



444 South 16th Street Mall  
Omaha NE 68102-2247

April 28, 2003  
LIC-03-0065

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555

Reference: Docket No. 50-285

**SUBJECT: Transmittal of Changes to Emergency Plan Implementing Procedures (EPIP) and to  
Emergency Planning Forms (EPF)**

In accordance with 10 CFR 50.54(q), 10 CFR 50, Appendix E, Section V, and 10 CFR 50.4(b)(5), please find EPF change packages enclosed for the Document Control Desk (holder of Copy 165) and the NRC Region IV Plant Support Branch Secretary (holder of Copies 154 and 155).

The document update instructions and summary of changes are included on the Confirmation of Transmittal form (Form EP-1) attached to each controlled copy change package. Please return the Confirmation of Transmittal forms by June 16, 2003.

The revised documents included in the enclosed package are:

EPIP Index issued 04/15/03  
EPIP-EOF- 7 R14 issued 04/15/03  
EPIP-RR-19A R6 issued 04/15/03  
FC-EPF Index issued 04/22/03  
FC-EPF-19 R7 issued 04/22/03

No commitments are made to the NRC in this letter. If you have any questions regarding the enclosed changes, please contact Mr. Carl Simmons at (402) 533-6430.

Sincerely,



R. T. Ridenoure  
Division Manager  
Nuclear Operations

RTR/men

Enclosures

c: NRC Region IV Plant Support Branch Secretary (2 sets)  
Alan Wang, NRC Project Manager (w/o enclosures)  
J. G. Kramer, NRC Senior Resident Inspector (w/o enclosures)  
Winston & Strawn (w/o enclosures)  
Emergency Planning Department (w/o enclosures)

A045

OMAHA PUBLIC POWER DISTRICT

Confirmation of Transmittal for  
Emergency Planning Documents/Information

<input type="checkbox"/> Radiological Emergency Response Plan (RERP)	<input checked="" type="checkbox"/> Emergency Plan Implementing Procedures (EPIP)	<input checked="" type="checkbox"/> Emergency Planning Forms (EPF)
<input type="checkbox"/> Emergency Planning Department Manual (EPDM)	<input type="checkbox"/> Other Emergency Planning Document(s)/ Information	

Transmitted to:

Name: Document Control Desk Copy No: 165 Date: \_\_\_\_\_  
Division of Reactor Safety Copy No: 154  
 Attn: Senior Emergency Preparedness Inspector  
Division of Reactor Safety Copy No: 155  
 Attn: Senior Emergency Preparedness Inspector

The following document(s) / information are forwarded for your manual:

REMOVE SECTION

EPIP Index 3 pages issued 04/03/03  
 EPIP-EOF-7 R13 issued 10/31/00  
 EPIP-RR-19A R5 issued 10/07/99  
 FC-EPF Index page 2 of 3 issued 10/08/02  
 FC-EPF 19 R6 issued 09/01/94

INSERT SECTION

EPIP Index 3 pages issued 04/15/03  
 EPIP-EOF-7 R14 issued 04/15/03  
 EPIP-RR-19A R6 issued 04/15/03  
 FC-EPF Index page 2 of 3 issued 04/22/03  
 FC-EPF-19 R7 issued 04/22/03

**Summary of Changes:**

EPIP-EOF-7 was revised to clarify guidance for determining and adjusting PARs. EPIP-RR-19A was revised to insert step in Attachment 6.2 to include tracking of EOP's and AOP's by TSC Ops Liaison. FC-EFP-19 was revised to add room numbers and equipment locations to the maps.

  
 Supervisor - Emergency Planning

I hereby acknowledge receipt of the above documents/information and have included them in my assigned manuals.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Please sign above and return by 06/13/03 to:

Beth Nagel  
 Fort Calhoun Station, FC-2-1  
 Omaha Public Power District  
 444 South 16<sup>th</sup> Street Mall  
 Omaha, NE 68102-2247

NOTE: If the document(s)/information contained in this transmittal is no longer requested or needed by the recipient, or has been transferred to another individuals, please fill out the information below.

- Document(s)/Information No Longer Requested/Needed
- Document(s)/Information Transferred to:

Name: \_\_\_\_\_ Mailing Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Document	Document Title	Revision/Date
EPIP-OSC-1	Emergency Classification	R35 05-02-02
EPIP-OSC-2	Command and Control Position Actions/Notifications	R41 01-16-03a
EPIP-OSC-9	Emergency Team Briefings	R7 12-09-99
EPIP-OSC-15	Communicator Actions	R22 10-24-00
EPIP-OSC-21	Activation of the Operations Support Center	R12 10-29-02
EPIP-TSC-1	Activation of the Technical Support Center	R23 10-29-02
EPIP-TSC-2	Catastrophic Flooding Preparations (R0 03-22-95) DELETED (05-09-95) REINSTATED	R3 01-23-03
EPIP-TSC-8	Core Damage Assessment	R14 01-19-01
EPIP-EOF-1	Activation of the Emergency Operations Facility	R13 10-29-02
EPIP-EOF-3	Offsite Monitoring	R18 11-12-02
EPIP-EOF-6	Dose Assessment	R32 01-23-02
EPIP-EOF-7	Protective Action Guidelines	R14 04-15-03
EPIP-EOF-10	Warehouse Personnel Decontamination Station Operation	R10 01-13-00a
EPIP-EOF-11	Dosimetry Records, Exposure Extensions and Habitability	R19 04-03-03

Document	Document Title	Revision/Date
EPIP-EOF-19	Recovery Actions	R7 09-30-98
EPIP-EOF-21	Potassium Iodide Issuance	R4 11-07-00
EPIP-EOF-23	Emergency Response Message System	R5 10-12-99
EPIP-EOF-24	EOF Backup Alert Notification System Activation	R3 09-09-99
EPIP-RR-11	Technical Support Center Director Actions	R14 02-29-00
EPIP-RR-13	Reactor Safety Coordinator Actions	R14 12-09-99a
EPIP-RR-17	TSC Security Coordinator Actions	R15 12-10-02
EPIP-RR-17A	TSC Administrative Logistics Coordinator Actions	R20 11-07-02
EPIP-RR-19A	Operations Liaison Actions	R6 04-15-03
EPIP-RR-21	Operations Support Center Director Actions	R12 09-23-99
EPIP-RR-21A	Maintenance Coordinator Actions	R4 11-30-99
EPIP-RR-22	Protective Measures Coordinator/Manager Actions	R21 07-02-01
EPIP-RR-22A	Chemistry Coordinator Actions	R6 12-07-01
EPIP-RR-25	EOF Dose Assessment Coordinator Actions	R20 11-15-01
EPIP-RR-28	OSC Accountability and Dosimetry Technician Actions	R8 09-25-01

Document	Document Title	Revision/Date
EPIP-RR-29	EOF Administrative Logistics Manager Actions	R20 11-07-02
EPIP-RR-39	Control Room Medical Responder Actions	R0 03-27-01
EPIP-RR-63	EOF Dose Assessment Assistant Actions	R10 11-19-01
EPIP-RR-66	Communication Specialist Actions	R8 08-31-99
EPIP-RR-72	Field Team Specialist Actions	R13 07-09-02
EPIP-RR-87	Radiation Protection Coordinator Actions	R7 08-24-00
EPIP-RR-90	EOF/TSC CHP Communication Actions	R0 10-24-00

Fort Calhoun Station  
Unit No. 1

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**EPIP-EOF-7**

EMERGENCY PLAN IMPLEMENTING PROCEDURE

**Title:** PROTECTIVE ACTION GUIDELINES

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FC-68 Number: EC 31470

Reason for Change: Clarify guidance for determining and adjusting PARs.

Requestor: Mark Reller

Preparer: Mark Reller

## PROTECTIVE ACTION GUIDELINES

### 1. PURPOSE

- 1.1 This procedure outlines the guidelines for determining Protective Action Recommendations (PARs).

### 2. REFERENCES/COMMITMENT DOCUMENTS

- 2.1 "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents", EPA 400-R-92-001, May 1992
- 2.2 "Response Technical Manual" NUREG/BR-0150, USNRC, Volume 1, Rev. 4, March 1996
- 2.3 "Protective Measures Basis Document", CHP-00-038, September 28, 2000

### 3. DEFINITIONS

None

### 4. PREREQUISITES

- 4.1 An emergency has been declared per EPIP-OSC-1.

### 5. PROCEDURE

**NOTE:** When an Emergency Notification Form (FC-1188) is issued a Protective Action Recommendation (PAR) must be made. A PAR is considered developed when the FC-1188 is signed.

**NOTE:** For a Notification of Unusual Event (NOUE) or Alert the PAR is typically "None".

**NOTE:** At a General Emergency the minimum PAR is the evacuation of a 2 mile radius (all sectors) around the plant (Sub Areas 1 and 10).

