

Although each survey form has space for instrument type, the following may be considered to be a part of each survey to account for any missing information:

- I. Alpha Surveys - All alpha surveys were conducted with either
  - A. Eberline Model PAC-ISA Portable Alpha Counter which is coupled with a Model AC-3 Alpha Scintillation Detector.
  - B. Ludlum Model 12 or 16 Count Rate Meter coupled with their Model 43-4 Air Proportional Detector.

Both instrument types were used direct on the surface for fixed activity and in conjunction with a swipe for loose activity.

II. Beta-Gamma Surveys

- A. Fixed activity surveys were conducted direct on the surface with an Eberline Model E-120 Meter coupled with their Model HP-177B side shield Beta-Gamma Probe.
- B. Loose activity surveys were conducted by swiping the surface and counting the swipes on
  1. Nuclear Chicago Model 8775 Scaler-Timer coupled with an Eberline Model HP-210 Detector.
  2. Eberline Model E-120 Meter coupled with an Eberline Model HP-210 Detector.

III. Recording - Data derived in the surveys of the Nuclear Fuels Building are recorded as follows:

Alpha Loose - dpm/100cm<sup>2</sup>  
 Alpha Fixed - dpm/100cm<sup>2</sup>  
 Beta-Gamma Loose - dpm/100cm<sup>2</sup>  
 Beta-Gamma Fixed - mrad/hr

A/130

IV. Results - The following survey sheets show the building to be within the specifications set forth in "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for By-Product Source or Special Nuclear Material", USAEC

May 3, 1973.

TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

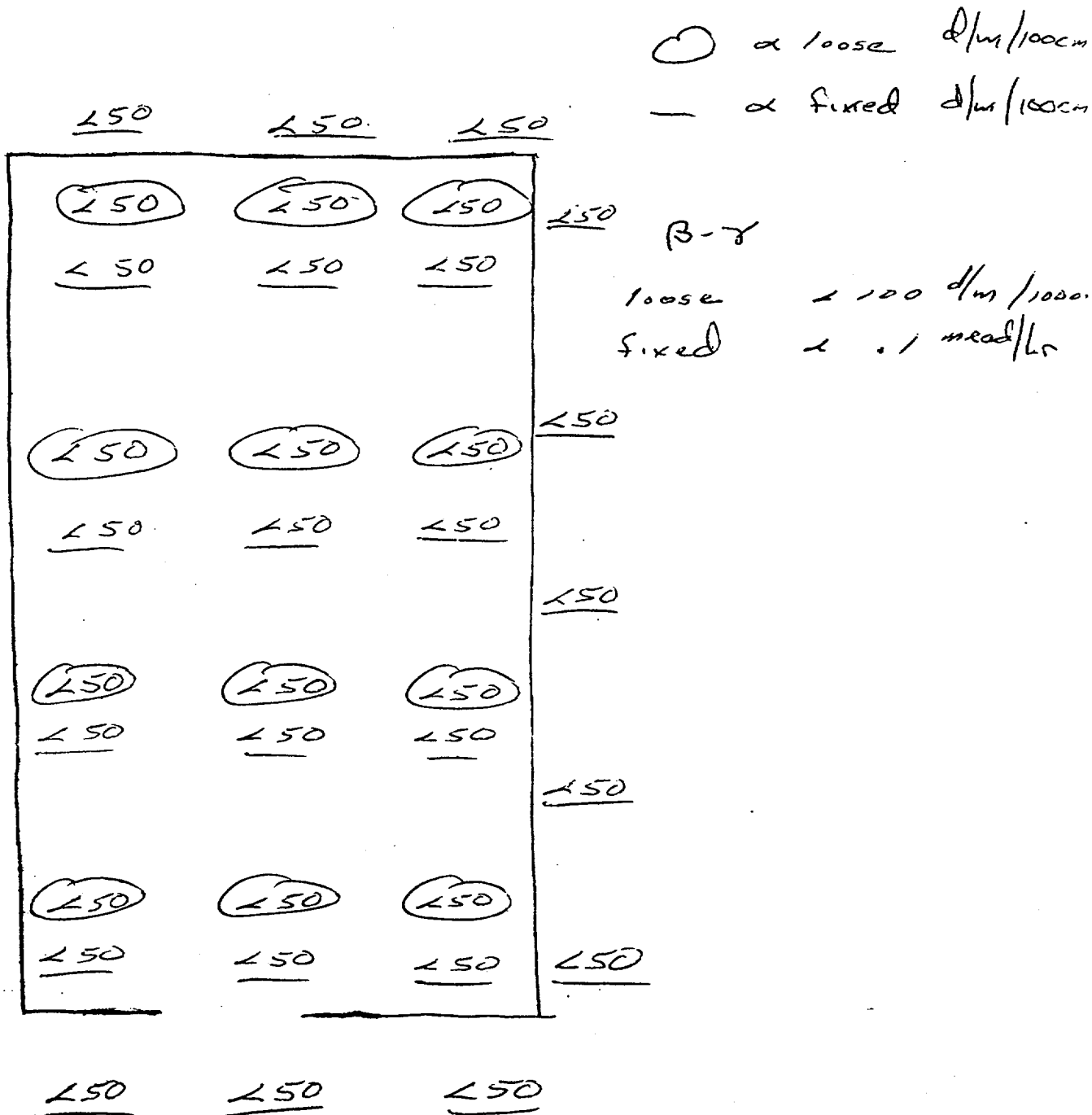
Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/> Dose, Rate in $\text{mRem/hr}$		Date: 11-27-73		Time:	
Taken by: PRUETT		Location: INCINERATOR PAD			
Inst. Type:	Ser. No.:	Scaler:		Bgr:	c/m
Probe:	Cal. Date:	Eff:	%	Eff. Date:	

α Fixed High — 5000  $\text{d/m}$   
 Fixed Average — 2000  $\text{d/m}$   
 Loose — < 100  $\text{d/m}$   
 B-γ Max Fixed < .1  $\text{mrad/hr}$   
 Loose < 50  $\text{d/m}$

ROOF - INSIDE — < 100  $\text{d/m}$   
 OUTSIDE — < 100  $\text{d/m}$   
 SUPPORT BEAMS — < 100  $\text{d/m}$

TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input checked="" type="checkbox"/> Dose Rate in mRem/hr		Date: 11-27-73	Time:
Taken by: Keane		Location: STORAGE AREA	
Inst. Type: LUDLUM 16	Ser. No.:	Scaler:	Bgr: c/m
Probe: 43-4	Cal. Date:	Eff: %	Eff. Date:



## TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: $\text{Swipe in } \mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/>		Date: 11-27-73	Time:
Dose Rate in mRem/hr <input type="checkbox"/>		Location: Outside Doors	
Taken by: PRUETT / KEANE	Inst. Type:	Ser. No.:	Scaler: Bgr: c/m
Probe:	Cal. Date:	Eff. %	Eff. Date:

## ENTRANCE

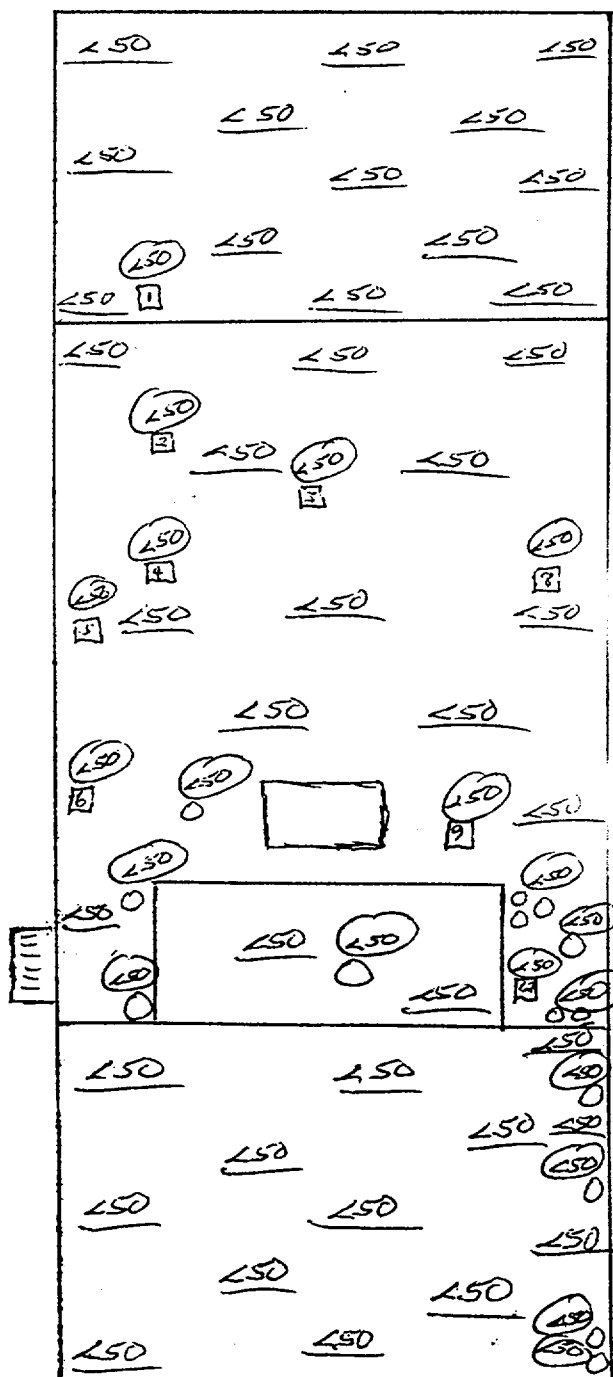
MAIN \_\_\_\_\_ 250 dpm  
 BITCHING \_\_\_\_\_ 250 dpm  
 FORMING SINGLE \_\_\_\_\_ 250 dpm  
 FORMING DOUBLE \_\_\_\_\_ 100 dpm  
 MAINTENANCE \_\_\_\_\_ 250 dpm (SEE SURVEY FOR DRIVEWAY)  
 MACHINING \_\_\_\_\_ 250 dpm  
 ASHING \_\_\_\_\_ 300 dpm  
 INSPECTION \_\_\_\_\_ 250  
 LAB \_\_\_\_\_ 250  
 COATING - N \_\_\_\_\_ 250  
 COATING - S \_\_\_\_\_ 250

# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <u>Swipe in pCi/100cm<sup>2</sup></u> <input type="checkbox"/>		Date: <u>11-27-73</u>	Time:
Dose Rate in mRem/hr <input type="checkbox"/>			
Taken by: <u>Reone</u>		Location: <u>Roof of Facilities</u>	
Inst. Type: <u>Lucas 16</u>	Ser. No.:	Scaler:	Bgr: <u>c/m</u>
Probe: <u>43-4</u>	Cal. Date:	Eff: <u>%</u>	Eff. Date:

☐ NUMBERED ROOF VENTS

☐ UNNUMBERED ROOF VENTS



Fixed Activity DPM/100cm

Loose Activity DPM/100cm

Type Survey: Swipe in pci/100cm<sup>2</sup> ☒ Dose Rate in m/m/hr ☐

Date: 11-25-73

Time:

Taken by: Arms' strong

Location: REUTHOUSE

Inst. Type:

Ser. No.:

Scaler:

Bgr:

c/m

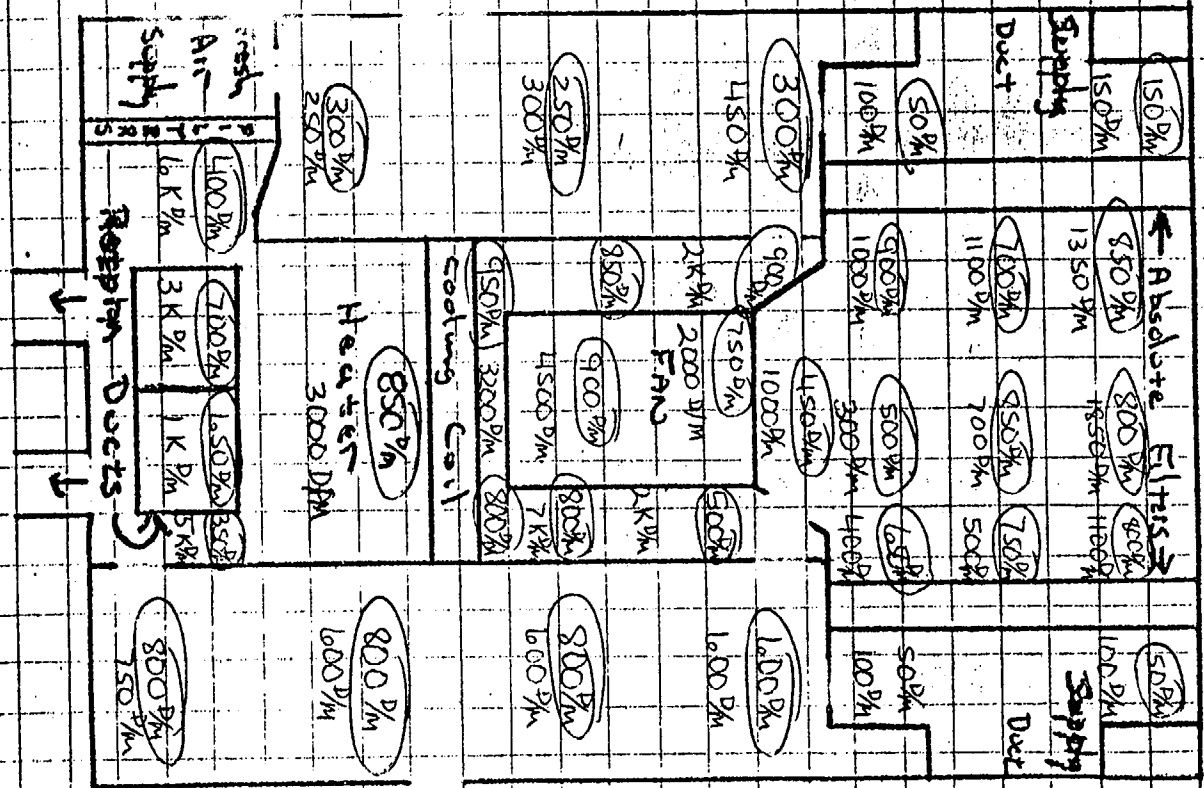
Probe:

Cal. Date:

Eff:

%

Eff. Date:



LOOSE  
RAD FLYS  
SWIRLING  
dpm/100cm<sup>2</sup>

Fixed Arm  
115 dpm/100cm<sup>2</sup>

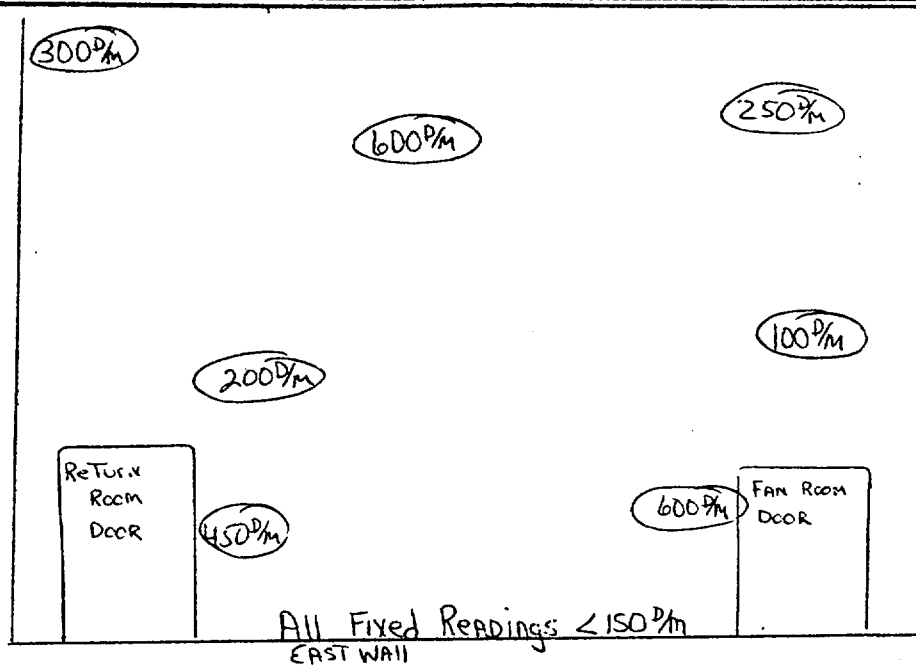
B-8

< 1 mrad/hr Fixed

< 150 dpm/100cm<sup>2</sup>

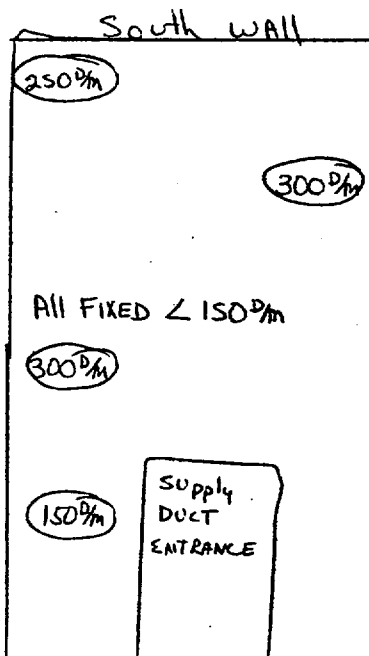
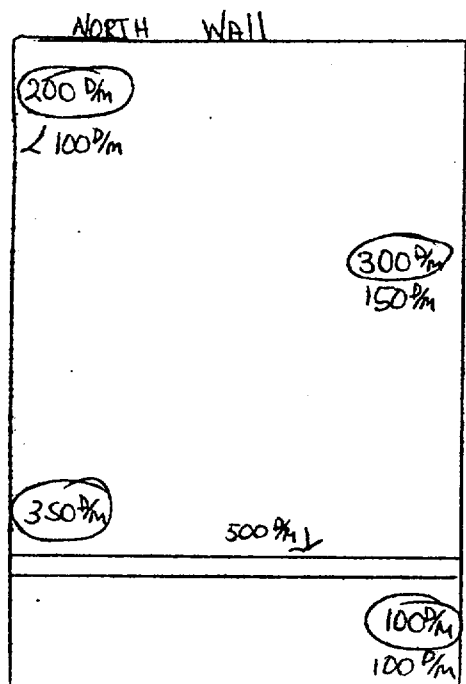
# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input checked="" type="checkbox"/> Dose Rate in $\text{mRem/hr}$		Date: 11-25-73	Time:
Taken by: Armstrong		Location: WEST CLEAN AREA - PENTHOUSE	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:



○ Loose Activity  
Swipe in  $\text{DPM}/100\text{cm}^2$

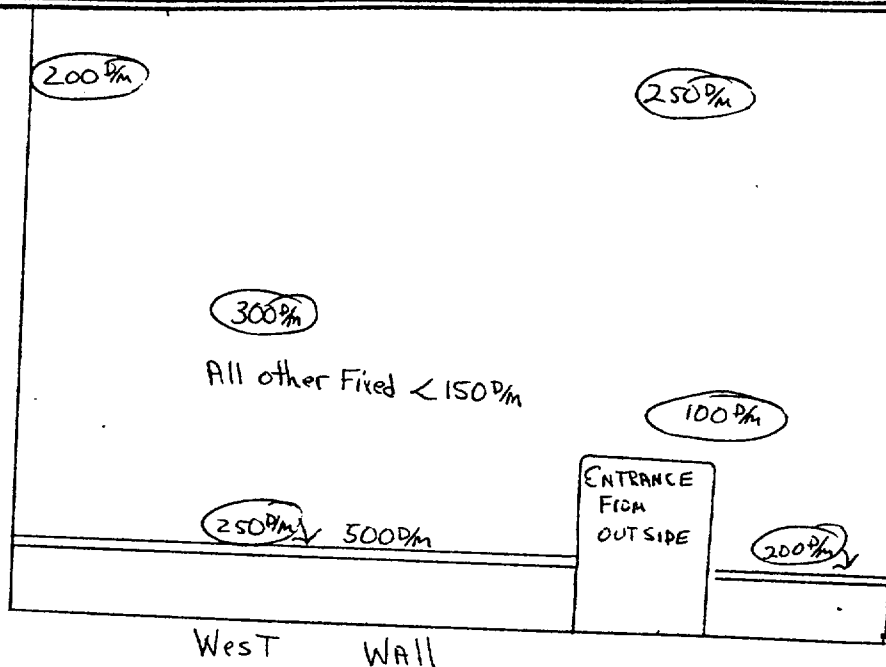
Fixed Activity  
IN  $\text{DPM}/100\text{cm}^2$





TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/> Dose Rate in $\text{mRem/hr}$		Date: 11-25-73	Time:
Taken by: Armstrong		Location:	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:

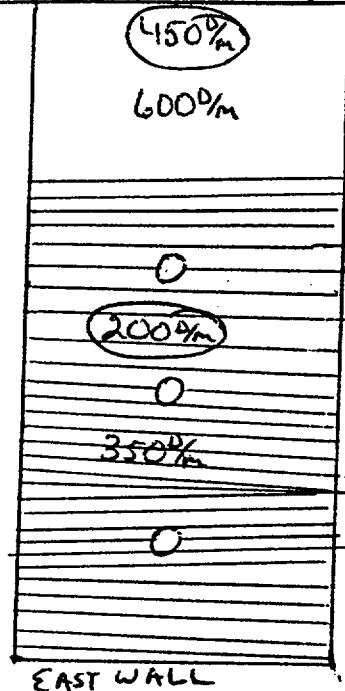
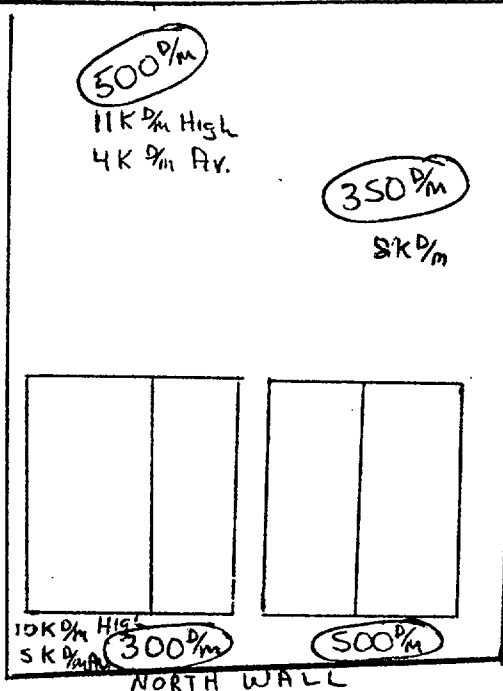


Loose Activity  
Swipe in  $\text{DPM}/100\text{cm}^2$

Fixed Activity  
in  $\text{DPM}/100\text{cm}^2$

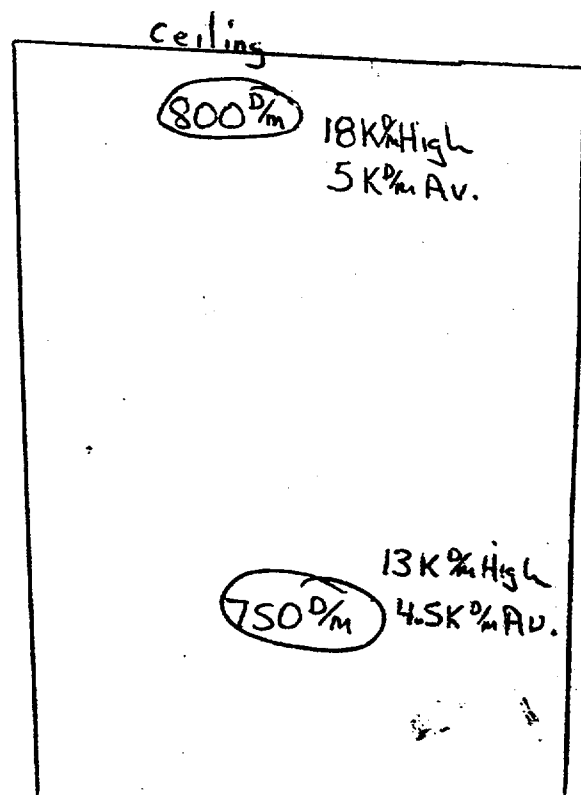
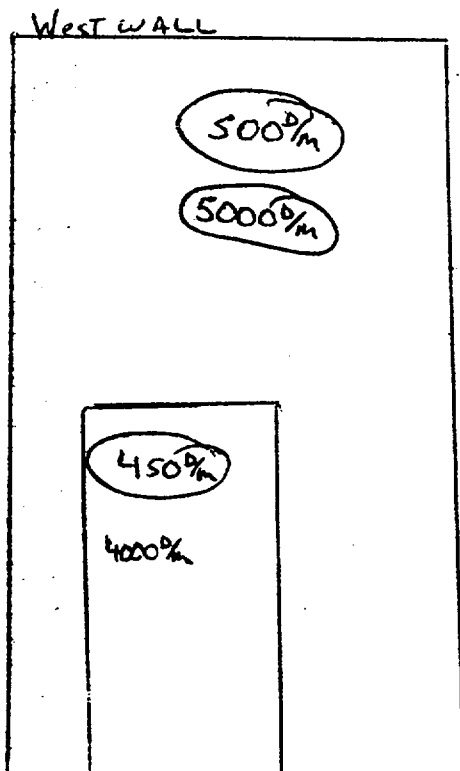
TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/> Dose Rate in $\text{mRem/hr}$		Date: 11-25-73	Time:
Taken by: Armstrong		Location: Heater & Cooling coil Room	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff. %	Eff. Date:



