TUMBER	TITLE .			CUR	RENT REV	ISIC	N		
		Ŧ	DATE	1 =	DATE	1	DATE	1 ±	DAT
2.50.0	Declaration & Categorization of Emer. Cond.	1	3/81	2	9/81	3	6/82		
2.50.1	Notification of Unusual Event	1	3/81	2	9/81	3	10/82		
2.50.2	Alert	1	3/81	2	9/81	3	7/82		
2.50.3	Site Area Emergency	1	3/81	2	9/81	3	11/82		
2.50.4	General Emergency	1	3/81	2	9/81	3	11/82		
2.50.5	Emergency Plan Training and Exercise	0	3/81						
2.50.6	Emergency Equipment Readiness Check	16	10/82						
2.50.7	Emergency Cn-Site Radiation Monitoring Procedure	0	3/81	1	9/81	2	11/82		
2.50.8	Medical Emergency Plan	0	3/81						
2.50.9	Security Force Radiation Emergency Plan	0	3/81	1	9/81				
2.50.10	Evaluation of Radiological Data	1	3/81	2	9/81				
2.50.11	Plant Entry and Recovery Plan	4	6/80	4	7/82	5	10/82		
2.50.12	Emergency Off-Site Radiation Monitoring Proc.	0	3/81	1	10/82				
2.50.14	Emergency Radiation Exposure Control	0	3/81	1	9/81	2	10/82		
2.50.15	Pelease of Public Information	2	3/81						
2.50.16	Off-Site Protective Action Recommendations	0	3/81						
2.50.17	Emergency Notification	4	7/82						

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2.50.18	Operations Suppor	t Center	0	3/80	1	7/82				
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2.50.19	Technical Support	Center	0	3/80	1	7/82				
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Proc. No. 2.50.7
Class. A
Rev. No. 2
Issue Date 11-17-82
Review Date 11-17-84

2.50.7 EMERGENCY ON-SITE RADIATION MONITORING PROCEDURE

1.0 DISCUSSION

Radiological surveys must be performed in order to verify instrumentation readouts provided in the Control Room and also to provide information about radiological conditions in areas not covered by the fixed in-plant monitors. Additional surveys to determine habitability of emergency response centers must be performed as well as surveys of personnel and equipment for exposure to radiation or contamination. These surveys should be performed as soon as possible after the declaration of an emergency that has possible in plant radiological consequences.

2.0 OBJECTIVE

R To establish a procedure for on-site radiation monitoring that is to be performed by shift H.P. Technicians during emergency conditions.

3.0 REFERENCES

- 3.1 HP Procedure 9.1.1.
- 3.2 Emergency Plan Procedure 2.50.14, "Emergency Radiation Exposure Control."
- R 3.3 Emergency Plan Procedure 2.50.12, "Emergency Off-site Radiation Monitoring."
- R 3.4 H.P. Procedure 9.1.6, "Establishing and Posting Controlled Areas."

4.0 PRECAUTIONS

- R 4.1 Maintain radiation exposure within the limits specified by 2.50.14.
- R 4.2 If survey instruments fail or saturate, retreat to a safe location immediately.
 - 4.3 Use proper respiratory protection in areas of known or suspected high airborne radioactivity.

5.0 PREREQUISITES

- 5.1 Check all survey equipment for battery response and source response prior to use.
- 5.2 If air samples at the security fence or other outside areas are to be taken, obtain a Company vehicle to provide battery power for the air sampler.

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6.0 EQUIPMENT

- 6.1 High range survey meter.
- 6.2 Battery operated or A.C. powered air sampler with particulate filter and charcoal or silica gel cartridge.
- 6.3 Count rate instrument with G.M. detector or standard swipes and counter for contamination measurements.
- 6.4 High range dosimeter.
- 6.5 In-plant Survey forms.

NOTE: In-plant survey forms are located on the H.P. check point, the O.S.C. Emergency Cabinet (for O.S.C. and Control Room use).

7.0 PROCEDURE

- 7.1 Unusual Event Emergency
- Perform radiation, contamination and airborne radioactivity surveys in accordance with H.P. Procedure 9.1.1 in the affected area as requested by the Emergency Coordinator and/or the Radiological Evaluation Assistant.
- Perform special surveys as requested by the Emergency Coordinator and/or the Radiological Evaluation Assistant.
- R
 3. Perform surveys of affected personnel for radiation and contamination as dictated by the circumstances of the event. Report any high exposure (in excess of plant administrative limits or 10 CFR 20 limits) to an H.P. Supervisor. Report any personnel contamination requiring followup (unsuccessful decontamination or positive nasal smear) to an H.P. Supervisor or the Emergency Coordinator.
 - 4. Report survey results to the H.P. Supervisor or the Emergency Coordinator.
 - 5. Following completion of the surveys, appropriately post and establish boundaries and controls per Procedure 9.1.6.
 - 6. Accompany any contaminated injured employee to the Hospital and provide necessary radiological controls.

7.2 Alert Emergency

 Perform radiation, contamination and airborne radioactivity surveys, in accordance with HP Procedure No. 9.1.1, in the affected area as requested by the Emergency Coordinator and/or the Radiological Evaluation Assistant.