**NOTE:** Do not delay required notifications while awaiting dose assessment projections or field team results.

- 5.1 PAR Determinations are made as follows:

- 5.1.1 Using Attachments 6.1 and 6.2, determine the appropriate PAR.

**NOTE:** Adjustments to the downwind sectors selected using the following methods may be needed based on previously affected sectors and meteorological conditions such as wind shifts.

5.1.2 To determine downwind sectors:

A. IF a release is in progress **AND** EAGLE dose assessment results are available, use the sectors in the EAGLE dose assessment results.

**OR**

B. IF a release is in progress **AND** the EAGLE dose assessment results are not available, use the Isopleths wheel.

**OR**

C. IF there is no release, use the Isopleths wheel.

5.1.3 Document on the PAR worksheet, the PAR and the reasons, if any, for sector differences from or additions to the above method used.

5.2 Record PAR(s) on Emergency Notification Form (FC-1188).

5.3 PAR Preparation and Review

5.3.1 In the Control Room

A. Operations personnel normally prepare PAR(s) based on plant conditions.

B. The dose assessment position normally prepares PAR(s) based on radiological conditions.

5.3.2 In the Technical Support Center (TSC)

A. The Operations Liaison Group or the Site Director normally prepares PAR(s) based on plant conditions.

B. The TSC Protective Measures Coordinator normally prepares PAR(s) based on radiological conditions.

5.3.3 In the Emergency Operation Facility (EOF)

A. The Protective Measures Manager's Group normally prepares PAR(s), with assistance from the Operations Liaison Group.

5.3.3 B. The Protective Measures Manager normally reviews PAR(s).

5.4 The Command and Control Position must approve all PAR(s).

**NOTE:** State and county officials are responsible for the final decision on what Protective Actions are issued to the public.

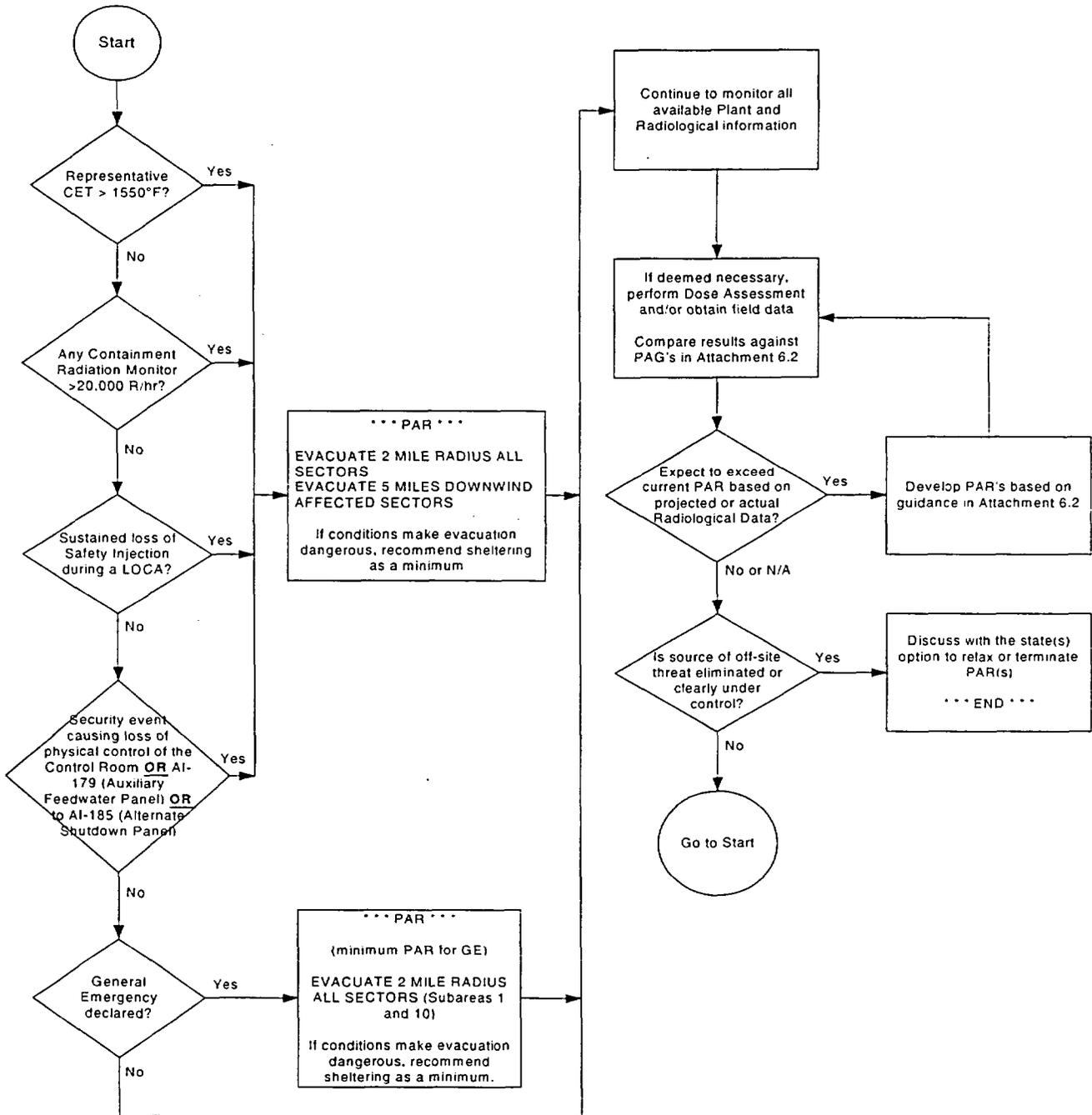
5.5 Transmit the PARs to the state and counties per EPIP-OSC-2 and EPIP-OSC-15.

## 6. ATTACHMENTS

6.1 Protective Action Recommendations Flowchart Based on Plant Conditions and Radiological Data

6.2 Protective Action Recommendations Based on Dose Assessment/Field Team Radiological Data

Attachment 6.1 - Protective Action Recommendations Flowchart  
Based on Plant Conditions and Radiological Data



Attachment 6.2 - Protective Action Recommendations Based on  
 Dose Assessment/Field Team Radiological Data

Early Phase (Plume Phase):

Projected Dose	Protective Action Recommendation (PAR)
<1 rem TEDE <5 rem CDE (thyroid)	<b>None (NO PAR REQUIRED)</b> and continue to monitor radiological conditions
≥1 rem TEDE ≥5 rem CDE (thyroid)	<b>Evacuate</b> Shelter, if it will provide protection equal to or greater than evacuation up to 10 rem ( <b>NOTE</b> )
≥50 rem SDE (skin)	<b>Evacuate</b>

**NOTE:** Sheltering may be preferable to evacuation as a protective action in some situations. Because of the higher risk associated with evacuation of some special groups in the population (e.g. those who are not readily mobile), sheltering may be the preferred alternative for such groups as a protective action at projected doses up to 5 rem TEDE. In addition, under unusually hazardous environmental conditions, use of sheltering up to 5 rem TEDE to the general population (and up to 10 rem to special groups) may be justified.

For example, situations when evacuation may not be appropriate at 1 rem TEDE include: (1) the presence of severe weather; (2) competing disasters; (3) institutionalized people who are not readily mobile; and (4) local physical factors which impede evacuation.

Fort Calhoun Station  
Unit No. 1

**EPIP-RR-19A**

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**EMERGENCY PLAN IMPLEMENTING PROCEDURE**

**Title: OPERATIONS LIAISON ACTIONS**

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**FC-68 Number: EC 31900**

**Reason for Change: Insert step in Attachment 6.2 to include tracking of EOP's and AOP's by TSC Ops Liaison.**

**Requestor: Mark Reller**

**Preparer: Mark Reller**

## OPERATIONS LIAISON ACTIONS

### NON-SAFETY RELATED

#### 1. PURPOSE

- 1.1 This procedure provides guidance to the Control Room, TSC, OSC and EOF Operations Liaisons in performing actions in response to an emergency at Fort Calhoun Station [AR 11390].

#### 2. REFERENCES/COMMITMENT DOCUMENTS

- 2.1 EPIP-OSC-1, Emergency Classification
- 2.2 EPIP-EOF-7, Protective Action Guidelines
- 2.3 FCS Abnormal Operating Procedures (AOPs)
- 2.4 FCS Emergency Operating Procedures (EOPs)
- 2.5 Ongoing Commitments
  - AR 11390, LIC-91-065R

#### 3. DEFINITIONS

None

#### 4. PREREQUISITES

None

#### 5. PROCEDURE

**NOTE:** The attached checklist are designed as a reminder of actions which are required to be performed during an emergency condition.

- 5.1 The Control Room Operations Liaison will use Attachment 6.1 as an aid to completing required actions [AR 11390].
- 5.2 The TSC Operations Liaison will use Attachment 6.2 as an aid to completing required actions.
- 5.3 The EOF Operations Liaison will use Attachment 6.3 as an aid to completing required actions.