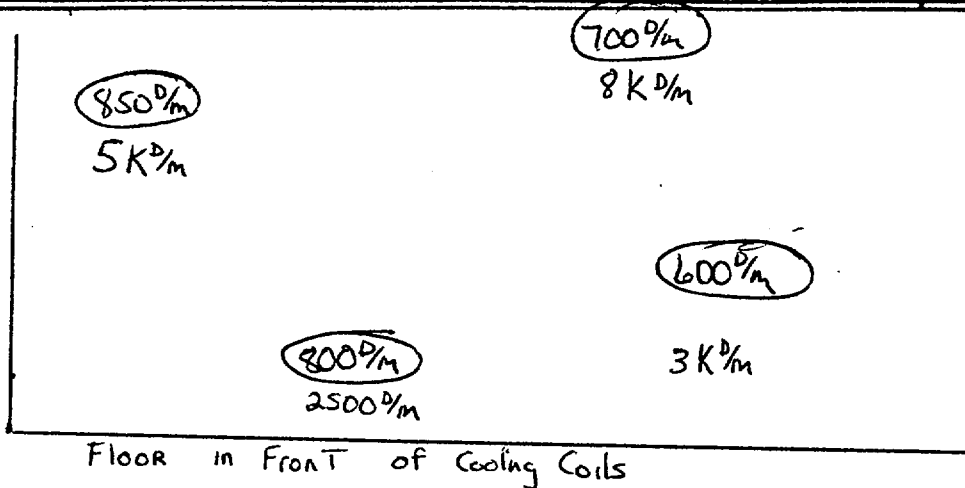
○ Loose Activity  
Swipe in DPM/100

Fixed Activity  
IN DPM/100cm<sup>2</sup>



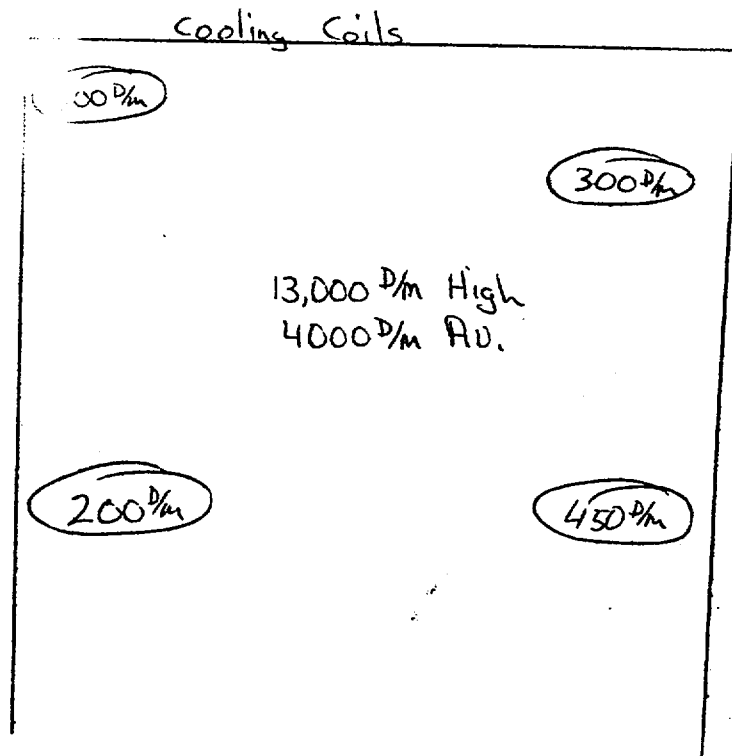
TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Count Rate in mRem/hr		Date: 11-25-73	Time:
Taken by: Armstrong		Location:	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:



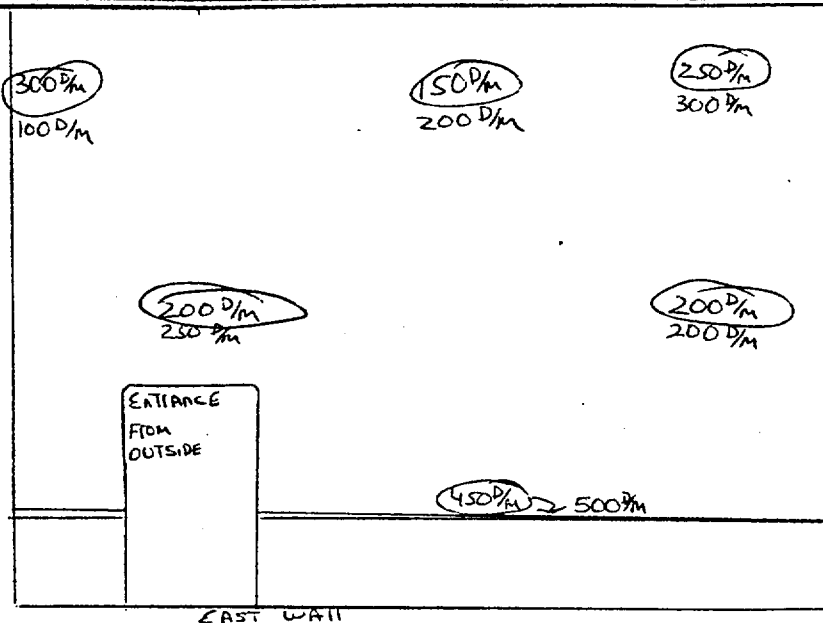
Activity Loos  
Swipe in DPM/10

Fixed Activity  
IN DPM/100cm<sup>2</sup>



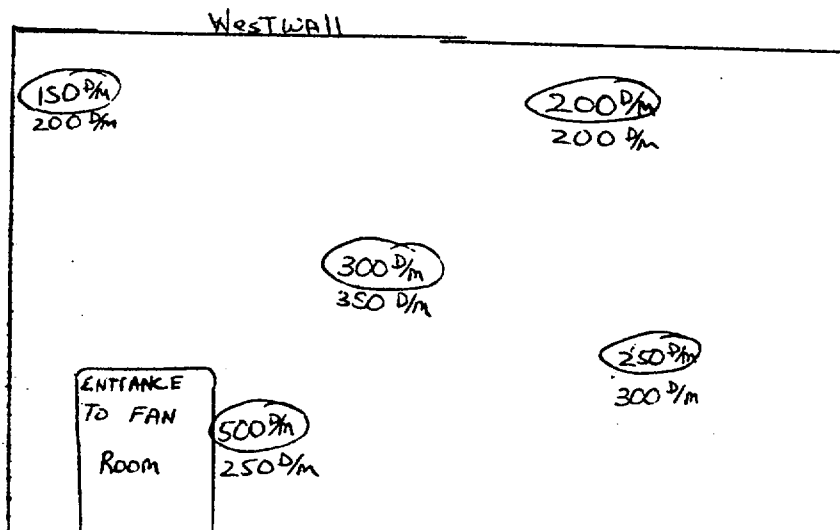
# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 11-25-73	Time: /
Taken by: Armstrong		Location: EAST CLEAN AREA - Penthouse	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:



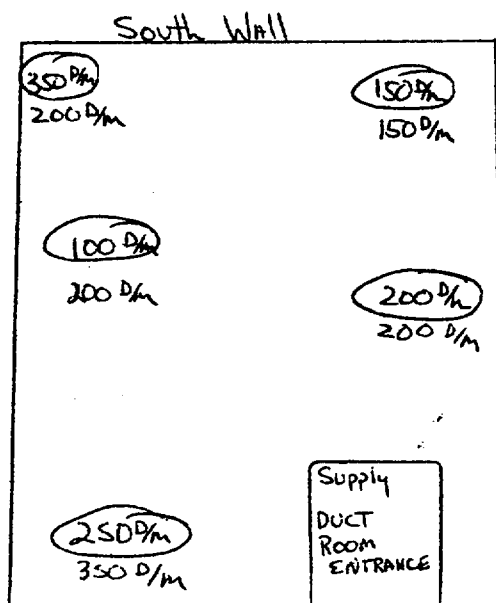
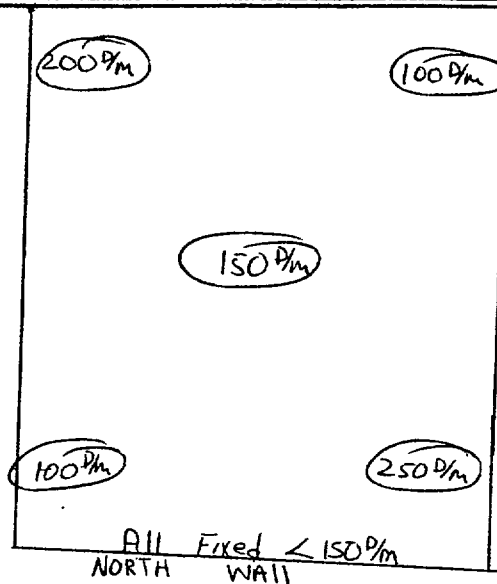
○ Loose Activity  
Swipe in DPM/100cm<sup>2</sup>

Fixed Activity  
IN DPM/100cm<sup>2</sup>



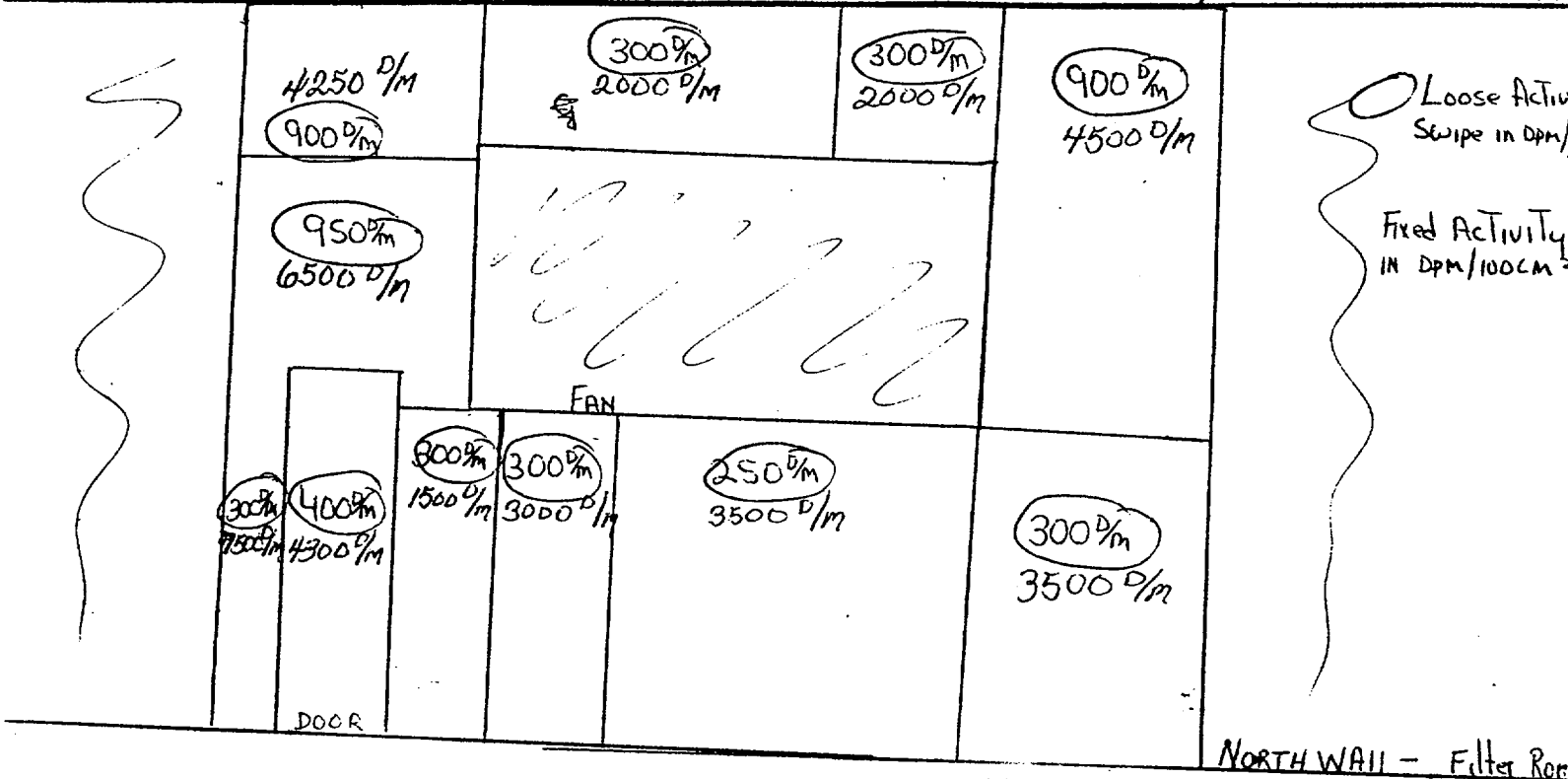
# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <span style="margin-left: 20px;">Swipe in pCi/100cm<sup>2</sup> <input type="checkbox"/></span> <span style="margin-left: 20px;">Dose, Rate in mRem/hr <input type="checkbox"/></span>		Date: <span style="margin-left: 20px;">11-25-73</span>	Time:
Taken by: <span style="margin-left: 20px;">Armstrong</span>		Location:	
Inst. Type:	Ser. No.:	Scaler:	Bgr: <span style="float: right;">c/m</span>
Probe:	Cal. Date:	Eff.: <span style="float: right;">%</span>	Eff. Date:

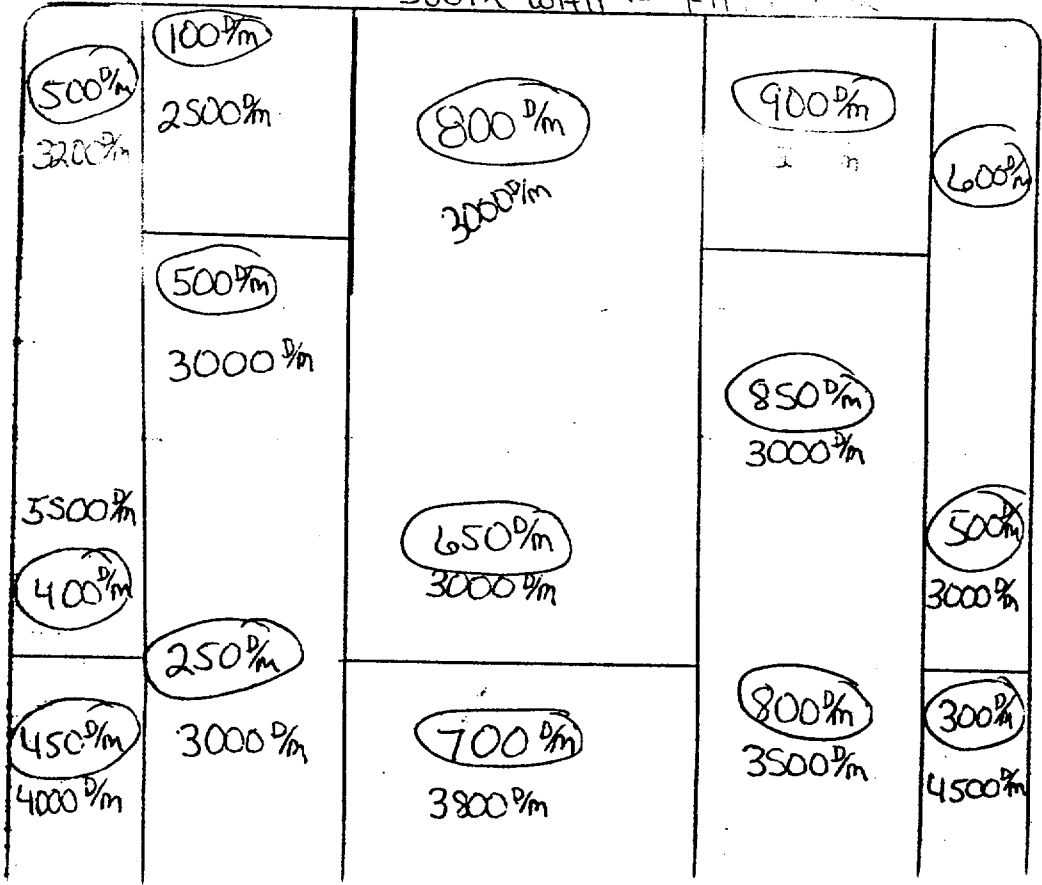


TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr <input type="checkbox"/>		Date: 11-25-73	Time: /
Taken by: Armstrong		Location: Filter Room	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:



South wall - Filter Room



Filter Bank West Wall

[illegible]

TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM	
Type Survey: <input type="checkbox"/> Swipe in pci/100cm <input type="checkbox"/> Dose Rate in mrem/hr	Taken by: <i>Almstrong</i>
Date: <i>11-25-73</i>	Location:
Time:	
Inst. Type:	Ser. No.:
Probe:	Cal. Date:
%	Eff.:
Bgr: c/m	Scaler:
Eff. Date:	

TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 11-25-73	Time:
Taken by: Armstrong		Location:	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff. %	Eff. Date:

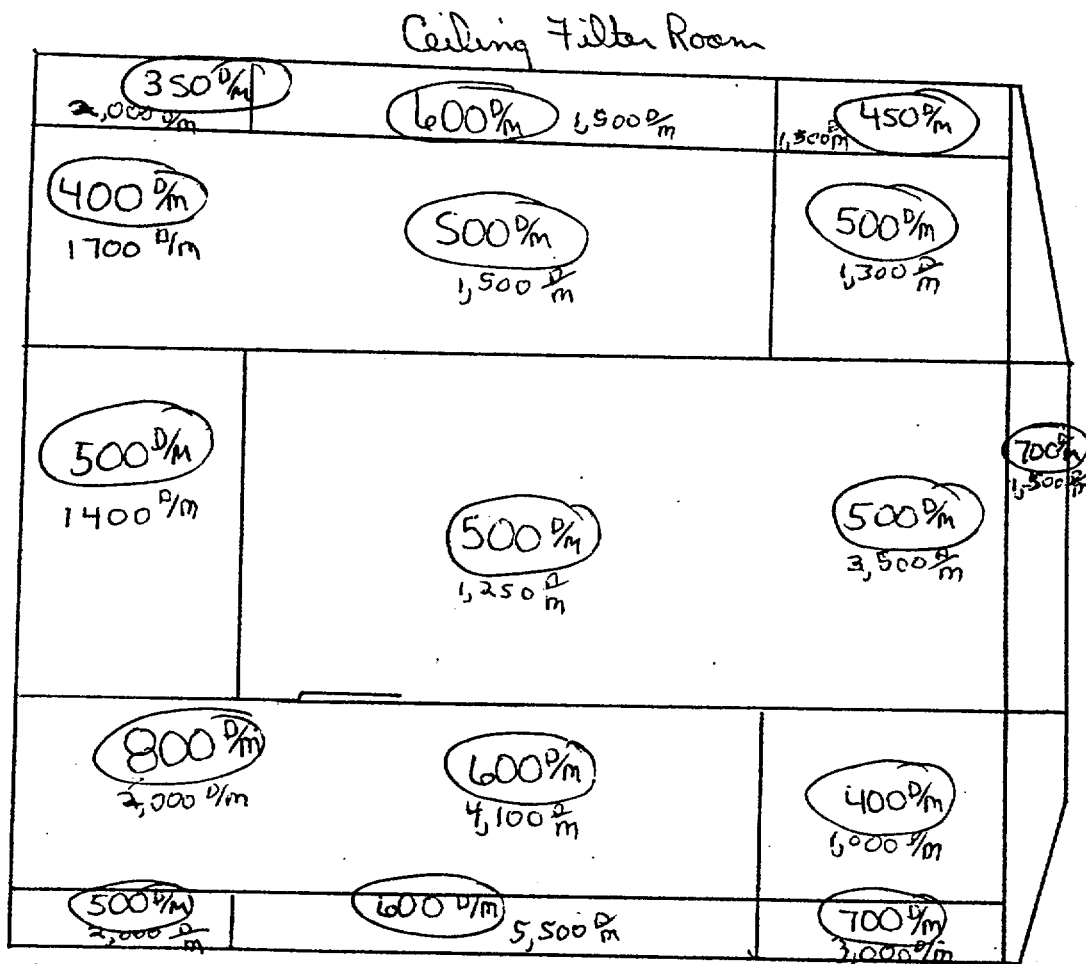
150 <sup>D</sup> /m 300 <sup>D</sup> /m	100 <sup>D</sup> /m 250 <sup>D</sup> /m	200 <sup>D</sup> /m 250 <sup>D</sup> /m	350 <sup>D</sup> /m 300 <sup>D</sup> /m	100 <sup>D</sup> /m 100 <sup>D</sup> /m	200 <sup>D</sup> /m 100 <sup>D</sup> /m
150 <sup>D</sup> /m 200 <sup>D</sup> /m	100 <sup>D</sup> /m 200 <sup>D</sup> /m	500 <sup>D</sup> /m 600 <sup>D</sup> /m	200 <sup>D</sup> /m 100 <sup>D</sup> /m	150 <sup>D</sup> /m 50 <sup>D</sup> /m	400 <sup>D</sup> /m 300 <sup>D</sup> /m
250 <sup>D</sup> /m 100 <sup>D</sup> /m	100 <sup>D</sup> /m 150 <sup>D</sup> /m	50 <sup>D</sup> /m 50 <sup>D</sup> /m	200 <sup>D</sup> /m 250 <sup>D</sup> /m	200 <sup>D</sup> /m 200 <sup>D</sup> /m	200 <sup>D</sup> /m 250 <sup>D</sup> /m
600 <sup>D</sup> /m 600 <sup>D</sup> /m	250 <sup>D</sup> /m 300 <sup>D</sup> /m	250 <sup>D</sup> /m 250 <sup>D</sup> /m	150 <sup>D</sup> /m 275 <sup>D</sup> /m	100 <sup>D</sup> /m 100 <sup>D</sup> /m	150 <sup>D</sup> /m 100 <sup>D</sup> /m
250 <sup>D</sup> /m 75 <sup>D</sup> /m	150 <sup>D</sup> /m 50 <sup>D</sup> /m	100 <sup>D</sup> /m 100 <sup>D</sup> /m	250 <sup>D</sup> /m 300 <sup>D</sup> /m	700 <sup>D</sup> /m 550 <sup>D</sup> /m	150 <sup>D</sup> /m 50 <sup>D</sup> /m
150 <sup>D</sup> /m 100 <sup>D</sup> /m	170 <sup>D</sup> /m 150 <sup>D</sup> /m	100 <sup>D</sup> /m 150 <sup>D</sup> /m	100 <sup>D</sup> /m 50 <sup>D</sup> /m	100 <sup>D</sup> /m 150 <sup>D</sup> /m	150 <sup>D</sup> /m 100 <sup>D</sup> /m
250 <sup>D</sup> /m 150 <sup>D</sup> /m	300 <sup>D</sup> /m 400 <sup>D</sup> /m	300 <sup>D</sup> /m 300 <sup>D</sup> /m	250 <sup>D</sup> /m 250 <sup>D</sup> /m	150 <sup>D</sup> /m 100 <sup>D</sup> /m	100 <sup>D</sup> /m 100 <sup>D</sup> /m

Filter Bank East Wall



# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

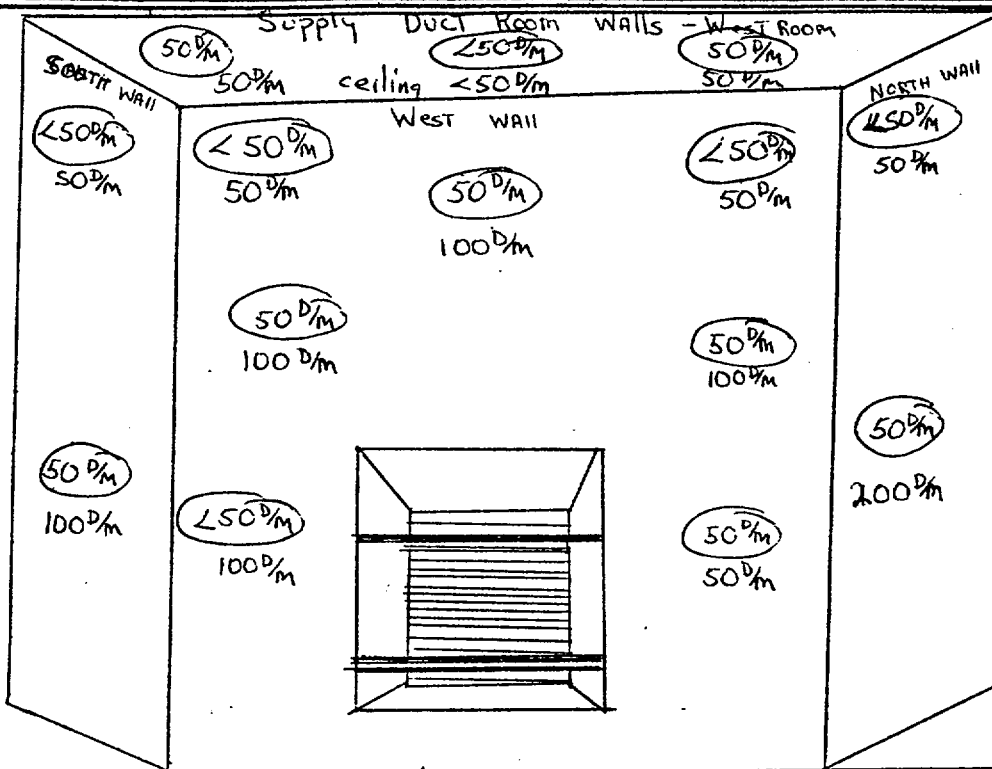
Type Survey: <span style="margin-left: 20px;">Swipe in pCi/100cm<sup>2</sup> <input type="checkbox"/></span> <span style="margin-left: 20px;">Dose Rate in mRem/hr <input type="checkbox"/></span>		Date:	Time:
Taken by: <u>Armstrong</u>		Location:	
Inst. Type:	Ser. No.:	Scaler:	Bgr: <span style="float: right;">c/m</span>
Probe:	Cal. Date:	Eff: <span style="float: right;">%</span>	Eff. Date:



←  
NORTH

TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

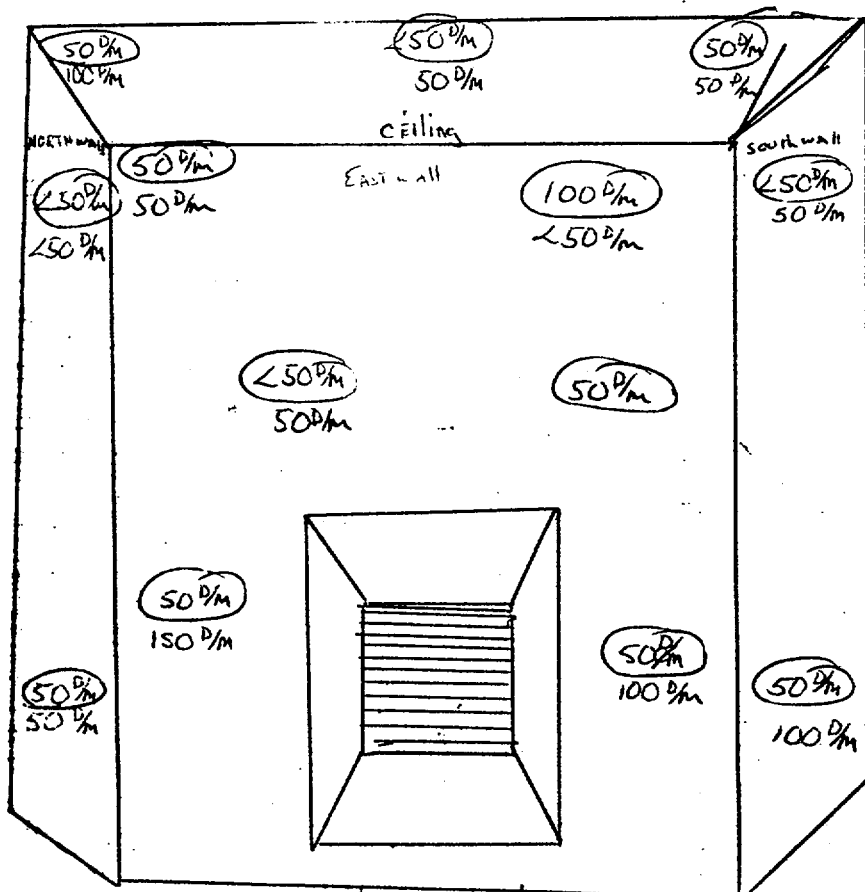
Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 11-25-73	Time:
Taken by: Armstrong		Location: Supply Duct Room	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff. %	Eff. Date:



○ Loose Activity  
Swipe in DPM/100cm<sup>2</sup>

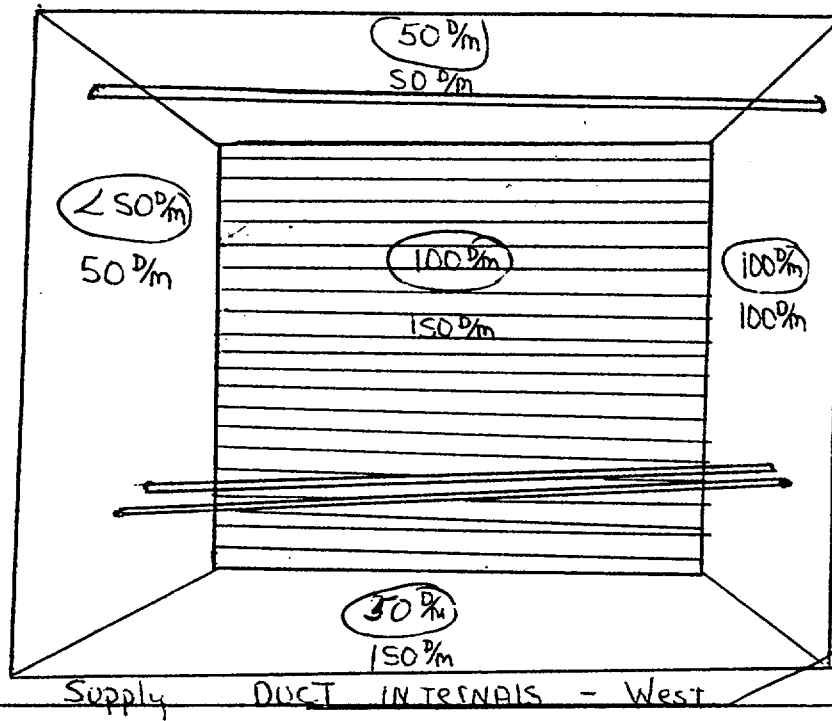
- Fixed Activity  
IN DPM/100cm<sup>2</sup>

EAST Supply Duct Room



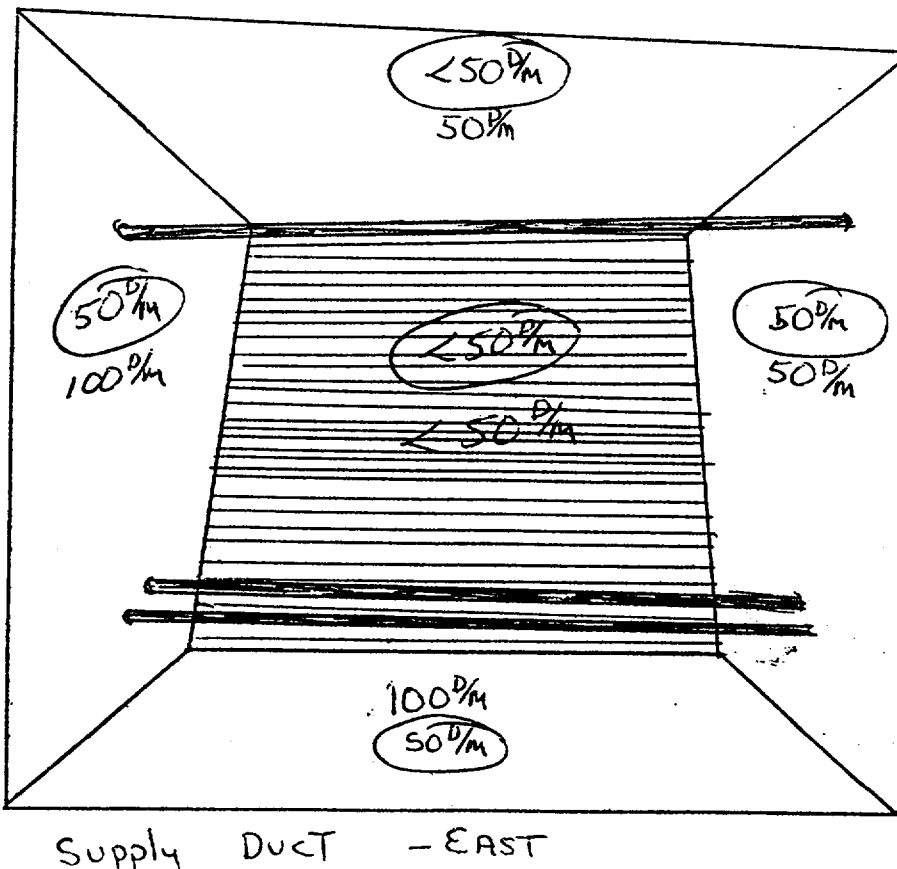
TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/> Dose Rate in $\text{mRem/hr}$		Date: 11-25-73	Time:
Taken by: Armstrong		Location:	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff. %	Eff. Date:



○ Loose Activity  
Swipe in  $\text{dpm}/\text{cm}^2$

Fixed Activity  
IN  $\text{dpm}/100\text{cm}^2$



## TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/> Dose Rate in $\text{mRem/hr}$		Date: 12-1-73	Time:
Taken by: KENNE		Location: Supply Ducts	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:

## SUPPLY DUCTS

High Beta- $\gamma$  Loose  $< 100 \text{ DPM}/100\text{cm}^2$

High Beta- $\gamma$  Fixed  $< .1 \text{ mRAD/hr}$

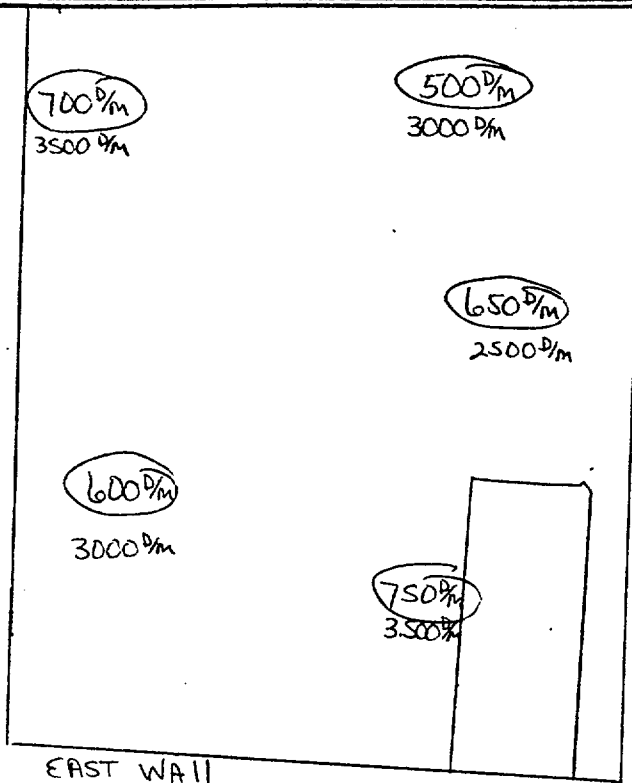
High  $\alpha$  Loose  $< 100 \text{ DPM}/100\text{cm}^2$

High  $\alpha$  Fixed  $< 100 \text{ DPM}/100\text{cm}^2$

The supply ducts were checked at each opening, i.e. supply points & access doors, the above contamination levels were the highest found.

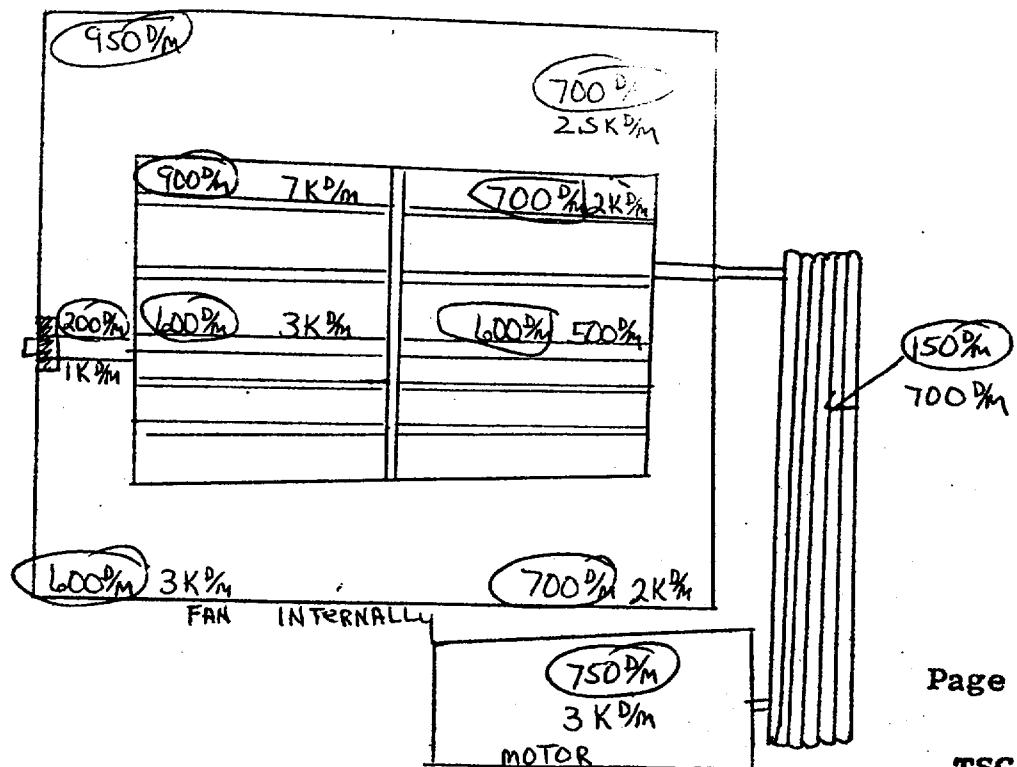
TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/> Dose, Rate in mRem/hr		Date: 11-25-73	Time:
Taken by: Armstrong		Location: Fan Room	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:



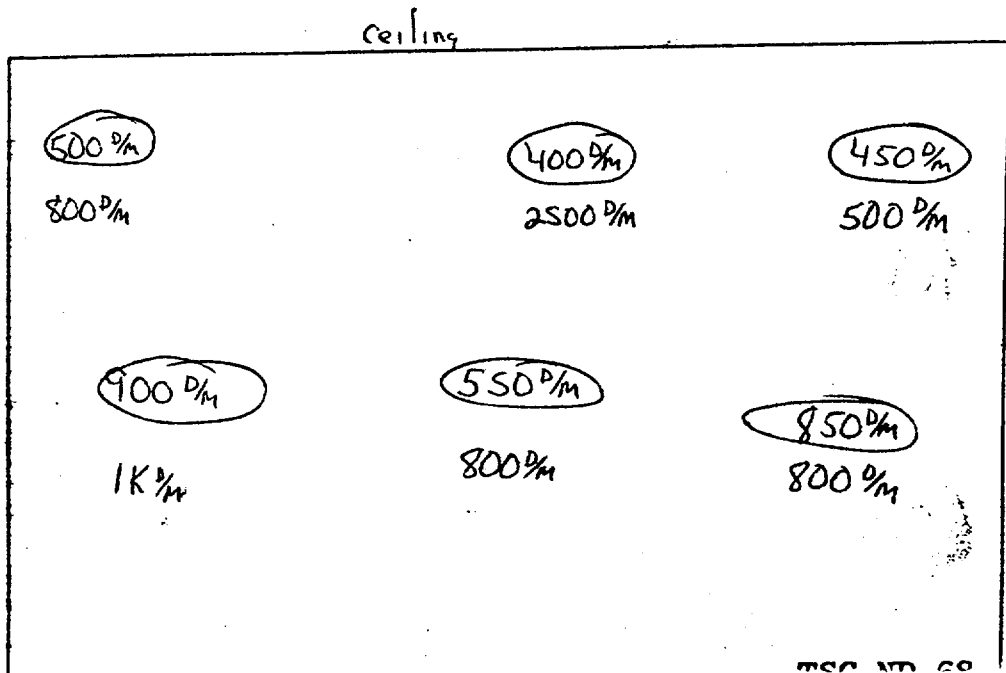
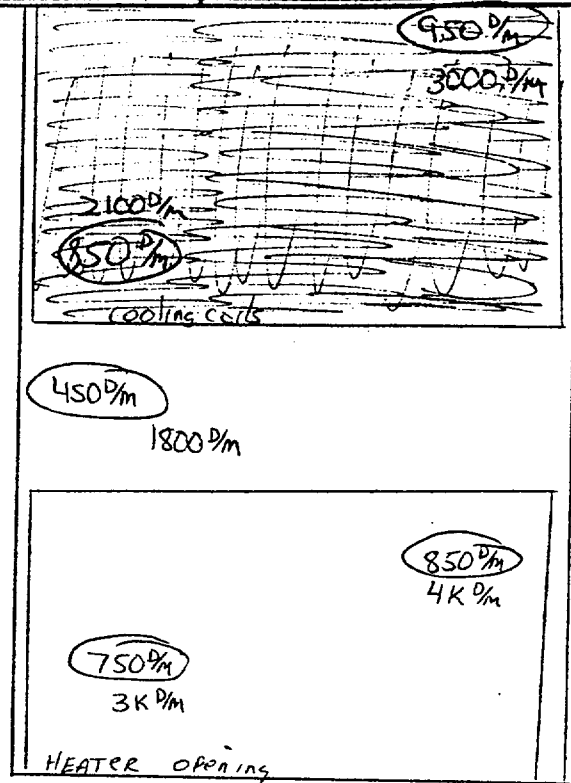
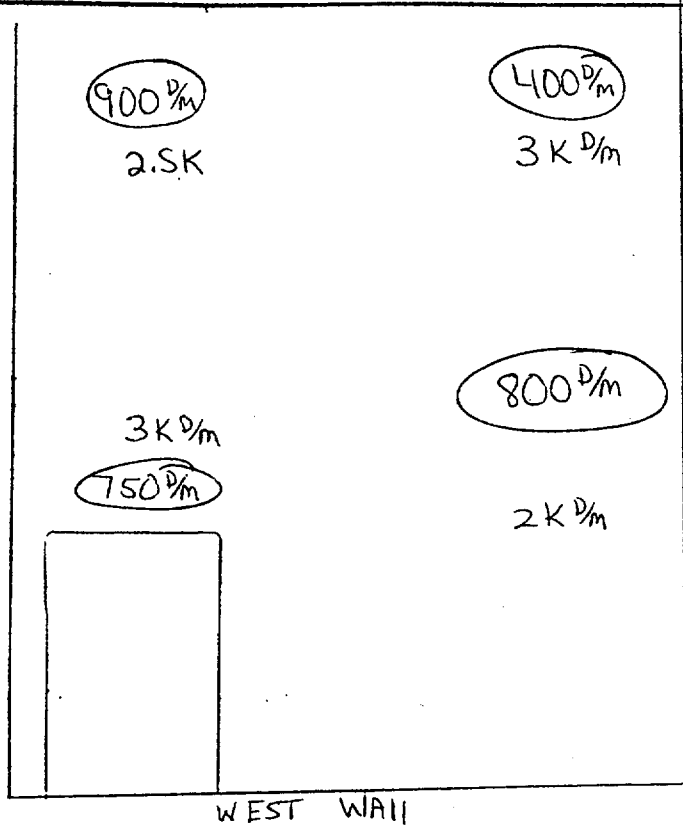
○ Loose Activity  
Swipe in DPM/100cm<sup>2</sup>

— Fixed Activity  
IN DPM/100cm<sup>2</sup>



TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input checked="" type="checkbox"/> Dose Rate in mRem/hr		Date: 11-25-73	Time:
Taken by: Armstrong		Location: Fan Room	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff. %	Eff. Date:



Type Survey: <b>Swipe in pCi/100cm<sup>2</sup></b>		Date: <b>12-1-73</b>	Time:
Dose, Rate in mRem/hr <b>00</b>			
Taken by: <b>Hunter</b>		Location: <b>RETURN AIR DUCTS</b>	
Inst. Type:	Ser. No.:	Scaler:	Bgr: <b>c/m</b>
Probe:	Cal. Date:	Eff. %	Eff. Date:

TIDN	EAST SIDE				WEST SIDE			
	MAXIMUM α LOOSE	MAXIMUM α FIXED	MAXIMUM B-γ LOOSE	MAXIMUM B-γ FIXED	MAXIMUM α LOOSE	MAXIMUM α FIXED	MAXIMUM B-γ LOOSE	MAXIMUM B-γ FIXED
1	2100	200			2100	200		
2	500	300			2100	100		
3	200	100			100	100		
4	200	100			250	200		
5	2100	100			100	100		
6	2100	150			2100	100		
7	2100	150			150	150		
8	2100	200			2100	200		
9	150	150			2100	200		
0	250	250			2100	100		
1	100	500			100	100		
2	2100	150			100	100		
3	2100	150			2100	150		
4	2100	150			2100	150		
5	2100	250			100	100		
6	200	1000			250	300		
7	400	750			250	300		
8	2100	700			2100	150		
9	2100	250			2100	300		
0	2100	100			2100	300		
1	2100	1000			2100	700		
2	2100	900			150	900		
3	2100	900			250	900		
4	200	750			2100	750		
5	2100	900			2100	1000		
6	850	1000			2100	1000		
7	100	1500			2100	2000		
8	2100	1500			2100	1000		
9	250	2000			150	3000		

100 dpm/100cm<sup>2</sup>

1 mrad/hr

100 dpm/100cm<sup>2</sup>

1 mrad/hr

THAN

THAN

than

than

LESS

LESS

ALL

ALL

Swipe in pci/100cm<sup>2</sup> ☐

Date: 12-1-73

Time: /

Type Survey:

Dose Rate in mRem/hr

taken by:

Location:

Inst. Type:

Ser. No.:

Scalar:

Bgr: c/m

Probe:

Cal. Date:

Eff:

%

Eff. Date:

FOR CONTINUATION  
DRWG. No. 4-74B

125

TYPE 36 X 24  
3750 CFM

BATCH

120

VOLUME

121

TYPE 36 X 18  
2250 CFM

Memora

TYPE 18 X 24  
1500 CFM

TYPE 18 X 24  
1500 CFM

TYPE 15 X 21  
1125 CFM

TYPE 24 X 24  
1980 CFM

TYPE 24 X 24  
2210 CFM

SHIPPING & RECEIVING

127

TYPE 36 X 18  
2210 CFM

1 2 3 4 5 6 7 8 9

TYPE 36 X 18

10 18 9

TYPE 36 X 18



Type Survey: Swipe in pCi/100 cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr <input type="checkbox"/>		Date: 12-1-73	Time:
Taken by:		Location:	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:

[illegible]

## TODD NUCLEAR DIVISION - RADIOLOGICAL SUPPLY FORM

Survey: ☐ Swipe in pCi/cm<sup>2</sup> ☐  
☐ Dose Rate in mRem/hr ☐

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

given by:

Location:

231. Type:

Ser. 135  
:ON

Scalar:

88gr: c/m

١٠٠٠

Cal. Date:

三十一

**%**

Eff. Date:

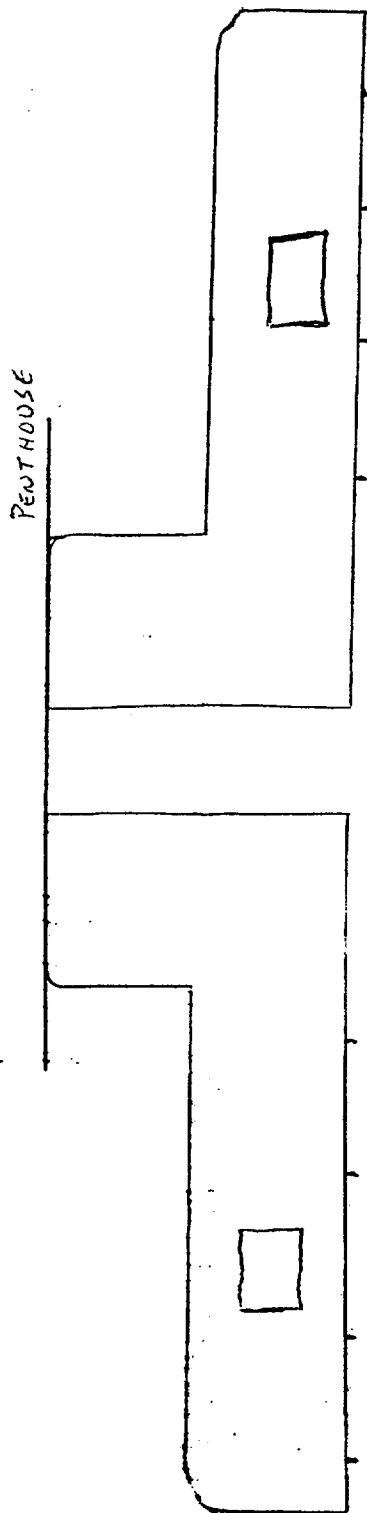
[illegible]





## TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/>		Date: 12-1-73	Time:
Loss Rate in mRem/hr <input type="checkbox"/>		Location: HIGH BAY RETURN DUCTS	
Taken by: PROETT		Scaler:	Bgr: c/m
Inst. Type:	Ser. No.:	Eff.:	Eff. Date:
Probe:	Cal. Date:	%	



LOCATION	$d_m / 100 \text{ cm}^2$		LOCATION	$d_m / 100 \text{ cm}^2$	
	HIGH FIXED	LOOSE		HIGH FIXED	LOOSE
BOTTOM	800	500	BOTTOM	1100	1100
END	800	1100	END	2500	1100
WALLS	1500	1100	WALLS	800	1100
TOP	600	1100	TOP	700	1100
RISE	5000	1100	RISE	2000	1100

B-2	1000	$\times 100 \text{ d/m} / 100 \text{ cm}^2$
B-2	fixed	$\times 1 \text{ mrad/hr}$

11116

11-25-00

Location: OFFICE SPACES

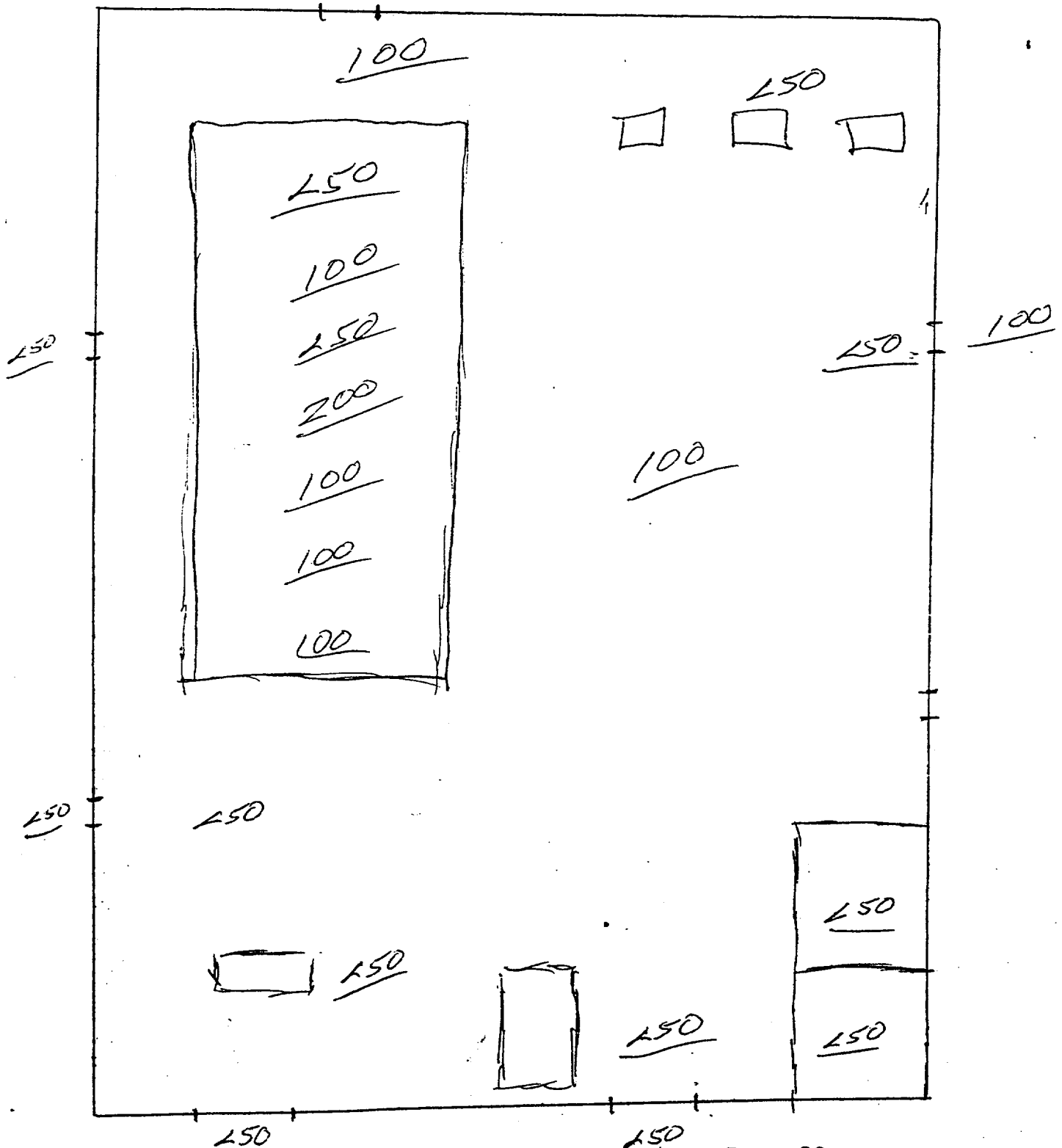
Bgr: c/m

Eff. Date: \_\_\_\_\_



TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <u>Swipe in pCi/100cm<sup>2</sup></u> <input type="checkbox"/> Dose Rate in mRem/hr <input type="checkbox"/>		Date: <u>11-26-73</u>	Time:
Taken by: <u>Proett / Keane</u>		Location: <u>HIGH BAY AREA</u>	
Inst. Type:	Ser. No.:	Scaler:	Bgr: <u>c/m</u>
Probe:	Cal. Date:	Eff.: <u>%</u>	Eff. Date:



Type Survey: Dose Rate in mrem/hr ☐

Date:

12-3-73

Time:

Taken by:

Hawter

Location:

Hallway

Inst. Type:

Ser. No.:

Scaler:

Bgr: c/m

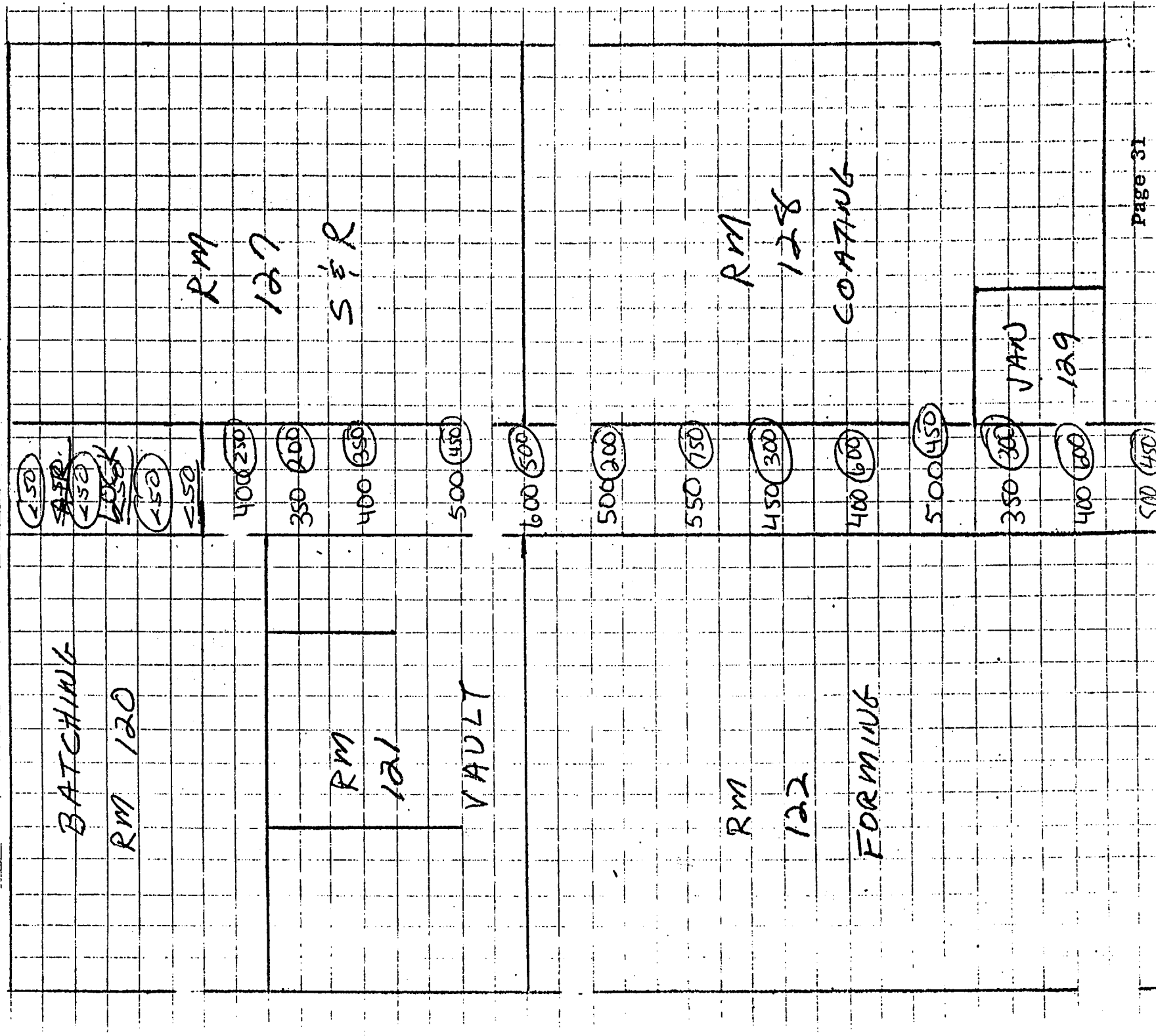
Probe:

Cal. Date:

Eff.:

%

Eff. Date:



12-3-

Taken by:

HUNTER

Location:

Inst. Type:

Ser. No.:

Scaler:

Bgr:

c/m

Probe:

Cal. Date:

Eff.:

%

Eff. Date:

MAINTENANCE

RM 123

450 (200)

500 (200)

400 (450)

600 (350)

500 (250)

(100)

200

200 (150)

MACHINING

RM 124

600 (100)

200

(100)

600

300

(400)

500

300 1000

(100)

200 200

(100)

200 200

(100)

200 200

LAB

RM 130

INSP

RM

131

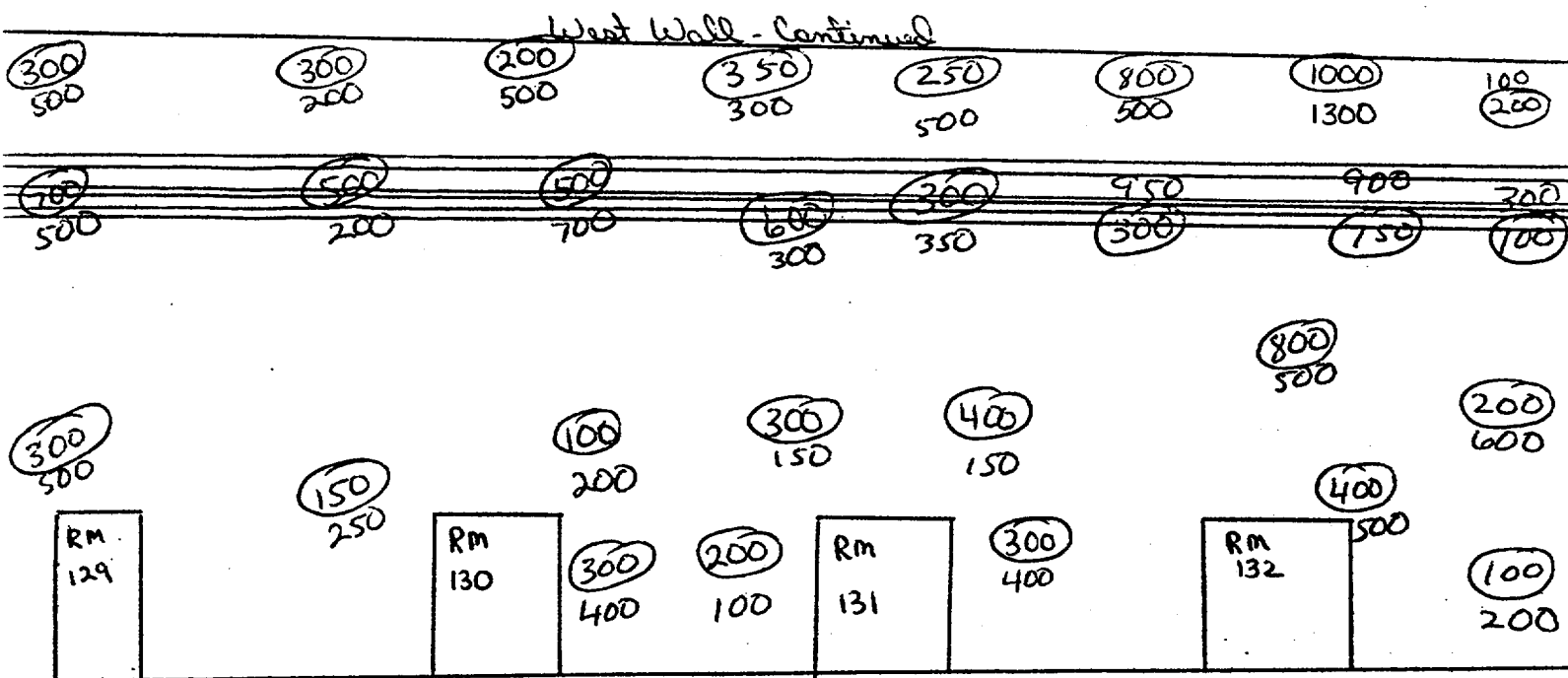
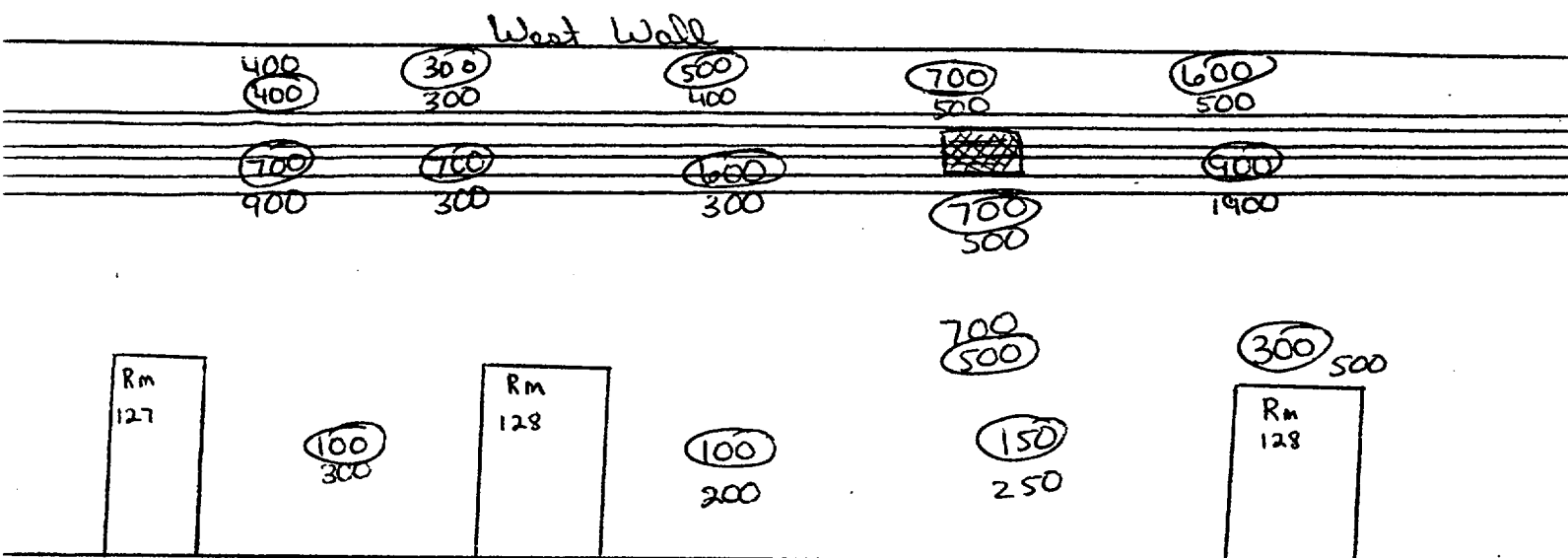
ASHING

RM 132



TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose, Rate in mRem/hr		Date: 12-3-73	Time:
Taken by: PRUETT		Location:	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:

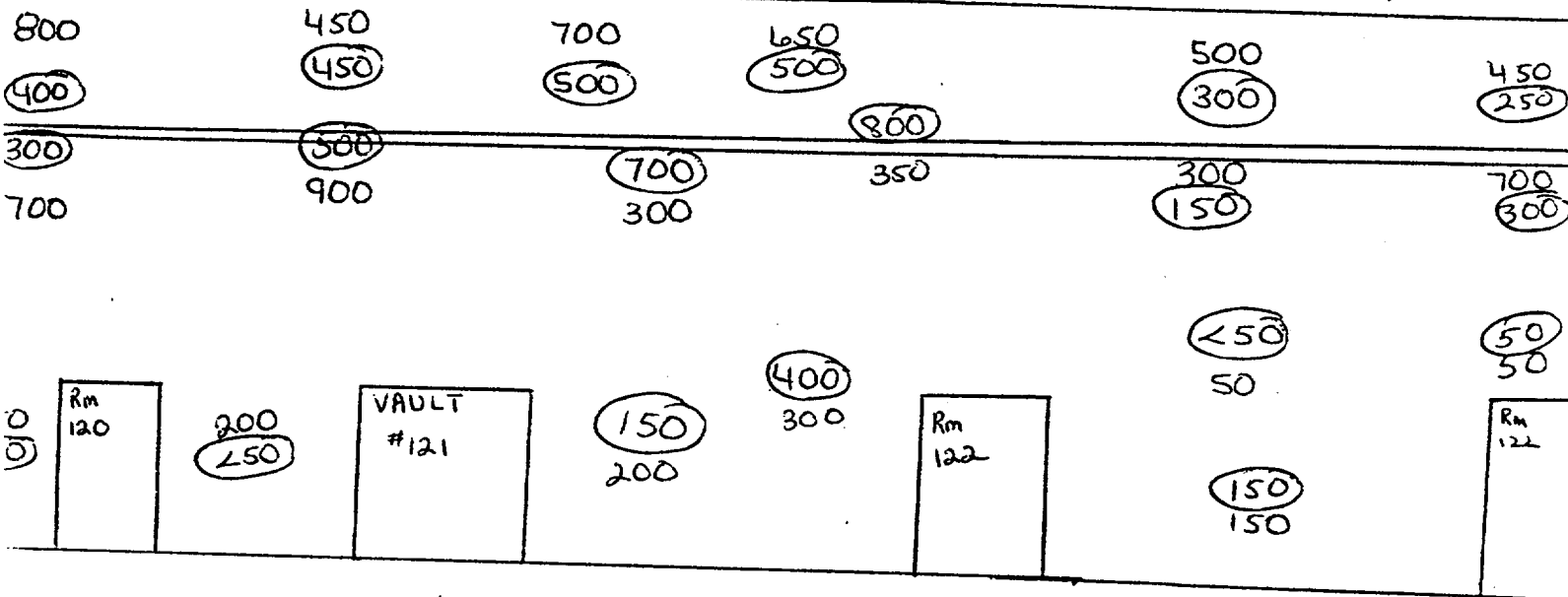


TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

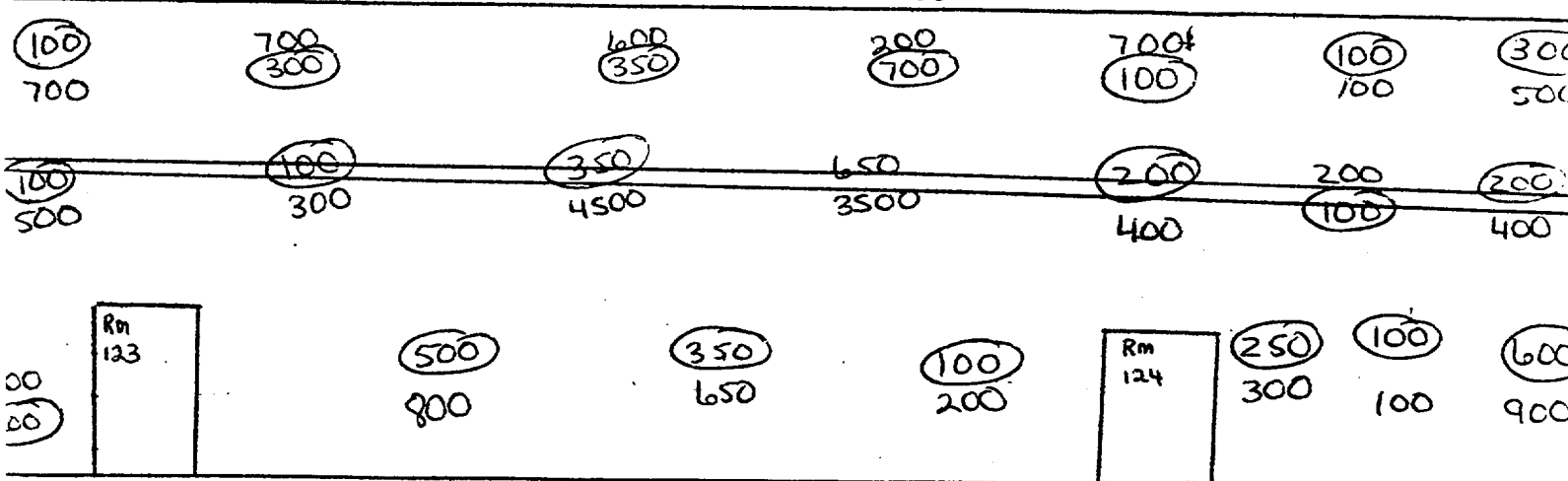
Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 12-3-73	Time: /
Taken by: PRUETT		Location:	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:

○ LOOSE ACTIVITY  
Swipe in dpm/100cm<sup>2</sup>  
— Fixed ACTIVITY in dpm/100cm<sup>2</sup>

EAST Wall



EAST WALL CONTINUED



# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

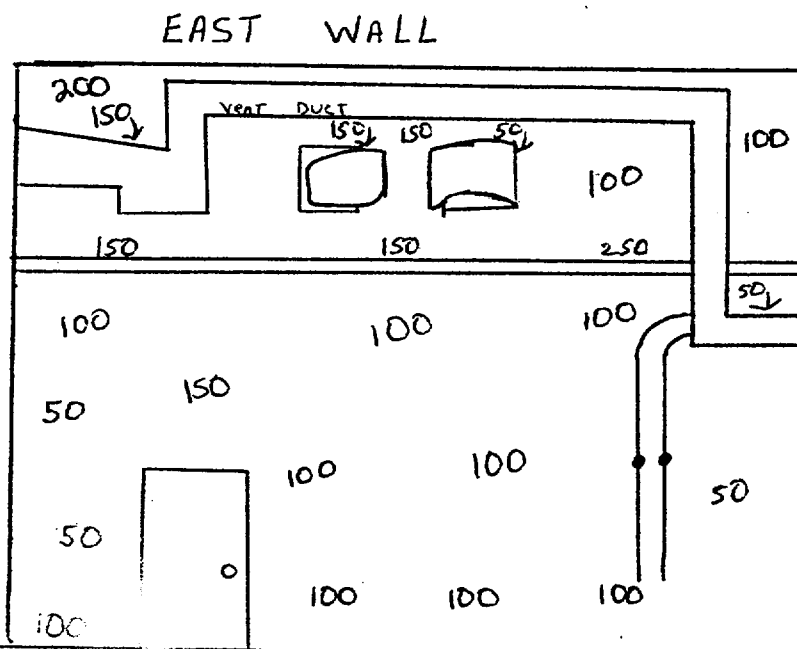
Type Survey: <input checked="" type="checkbox"/> Swipe in $\frac{\text{cpm}}{\text{100cm}^2}$ <input checked="" type="checkbox"/> <del>Probe</del> Rate in $\frac{\text{cpm}}{\text{hr}}$	Date: 11-25-73	Time:
Taken by: Keame	Location: BATCHING RM 120 & RM 121	
Inst. Type: Keame	Scaler:	Bgr: c/m
Probe:	Eff: %	Eff. Date:

<div> <div>(100)</div> <div>350</div> </div> <div> <div>(200)</div> <div>500</div> </div> <div> <div>(350)</div> <div>800</div> </div> <div> <div>(100)</div> <div>750</div> </div>			
<div> <div>(400)</div> <div>1100</div> </div> <div> <div>(350)</div> <div>400</div> </div> <div> <div>(300)</div> <div>800</div> </div> <div> <div>(850)</div> <div>1000</div> </div>			
<div> <div>(300)</div> <div>250</div> </div> <div> <div>(200)</div> <div>500</div> </div> <div> <div>(500)</div> <div>1000</div> </div> <div> <div>(100)</div> <div>500</div> </div>			
<div> <div>(100)</div> <div>150</div> </div> <div> <div>(100)</div> <div>500</div> </div> <div> <div>(100)</div> <div>250</div> </div> <div> <div>(100)</div> <div>300</div> </div>	<div> <div>(100)</div> <div>100</div> </div> <div> <div>(2100)</div> <div>250</div> </div>	<div> <div>(100)</div> <div>150</div> </div> <div> <div>(100)</div> <div>50</div> </div>	<div> <div>(100)</div> <div>100</div> </div> <div> <div>(100)</div> <div>100</div> </div>
<div> <div>(100)</div> <div>50</div> </div> <div> <div>(100)</div> <div>50</div> </div>	<div> <div>(100)</div> <div>50</div> </div> <div> <div>(100)</div> <div>150</div> </div>	<div> <div>(100)</div> <div>50</div> </div> <div> <div>(100)</div> <div>150</div> </div>	<div> <div>(100)</div> <div>50</div> </div> <div> <div>(100)</div> <div>150</div> </div>

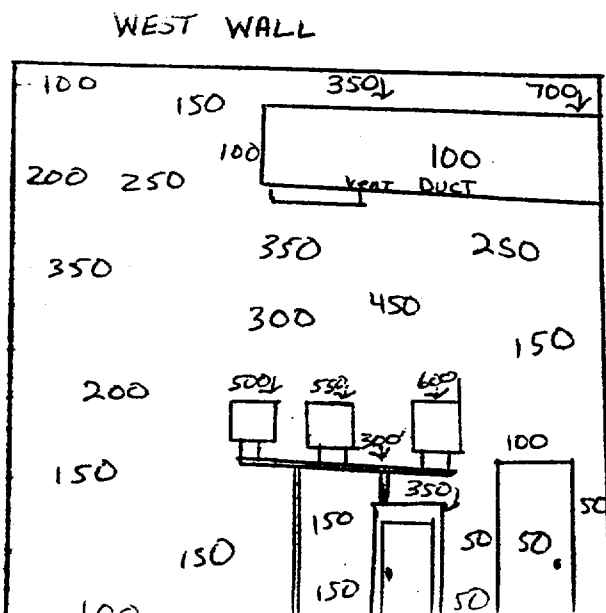
## TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr <input type="checkbox"/>		Date: 11-25-73	Time: 0800
Taken by: Armstrong		Location: Union CARBIDE, LAWRENCEBURG, Tennessee Room 120 BATCHING ROOM	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:

Highest lease activity 250<sup>PM</sup>  
all readings filed



11.2.1 case activity 650<sup>pm</sup>  
things fixed



TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 11-25-73	Time:
Taken by: <i>[Signature]</i>		Location: Rm 120 - Butchery Room	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff. %	Eff. Date:

All readings  $\mu$ m fixed





## TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: ☐ Swipe in  $\mu\text{Ci}/100\text{cm}^2$  ☐  
☐ Dose Rate in  $\text{mRem/hr}$  ☐

Date:

Time:

11-25-73

Taken by: Arumthana

Location: Rm 121

Location: Rm 121  
Vault, Union Carbide, Lawrenceville, Tenn.

Inst. Type: PAC-15A

**Ser. No.:**

**Scaler:**

Bgr: 0 c/m

**Probe:**

Cal. Date:

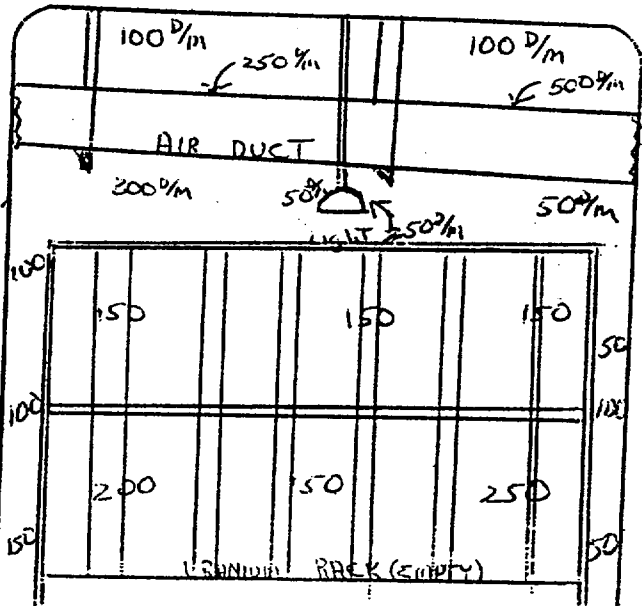
**Eff. :**

**%**

**Eff. Date:**

EAST WALL

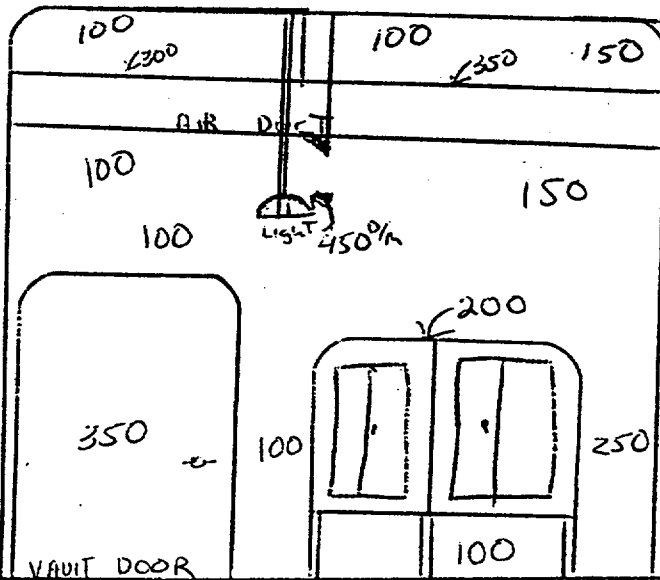
Highest Swipe 200°/m



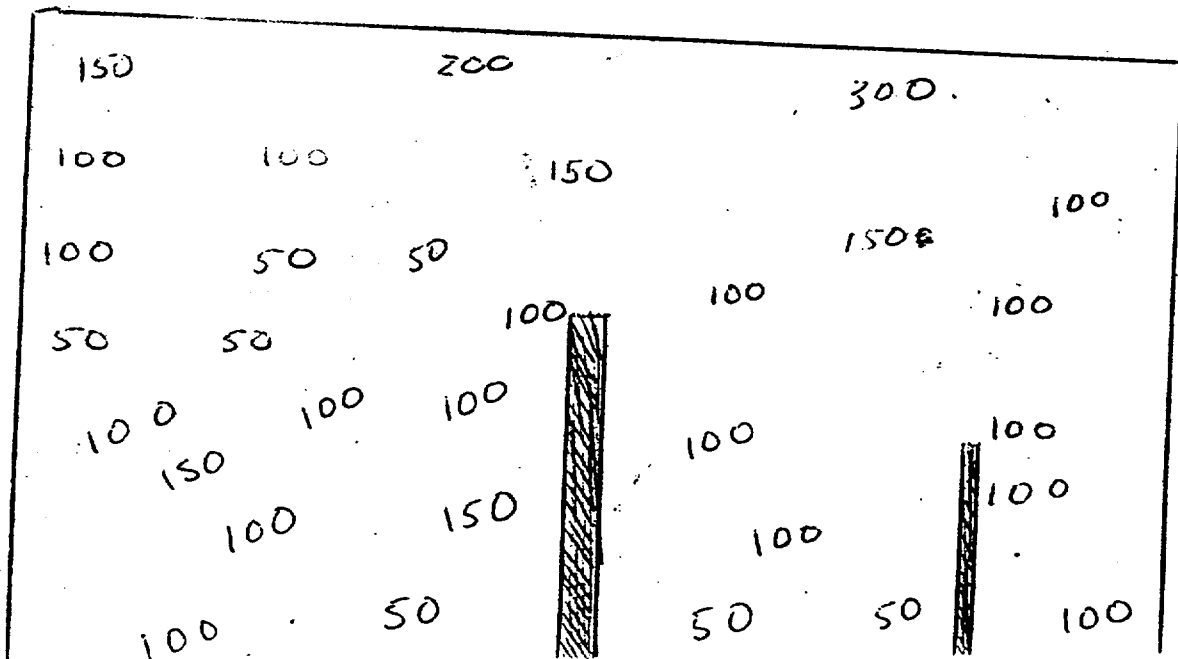
South wall

West Wall

Highest Surge 250%  
D/m fixed



against Surpe 250 D/m. all other readings D/m fixed



## TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 11-25-73	Time:
Taken by: Armstrong		Location: West, Union Carbide, Lawrenceburg, Tenn.	
Inst. Type: Pac. 15A	Ser. No.:	Scaler: —	Bgr: — c/m
Probe:	Cal. Date:	Eff.: — %	Eff. Date: —

