7	DEEP WL PUMP FAIL	DEMIN XFER 2 PUMPS RING			LP A1 MRV OPEN A	LP B1 MRV OPEN B	LP C1 MRV OPEN C			
8	DEEP WL PUMP FAIL	DEEP WL PUMP FAIL		FIRE PROT DC LOST	LP A1 LEVEL HI/LO A	LP B1 LEVEL HI/LO B	LP C1 LEVEL HI/LO C			

a

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a b c d e f

T=120
6:00 PM

ANNUNCIATOR P LAYOUT

MS - REHEATER

STEAM / DRAINS

LEVELS				LEFT RHTR	RIGHT RHTR	TURB BLDG SUMP LVLS
MS LEVEL HI-HI				1ST RH STP CK CLOSED L	1ST RH STP CK CLOSED R	LUBE OIL BAY 1-1 LEVEL HI
MS 1 LEVEL HI	MS 3 LEVEL HI			2ND RH STP CK CLOSED L	2ND RH STP CK CLOSED R	CONDENSER BAY 1-2 LEVEL HI
MS 2 LEVEL HI	MS 4 LEVEL HI			LITE LOAD VLV OPEN L	LITE LOAD VLV OPEN R	PUMP ROOM 1-3 LEVEL HI
MS DRN TNC 3 LVL HI/LO	MS DRN TNC 6 LVL HI/LO	MS/RH DRN VLVS OPEN		3RD STG EXTR BYP OPEN L	3RD STG EXTR BYP OPEN R	HI-LO CONDUCT RM 1-4 LEVEL HI
1ST RH DRN TNC 1 LVL HI/LO	1ST RH DRN TNC 4 LVL HI/LO			VENT VLVS ANY OPEN L	VENT VLVS ANY OPEN R	
2ND RH DRN TNC 2 LVL HI/LO	2ND RH DRN TNC 5 LVL HI/LO	AUX FLSH TNC PUMP 1 TRIP		VENT VLVS ALL OPEN L	VENT VLVS ALL OPEN R	COND XFER PUMP AREA LEVEL HI
MS FLSH TNC LVL HI/LO	AUX FLSH TNC LEVEL HI	AUX FLSH TNC PUMP 1 RUN		VENT NTR OFF L	VENT NTR OFF R	
	AUX FLSH TNC LEVEL LO	AUX FLSH TNC PUMP 2 TRIP			RH BLOWER TRIP	

a b c d e f

T=120
6:00 PM

ANNUNCIATOR LAYOUT					BOP		
TURBINE							
CNTRL	MECH	VAC/SEALS	SJAE		TB	CCH	
STOP VALVS CLOSED		COND VAC TRIP 1 19 TCHN	SJAE ROOM M2 HI-HI		DISC PRESS		1
TRIP SOL 1 DC LOST	THRUST BRG WEAR HI	COND VAC TRIP 1 22 TCHN	SJAE ROOM M2 HI		PUMP AUTO START		2
TRIP SOL 2 DC LOST	VEHIBITION				PUMP 1 TRIP		3
PANEL 7F PAR LOST	SHELL ROTOR DIFF EXP HI	COND VAC PUMP TRIP			PUMP 2 TRIP		4
PANEL 11R PAR LOST		EXH MOOD TEMP HI			PUMP 3 TRIP		5
EPR PAR LOST					SURGE TANK LVL HI/LO		6
EPR FILTER Δ P HI		STM SEAL PRESS-LB					7
EXH LOAG TRIP RPE RESET		EXHAUSTER TRIP	SJAE DRN TMR LVL LO		CHEM ADD TMR LVL LO		8
a	b	c	d	e	f		

ELECTRIC ANNUNCIATOR R

*T = 120
6:00 PM*

GENERATOR			MAIN XFMRS		
			M1A	M1B	
1			BACK IN TRIP	BACK B1 TRIP	1
2			BACK IN TRIP	BACK B1 CENTRAL DISAGR	2
3	OVEREXCIT 59/81T TRIP		VARS HI/LO	LOUT RELAY TRIP	3
4	FIELD LOST		POT XPMR LOST	LOUT RELAY DC LOST	4
5	RELAY 59/81T DC LOST		STATOR TEMP HI	MR LEADS TEMP HI	5
6	ROTOR TEMP HI		STATOR CLG TROUBLE	MR CLG PMR FAIL	6
7	MR XCITER AIR TEMP HI		MR XCITER TRIP	MR XCITER TROUBLE	7
8	SPR XCITER BKG TRIP		SPR XCITER MG OL	SPR XCITER TROUBLE	8
9	SPR XCITER BKG TEMP HI		CORE MONITOR	ISOL PH TRIP	9