- 5.4 The OSC Operations Liaison will use Attachment 6.4 as an aid to completing required actions.
- 5.5 Review the procedure and appropriate checklist, and accomplish the applicable steps both upon initial activation and periodically, as required, thereafter.
- 5.6 At the completion of the shift or at event termination, initial the steps which have been completed.
- 5.7 Retain all documentation (logs, calculation sheets, notes, etc.) generated or used during the emergency. At the termination, deliver all documentation to the TSC Administrative Logistics Coordinator in the TSC, or the EOF Administrative Logistics Manager in the EOF.

6. ATTACHMENTS

- 6.1 Control Room Operations Liaison Checklist
- 6.2 TSC Operations Liaison Checklist
- 6.3 EOF Operations Liaison Checklist
- 6.4 OSC Operations Liaison Checklist

Attachment 6.1 - Control Room Operations Liaison Checklist Page 1 of 1

\* \* Maintain a log of all key activities \* \*

	(✓)	<u>INIT/TIME</u>
1. Sign in on the Accountability Roster, obtain worker packet and put on Position Identification Badge.	/	/
2. Interface with the Control Room Coordinator to receive a briefing on the following:		
2.1 Plant status and actions taken;	/	
2.2 Current Classification;	/	
2.3 Plant prognosis;	/	
2.4 Status of AOPs;	/	
2.5 Status of EOPs.	/	/
3. Stand by to establish a conference call with the TSC, OSC and EOF Operations Liaisons. The TSC and/or OSC and/or EOF will initiate this conference by calling the Control Room upon their arrival.	/	/
4. Periodically review the following steps and perform, as required.		
4.1 Provide updates of the information listed above to the TSC, OSC and EOF Operations Liaisons using the established communications link.	/	/
4.2 Provide a detailed briefing to your shift relief of any actions taken and the current emergency status.	/	/



Attachment 6.2 - TSC Operations Liaison Checklist

\* \* Maintain a log of all key activities \* \*

(✓)

INIT/TIME

6. Periodically review the following steps and perform, as required:

6.1 Interface with the NRC Response Team and OPPD support personnel on technical and operational matters relating to the emergency.

\_\_\_\_\_/\_\_\_\_\_  
/

6.2 Review EPIP-OSC-1 to determine if the current classification is valid.

\_\_\_\_\_/\_\_\_\_\_  
/

6.3 Follow the status of EOPs and AOPs and report significant changes or problems to the TSC Director.

\_\_\_\_\_/\_\_\_\_\_  
/

6.4 Provide a detailed briefing to your shift relief of any actions taken and the current emergency status.

\_\_\_\_\_/\_\_\_\_\_  
/





Attachment 6.4 - OSC Operations Liaison Checklist

\* \* Maintain a log of all key activities \* \*

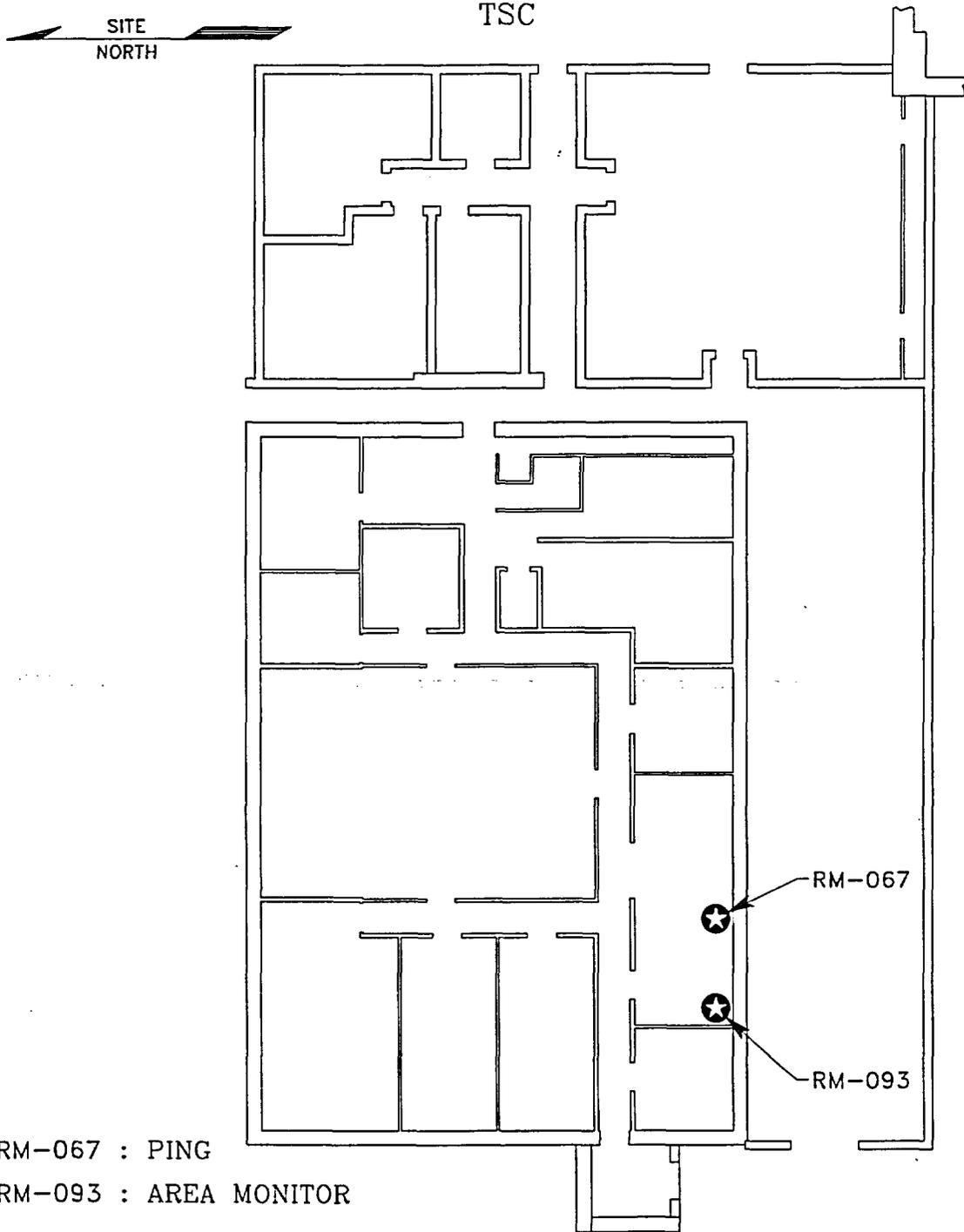
	(✓)	<u>INIT/TIME</u>
1. Sign in on the Accountability Roster, obtain worker packet and put on the Personnel Identification Badge.	_____	_____ / _____
2. Using the Ops Liaison phone, perform the following:		
2.1 Pick up the receiver and ask if the Control Room is on the line.		
2.2 IF the Control Room is already on the line, THEN go to Step 3. Otherwise, continue.		
2.3 Dial the Control Room number (listed on the pull-out template on the bottom of the phone) to access the Control Room Operations Liaison.		_____ / _____
3. Interface with the Control Room Operations Liaison only when necessary to determine information applicable to OSC functions. Brief the OSC Director when necessary. Some of these functions include:		
3.1 Information concerning equipment/system status, especially when needed for team briefings.		_____ / _____
3.2 Operator dispatch directly to an affected area, so that the OSC personnel may be directed to assist if necessary.		_____ / _____
3.3 Operator dispatch to the OSC, so that the OSC may better prepare for necessary team briefing/dispatch process.		_____ / _____
4. Monitor the network to determine any other information that may impact the OSC, and inform the OSC Director.		_____ / _____
5. Periodically review the following steps, and perform, as required:		
5.1 Provide a detailed briefing to your shift relief of any actions taken and the current emergency status.		_____ / _____

Document	Document Title	Revision/Date
FC-EPF-15	Drill Exercise Comment Form	R3 07-11-97a
FC-EPF-17	Pager Response Follow Up Questionnaire	R3 11-06-99
FC-EPF-19	Process and Area Monitor Locations	R7 04-22-03
FC-EPF-20	Site Boundary/Owner Control Area	R1 07-29-97
FC-EPF-21	Fort Calhoun Station Sector Map	R2 05-15-97
FC-EPF-27	Onsite/Offsite Dose Comparison Data Record (Using Eagle Program)	R3 11-07-00
FC-EPF-29	Estimation of Unmonitored Release Rates	R1 12-30-93
FC-EPF-31	$\Delta T/\sigma\theta$ Stability Class Chart	R2 03-14-02
FC-EPF-32	Area Monitor Trending	R0 06-10-93
FC-EPF-33*	Emergency Response Facility Computer System (ERFCS)	R1 07-02-96
FC-EPF-33A	ERFCS Function Key Mapping	R0 10-08-02
FC-EPF-34	MRC Director Checklist	R0 06-23-93
FC-EPF-35	Iowa EOC Route Map (double-sided)	R0 06-21-94
FC-EPF-36	Briefing Guidelines	R3 10-22-01