- Perform special surveys requested by the Emergency Coordinator and/or the Radiological Evaluation Assistant.
- 3. Perform surveys necessary to determine the habitability of the Control Room, the Technical Support Center (TSC) and the Emergency Operations Facility (EOF). Limits are specified in the Emergency Radiation Exposure Control Procedure 2.50.14, Table 1. Rezero the center pocket dosimeter. Note the time and secure the dosimeter in an appropriate location.
- 4. Perform surveys of affected personnel for radiation and contamination as dictated by the circumstances of the incident. Report any high exposure (in excess of plant administrative limits or 10 CFR 20 limits) to the Radiological Evaluation Assistant. Report any personnel contamination requiring followup (unsuccessful decontamination or positive nasal smear) to the Radiological Evaluation Assistant.
 - 5. When time or additional personnel are available, proceed to the EOF and survey evacuated personnel for contamination and radiation exposure. Use the guidelines in Step 3 for reporting individuals requiring followup.
 - 6. Report all survey results to the Radiological Evaluation Assistant.
 - 7. If time and dose rates permit establish boundaries and post areas in accordance wth Procedure 9.1.6.
 - 8. Accompany any contaminated injured employee to the Hospital and provide necessary radiological controls.

7.3 Site Area Emergency

- Transport as many survey instruments as possible to the Operations Support Center (OSC).
- Perform the surveys necessary to deterine the habitability of the OSC, Control Room, VSC and the EOF. Limits are specified in the Emergency Radiation Exposure Control Procedure 2.50.14, Table 1. Rezero the center pocket dosimeter. Note the time and secure the dosimeter in an appropriate location.
- Perform radiation, contamination and airborne radioactivity sur eys, in accordance with HP Procedure 9.1.1, in the affected areas as requested by the Emergency Coordinator and/or the Radiological Evaluation Assistant.
 - 4. Perform special surveys as requested by the Emergency Coordinator or the Radiological Evaluation Assistant.

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- 5. When time or additional pesonnel are available, proceed to the EOF and survey evacuated personnel for contamination and radiation exposure. Report any high exposure (greater than 3 rem) or personal contamination or positive nasal smear to an HP Supervisor so evaluation and/or decontamination and followup can be performed.
- 6. Report all survey results to the Radiological Evaluation Assistant.
- 7. When personnel are available, establish a Site Access Control Point and survey all vehicles leaving the site. Report any contaminated vehicles to the EOF.
- 8. When time permits, update the site survey map with current survey information.
- Accompany any contaminated injured employee to the Hospital and provide necessary radiological controls.

7.4 General Emergency

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- 1. Transport as many survey instruments as possible to the OSC.
- Perform the surveys necessary to determine the habitability of the OSC, Control Room, TSC and the EOF. Limits are specified in the Emergency Radiation Exposure Control Procedure, 2.50.14, Table I. Rezero the center pocket dosimeter. Note the time and secure the dosimeter in an appropriate location.
- 3. Perform radiation, contamination and airborne radioactivity surveys, in accordance with HP Procedure 9.1.1, in the affected area as requested by the Emergency Coordinator and/or the Radiological Evaluation Assistant.
- 4. Perform other surveys as requested by the Emergency Coordinator or the Radiological Evaluation Assistant.
- 5. When time or additional personnel are available, proceed to the EOF and survey evacuated personnel for conamination and radiation exposure. Report any high exposure (greater than 3 rem) or personal contamination or positive nasal smear to an HP Supervisor so evaluation and/or decontamination and followup can be performed.
- 6. When personnel are available, establish a Site Access Control Point and survey all vehicles leaving the site. Report any contaminated vehicles to the EOF.
- 7. When time permits, update the site survey map with current survey information.
- 8. Accompany any contaminated injured employee to the Hospital and provide necessary radiological controls.

8.0 FINAL CONDITIONS

- 8.1 Necessary on-site radiation surveys have been performed.
- R 8.2 A qualified radiological monitor, assigned by the Emergency Coordinator, will accompany contaminated injured employees to the hospital!

NOTE: If a number of employees are contaminated injured patients, then the initial radiological monitor assigned will standby at the hospital to assist in processing the incoming patients. Additional monitors will not be assigned for each patient.

INDEX OF SURVEY FORMS

AREA	PAGE NO.
Containment El. 2'	1
Containment El. 20'	2
Containment El. 46'	3
Personnel Hatch	4
Primary Auxiliary Bldg. 1st Floor	5
Primary Auxiliary Bldg. 2nd Floor	6
Primary Auxiliary Bldg. 3rd Floor	7
Primary Auxiliary Bldg. Vent Room	8
Area between Spray Bldg. & Cont. Equip Hatch	9
Service Building	10
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RCA Storage Area	19
Gate House	20
Office Building	21
Administration Bldg.	22
Control Room	23
Operational Support Center	24
Emergency Operations Facility	25

Reactor	Power	Level	9/
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Counter_____Eff. _____Bkg. ____