a

b

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f

ANNUNCIATOR			S	LAYOUT							
AUX XFMR	STARTUP XFMR			4160V STATION POWER							
	S1A	S1B		BUS A							
LKOUT RELAY B6/SA TRIP	LKOUT RELAY B6/SB TRIP	MM BRKR A TRIP		SU BRKR A OL/TRIP BRKR PERM OPN							
B6/SA DC LOST	B6/SB DC LOST	MM BRKR A OL TRIP		SU BRKR A OFF NORMAL							
SA VOLTS LO	SB VOLTS HI	BUS A OV		BUS A UN							
AUX SUDDN PRESS	SA SUDDN PRESS	SB SUDDN PRESS		BUS A CTRL DC LOST							
AUX MOG TEMP HI	SA MOG TEMP HI	SB MOG TEMP HI									
	SA TROUBLE	SB TROUBLE			FOR TO 480V A2 TRIP						
				FOR TO 480V A3 TRIP							
1	2	3	4	5	6	7	8				
1	2	3	4	5	6	7	8				

T = 120
6:00 PM

ANNUNCIATOR

LAYOUT

T

4160V
STATION
POWER

BUS C		EDG 1		BUS B		BUS D		EDG 2	
1	MN BRKR C TRIP	LKOUT RELAY TRIP		MN BRKR B TRIP	SU BRKR B TRIP	MN BRKR D TRIP		LKOUT RELAY TRIP	
2	MN BRKR C OL TRIP	CNTRL DC LO/LOST		MN BRKR B OL TRIP	SU BRKR B OL TRIP / BRKR PERM OPEN	MN BRKR D OL TRIP		CNTRL DC LO/LOST	
3	EDG 1 OV/CMO	EDG 1		BUS B OV	SU BRKR B OFF NORMAL	EDG 2		EDG 2	
4	EDG 1 DISABLED	EDG 1		BUS B OV		EDG 2		EDG 2 DISABLED	
5	BUS C CNTRL DC LOST	EDG 1 NOT IN AUTO		BUS B CNTRL DC LOST		BUS D CNTRL DC LOST		EDG 2 NOT IN AUTO	
6	EDG 1 ENG TEMP HI	EDG 1						EDG 2 ENG TEMP HI	
7	TIE BRKR EC TRIP	EDG 1 DAY TANK LVL HI/LO			FDR TO 480V B2 TRIP	TIE BRKR ED TRIP		EDG 2 DAY TANK LVL HI/LO	
8	TIE BRKR EC CLOSED			NORM/EMERG PHR INTLK DC LOST	FDR TO 480V B3 TRIP	TIE BRKR ED CLOSED			

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T=120
6:00 PM

ANNUNCIATOR

U

LAYOUT

480V STATION POWER				STATION BAT / CHG			
A	A-B	B	CNTRL DC	A-B	C		
1 A1 MH BRKR TRIP	A1-B1 TIE BRKR TRIP	A1-B1 TIE BRKR TRIP	A1 DC LOST	BAT CHG A TRIP		1	
2 A1 MH BRKR OL TRIP	A1-B1 TIE BRKR OL	B1 MH BRKR OL TRIP	B1 DC LOST	BAT CHG B TRIP		2	
3 A2 MH BRKR TRIP	A2-B2 TIE BRKR TRIP	B2 MH BRKR TRIP	A2 DC LOST	A/B BAT CHG DRV MOT TRIP		3	
4 A2 MH BRKR OL TRIP	A2-B2 TIE BRKR OL	B2 MH BRKR OL TRIP	B2 DC LOST	A-B STAT CHG TRIP		4	
5 A3 MH BRKR TRIP	A3-B3 TIE BRKR TRIP	B3 MH BRKR TRIP	A3 DC LOST	24 VDC CHG TROUBLE		5	
6 A3 MH BRKR OL TRIP	A3-B3 TIE BRKR OL	B3 MH BRKR OL TRIP	B3 DC LOST	C BAT H2 HI-HI		6	
	480V BUSES PARALLELED		PHL 8F/9F DC LOST	A-B BAT H2 AIRFLOW LO		7	
	SWGR RM SF 21/EF 21 TRIP			BAT/HG RM SF 20/EF 20 TRIP		8	

a b c d e f

T=120
6:00 PM

ANNUNCIATOR		9 X F		LAYOUT		ELECTRIC	
VITAL POWER							
AC				DC			
PWR LOST		XFERS		PWR LOST		XFERS	
			VLMPL-1 PWR XFER		BUS A/B UV		
			VDC-1/2 PWR XFER				
PS-1 PWR LOST	VDCP-1 PWR LOST		VDCP-1 PWR XFER		DC-D PWR LOST		DC-D PWR XFER
PS-2 PWR LOST	CIP-3 PWR LOST		CIP-3 PWR XFER		DC-1 PWR LOST		DC-E PWR XFER
			CIP-3 INV AC IMP LOST				INTERCOM DC LOST
			CIP-3 INV DC IMP LOST		DC-F PWR LOST		
			IP-4 PWR LOST		24VDC PP-A PWR LOST		
			IP-4B PWR LOST		24VDC PP-B PWR LOST		BUS A/B GROUND
			IP-4C PWR LOST				