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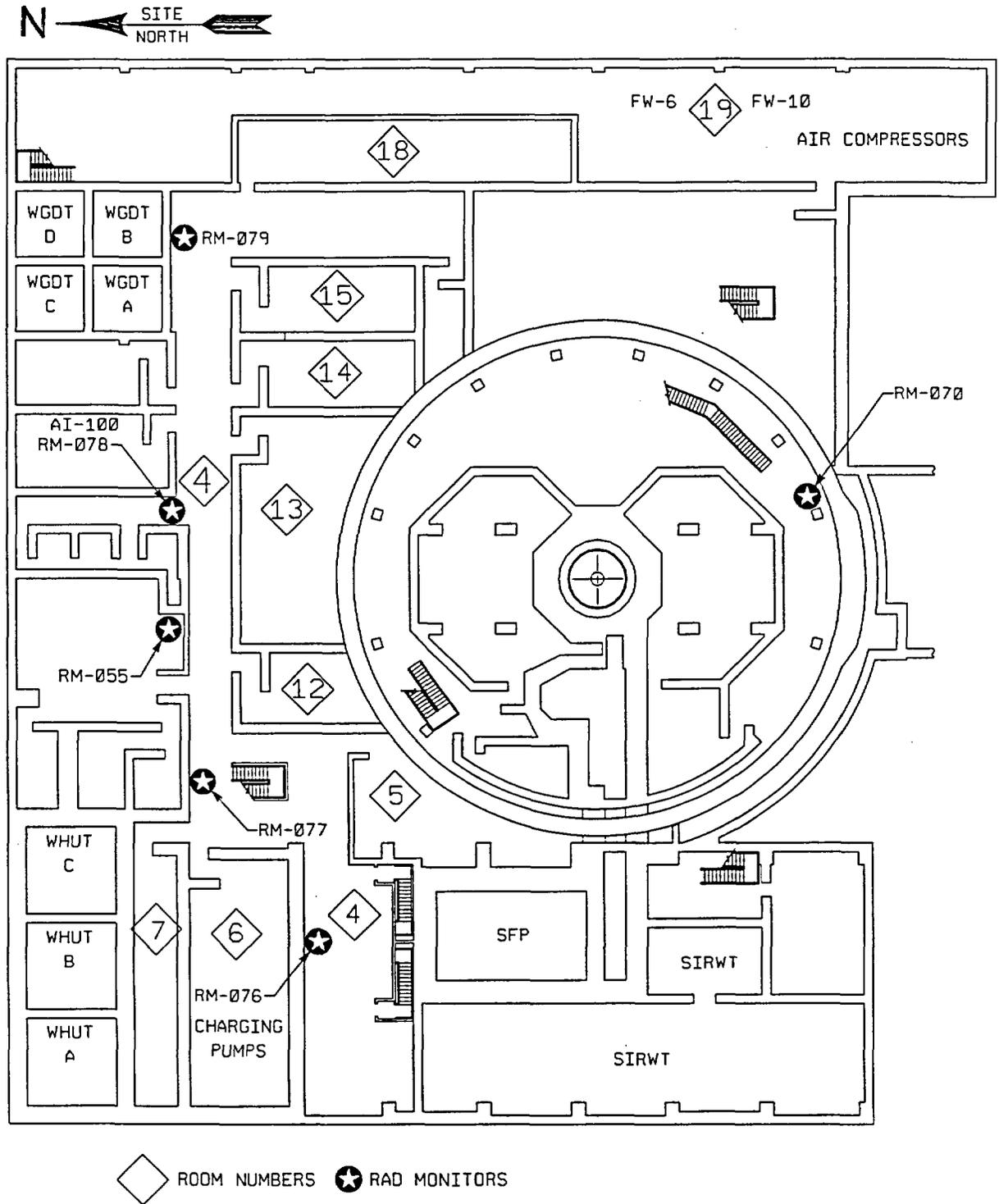
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PROCESS AND AREA MONITOR LOCATIONS



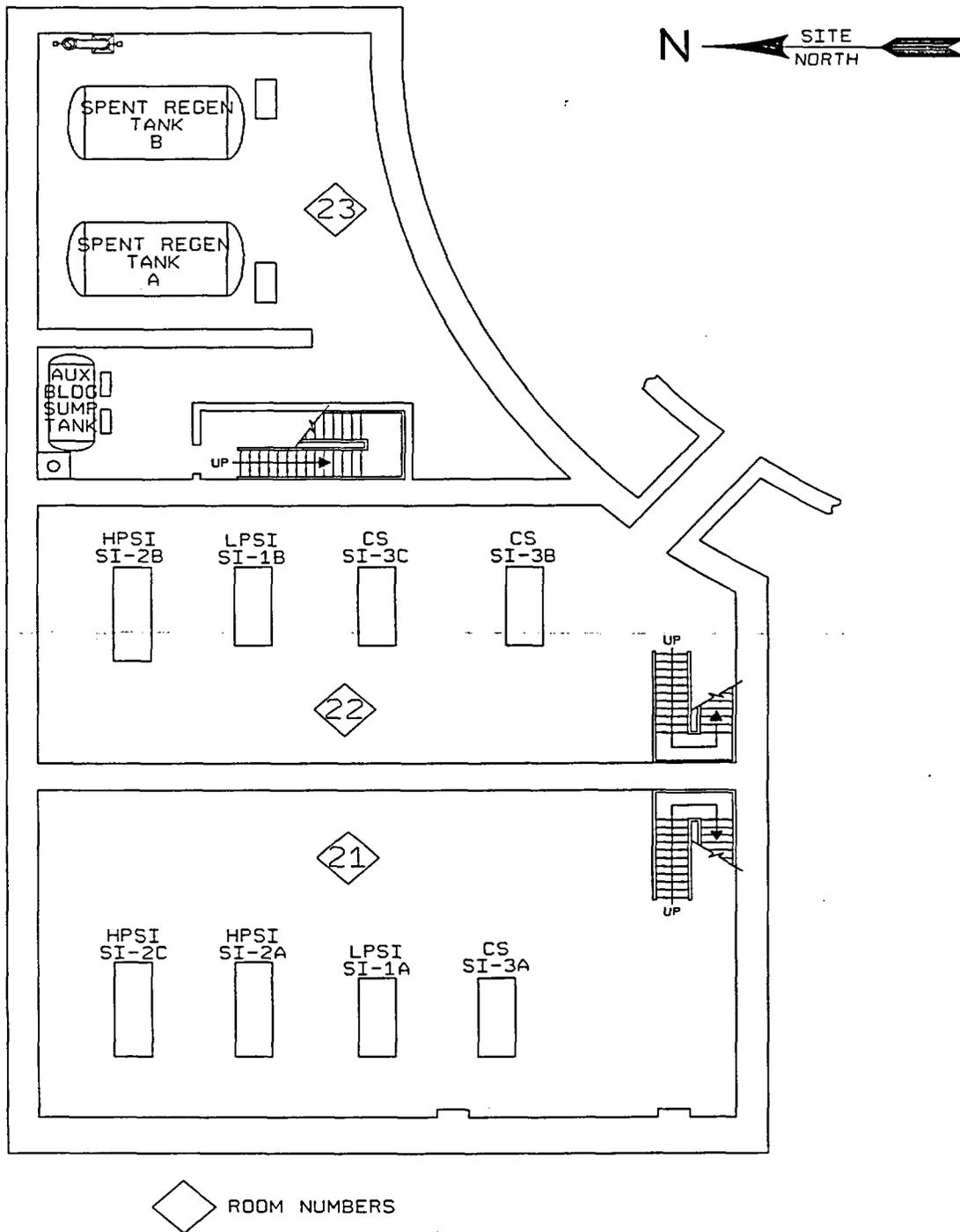
PROCESS AND AREA MONITOR LOCATIONS

AUXILIARY BUILDING (ELEV. 989' -0")