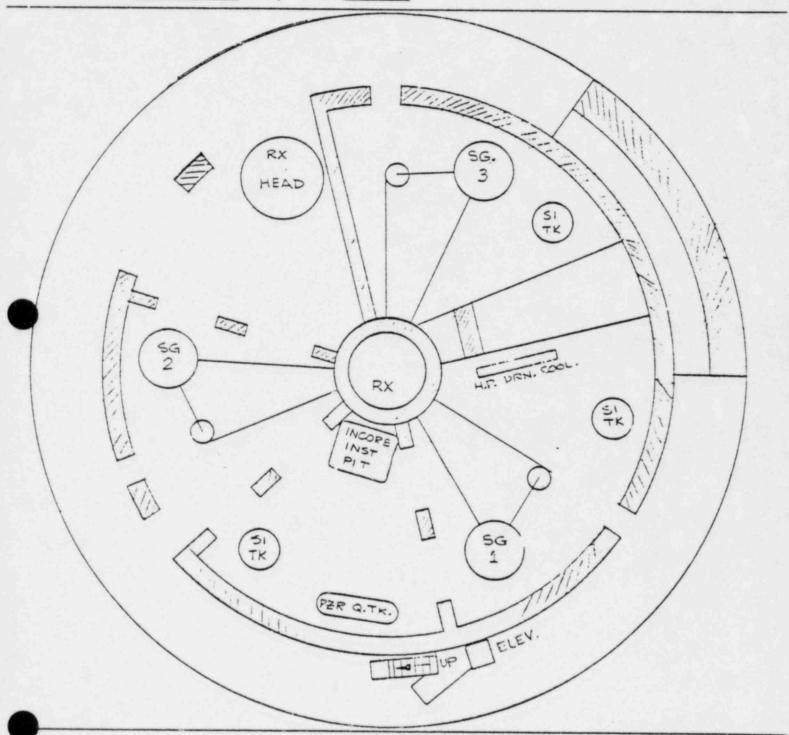
Survey Inst. No. _____

Survey Inst. _____ Survey Inst. No.___

Date____

Time ____

Tech _____



NOTE:

- (1) All dose rates are reported in MREM/HR at waist level unless otherwise specified.
- (2) All contamination results are reported in DPM/100 cm².

Survey - CONTAINMENT - Elev. 20' (2nd level)

	Reactor Power Level%	Date
Counter	Eff Bkg	Time
Survey Inst.	Survey Inst. No	Tech
Survey Inst.	Survey Inst. No	
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NOTE: (1) All dose rates are reported in MREM/HR at waist level unless otherwise specified.

(2) All contamination results are reported in DPM/100 cm².

Survey - CONTAINMENT - Elev. 46' (Upper Level)

Survey Inst.	BkgSurvey Inst. No	Time
SG 2	RX SG 1	

NOTE:

- (1) All dose rates are reported in MREM/HR at waist level unless otherwise specified.
- (2) All contamination results are reported in DPM/100 cm².

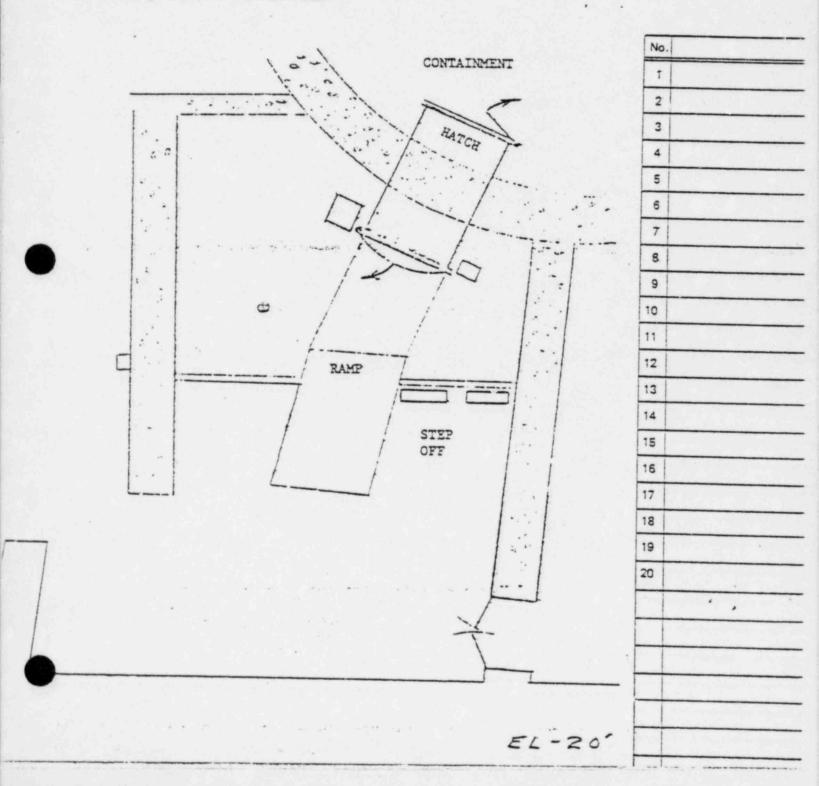
Bkg.

MAINE YANKEE ATOMIC POWER COMPANY

PERSONNEL HATCH SURVEY FORM

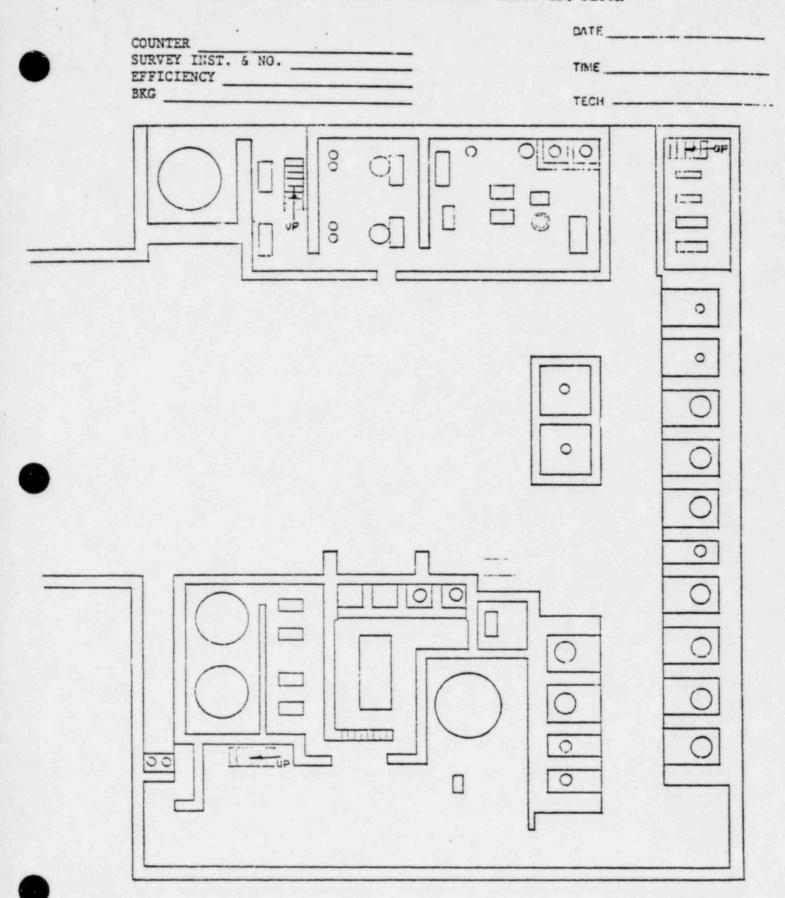
		DATE	
COUNTER	The second second second	TIME	·
SURVEY INST. & NO.		H.P.TECH.	
Efficiency			