Northwall

Highest swipe 150% All other readings % fixed

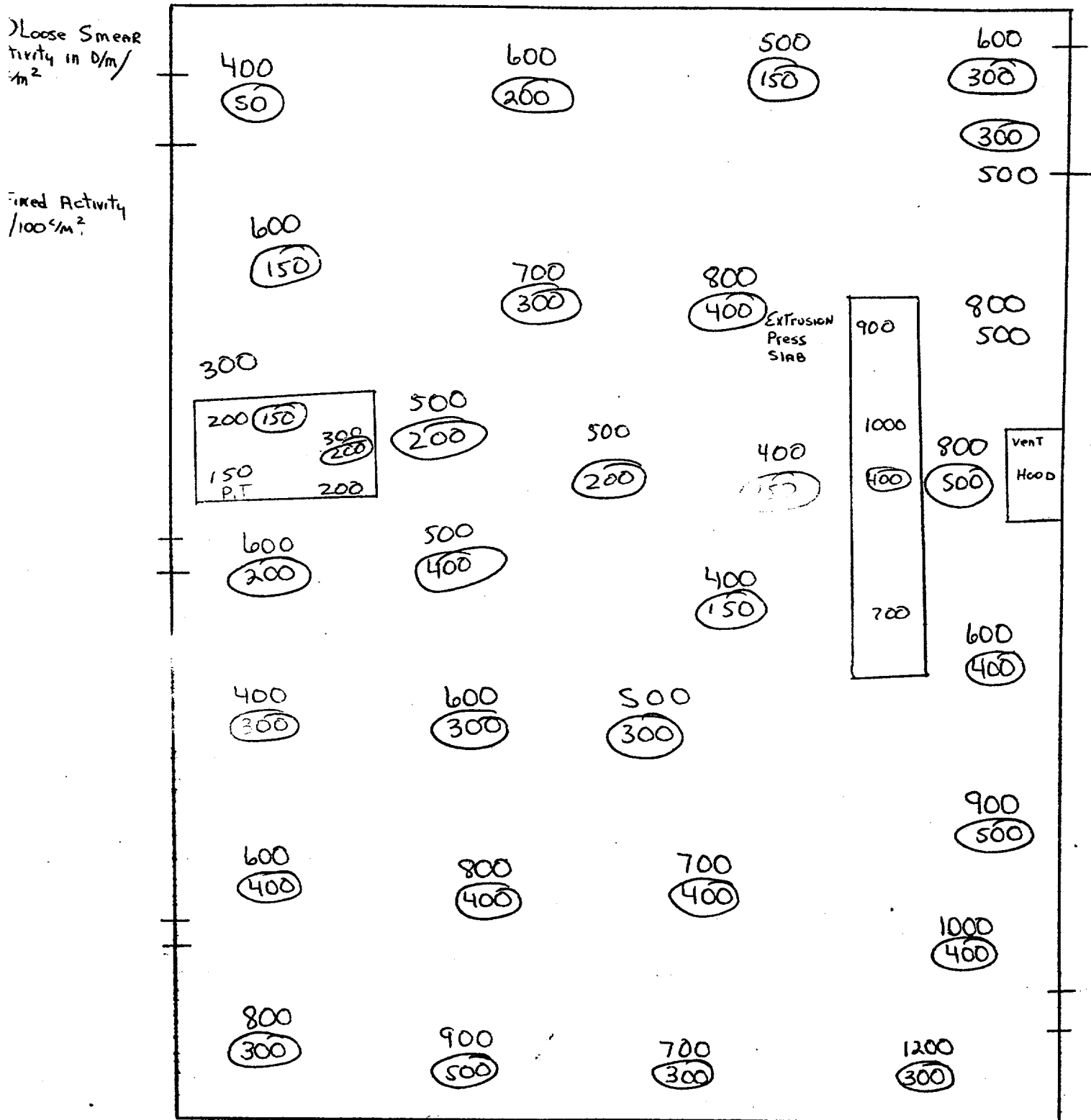
100	150	100	50	100
100	200	100	100	100
250	150	150	150	150
200	200	250	100	150
150	150	50	100	100



The above listed items are unconditionally released for the specifications set forth in "Guidelines for Decommissioning of Equipment and Facilities Prior to Release for Burialment Use or Termination of Interest for Soviet By-Product or Special Nuclear Material", -USAE April 22, 1970. Page 41

# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input checked="" type="checkbox"/> Dose Rate in mRem/hr		Date: 11-26-73	Time:
Taken by: Hunter		Location: Room 122 - Forming	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:



Less Than .1 <sup>μR</sup>/HR Beta-Gamma

## TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: Swipe in pCi/100cm<sup>2</sup> ☐ ☐  
Dose Rate in mRem/hr

**Time:**

00100

11-26-73

Taken by: H. J. ...

Location: RM 173 Exp. 10

Inst. Type: PAC-7 SA

Sgt. No.:

Scalar:

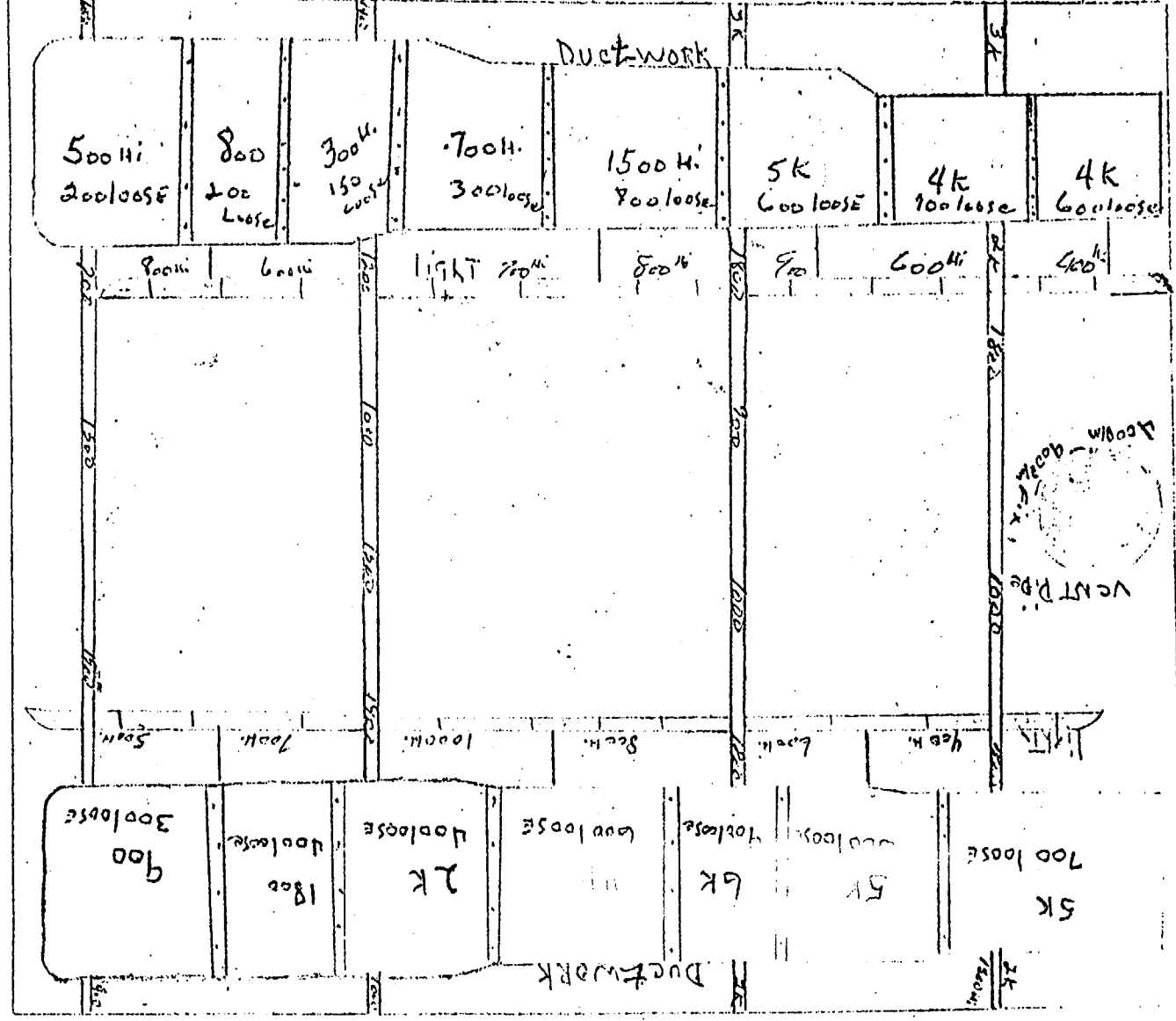
15.

1000

Cal. Date:

343

**ଅଫି. ପାଠ୍ୟ:**



Loose  
activity swipe  
in dpm/100cm<sup>2</sup>

— Fixed Activity in  $\text{dpm}/100\text{cm}^2$

## TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input checked="" type="checkbox"/> Dose Rate in $\text{mRem}/\text{hr}$		Date: 11-27-73	Time:
Taken by: HUNTER E.E.		Location: RM 121 Farming	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:

900	700	800	500
800	700	500	400
600	500	400	300
400	300	600	500
200	300	500	400

NORTH WALL

600	800	500	500
300	500	700	600
400	200	600	400
200	400	400	300
300	200	300	200

SOUTH WALL

700	800	500	700
500	600	400	300
300	400	700	500
400	500	400	300
200	300	200	300

WEST WALL

500	900	700	1000
600	500	800	900
200	700	600	700
150	500	700	500
200	300	500	400

EAST WALL

Above readings fixed & contaminates loose ALL  
less than 500  $\mu\text{Ci}/100\text{cm}^2$

Item by:	11-27-70	Location: ROOM - 122 - FORMING
Item Type:	Ser. No.:	Scalar:
Cal. Date:	Eff. Date:	Bgr:
		c/m

ITEM	FIXED ACTIVITY		ITEM	LOOSE ACTIVITY	
	High	Medium		High	Medium
Stainless Steel Blender	150	450	Stainless Steel Shaft - 2	200	1000
To Blender	750	750	Plastic Tubing	750	50
Vacuum Pump	100	200	Fuse (Cartridge) (9)	750	50
Press, Hydraulic	750	200	Filter	750	50
I CANS (13)	750	100	Glass Funnel (31)	750	50
Sodium Borate	750	100	Power Starter	750	50
Hander Wrench	100	300	Misc. Parts (1 Box)	750	100
Access, Hose to Pipe	750	300	Filter Paper (1 Box)	750	400
Relay Control	750	750	Stainless Steel Funnel	750	750
Test Stand	750	50	API meter, D.C., Volts	750	100
Vacuum Pump	750	50	Hanger Straps, Rubber (1 Box)	750	750
Surgical Apparatus	750	50	Glove Box Sleeves, Rubber (3)	750	50
Tar & Redistal	750	750	Light Fixtures (10)	750	500
IT Rack	100	50	Access Doors To Furnace Control	250	500
Tric Motor "Khan"	50	300	Chart Paper (10)	100	350
Plant, 2 CANS	750	750	Chart Recorder	750	750
Pipe Coupling	750	750	Small Silver Oven	150	50
"14" Fire Bricks (7)	750	100	Filter	750	750
Shaker Box	750	50	Heating Elements (25)	750	200
Sh. Switch	750	750	Copper Tubing 1/2" Wall	750	350
Board, Sta. 74	50	150	Lg. Steel Cover	750	750
Misc. Parts	750	100	Wood Panels (4)	750	750
Die S POUTS, 3	750	750	Wood Doors (2)	750	750
Element Board	50	150	Wood Frame	750	750
S, Galvanized, 5	750	50			
	750	100			
Sealer	750	100			
Old Switch	750	750			

The above listed items are unconditionally released for the specifications set forth in "Guidelines for Decommissioning of Equipment and Facilities Prior to Release for Unrestricted Use or Termination of License for Source By-Product on Special Nuclear Material" - USAR.

April 22, 1970. Page 45

de Survey: LOOSE (SWIRE) AND  
FIXED (CONTACT) ACTIVITY  
IN DPM / 100 CM<sup>2</sup>

Date: 11-27-73

Time:

ken by:

Location: UNION CARBIDE - LAWRENCEBURG, TENN  
ROOM - 122 Forming

st. Type: Ser. No.: Scaler: Bgr: c/m

obs: Cal. Date: Eff: % Eff. Date:

ITEM	LOOSE ACTIVITY	FIXED ACTIVITY		ITEM	LOOSE ACTIVITY	FIXED ACTIVITY	
		HIGH	AVERAGE			HIGH	AVERAGE
al Strip	<50	<50	N/A	Ultra Air Filter	<50	<50	N/A
1/2' Cover	<50	<50	N/A	PARTIAL DRUM of Acetate	200	200	N/A
it PLATES	<50	<50	N/A	Glass WARE, 1 Box	100	100	N/A
DUCT, SKA/woov, (3)	<50	<50	N/A	Electric Timer	50	<50	N/A
nd Straps (3)	<50	<50	N/A	Brown Instrument	450	450	N/A
BASKETS (4)	<50	<50	N/A	Stone Cylinder	200	200	N/A
X 1/2" Pipe	<50	<50	N/A	125" Scale Dial	100	100	N/A
ring Collar	<50	<50	N/A	Electric motor w/wooden Wheel	400	400	N/A
LE w/Rollers	<50	<50	N/A	16oz Poly Bottles (1 BAG)	50	50	N/A
BOARD File CABINET	100	100	N/A	Polishing TABLE	150	150	N/A
Steel POT	50	100	N/A	Bottle Stoppers, (2 Box)	<50	<50	N/A
g UNITS, Copper, 2	<50	<50	N/A	Ground Detector	<50	<50	N/A
ess Steel pipe HALVES (4)	<50	<50	N/A	Asbestos Blocks	<50	350	N/A
PER BAR / 2 pins	<50	<50	N/A	Filter	50	400	N/A
LE Trough	<50	<50	N/A	Ultra Air Filter (7)	<50	350	N/A
RUding TABLE	800	800	N/A	ABSOLUTE Filter	<50	<50	N/A
BOARD Record Box (2)	100	100	N/A	Filter Elements (3)	<50	50	N/A
JARS, 1 BAG	<50	<50	N/A	Asbestos Filters (3)	<50	<50	N/A
STRIAL Abrasive UNIT	100	100	N/A	FIRE ALARM	<50	<50	N/A
FACE on wheels	150	150	N/A	DRI Right (3 JARS)	<50	50	N/A
CHAIR, LAB 700-710	500	500	N/A	AIR DRIER BEADS (5 BAGS)	<50	100	N/A
CH CARDS 1 Box	800	800	N/A	Sieves, VARIOUS SIZES (10)	<50	50	N/A
h Temp BATH	100	100	N/A	Fluted Pins	<50	200	N/A
R Pump	200	200	N/A	Screen Cloths, 5 Boxes	<50	<50	N/A
RAM Scale I	<50	<50	N/A	<p>The above listed items are unconditionally released per the specifications set forth in "Guidelines for Decontamination of Equipment and Facilities Prior to Release for Unrestricted Use or Termination of Licenses for Source By-Product or Special Nuclear Material", - USAEC April 22, 1970.</p>			
RAM Scale II	<50	<50	N/A				
ACUUM Pump	150	150	N/A				
ctrical Relay	<50	<50	N/A				

11-2703

Location: UNION CARBIDE - LAWRENCEBURG, TENN

Room - 122 Forming

Bgr: 5 c/m

Eff.:	%	Eff. Date:
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[illegible]

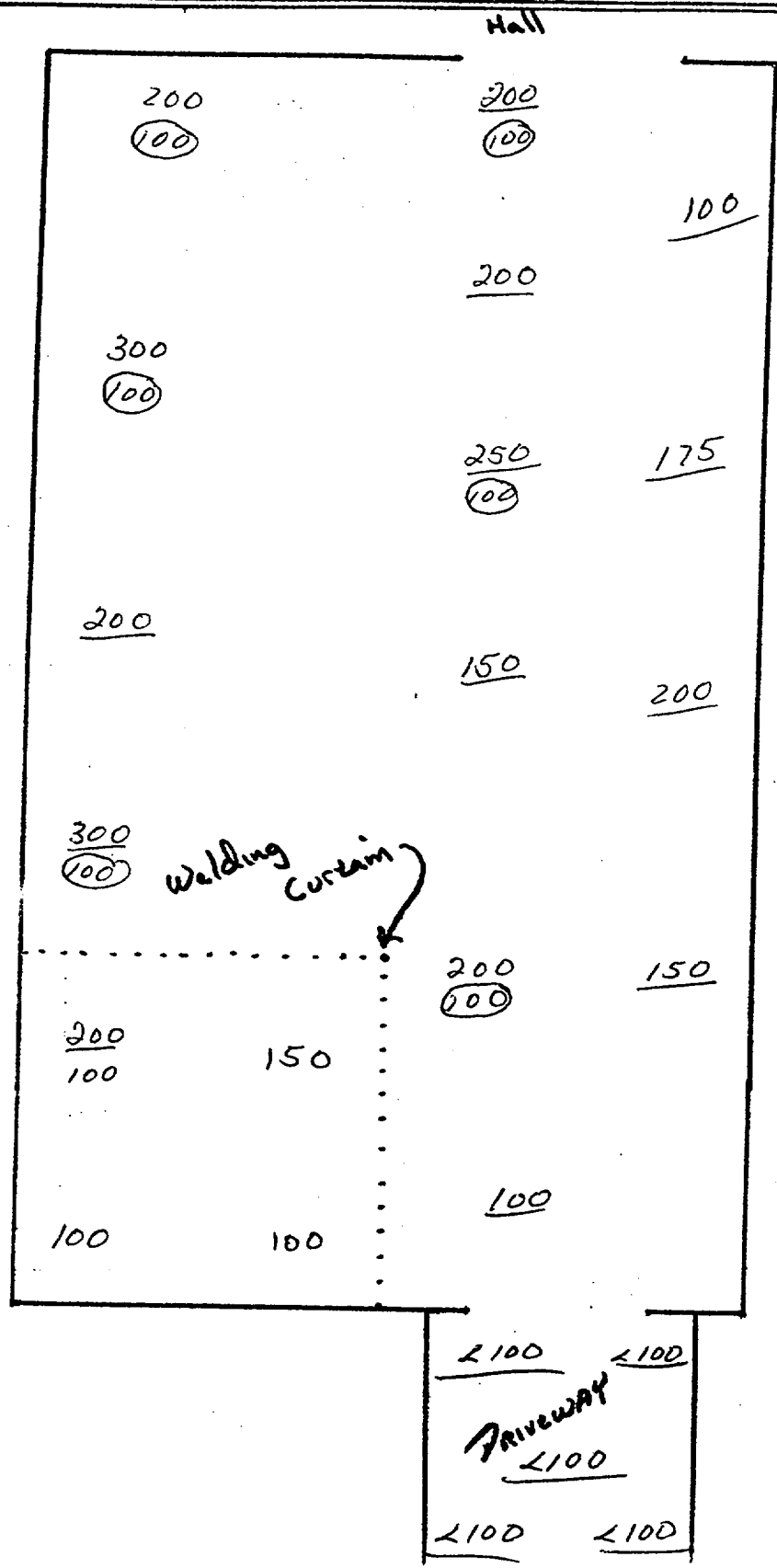
The above listed items are unconditionally released per the specifications set forth in "Guidelines for Decontamination of Equipment and Facilities Prior to Release for Unrestricted Use or Termination of Licenses for Source By-Product or Special Nuclear Material", - USAEC April 22, 1970.





# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <span style="margin-left: 20px;">Swipe in pCi/100cm<sup>2</sup> <input type="checkbox"/></span> <span style="margin-left: 20px;">Dose Rate in mRem/hr <input type="checkbox"/></span>		Date: 11-28-73	Time:
Taken by: <u>Pruett</u>		Location: <u>MAINTENANCE RM 123</u>	
Inst. Type: <u>LUDLUM 16</u>	Ser. No.:	Scaler:	Bgr: <u>c/m</u>
Probe: <u>43-4</u>	Cal. Date:	Eff: <u>%</u>	Eff. Date:



MAXIMUM Beta-Gamma  
 < 1 mrad/hr  
 < 100 dpm/100cm<sup>2</sup>

# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

pe Survey: <input type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 11-28-73	Time:
ken by: PRUETT		Location: MAINT. RM 123	
st. Type: PAC	Ser. No.: 112	Scaler:	Bgr: c/m
obe:	Cal. Date: 11-1-73	Eff: %	Eff. Date:

## NORTH WALL

200 (100)	250 (100)	300 (100)	100
100	200 (100)	100	250 (100)
150	200 (100)	200 (100)	100
200 (100)	100	150	150

## SOUTH WALL

250 (100)	250 (100)	100	150
300 (200)	100	200 (100)	200
100	150	100	250
200	250	100	200

## EAST ALL FIXED < 500 D/M LOOSE

200	200	250
150		100
	100	
100		200
	250	
200	200	

## WEST All FIXED < 500 D/M LOOSE

250	150	200
150	200	200
100	150	150

## WEST VENT

250	(100) 200	300	250	(150) 200	250	(100) 300
-----	--------------	-----	-----	--------------	-----	--------------

## BEAM

(100) 200	250	200 (100)	250
--------------	-----	--------------	-----

(150) 200	200	(100)	250	(100)
--------------	-----	-------	-----	-------

Type Survey: Fixed (Control) Activity  
 Taken by: [Signature]  
 Date: 11-28-70  
 Location: ROOM 123 - MAINTENANCE  
 Time: [Blank]

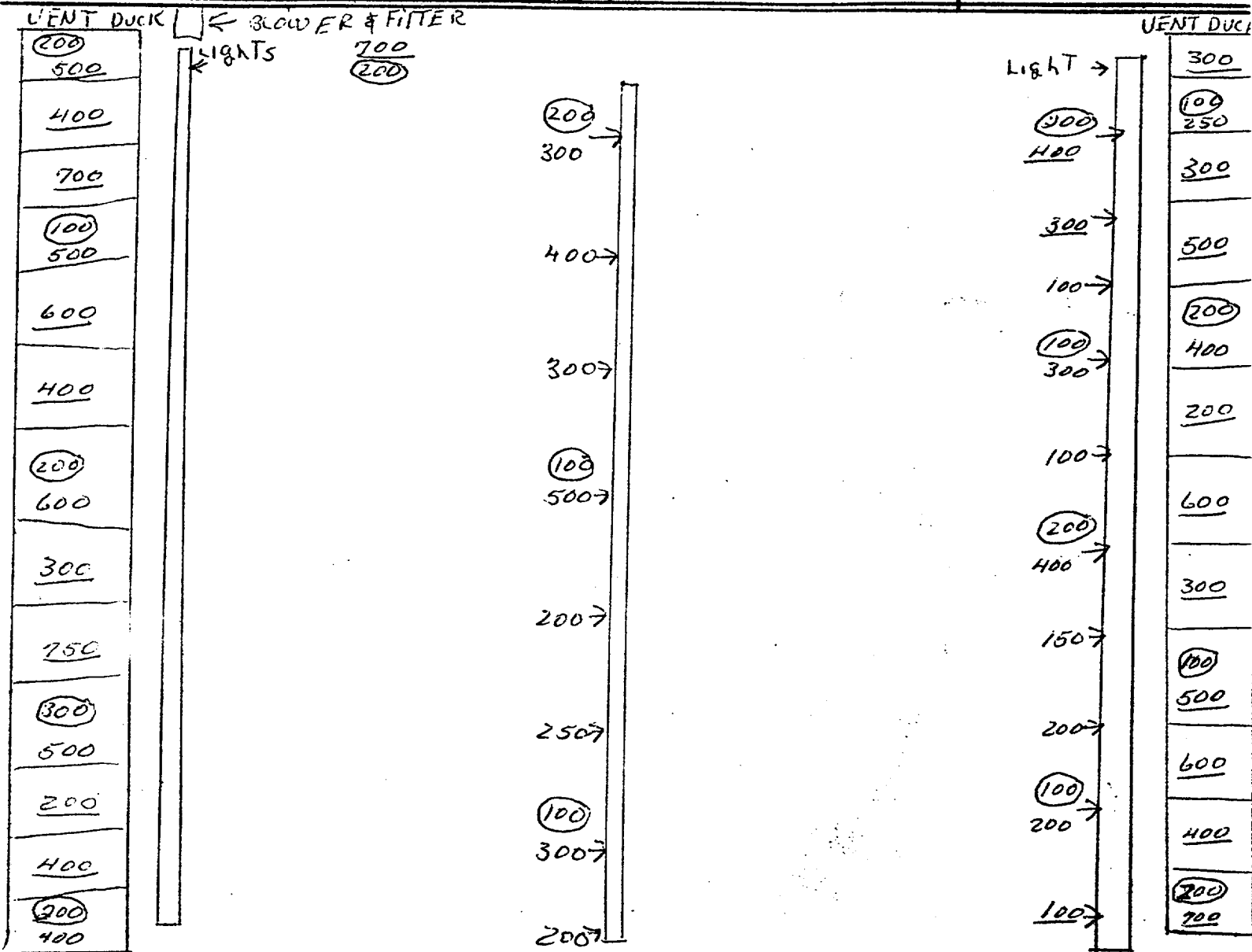
Inst. Type:	Ser. No.:	Scalar:	Bgr:	Eff. Date:
Col. Date:		Eff.:	%	