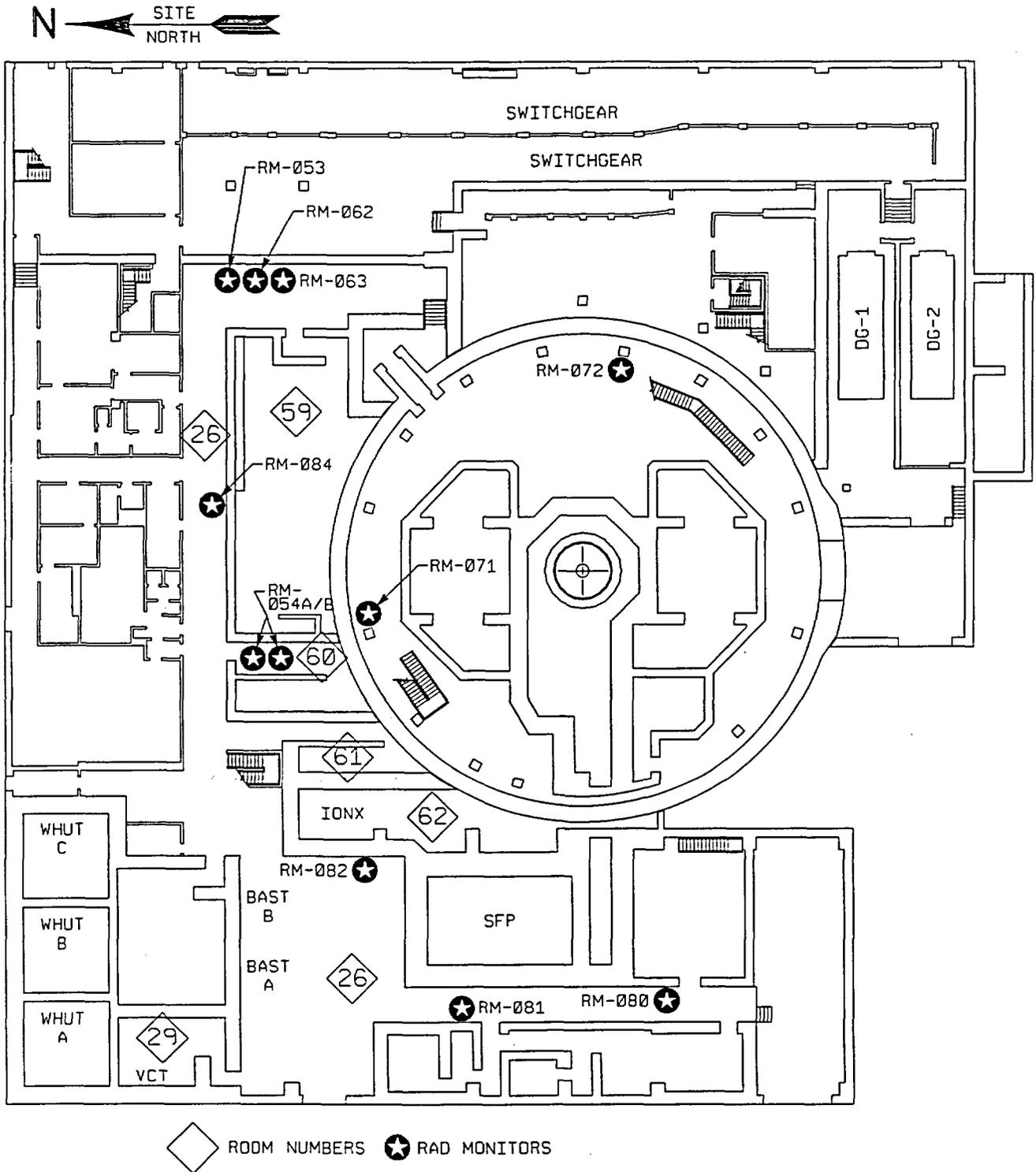


PROCESS AND AREA MONITOR LOCATIONS

AUXILIARY BUILDING (ELEV. 971' -0")

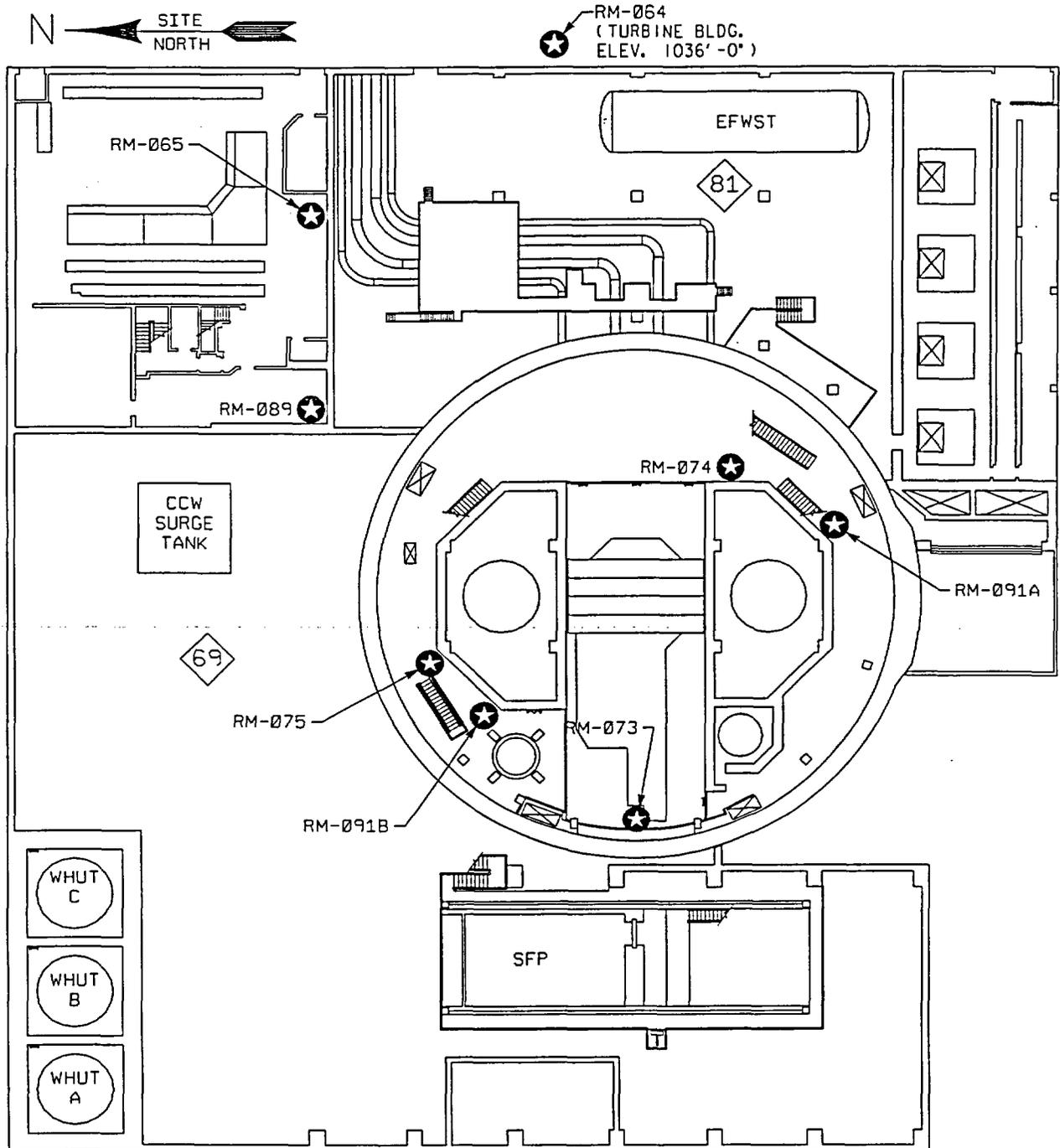


PROCESS AND AREA MONITOR LOCATIONS  
AUXILIARY BUILDING (ELEV. 1007' -0" & 1013' -0")