NOTE: All readings to be in MR/HR or dpm/100cm2



Proc. No. 2.50.7 Rev. No. 2

RADIATION SURVEY - PRIMARY AUXILIARY BLDG.-1st FLOOR



NOTE: (1) DOSE RATE READINGS INDICATE MREMAIR AT WAIST LEVEL UNLESS OTHERWISE SPECIFIED.

(2) CONTAMINATION SURVEY AFFORTED IN DPM/100 CM2 UNITS-INDICATE LOCATION & ACTIVITY WITH CIRCLED READING.

-5-

Proc. No. 2.50.7 Rev. No. 2

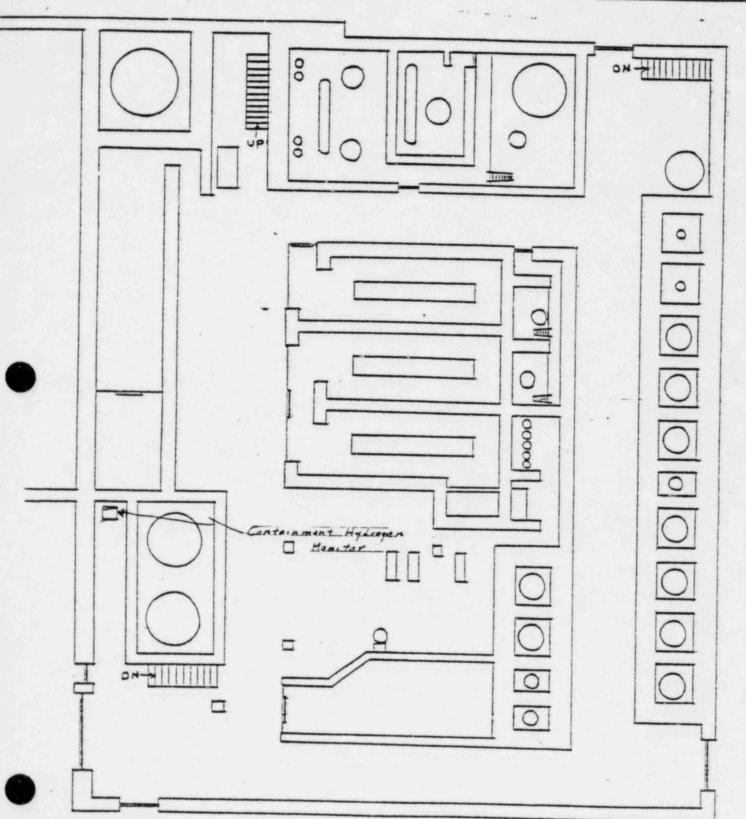
PRIM. HUX. BLDG 2 " FLOOR

COUNTER DATE
SURVEY INST. + NO.

FFICIENCY

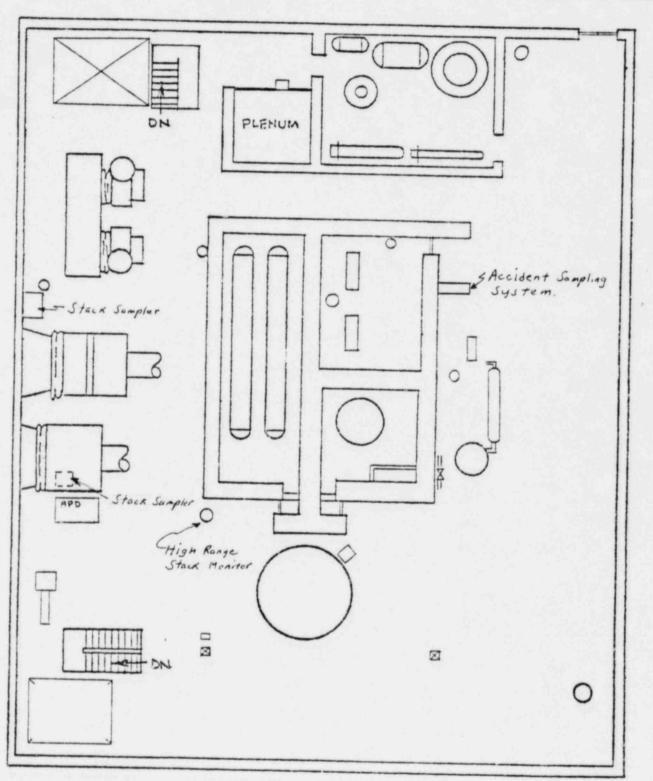
KG

TIME



DOSE RATES IN MY/AY UNLESS OTHERWISE SPECIFIED CONTAMINATION LEVELS IN DPM/100Cm2

COUNTER	DATE
SURVEY INST. & NO.	TIME
BKG	TECH



NOTE (I) DOSE RATE READINGS INDICATE MREM/HR AT WAIST LEVEL UNLESS OTHERWISE SPECIFIED (2) CONTAMINATION SURVEY REPORTED IN DPM/100 CM2 UNITS -INDICATE LOCATION & ACTIVITY WITH CHICLED READING.