1	2	3	4	5	6	7	8
a	b	c	d	e	f		

a b c d e f

T=120
6:00 PM

N S S S		ANNUNCIATOR		1 0 X F		LAYOUT	
NEW/OLD		OFF		A U G M E N T E D			
RAD		G A S		O F F G A S			
WSTE		B L D G				R C M B N R A	R C M B N R B
1	NEW RAD WSTE AREA RAD HI	AREA RAD HI	H2 HI-HI	STACK AREA H2 HI-HI	H2 HI A	H2 HI B	1
2	NEW RAD WSTE H & V RAD HI	H & V RAD HI	H2 HI	STACK AREA H2 HI	DISCH TEMP HI A	DISCH TEMP HI B	2
3	OVBD DISCH RAD HI		ISOL		COOLER TEMP HI A	COOLER TEMP HI B	3
4	NEW RAD WSTE FIRE		FIRE	FLOW LO	RECIRC FLOW LO A	RECIRC FLOW LO B	4
5	NEW RAD WSTE TROUBLE		TROUBLE				5
6					BLOWER A H2 HI	BLOWER B H2 HI	6
7	OLD RAD WSTE TROUBLE			WTR REM MOIST HI			7
8	OLD RAD WSTE BLDG RAD HI			WTR REM FREON LVL HI			8
	a	b	c	d	e	f	

ATTACHMENT B-9

ATTACHMENT C

C-1 SIMULATED FIRE SCENARIO

I. SCHEDULE

Date: May 10, 1984

Time: Approximately 5:35 P.M. (T=95)

Location Emergency Diesel Generation Building

II. PURPOSE

To simulate a fire within the Diesel Unit #1 Housing.

III. SCENARIO

Alarm is received at the Fire Alarm Master Panel in the Control Room, indicating a fire at the #1 Diesel Generator. Fire inside the adjacent control cabinet has moved along the cable trench and has ignited, dripping diesel fuel in the #1 Diesel.

<u>T-Time</u>	<u>Clock Time</u>	<u>Activity/ Response</u>
T=95	5:35 P.M.	Fire Alarm is received at the Fire Alarm Master Panel in the Control Room, indicating that there is a fire in Emergency Diesel #1 and adjacent control cabinet.
T=98	5:38 P.M.	Fire Alarm is sounded and Fire Brigade is activated.
T=110	5:50 P.M.	Fire Brigade arrives at scene to find #1 Diesel Bay completely involved and black smoke coming from doors and roof vents.

ATTACHMENT C

C-1 SIMULATED FIRE SCENARIO (continued)

<u>T-Time</u>	<u>Clock Time</u>	<u>Activity/ Response</u>
T=111	5:51 P.M.	Brigade Leader notifies Control Room that Forked River Fire Department must be called.
T=112	5:52 P.M.	Brigade Leader has two 2 1/2" lines run and prepares for entry by Fire Brigade through Southwest door. Once inside, the brigade members will assess the situation and attempt to hold the fire advance until the arrival of outside agencies.
T=130	6:10 P.M.	Forked River Fire Department arrives on scene and Brigade Leader should rotate them into fire area.
T=132	6:12 P.M.	Foam eductor line should be brought in to extinguish fire in Emergency Diesel while the fire in the cable trench and controller cabinet are extinguished.
T=138	6:18 P.M.	Fire out, Control Room notified, Fire Watch established.

ATTACHMENT C

C-2 REMOTE ASSEMBLY AREA (RAA) DETAIL

I. SCHEDULE

Date: May 10, 1984

Time: Approximately 6:00 P.M. (T=120)

Location Remote Assembly Area (RAA) [Berkeley Operating Headquarters]

II. PURPOSE

To simulate a General Emergency for the purpose of exercising Security, RadCon and Plant Personnel Response at the Oyster Creek Nuclear Generating Station and at the Remote Assembly Area (RAA). The basic objective is to test the ability of the plant staff to effectively evacuate site personnel and activate the Remote Assembly Area.

III. SCENARIO

At approximately 6:00 P.M., a Site Evacuation is directed by the Emergency Director. The Evacuation Route is ordered. Five (5) personnel will be evacuated from the Oyster Creek Site to the RAA. On arrival at the RAA, two (2) of the site personnel will be found by RadCon to be contaminated (Clothing of both will have readings about 2,000 cpm; one man will have contamination on the left hand of approximately 350 cpm).

IV. PERSONNEL REQUIRED

2 RadCon Technicians

2 Security Officers

5 Site Personnel w/vehicle

V. RADIOLOGICAL CONDITIONS

Site Condition: General Emergency

RAA Condition: Background

Contaminated Personnel: Clothing: Approx. 2,000 cpm (arm and/or leg)

Skin: Approx. 350 cpm (left hand of one man)