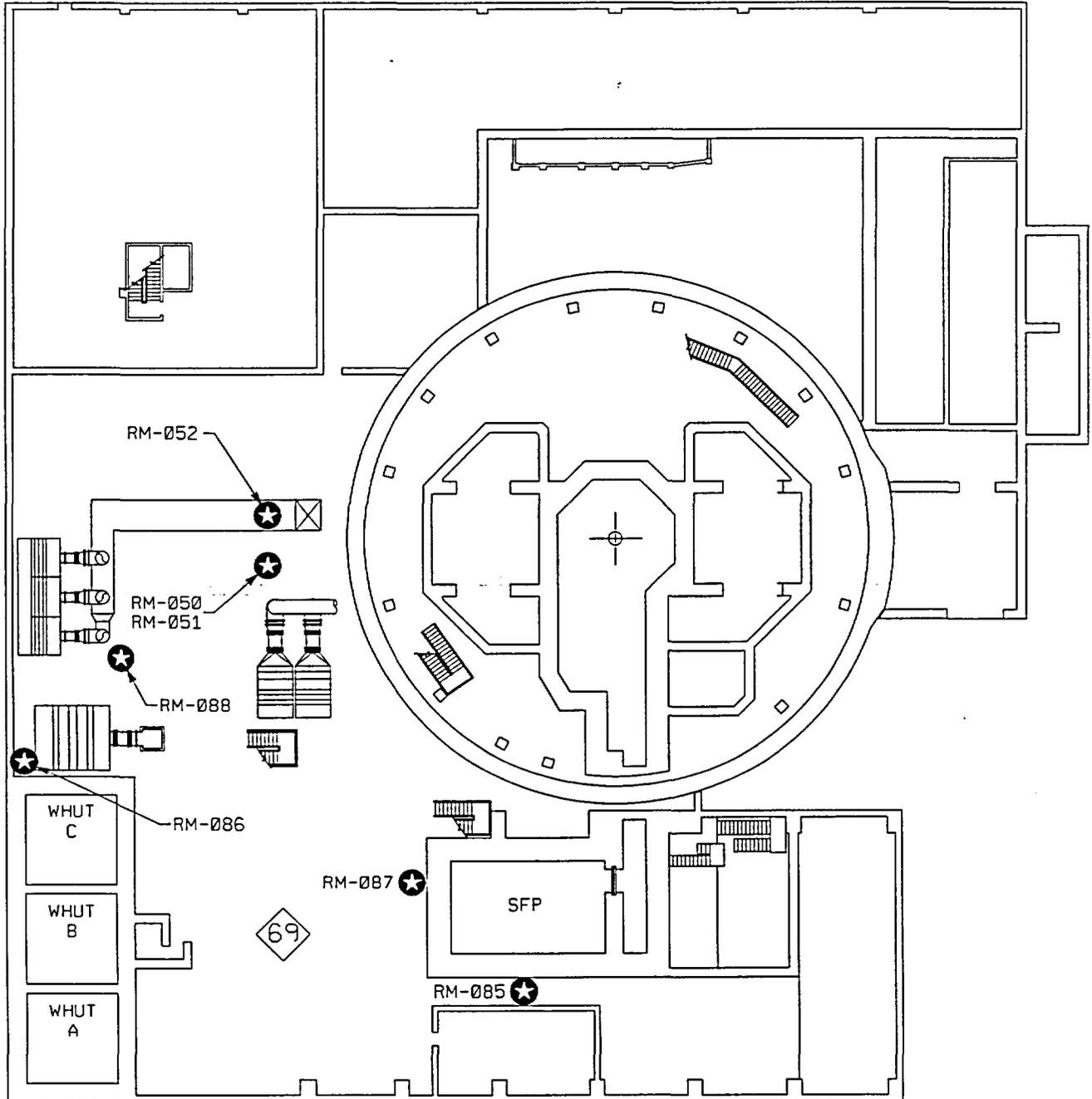
PROCESS AND AREA MONITOR LOCATIONS

AUXILIARY BUILDING (ELEV. 1036' -0")



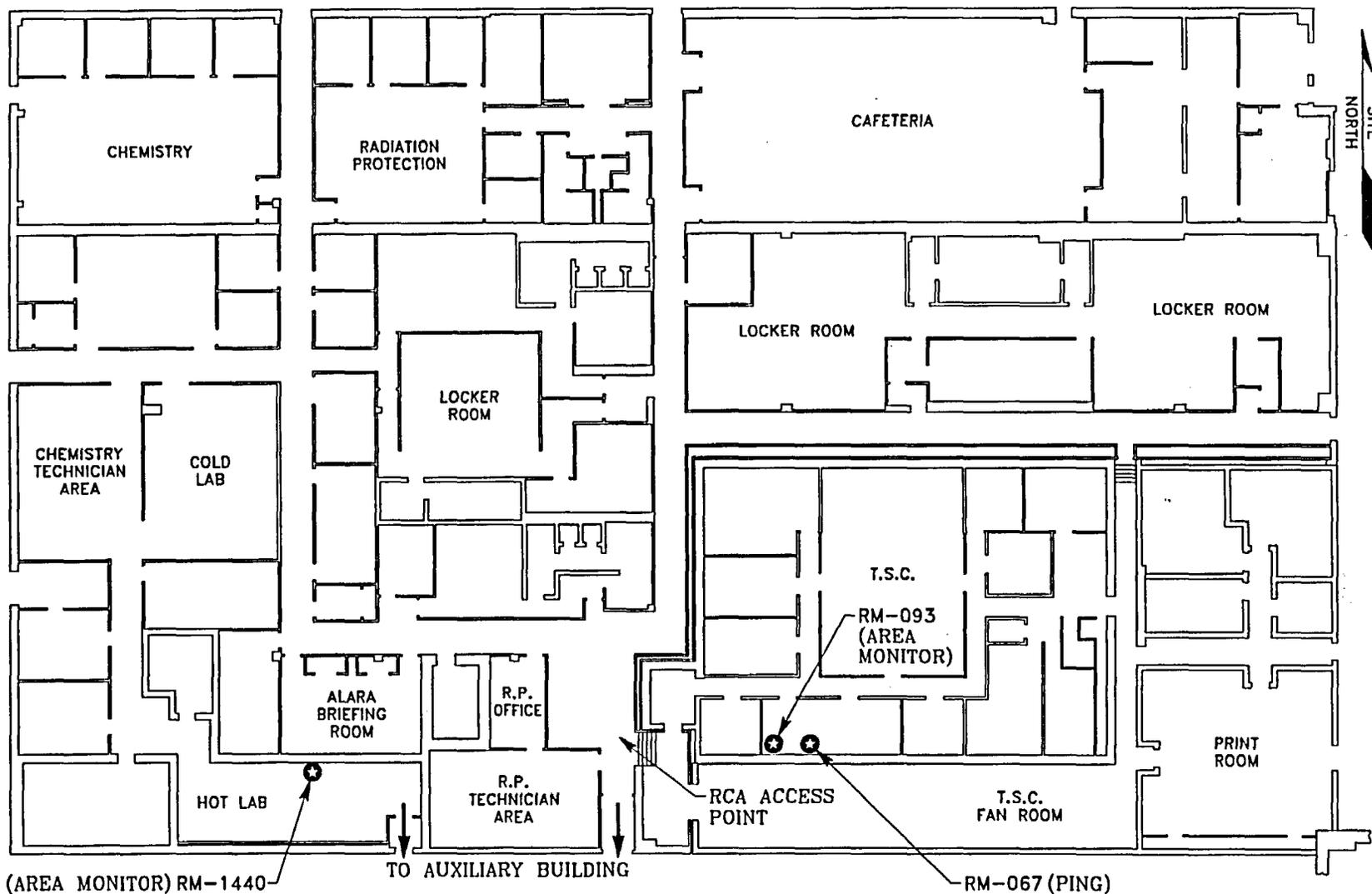
◇ ROOM NUMBERS    ★ RAD MONITORS

PROCESS AND AREA MONITOR LOCATIONS  
AUXILIARY BUILDING (ELEV. 1025' -0")