Proc. No. $\frac{2.50.7}{2}$ Rev. No. $\frac{2}{2}$

Counter	Inst. Type & No.	Date
E		Time
Bkg.		Tech

NOTE: All Dose Rate readings in MR/HR.

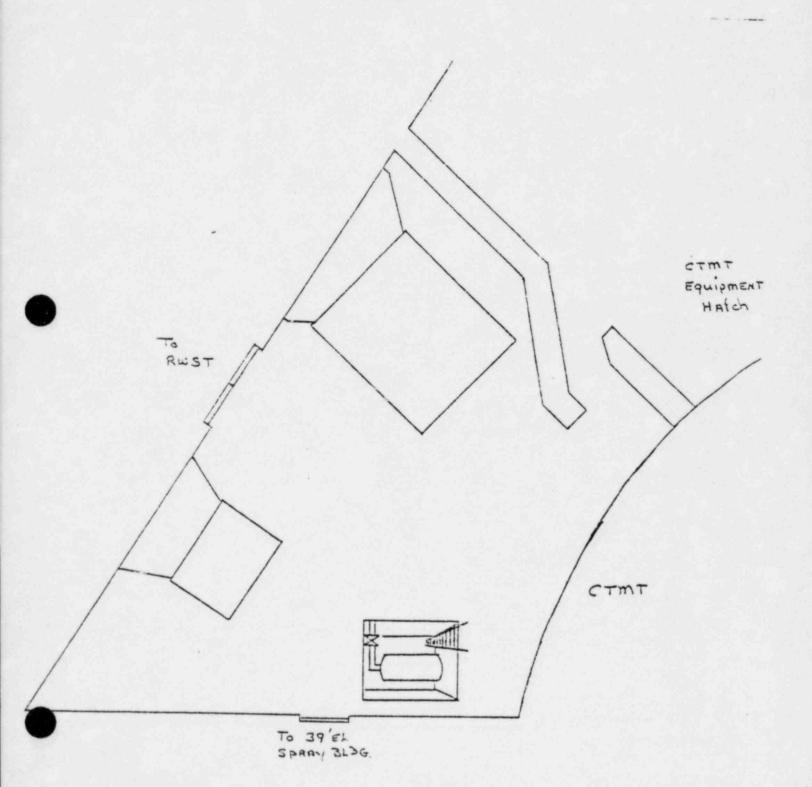
All Contamination readings are circled in DPM/100cm². Area/Item YENT. Rm. 36'EL P.R.B. FL - 10048 FL - 77 - 78 - 79 EXIT

Time ____

Tech.

NOTE: All Dose Rate readings in MR/HR.

All Contamination readings are circled in DPM/100cm².



MY-HP-26-72 (Rev. 3)

MAINE YANKEE ATOMIC POWER COMPANY SERVICE BUILD. ROUTINE SURVEY

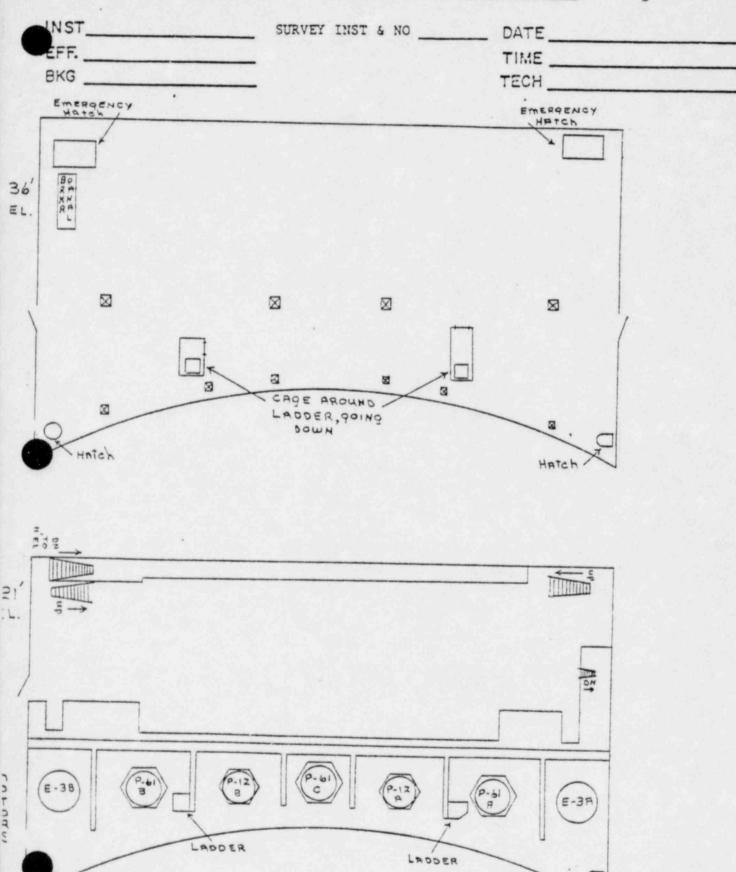
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		RCA Tool	Decon	1		HP	Chem.	
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n	Office	Lunch Rm.	Head	Secondar Locker Rm.	-7			
	Maint. Supv.			Body Resp.	ing [Chem. HP Offic	X	

Hallway

Rev. No. 2

LADDER

MAINE YANKEE ATOMIC POWER CO. SPRAY BUILDING ROUTINE SURVEY PAGE 1



HATCH

Proc. No. 2.50.7 Rev. No. 2

: MAINE YANKEE ATOMIC POWER CO. SPRAY BUILDING ROUTINE SURVEY

PAGE 2

NSTEFFBKG	SURVEY INST & NO	TIMETECH
811	'	
(E-3) (P-b)	ρ _{-,2}	
(F-3) (P-6)		(B-3)

MAINE YANKEE ATOMIC POWER CO.