ITEM	Fixed Activity		Loose		ITEM	Fixed Activity		Loose	
	ACTIVITY	Wt. H	ACTIVITY	Wt. H		ACTIVITY	Wt. H	ACTIVITY	Wt. H
ARD BOARD STRIP	750	750	N/A	50	Circuit Control Box	50	50	N/A	50
rod, Ass't SIZES-8'	750	750	N/A	750	Transformer (3)	750	750	N/A	750
coden Door 3'x8'	200	200	N/A	200	WORK TABLE 14'x6'	200	200	N/A	200
door 5'x12	200	200	N/A	300	TABLE 2'x3'	300	300	N/A	300
enco Instrument #3	750	750	N/A	500	5/8 STRIPS	500	500	N/A	500
lass Window 3'x5'	750	750	N/A	100	Electric & Air Requirement	100	100	N/A	100
5 Pan	150	150	N/A						
electric motor	300	300	N/A						
-LP Valve (2)	750	750	N/A						
mitte AP-switch	100	100	N/A						
ST. Control Box	350	350	N/A						
ation Instrument	400	400	N/A						
motor #P24059	750	750	N/A						
3'x5.5'	900	900	N/A						
ST Collector	600	600	N/A						
NT CANS (4)	750	750	N/A						
(1st)	750	750	N/A						
Pump	800	800	N/A						
under Type GPOB	400	400	N/A						
Box (2)	50	50	N/A						
1 UCI 2 Bags	200	200	N/A						
Pump oiler	400	400	N/A						
CONDITIONER Housing	400	400	N/A						
oden Doors 4'x5' (2)	50	50	N/A						
Frequency Motor	750	750	N/A						
Control Box	750	750	N/A						
Storage File	50	50	N/A						
Ice Bar	750	750	N/A						

The above listed items are unconditionally released per the specifications set forth in "Guidelines for Decommissioning of Equipment and Facilities Prior to Release for Unrestricted Use or Termination of Licenses for Source By-Product or Special Nuclear Material", -USAR April 22, 1970. Page 51

**TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM**

<b>Type Survey:</b> <u>Swipe in pCi/100cm<sup>2</sup></u> <input type="checkbox"/> <u>Dose Rate in mRem/hr</u> <input type="checkbox"/>		<b>Date:</b> <p align="center">11-27-73</p>	<b>Time:</b>
<b>Taken by:</b> <u>Proett</u>		<b>Location:</b>	
<b>Inst. Type:</b>	<b>Ser. No.:</b>	<b>Scaler:</b>	<b>Bgr:</b> <u>c/m</u>
<b>Probe:</b>	<b>Cal. Date:</b>	<b>Eff:</b> <u>%</u>	<b>Eff. Date:</b>

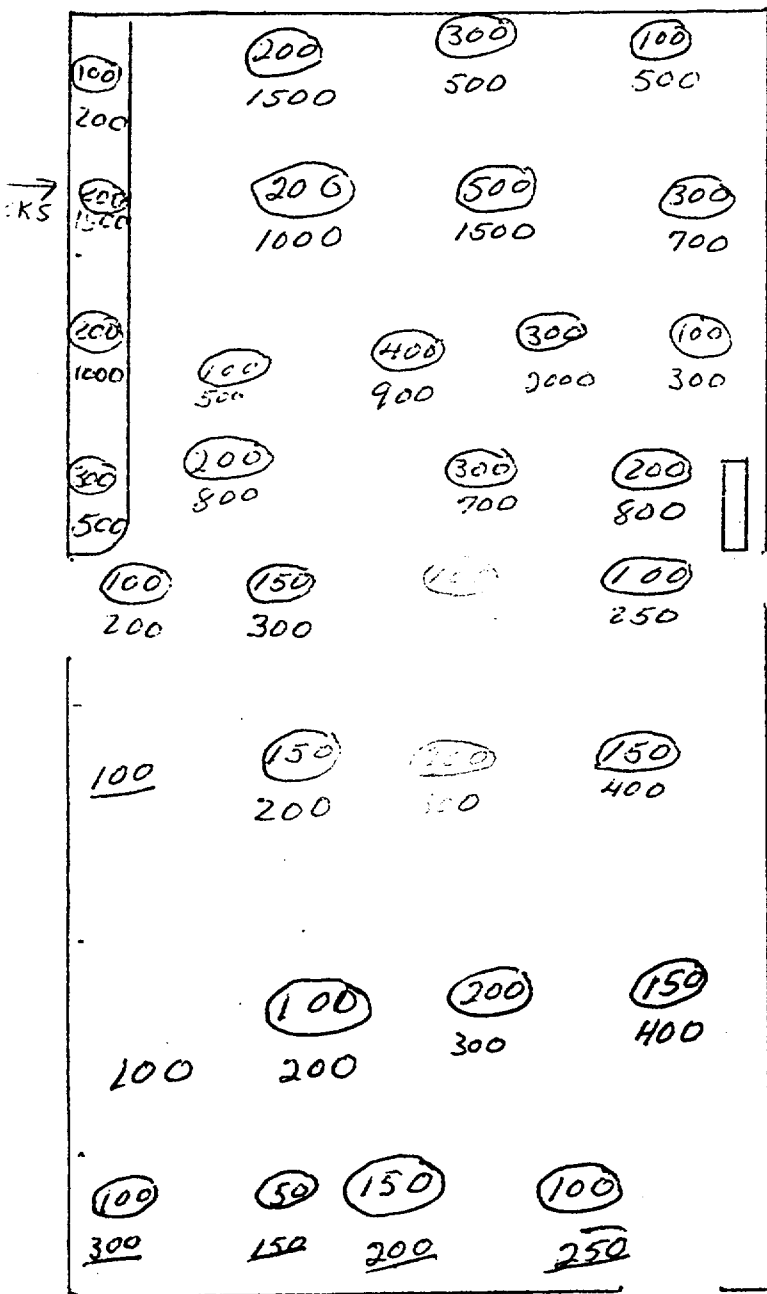


○ LOOSE ACTIVITY  
SWIPE IN DPM/100CM<sup>2</sup>

— FIXED ACTIVITY  
IN DPM/100CM<sup>2</sup>

TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <u>Swipe in pCi/100cm<sup>2</sup></u> <input type="checkbox"/> Dose Rate in mRem/hr <input type="checkbox"/>		Date: <u>11-27-73</u>	Time:
Taken by: <u>Powett</u>		Location: <u>MACHINING Rm 124</u>	
Inst. Type:	Ser. No.:	Scaler:	Bgr: <u>c/m</u>
Probe:	Cal. Date:	Eff: <u>%</u>	Eff. Date:



○ LOOSE ACTIVITY  
SWIPE in dpm/100cm<sup>2</sup>

— FIXED ACTIVITY  
in dpm/100cm<sup>2</sup>

← LINDBERG  
FURNACE

MAXIMUM B-8  
2100 dpm/100cm<sup>2</sup>  
2.1 mrad/hr

# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 11-27-73	Time:
Taken by: Pruett		Location: MACHING RM 124	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff. %	Eff. Date:

ALL READINGS ARE FIXED

	150	250	200	100
100				
	200	300	100	
100				300
	200	200	100	
200				200
200	100	100	200	
200	100		100	400

SOUTH

O-LOOSE ALL READINGS FIXED

200	300	200	400	
				200
200	250	150	200	
				200
	300	100	100	
100				300
	100	200	200	
				100
300	200	200	100	
				200
200	200	200	100	100

WEST

OPENING TO VENT DUCKS  
↓

300	200	200	200	200	100
	200		200		
200		200	150	100	20
	100				
200	200	400	100	250	200
			200		
200	200	200		300	300
100					
	200	100	200	250	200
100					

NORTH

DOOR TO HIGH BAY

BEHIND RACKS  
↓

100	100	200	100	250
50	300		200	200
	300			
200	200		200	300
	200	200		
100	200	200	100	250
	200			
100		100	100	200
	200			
100			100	100

EAST DOORS

NO LOOSE

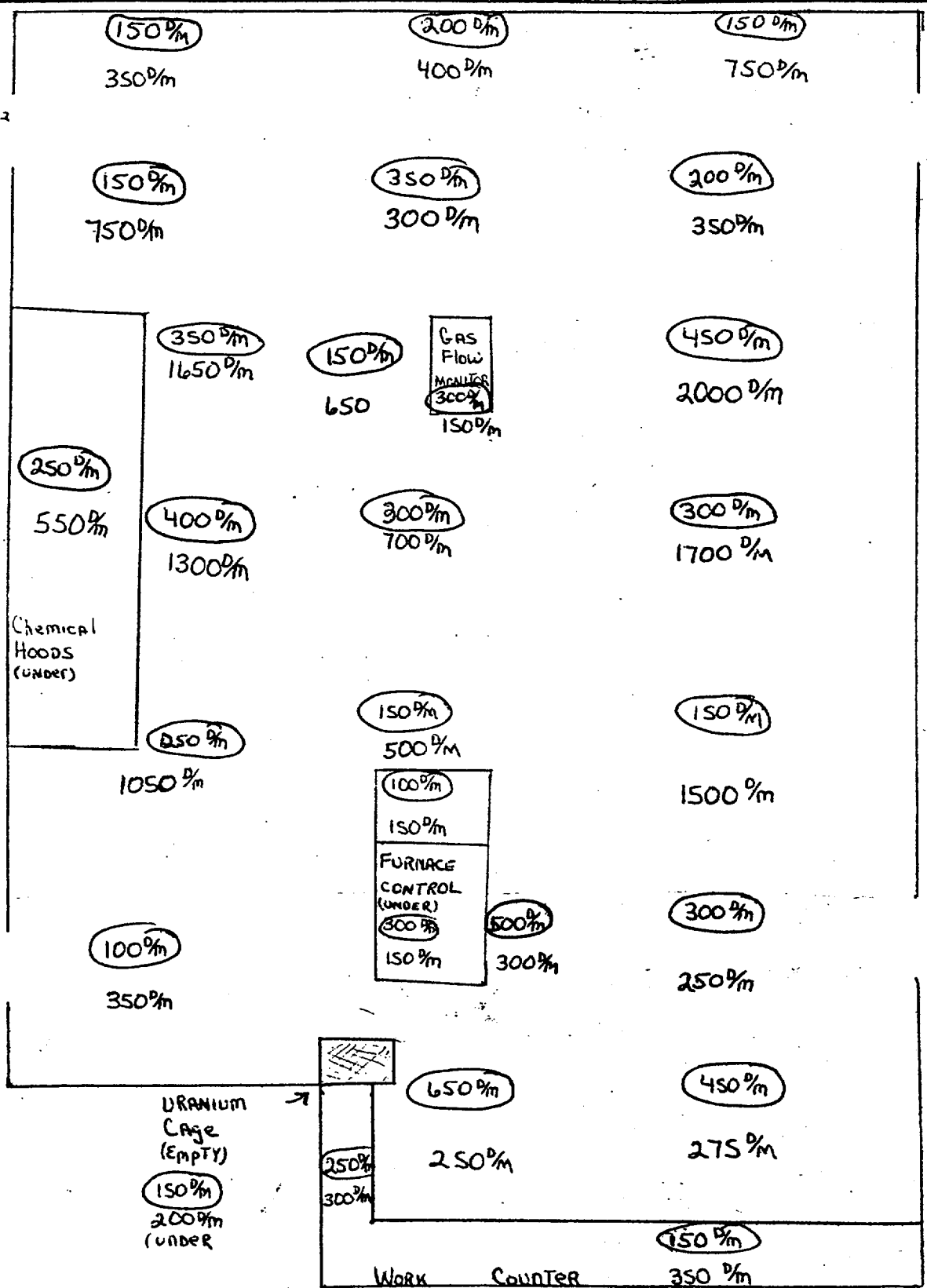
# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <span style="font-size: 1.2em;">Swipe in pCi/100cm<sup>2</sup></span> <input type="checkbox"/> <span style="font-size: 0.8em;">Dose Rate in mRem/hr</span> <input type="checkbox"/>		Date: 11-30-73	Time:
Taken by: ARMSTRONG		Location: COATING ROOM #1078	
Inst. Type: PAC-15A	Ser. No.: 684	Scaler:	Bgr: c/m
Probe: (	Cal. Date: 11-9-73	Eff.: %	Eff. Date:

LOOSE ACTIVITY  
Swipe in dpm/100cm<sup>2</sup>

FIXED ACTIVITY  
in dpm/100cm<sup>2</sup>

Maximum B-X  
Draw from 7-A  
Furnace  
.15 read/hr B-X  
< 100 dpm/100cm<sup>2</sup>

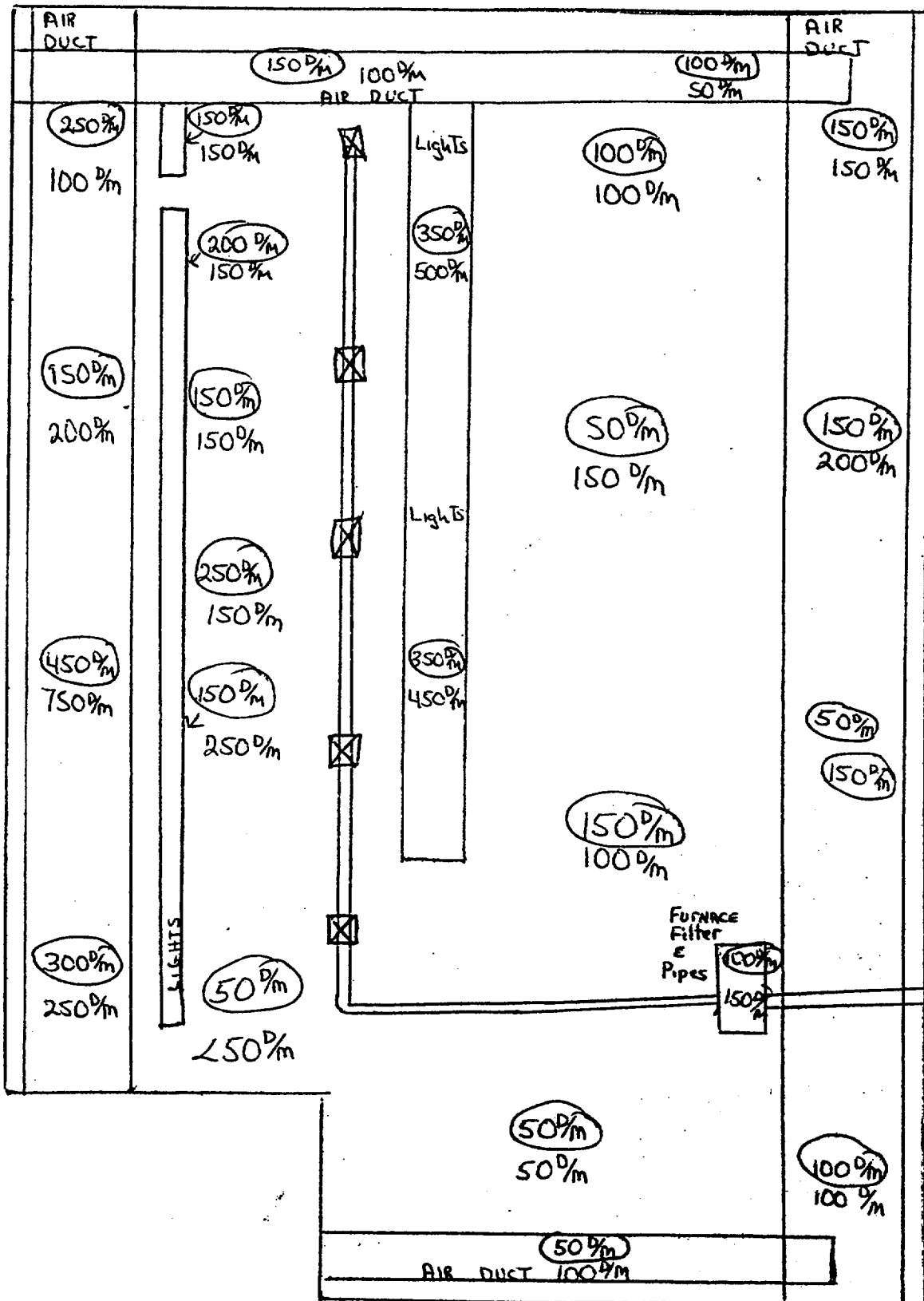


# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input checked="" type="checkbox"/> Dose Rate in mRem/hr		Date: 11-30-73	Time:
Taken by: Armstrong		Location: Coating Room #128	
Inst. Type: PAC-ISA	Ser. No.: 684	Scaler:	Bgr: c/m
Probe:	Cal. Date: 11-9-73	Eff: %	Eff. Date:

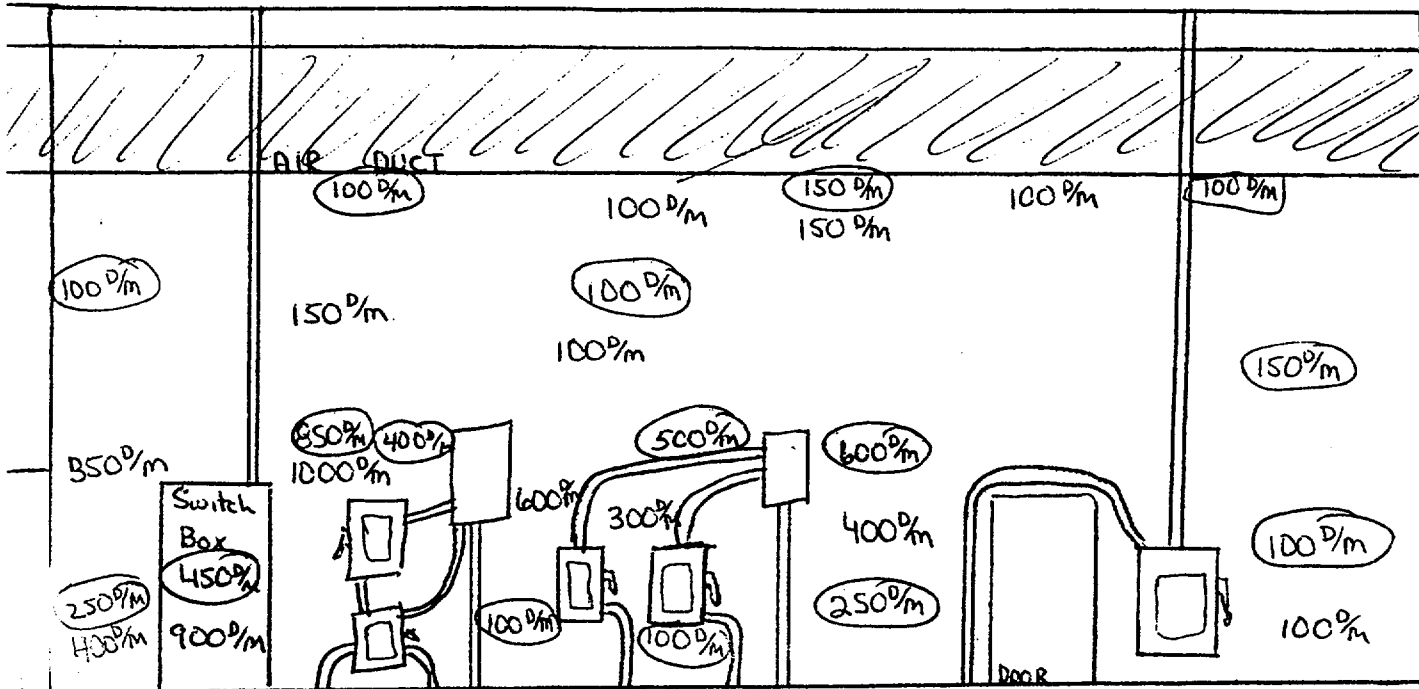
LOOSE ACTIVITY  
IN DPM/100CM<sup>2</sup>

FIXED ACTIVITY  
IN DPM/100CM<sup>2</sup>





Type Survey: Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr <input type="checkbox"/>		Date: 11-30-73		Time:	
Taken by: Armstrong		Location: Coating Room #128			
Inst. Type: PACISA		Ser. No.: 684		Scaler:	
Bgr: c/m		Eff.: %		Eff. Date:	
Probe: -		Cal. Date: 11-9-73			



○ Loose Activity  
Swipe in DPM/100cm<sup>2</sup>

Fixed Activity  
IN dpm/100cm<sup>2</sup>

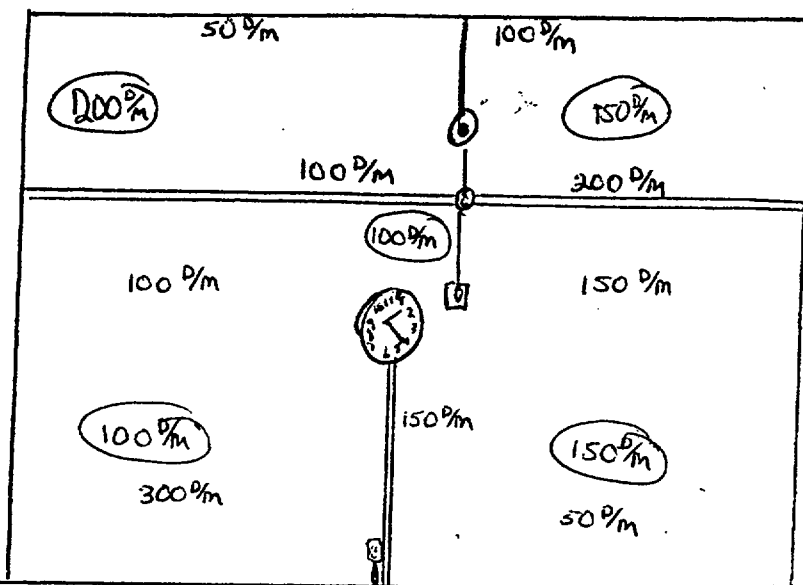
# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/> Dose Rate in $\text{mRem/hr}$		Date: 11-30-73	Time:
Taken by: <i>Amstrong</i>		Location: <i>Coating Room #128</i>	
Inst. Type: <i>PAC-ISA</i>	Ser. No.: <i>684</i>	Scaler:	Bgr: <i>c/m</i>
Probe: <i>—</i>	Cal. Date: <i>11-9-73</i>	Eff: <i>%</i>	Eff. Date:

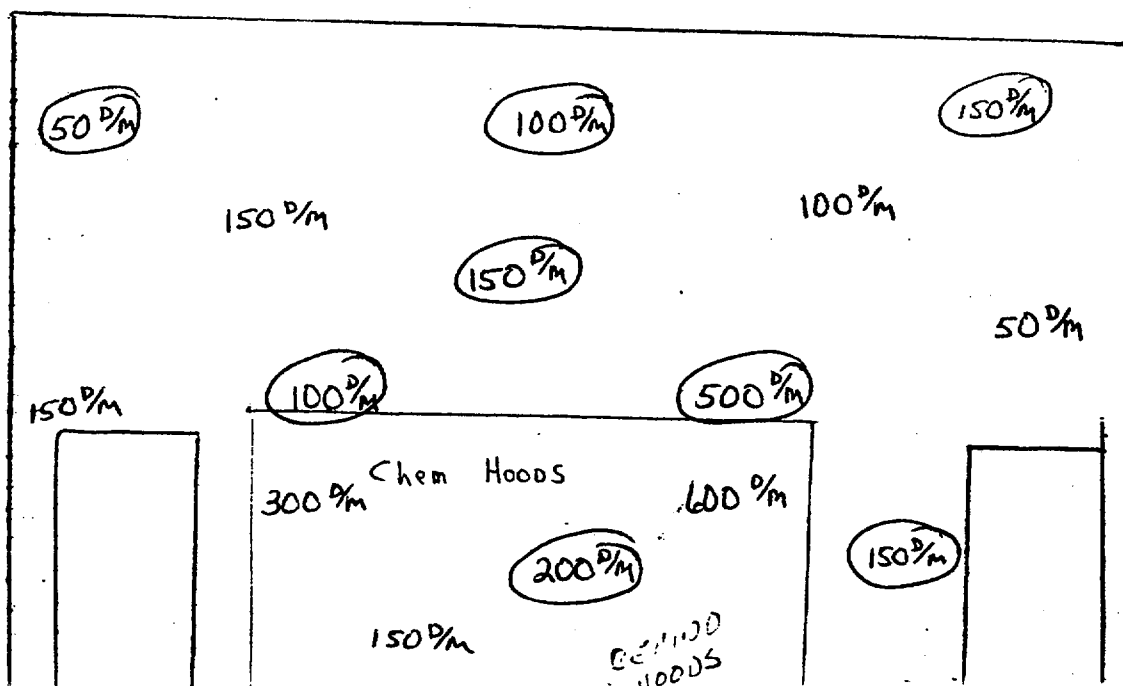
SOUTH WALL

○ Loose Activity  
Swipe in  $\text{DPM}/100\text{cm}^2$

Fixed Activity  
IN  $\text{DPM}/100\text{cm}^2$



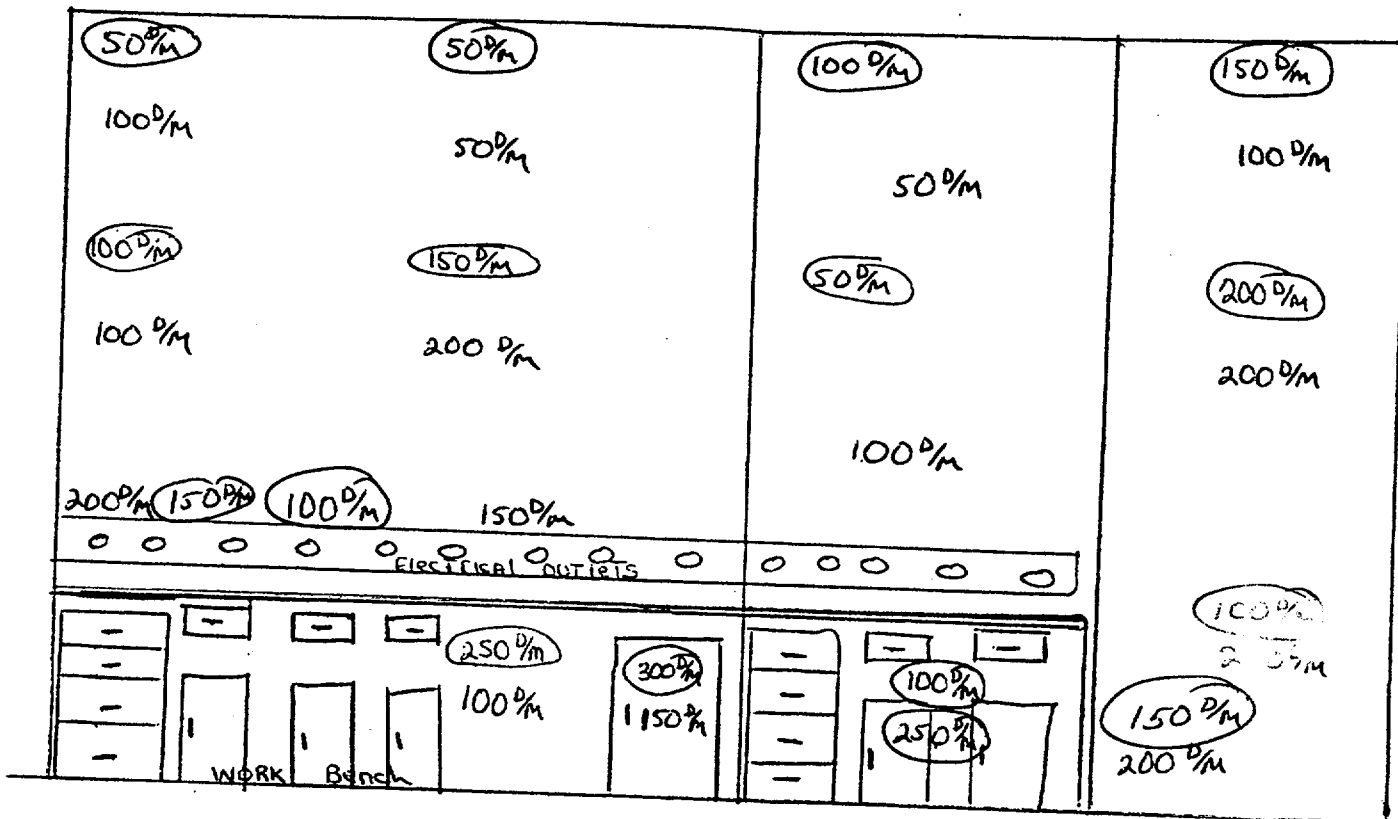
EAST WALL



TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/> Dose Rate in $\text{mRem/hr}$		Date: 11-30-73	Time:
Taken by: Armstrong		Location: Coating Room #128	
Inst. Type: PAC-ISA	Ser. No.: 684	Scaler:	Bgr: c/m
Probe:	Cal. Date: 11-9-73	Eff: %	Eff. Date:

NORTH WALL  
(w/o 90° Angles)



TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 11-30-73	Time:
Taken by: <i>Amal</i>		Location: <i>Coating Room #12A</i>	
Inst. Type: <i>PAC-ISA</i>	Ser. No.: <i>684</i>	Scaler:	Bgr: c/m
Probe:	Cal. Date: <i>11-9-73</i>	Eff: %	Eff. Date:

Back *(200 DPM)*  
100 DPM

Back *(300 DPM)*  
100 DPM

Back *(250 DPM)*  
300 DPM

Top *(350 DPM)*  
300 DPM

Top *(200 DPM)*  
350 DPM

Top *(400 DPM)*  
500 DPM

<p><i>(200 DPM)</i> 200 DPM</p> <p><i>(350 DPM)</i> 500 DPM</p>	<p><i>(200 DPM)</i> 150 DPM</p> <p><i>(200 DPM)</i> 500 DPM</p>	<p><i>(250 DPM)</i> 300 DPM</p> <p><i>(250 DPM)</i> 950 DPM</p>
<p><i>(350 DPM)</i> 100 DPM</p>	<p><i>(300 DPM)</i> 150 DPM</p>	<p><i>(150 DPM)</i> 200 DPM</p> <p><i>(175 DPM)</i> 250 DPM</p>

*○* Loose Activity  
Swipe IN DPM/100cm<sup>2</sup>

Fixed ~~Act~~ Activity  
IN DPM/100cm<sup>2</sup>

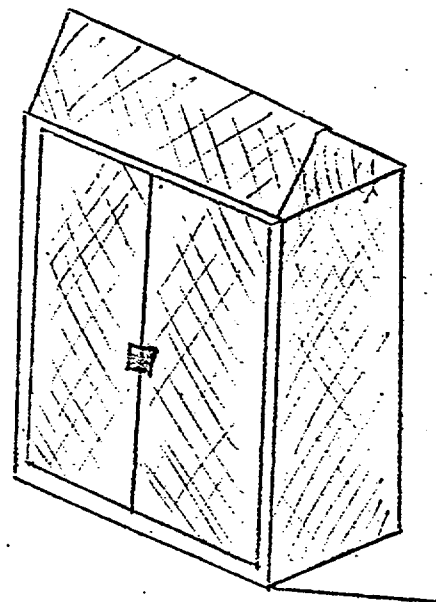
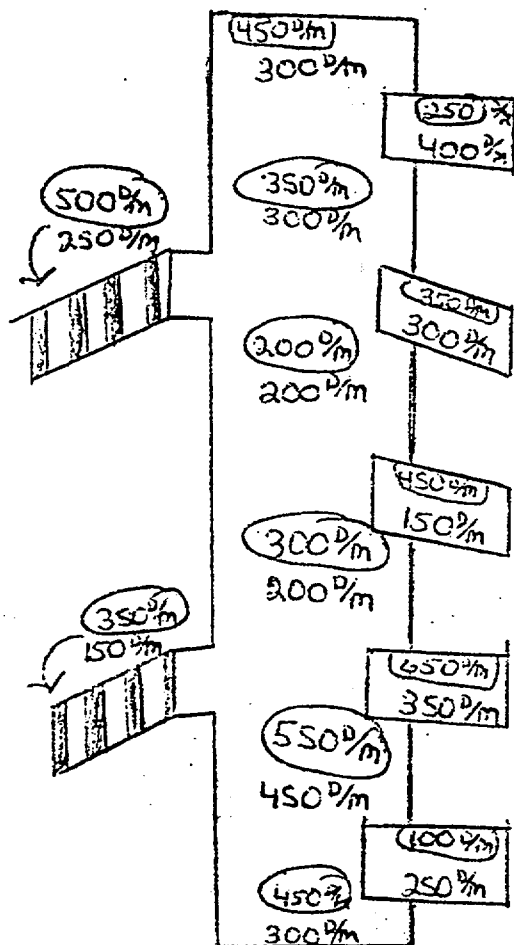
Chemical hoods

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 11-20-73	Time:
Taken by: <i>Amation</i>		Location: <i>Coating Room #128</i>	
Inst. Type: <i>PAC-ISA</i>	Ser. No.: <i>684</i>	Scaler: <i>0</i>	Bgr: <i>c/m</i>
Probe:	Cal. Date: <i>11-9-73</i>	Eff: <i>%</i>	Eff. Date:

CAT WALK

Loose Activity  
Swipe in dpm/100cm<sup>2</sup>

Fixed Activity  
in dpm/100cm<sup>2</sup>

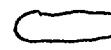



Safety Cage mounted on Wall

Date: 11-30-73 Time:	Location: <del>UNION CHURCH - ADDRESS UNKNOWN</del> Room - 128	Taken by:	Type:	Ser. No.:	Scale:	Bgr: c/m	Eff. Date:	Eff. Date:	Eff. Date:
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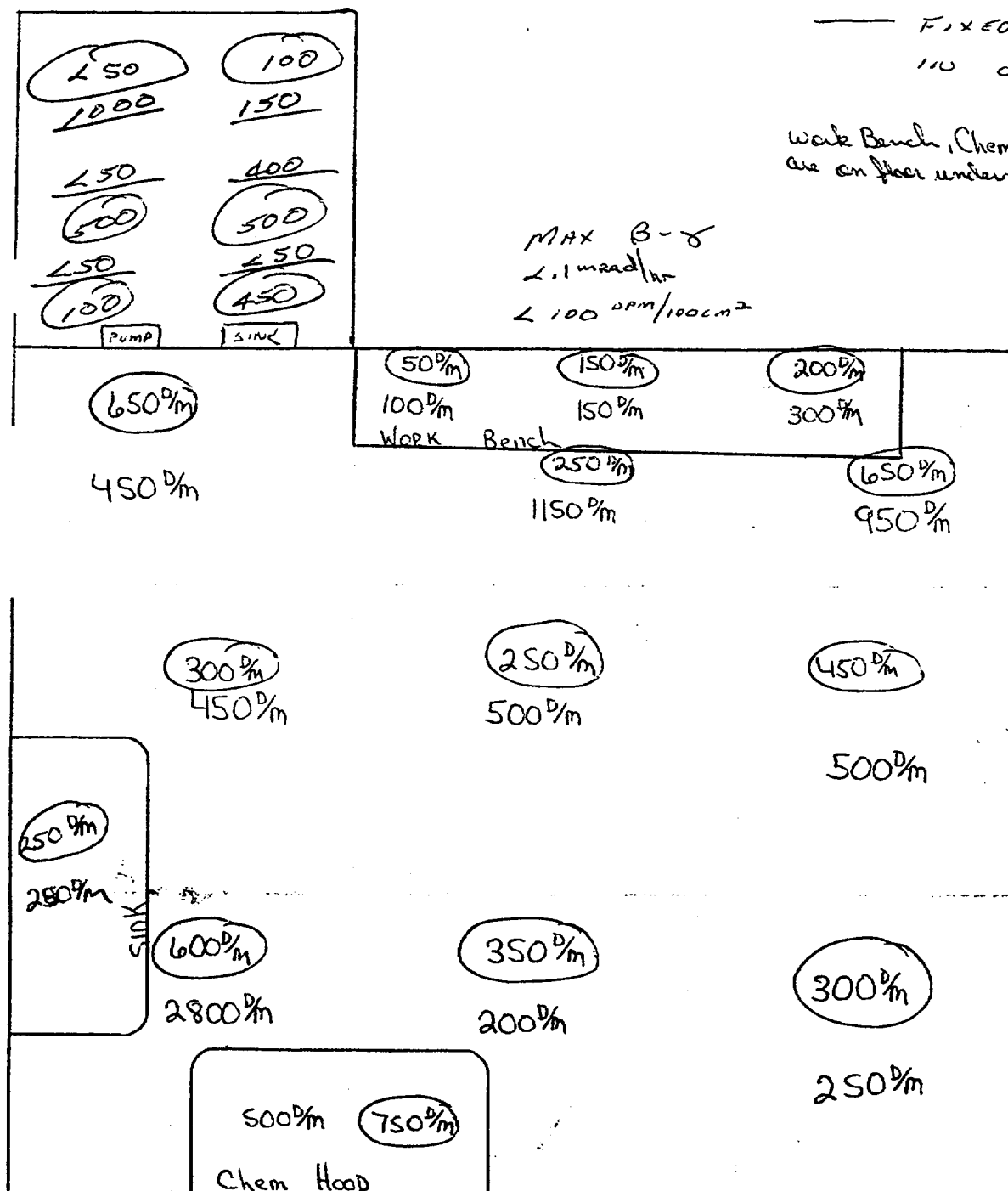
TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <b>Swipe in pCi/100cm<sup>2</sup></b> <input type="checkbox"/> <b>Dose Rate in mRem/hr</b> <input type="checkbox"/>		Date: 12-1-73	Time:
Taken by: <i>Armstrong</i>		Location: JANITORIAL LAB RM 129 F. 130	
Inst. Type: PAC ISA	Ser. No.: 684	Scaler:	Bgr: c/m
Probe:	Cal. Date: 11-9-73	Eff: %	Eff. Date:

 LOOSE ACTIVITY  
SWIPE IN dpm/100cm<sup>2</sup>

 FIXED ACTIVITY  
IN dpm/100cm<sup>2</sup>

Work Bench, Chem Hood, & Sink readings  
are on floor underneath.

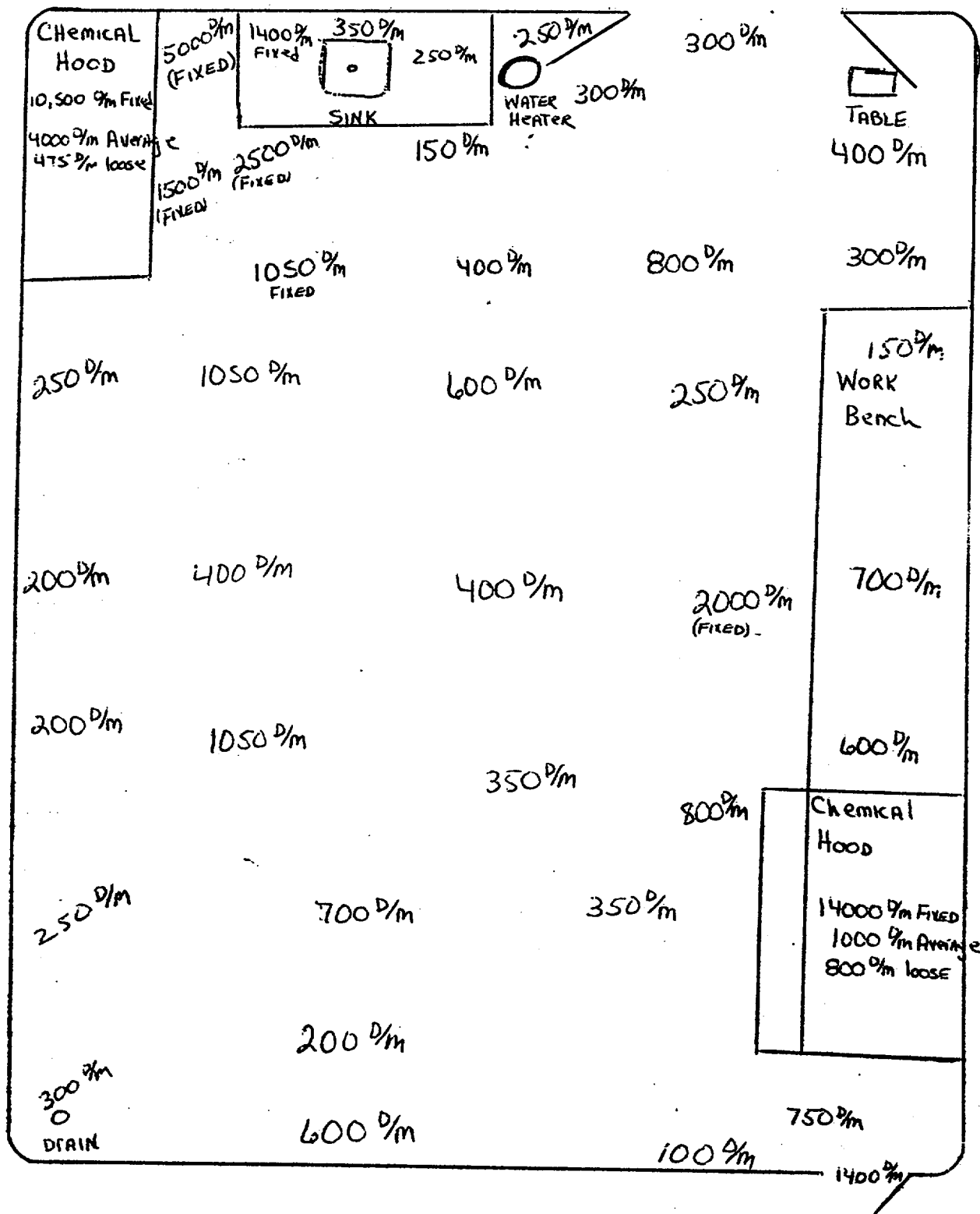


# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 12-1-73	Time: 0900
Taken by: <i>Amation</i>		Location: Chem Lab	
Inst. Type: PAC-ISA	Ser. No.: 684	Scaler: —	Bgr: — c/m
Probe: Attached	Cal. Date: 10-18-73	Eff: — %	Eff. Date: —

MAXIMUM loose on Floor 300 D/m

ALL READINGS BELOW ARE FIXED

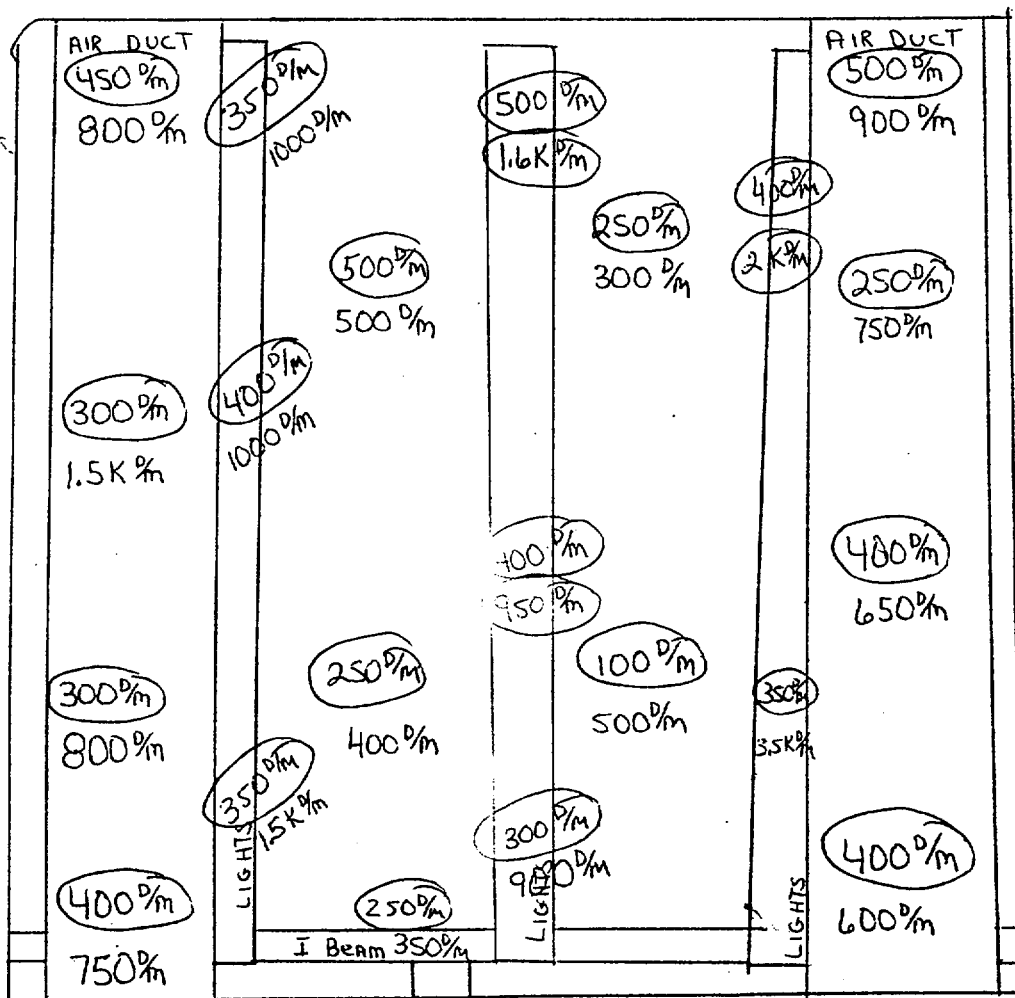




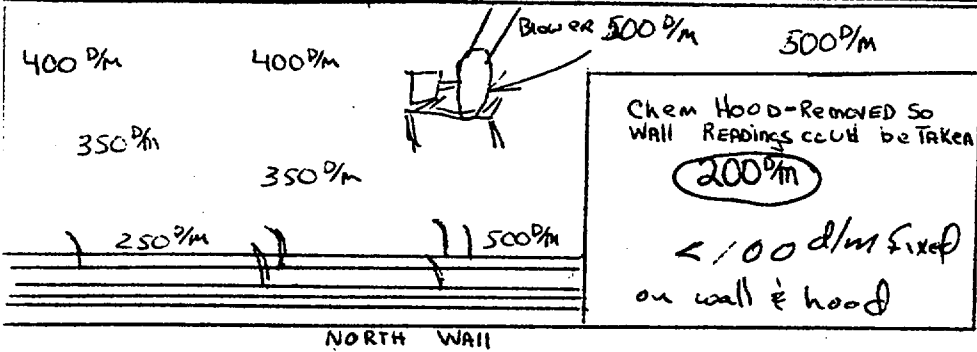
TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input checked="" type="checkbox"/> Dose, Rate in mRem/hr		Date: 12-1-73	Time:
Taken by: Armstrong		Location: Lab Room 130	
Inst. Type: PAC-ISA	Ser. No.: 684	Scaler:	Bgr: c/m
Probe:	Cal. Date: 11-9-73	Eff: %	Eff. Date:

Ceiling



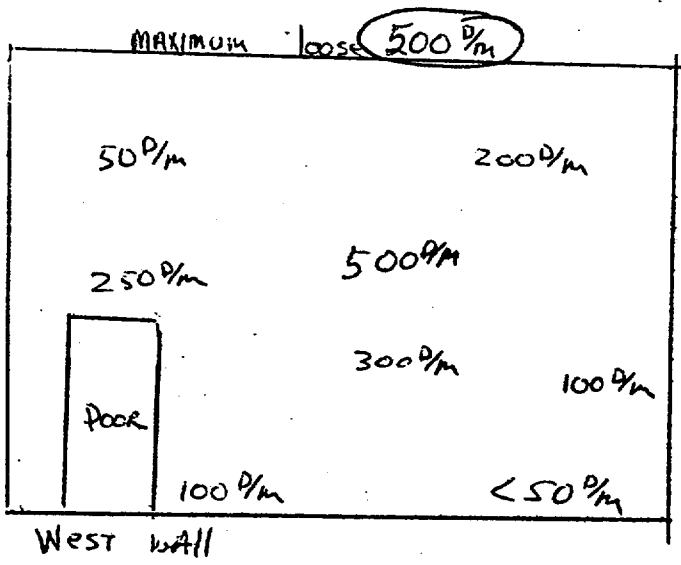
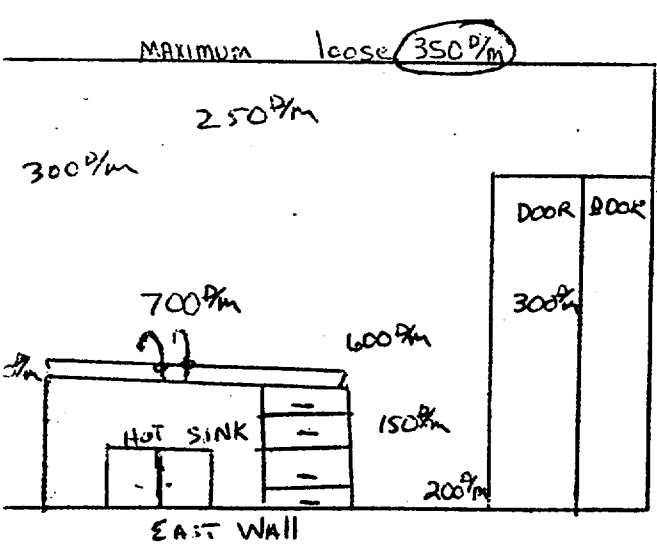
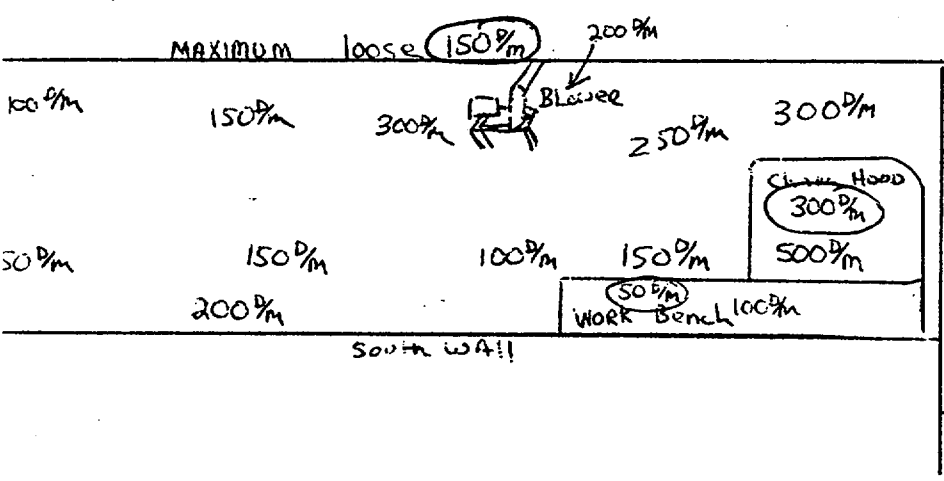
Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/> Dose Rate in $\text{mRem/hr}$		Date: 12-1-73	Time: 0900
Taken by: Armstrong		Location: Chem Lab	
Inst. Type: PAC-ISA	Ser. No.: 684	Scaler: —	Bgr: — c/m
Probe: Attached	Cal. Date: 10-12-73	Eff: — %	Eff. Date: —



MAXIMUM loose 200 dpm

Loose Activity  
Swipe IN dpm/100cm<sup>2</sup>

FIXED Activity  
IN dpm/100cm<sup>2</sup>



ALL READINGS FIXED CONTAMINATION

1000 NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 12-1-73	Time: 0930
Taken by: <i>Christy</i>		Location: Chem Lab	
Inst. Type: PAC-ISA	Ser. No.: 684	Scaler: —	Bgr: — c/m
Probe: <i>Attached</i>	Cal. Date: 10-18-73	Eff: — %	Eff. Date: —

HOT SINK

HIGHEST SWIPE 450 D/m

ALL OTHER READINGS FIXED

EXTERNAL 700 D/m High 450 D/m AV.	INTERNAL 750 D/m High 300 D/m AV.	EXTERNAL 500 D/m High 250 D/m AV.	INTERNAL 900 D/m High 300 D/m AV.
-----------------------------------------	-----------------------------------------	-----------------------------------------	-----------------------------------------

WORK BENCH SOUTH WALL  
HIGHEST SWIPE 1600 D/m  
ALL OTHER READINGS FIXED

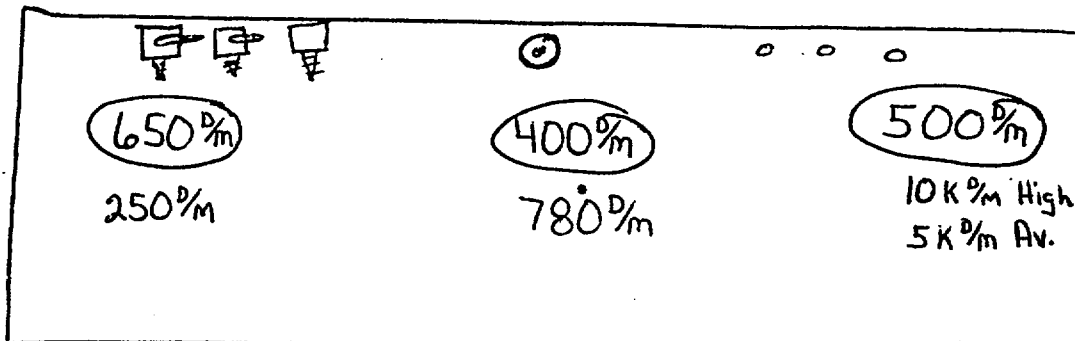
<input checked="" type="checkbox"/> 14K D/m Fixed <input checked="" type="checkbox"/> 800 D/m Loose <input checked="" type="checkbox"/> 1000 D/m Average <input checked="" type="checkbox"/> INTERNAL
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

EXTERNAL 300 D/m High 150 D/m AV.	EXTERNAL 150 D/m High 100 D/m AV.	EXTERNAL 800 D/m High 500 D/m AV.	EXTERNAL 500 D/m High 150 D/m AV.	EXTERNAL 850 D/m High 500 D/m AV.	EXTERNAL 1600 D/m Fixed 600 D/m AV.
INTERNAL 800 D/m High 250 D/m AV.	INTERNAL 400 D/m High 200 D/m Aver.	INTERNAL 350 D/m High 150 D/m AV.	INTERNAL 450 D/m High 200 D/m AV.	INTERNAL 600 D/m High 450 D/m AV.	INTERNAL 350 D/m High 250 D/m AV.

TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/> Dose Rate in $\text{mRem/hr}$		Date: 12-1-73	Time:
Taken by: Armstrong		Location: Lab. Room # 130	
Inst. Type: PAC-ISA	Ser. No.: 684	Scaler:	Bgr: c/m
Probe: -	Cal. Date: 11-9-73	Eff: %	Eff. Date:

Top of Work Bench - South Wall



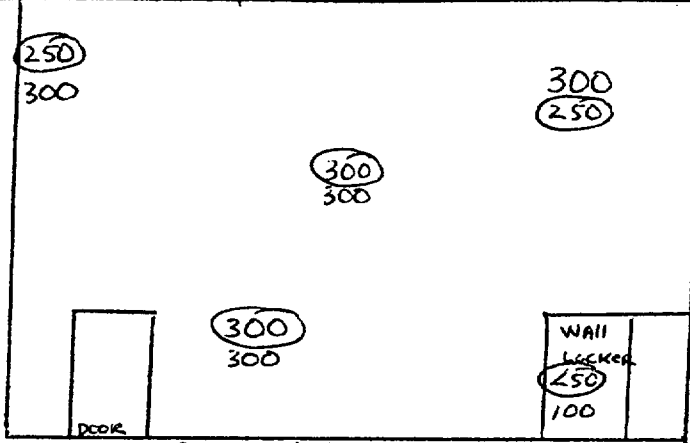
○ Loose Activity  
Swipe IN  $\text{dpm}/100\text{cm}^2$

FIXED Activity  
IN  $\text{dpm}/100\text{cm}^2$



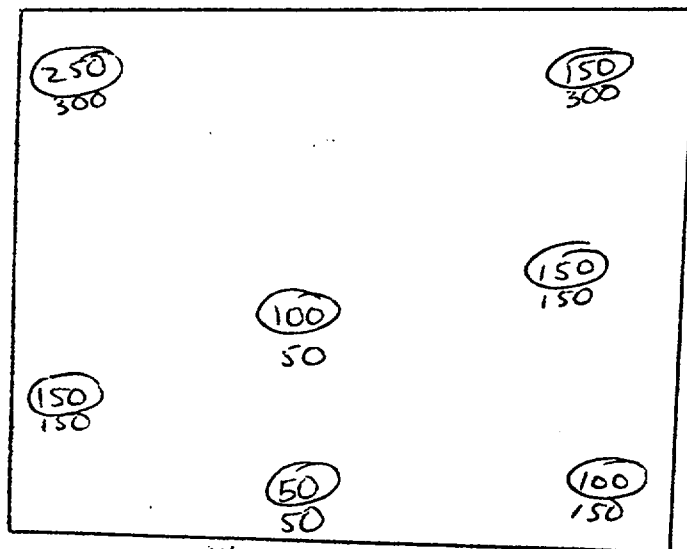
# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose Rate in mRem/hr		Date: 12-1-73	Time:
Taken by: <i>Anthony Hunter</i>		Location: Rm 125 - Janitor Closet	
Inst. Type: PAC-ISA	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:

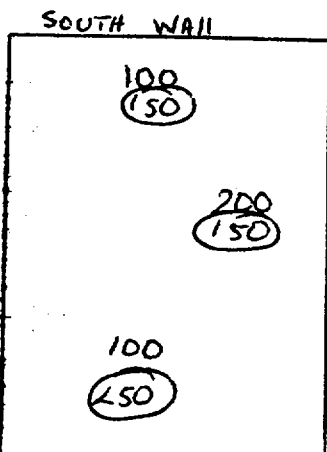
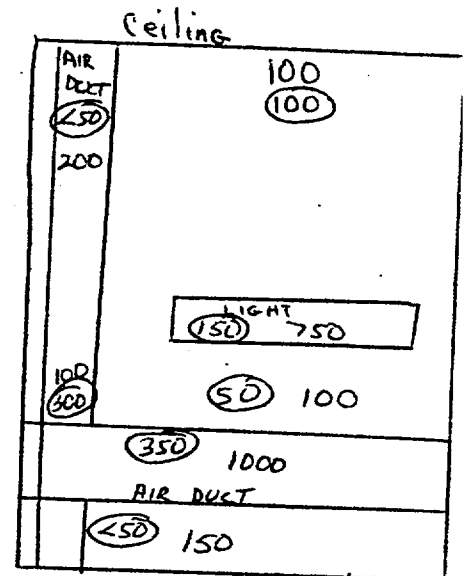


LOCKER  
MOVED  
FOR  
READINGS

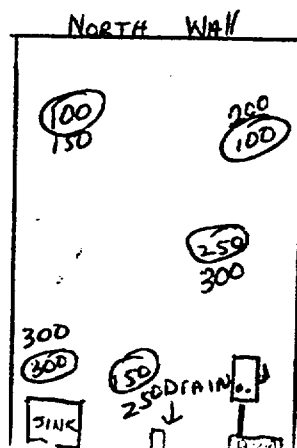
○ Loose Activity  
Swipe in dpm/100cm<sup>2</sup>  
— FIXED Activity  
in dpm/100cm<sup>2</sup>



WEST WALL



SOUTH WALL



NORTH WALL

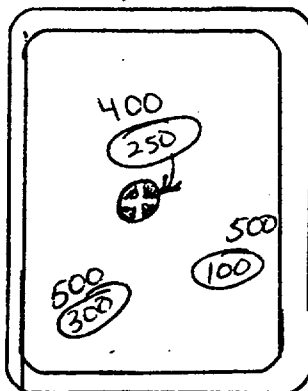
# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in $\mu\text{Ci}/100\text{cm}^2$ <input type="checkbox"/> Dose Rate in $\text{mRem/hr}$		Date: 12-1-73	Time:
Taken by: Hunter E.E.		Location: Rm 129 - Janitorial closet	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff. %	Eff. Date:

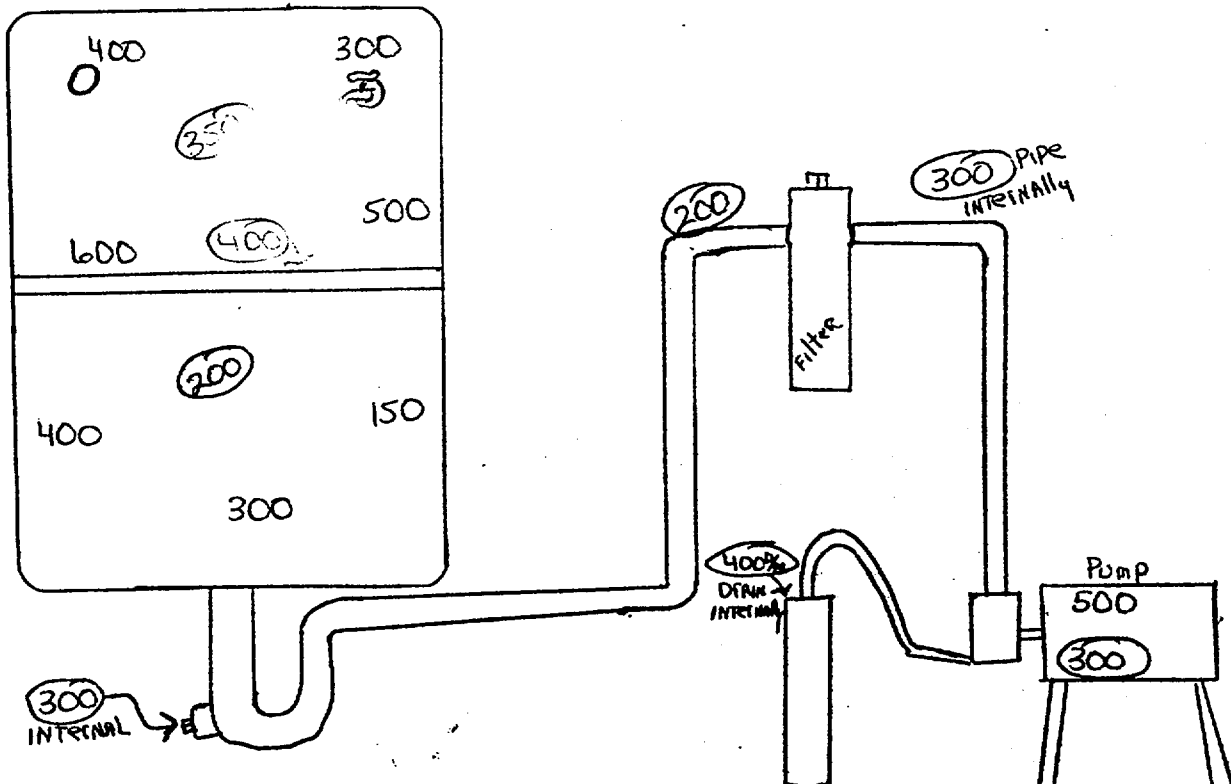
DEEP SINK & Piping

Loose activity  
Swipe in  $\text{DPM}/100\text{cm}^2$

Top view



Fixed Activity  
in  $\text{DPM}/100\text{cm}^2$



## TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input checked="" type="checkbox"/> Dose Rate in mRem/hr		Date: 12-2-73		Time: 0800	
Taken by: <i>Armstrong</i>		Location: Union Carbide, Lawrenceberg - Insp. Rm. 131			
Instr. Type: PAC-15A		Ser. No.: 111		Scaler: _____	
Probe: _____		Cal. Date: 10-21-73		Eff. Date: _____	

FLOOR

Highest Dimer 300<sup>pm</sup>

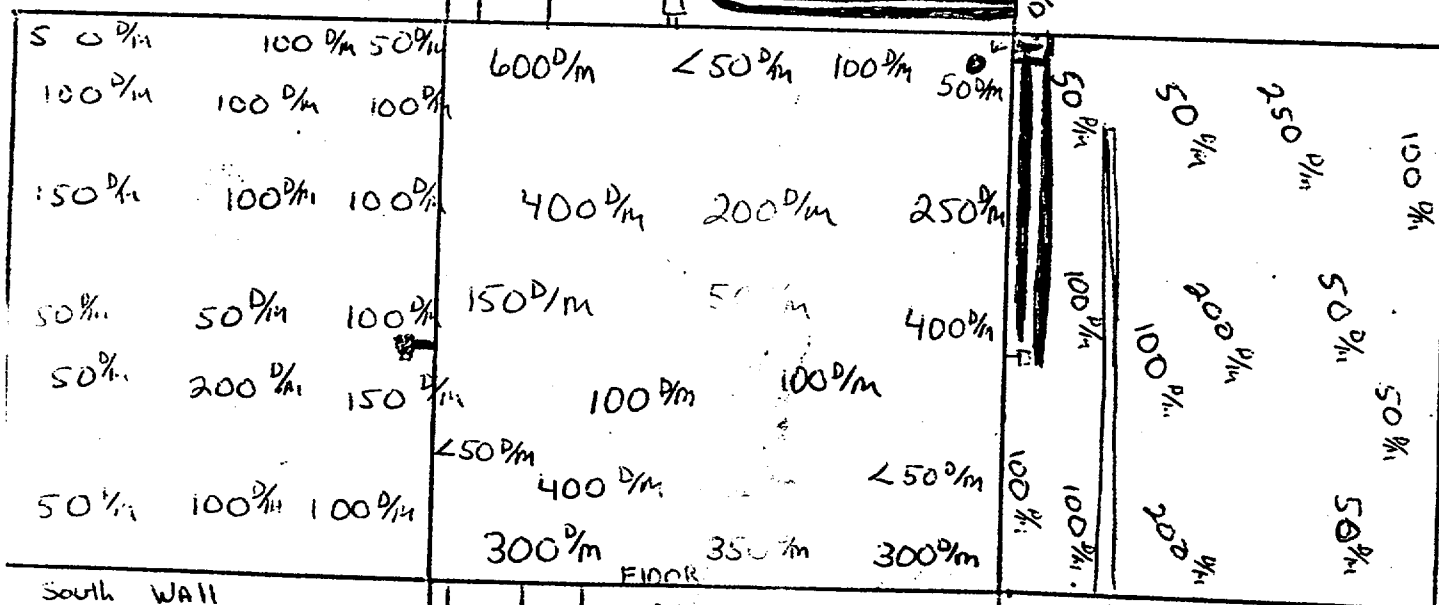
all other readings  
used

west wall

100  $\frac{V}{m}$

Max B-8  
2.1 mrad/hr  
2 ~~100~~ dpm/100cm<sup>2</sup>

North



South Wall

North wall

WORK ENTERED ALSO

Siemens 400 %

FIXED 2000 <sup>2</sup>/M

WALLS

Highest Linear 350 %  
all other readings fixed

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EAST WALL



YPS Survey: LOOSE (SINE) AND FIXED (COUNT) ACTIVITY IN DPM / cm<sup>2</sup>

taken by: \_\_\_\_\_

Date: 12-2-83

Location: ROOM - 131

Time: \_\_\_\_\_

Unit Type: \_\_\_\_\_

Serial No.: \_\_\_\_\_

Scale: \_\_\_\_\_

Bgr: \_\_\_\_\_

Eff. Date: \_\_\_\_\_

%: \_\_\_\_\_

Count: \_\_\_\_\_

ITEM	LOOSE	FIXED ACTIVITY	ITEM	LOOSE	FIXED ACTIVITY
Plastic Jar	150	<50	N/A	150	<50
Storage Cabinet	200	450	N/A	250	450
Chart Recorder w/ Housing	200	250	N/A	200	250
5/5 Work Table	200	800	N/A	200	800
DI WATER Filters (4)	250	50	N/A	250	50
Transformers (2)	200	800	N/A	200	800
"Pig" Complete	450	450	N/A	450	450
TUBE TO ABOVE "Pig"	450	450	N/A	450	450
Filter Housing (3)	450	800	N/A	450	800
Paper Cutter	450	100	N/A	450	100
Clip Board	450	250	N/A	450	250
RMS Records (3 Books)	450	450	N/A	450	450
Stapler	450	450	N/A	450	450
Electric Water Heater	250	300	N/A	250	300
Low meter (2)	450	100	N/A	450	100
Escaping Logs (4)	450	450	N/A	450	450
Tri Dish (3)	450	450	N/A	450	450
Tube Clamp	450	450	N/A	450	450
"Plate	450	450	N/A	450	450
Hole Punch	450	450	N/A	450	450
Adhesive Label (2)	450	450	N/A	450	450
"Polishing Wheel	450	450	N/A	450	450
T Slides (39)	450	450	N/A	450	450
1/5 Tray w/ Lid	450	100	N/A	450	100
1m Holders (4)	450	100	N/A	450	100
White Molds (27)	450	50	N/A	450	50
ASTIC Trays (2)	450	150	N/A	450	150
-Ray Film	450	100	N/A	450	100
DOOM BEAKER	450	150	N/A	450	150

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# TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

Type Survey: ☒ Swipe in  $\mu\text{Ci}/100\text{cm}^2$  ☐ Dose Rate in  $\text{mRem/hr}$

Time:

Date:

12-2-73

Taken by:

Hunter

Location:

ASHING RM 133

Inst. Type:

Ser. No.:

Scaler:

Bgr: c/m

Probe:

Cal. Date:

Eff.:

%

Eff. Date:

Loose Activity &  
(Swipe) in  $\text{dpm}/100\text{cm}^2$

Fixed Activity &  
in  $\text{dpm}/100\text{cm}^2$

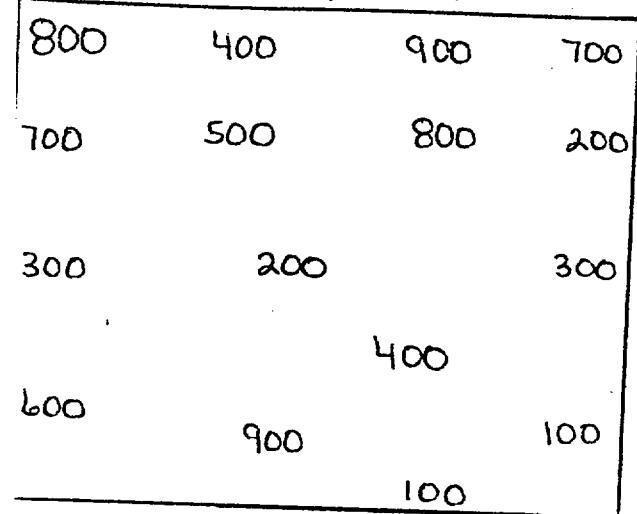
600 Au Fix 300 loose	900 Au Fix 100 loose	500 Au Fix 800 loose	800 Au Fix 200 loose	5K Au Fix 300 loose	400 Au Fix 200 loose
700 Au Fix 400 loose	1000 Au Fix 100 loose	5K Au Fix 800 loose	800 Au Fix 500 loose	500 Au Fix 200 loose	400 Au Fix 200 loose
900 Au Fix 300 loose	1000 Au Fix 100 loose	5K Au Fix 800 loose	800 Au Fix 500 loose	500 Au Fix 200 loose	400 Au Fix 200 loose
900 Au Fix 300 loose	900 Au Fix 500 loose	500 Au Fix 200 loose	1500 Au Fix 600 loose	3K Au Fix 700 loose	400 Au Fix 200 loose

Maximum B-2  
2.1 mrem/hr  
2100 dpm/100cm<sup>2</sup>

TODD NUCLEAR DIVISION - RADIOLOGICAL SURVEY FORM

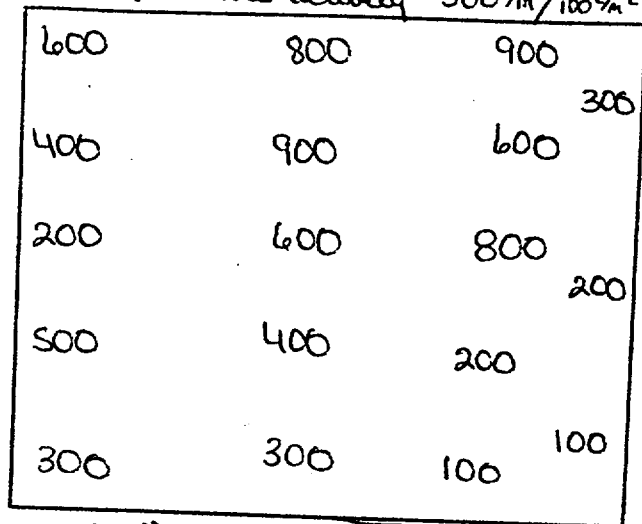
Type Survey: <input checked="" type="checkbox"/> Swipe in pCi/100cm <sup>2</sup> <input type="checkbox"/> Dose, Rate in mRem/hr		Date: 12-2-73	Time:
Taken by: Hunter		Location: Fishing Room #132	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:

Highest loose activity 700 pCi/100 cm<sup>2</sup>



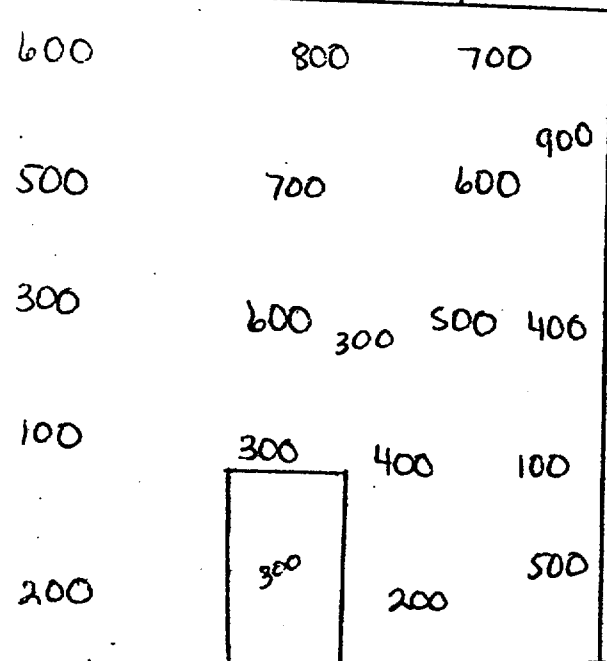
NORTH WALL

Highest loose activity 500 pCi/100 cm<sup>2</sup>



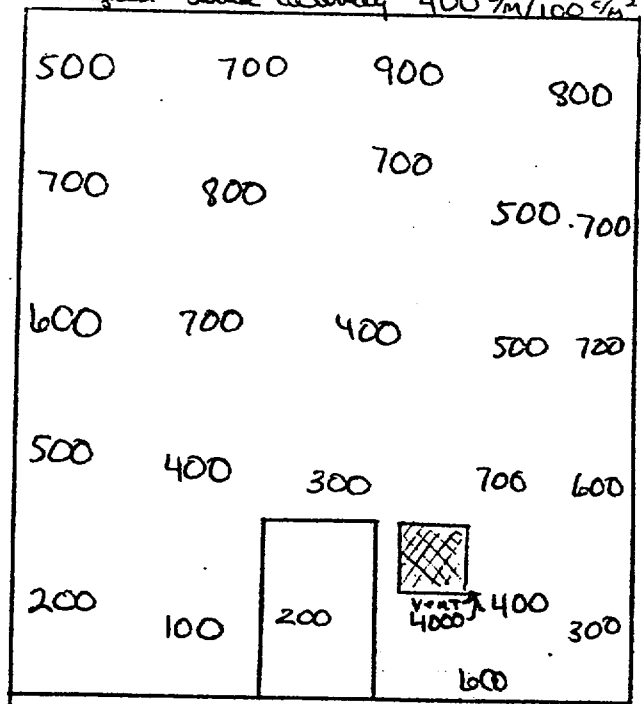
SOUTH WALL

Highest loose activity 600 pCi/100 cm<sup>2</sup>



WEST WALL

Highest loose activity 400 pCi/100 cm<sup>2</sup>



Type Survey: Swipe in pCi/100cm <sup>2</sup> Dose Rate in mRem/hr		Date: 12-2-73	Time:
Taken by: Hunter		Location: Waiting Room 132	
Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Probe:	Cal. Date:	Eff: %	Eff. Date:

Hand-drawn floor plan of a house with various rooms and their dimensions. The plan includes a living area with a fireplace, a kitchen with a stove and sink, a bathroom with a toilet and bathtub, and a bedroom with a bed. Dimensions are given in feet and inches. The plan is labeled with room names and dimensions in parentheses.

**Rooms and Dimensions:**

- Living Area: 10' x 11' (10' x 11')
- Kitchen: 10' x 11' (10' x 11')
- Bathroom: 5' x 7' (5' x 7')
- Bedroom: 10' x 11' (10' x 11')

**Other Features:**

- Fireplace: 10' x 11' (10' x 11')
- Stove: 10' x 11' (10' x 11')
- Sink: 10' x 11' (10' x 11')
- Toilet: 5' x 7' (5' x 7')
- Bathtub: 5' x 7' (5' x 7')
- Bed: 10' x 11' (10' x 11')

**Dimensions:**

- Overall dimensions: 30' x 40' (30' x 40')
- Room dimensions: 10' x 11', 5' x 7', 10' x 11', 10' x 11' (10' x 11', 5' x 7', 10' x 11', 10' x 11')

— Fixed Activity  
in DPM/100cm<sup>2</sup>

100 ppm / 5 cm<sup>2</sup>

: ၆၇ ဖခင်

Date: 12-2-73

Time:

Location: Room -

Scalbr: Bgr: c/m

W/C

Ser. No.:

SECRET

**Bgr:**

Est. Date:

**%**

ET:

Cal. Date:

:EFC

LOOSE	FIXED
ACTIVITY	11/12/11

well.

ACTIVITY

11111	11111
11111	11111

Item	QTY	UNIT	PRICE	TOTAL
3/4" Copper Pipe (15')	800		1000	200
3/4" Conduit 5'	200		800	N/A
1/2" Copper Pipe (25')	300		300	N/A
1" Pipe (8')	750		750	N/A
1/2" Copper Pipe (10')	200		100	N/A
3/4" Conduit (5')	500		1100	150
3/4" Conduit (8')	300		300	N/A
Argon line	850		1100	100
1" Copper Pipe (12')	550		550	N/A
1 3/4" Pipe (6')	300		300	N/A
2" Pipe (8')	300		300	N/A
1" Conduit (2')	100		100	N/A
Duct Work	800		800	N/A
1" Conduit (8')	700		700	N/A
Vent w/Blower	100		100	N/A
Oven	250		250	N/A
Vent w/motor	400		400	N/A
Metal Stairs	900		900	N/A
Vent	500		500	N/A
Vent w/Pipe	350		350	N/A
Baskets	950		9000	1500
Duct Work	600		600	N/A
Work Table	400		400	N/A
750			8000	1500

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Type Survey: **HOUSE LEAKING AND FIXED CONTENT ACTIVITY IN DPM / 100 CM<sup>2</sup>**
 Date: **12-2-73**
 Time:

Taken by:
 Location: **UNION CARBIDE - LAWRENCEBURG, TENN ROOM -**

Inst. Type:	Ser. No.:	Scaler:	Bgr: c/m
Obs:	Cal. Date:	Eff: %	Eff. Date:

ITEM	LOOSE ACTIVITY	FIXED ACTIVITY		ITEM	LOOSE ACTIVITY	FIXED ACTIVITY	
		HIGH	AVERAGE			HIGH	AVERAGE
DUCT WORK	500	500	N/A	BAR STOCK 1" X 1/2"	100	100	N/A
CONDUIT	300	300	N/A	TABLE 2' X 4' (2)	750	1000	800
DUCT WORK	400	400	N/A	SYNTHASALK (TENN)	50	50	N/A
Vent Pipe (3)	600	600	N/A	Vent Pipe w/motor	800	800	N/A
Water Housing	900	6000	1500	3" Pipe (8')	750	1300	800
EXHAUST Blower (2)	800	800	N/A	METAL STAND (2)	500	500	N/A
Water Housing	800	800	N/A	WOODEN Shelf 6' X 8' (2)	200	1500	500
Metal Framework	300	300	N/A	BASKET (3)	600	8000	1300
GLASS DOOR	400	400	N/A	Glove Box	350	4000	800
METAL TABLE (2)	800	800	N/A	Filing CABINET (2)	450	9000	850
Multiple Unit (2)	600	600	N/A	DOOR TO GLOVEBOX	600	600	N/A
Light Screens	300	300	N/A	S/S TABLE	350	350	N/A
ITEM TABLE (2)	600	600	N/A	Metal FRAME	700	3000	1200
PIPE	500	500	N/A				
Offing chains	600	600	N/A				
CONDUIT	200	200	N/A				
Cable "	100	100	N/A				
W. h. "	300	300	N/A				
CART	300	3500	300				
WIRE BASKET	700	700	N/A				
WIRE BASKETS (9)	150	150	N/A				
" Rope	150	150	N/A				
1/2" Pipe nipple	50	50	N/A				
Water	100	100	N/A				
GLOVE BOX GLASS (2)	400	400	N/A				
AIR BACK	100	100	N/A				
1 down for Gas Bottles (2)	100	100	N/A				
BAR STOCK 4" X 25'	100	100	N/A				

The above listed items are unconditionally released per the specifications set forth in "Guidelines for Decontamination of Equipment and Facilities Prior to Release for Unrestricted Use or Termination of Licenses for Source By-Product or Special Nuclear Material", - USAEC April 22, 1970.