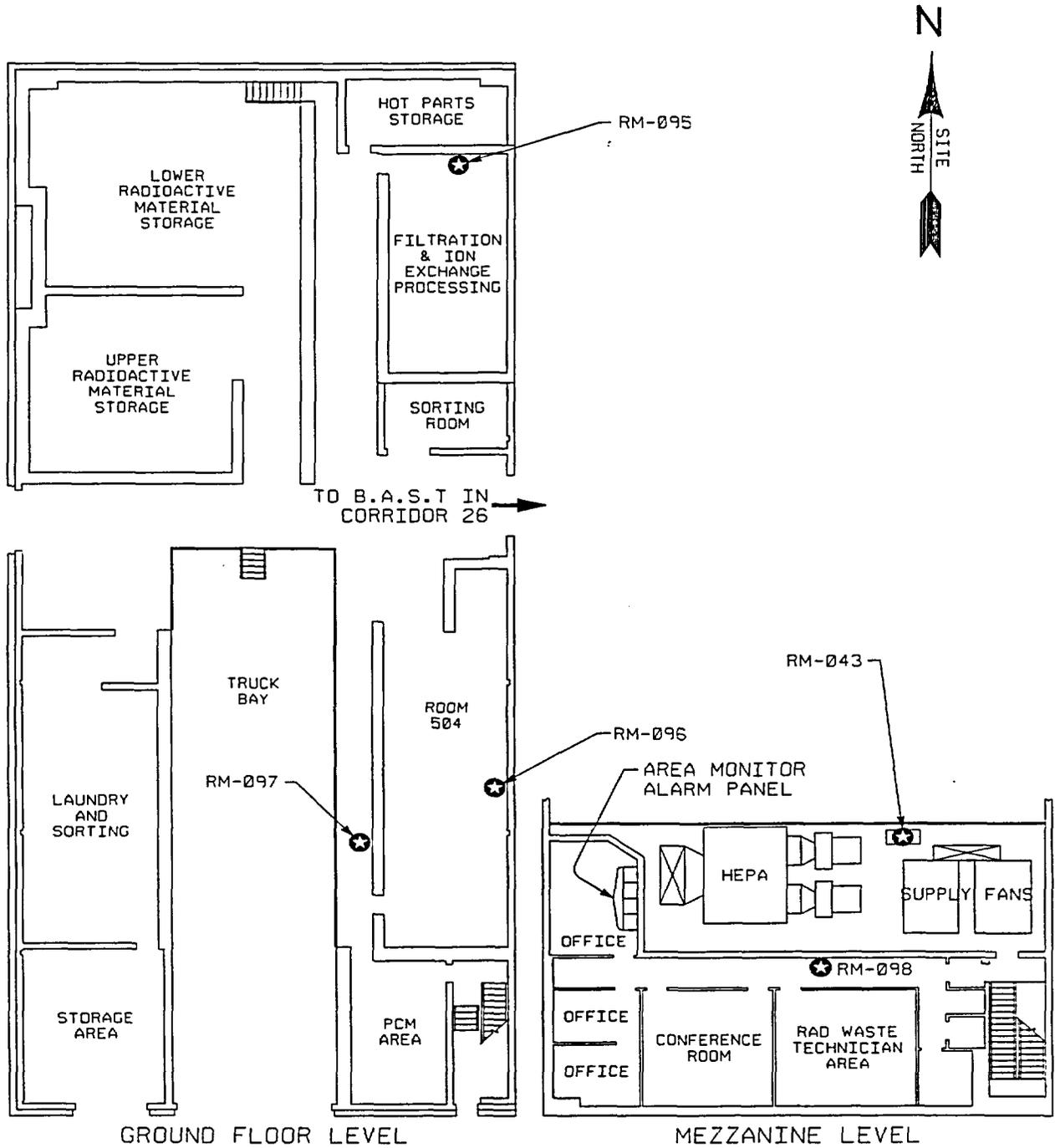


◇ ROOM NUMBERS ★ RAD MONITORS

CHEMISTRY AND RADIATION PROTECTION/CAFETERIA BUILDING

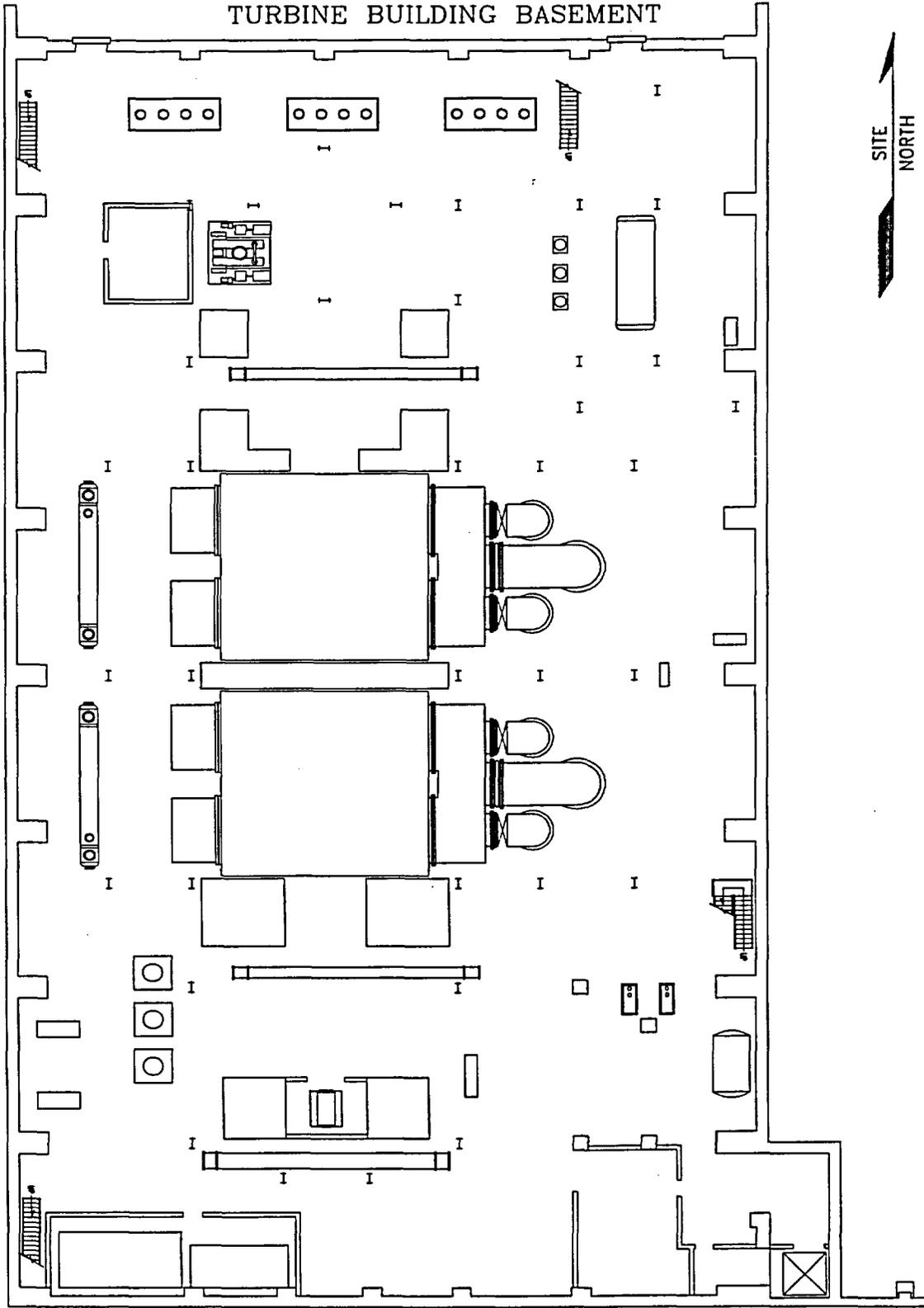


PROCESS AND AREA MONITOR LOCATIONS  
RAD WASTE BUILDING

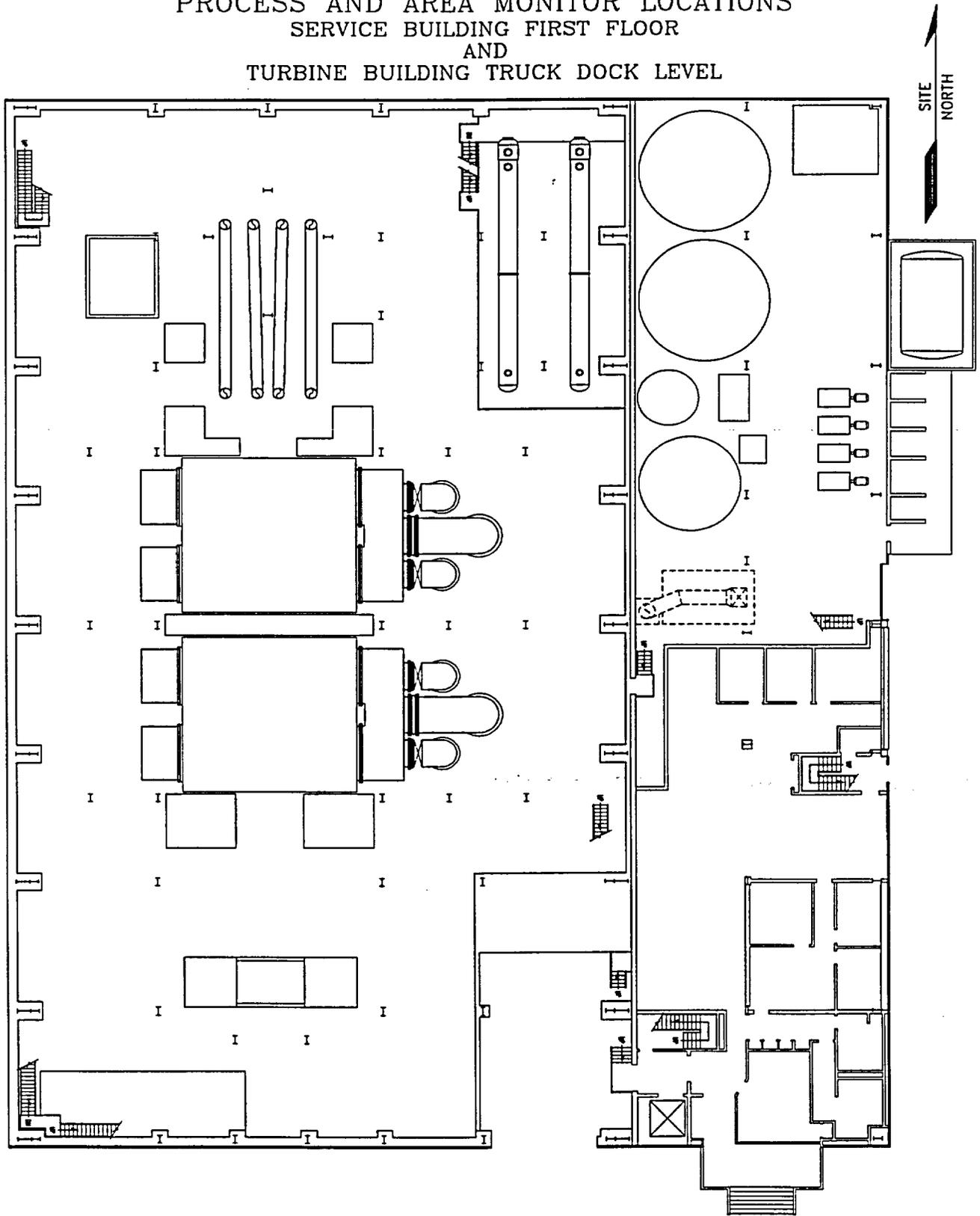


★ RAD MONITORS

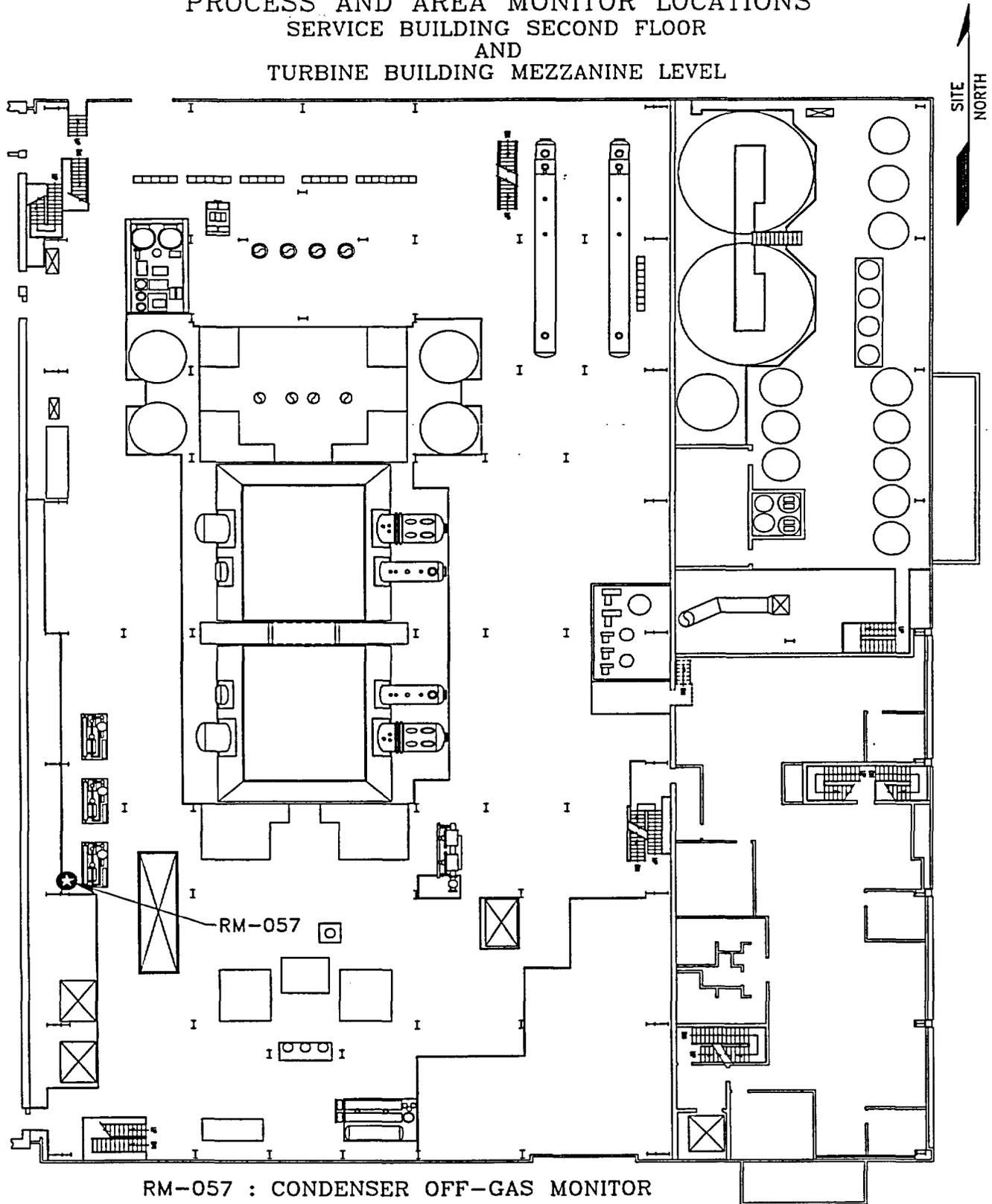
PROCESS AND AREA MONITOR LOCATIONS  
TURBINE BUILDING BASEMENT



PROCESS AND AREA MONITOR LOCATIONS  
SERVICE BUILDING FIRST FLOOR  
AND  
TURBINE BUILDING TRUCK DOCK LEVEL