TURB. BUILDING EL. 61-0	O" SURVEY
FORM	
	DATE
	TIME _
SCALE/INST	TECH.
MODEL AREA	A OR ITEM TUCK BUILDING BL WI'-C"
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SKG.	
NOTE: ALL READINGS TO BE IN MR/HR OR dpm/100 cm	
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MAINE YANKEE ATOMIC POWER CO.

TURBINE BLDG EL. 39'-0"SURVEY FORM

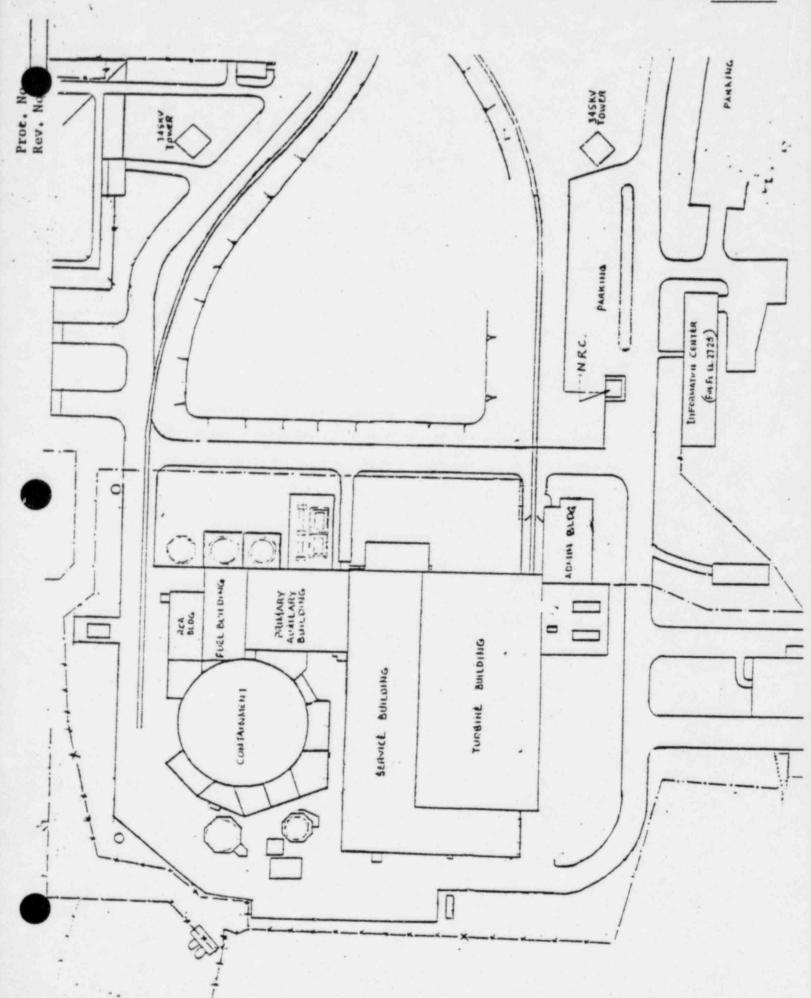
		DATE
SCALES/INST.		TIME
MODEL	AREA OR ITEM	
EFFICIENCY		
BKG.		
NOTE: ALL READINGS TO BE IN MR/HR. OR dpm	n/100 cm ²	
E-11A E-11B E-13A E-14A E-15A	E-138 E-148 E-158	
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19 TANK	F	
	TK-20A	
E-10 A	E-10B	GEN.
CONDE	NSER CONDENSER	LEADS
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RESERVOIR TK-57	TK ZOB	IR EJECTORS
1K-3/	[208]	

MAINE YANKEE ATOMIC POWER CO.

TURB. BLDG-EL. 21'-0" SUREY FORM

SCALES/INST	TIME
NOTE: ALL READINGS TO BE IN MR/HR. OR dpm/100 cm2	
E-11A E-11B E-13A E-14A E-15A E-13B O O O O	E-149 E-153 D-9A E-4B P-9B F-5B
P-ZA TM. GEN. TO. PUMPS TANK P-ZB E-10A E	P-10A P-10A P-10A P-10B P-10B
	ONIDENSER P.28A Pp P-282 CO2 STORE.

EAST WALL TUPE PLOG.



RADIATION SURVEY - FUEL BUILDING - 1ST & 2ND LEVELS

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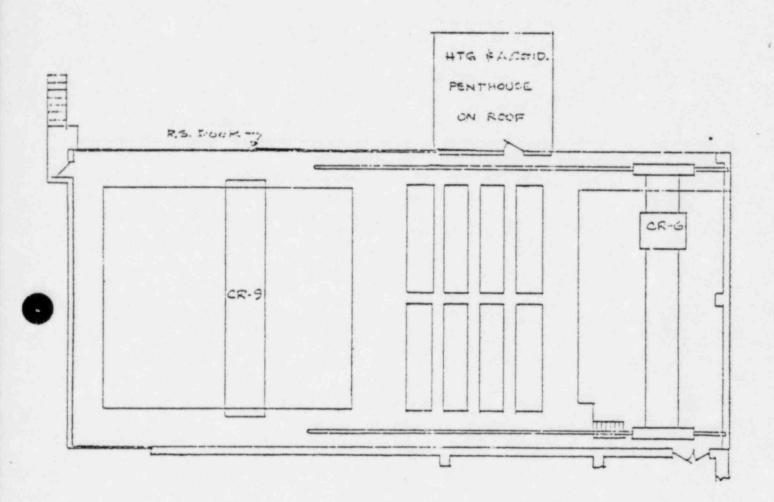
NOTE: (1) Dose Rate Readings Indicate MREM/MRAT Waist Level Unless Otherwise Specified.