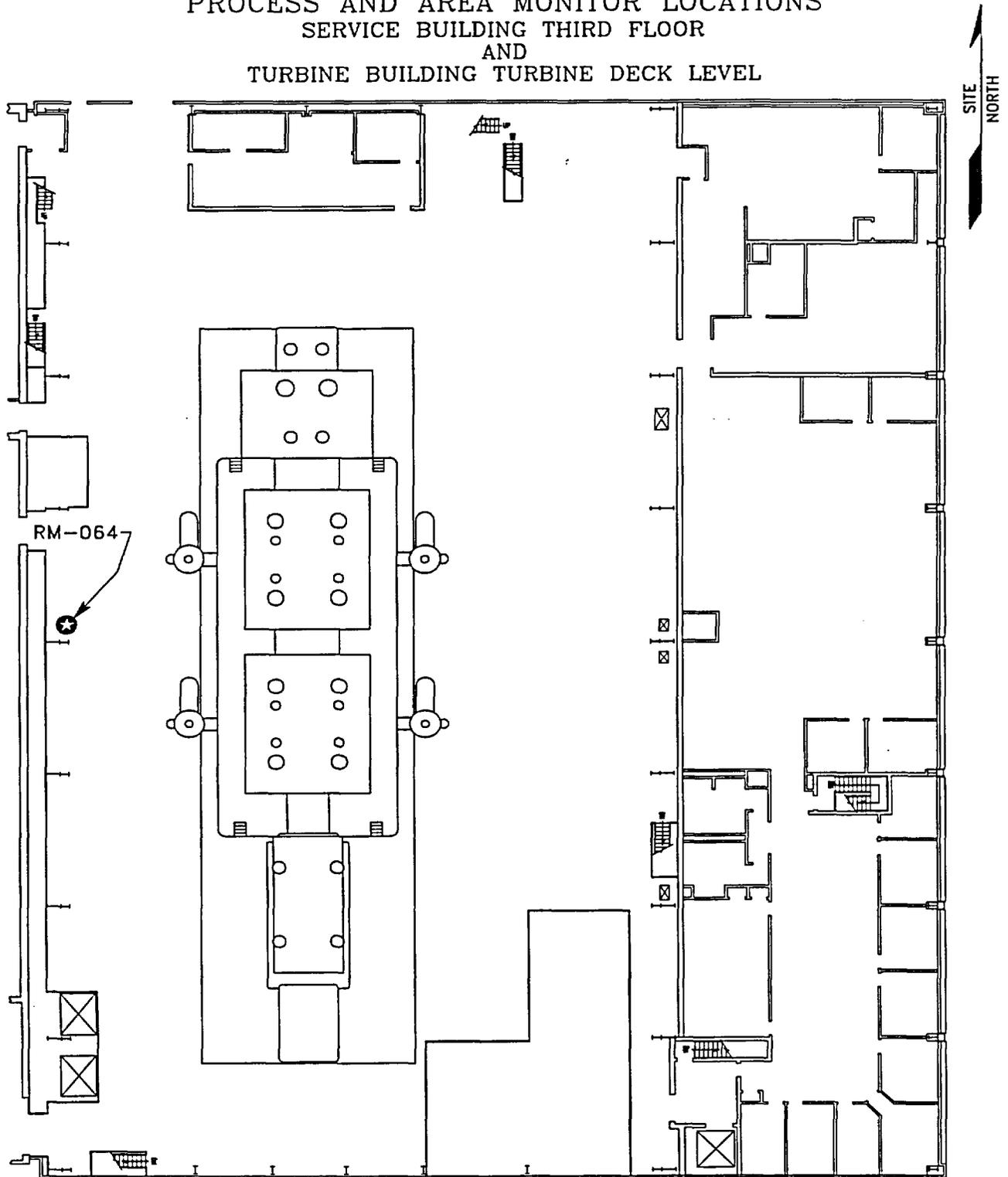


PROCESS AND AREA MONITOR LOCATIONS  
SERVICE BUILDING SECOND FLOOR  
AND  
TURBINE BUILDING MEZZANINE LEVEL



RM-057 : CONDENSER OFF-GAS MONITOR

PROCESS AND AREA MONITOR LOCATIONS  
SERVICE BUILDING THIRD FLOOR  
AND  
TURBINE BUILDING TURBINE DECK LEVEL



RM-064 : POST ACCIDENT MAIN STEAM MONITOR

# PROCESS AND AREA MONITOR LOCATIONS MAINTENANCE SHOP GROUND FLOOR



PROCESS AND AREA MONITOR LOCATIONS  
MAINTENANCE SHOP  
UPPER LEVEL (OSC)