(2) Contamination Survey Reported in DPM/100 CM² Units - Indicate Location & Activity with Circled Reading.

Proc. No. 2.50.7 Rev. No. 2

RADIATION SURVEY - FUEL BUILDING - UPPER LEVEL

COUNTER	DATE
JRVEY INST. & NO	TIME
EFFICIENCY	TECH



NOTE: (1) DOSE RATE REACINGS INDICATE MREM/HR AT WAIST LEVEL UNLESS OTHERWISE SPECIFIED

(2) CONTAMINATION SURVEY REPORTED IN OPM/ICO CM2 UNITS-INDICATE LOCATION & ACTIVITY WITH CIRCLED READING.

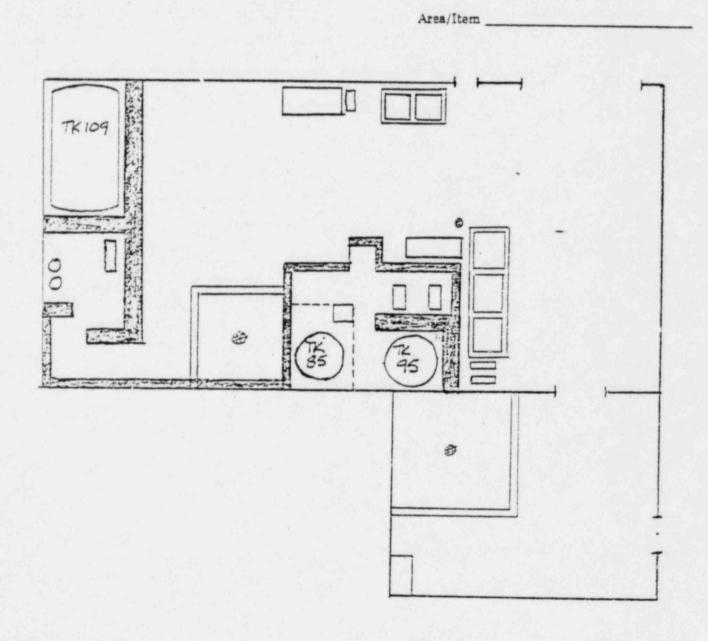
Rev. No. 2

MAINE YANKEE ATOMIC POWER COMPANY

Counter	Inst. Type & No.	Date
Eff		Time
Bkg		Tech.

NOTE: All Dose Rate readings in MR/HR.

All Contamination readings are circled in DPM/100cm².



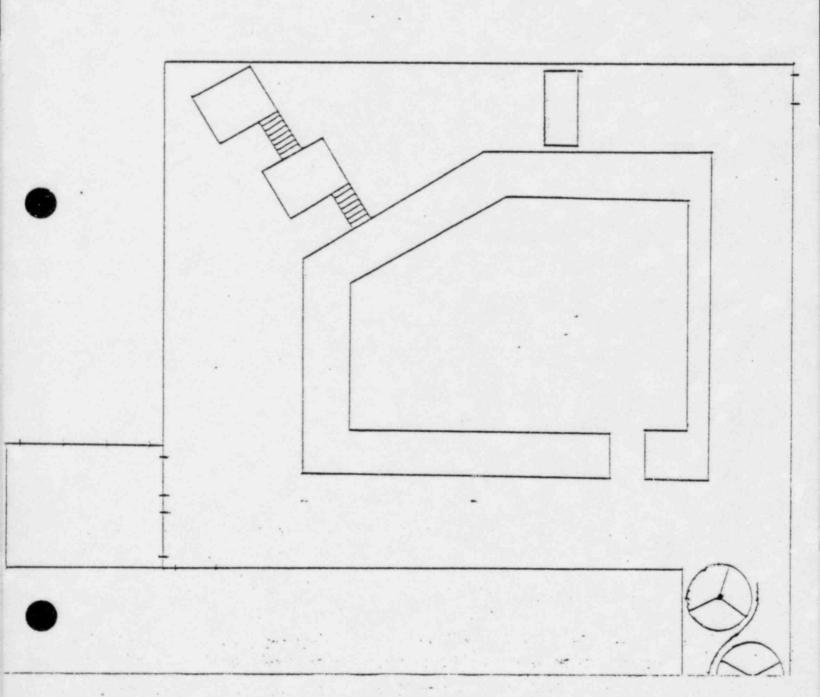
MAINE YANKEE ATOMIC POWER COMPANY

Counter	Inst_Type & No	_ Date_	
iff.		Time_	
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NOTE: All Dose Rate readings in MR/HR.

All Contamination readings are circled in DPM/100cm².

Area/Item Gate House Workly



MY-HP-94-77

MAINE YANKEE ATOMIC POWER COMPANY

NEW OFFICE BUILDING

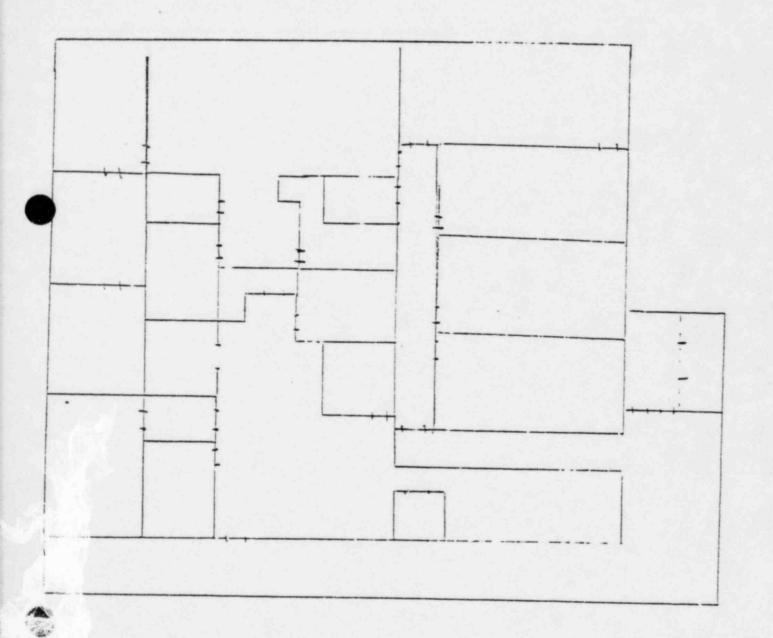
	DATE
Scales/Inst.	
Model	
Bkg.	
NOTE: All readings to be in MR/HR or dpm/100cm	
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MY-HP:57-75 Rev. 1

MAINE YANKEE ATOMIC POWER COMPANY

ADMINISTRATION BUILDING SURVEY FORM

	DATE
Scales/Inst.	
Model	Area or Item ADMINISTRATION BLDG.
Efficiency	
Bkg	
NOTE: All readings to be in MR/HR or dpm/100cm ²	

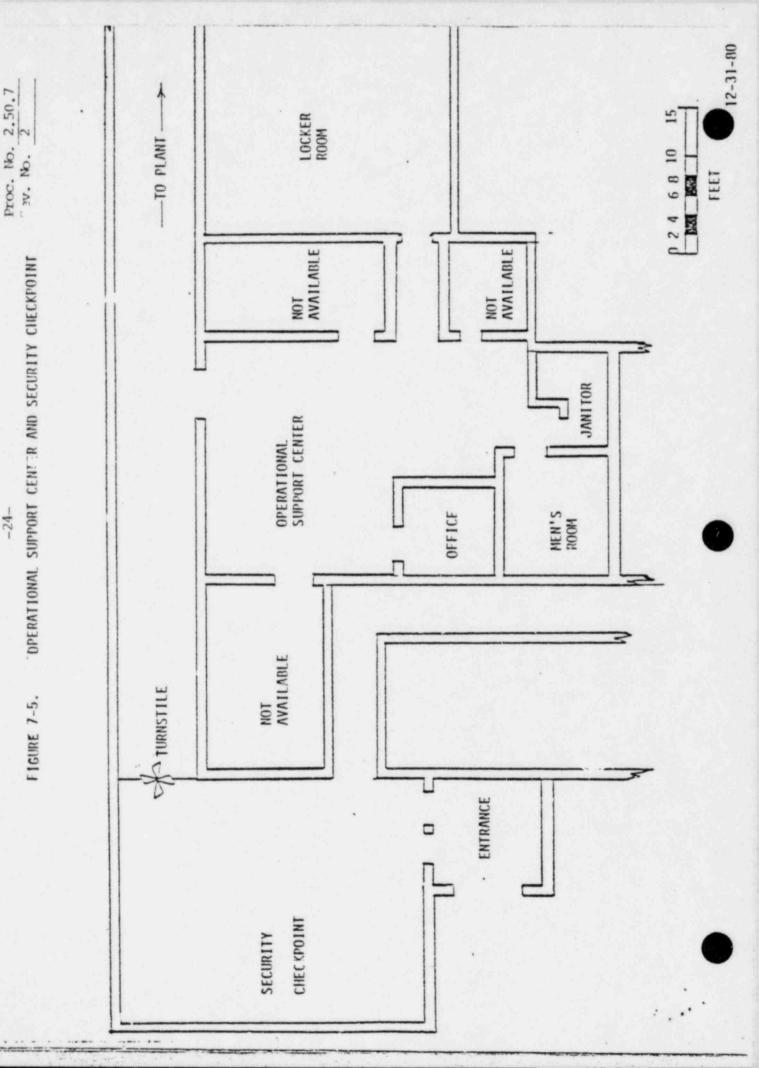


MAINE YANKEE ATOMIC POWER COMPANY

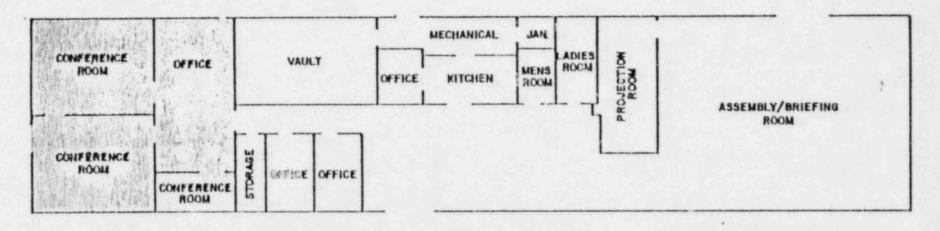
Proc. No. 2.50.7 Rev. No. 2

CONTROL ROOM SURVEY FORM

COUNTER	DATE TIME TECH.
NOTE: All readings to be in MR/HR or dpm/100cm ²	



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EOF (SHADED AREA)

SCALE IN FEET

FIGURE 7-3

PRIMARY EMERGENCY OPERATIONS FACILITY (Information Building)

Proc. No. 2.50.