## Pu-Plant Production Hallway

This hallway runs North from airlock to an intersection, for its east and west legs, and on north to room 127 door. The east-west leg runs from the east wall of building west past room 128 door, lab north door, vault door, thru the intersection, past 124 door, 116 door, 123 door, 121 door and ends at the Pu dock airlock door.

This hallway had a sheetrock ceiling to isolate it from an attic area containing pipe, conduit, and supply and exhaust duct. We removed approximately 60% of the conduit and piping, all of the exhaust, and a small portion of the supply duct from this attic area before starting our release survey. After the sheetrock ceiling and the floor coating were removed, our scan of the walls and floor indicated the need to blast the wall of this hallway north and east from the intersection. We also blasted the entire floor of this hallway.

We used Ludlum 2220 with a Ludlum 43-17 low energy gamma probe to survey all cracks and seams. A Ludlum 2220 with a Ludlum 43-68, 43-4, or 43-27 was used with P-10 gas for all alpha release surveys. All smears were taken on Whatman smear paper and counted in a Hewlett -Packard 5560A (low background) automatic sample counter.

W. A. Rogers

## Pu PLANT RELEASE SURVEY PLAN

- 1. For initial decontamination all surfaces will be scanned with an Eberline PRM-6 with a Radeco alpha scintillation probe. Background will be maintained at less than 100 CPM(200 dpm). All areas greater than twice background will be marked and reading will be taken with a release survey instrument to document contamination levels and random large area smears will be taken.
- 2. After these initial areas are decontaminated, all floor surfaces and the base of each wall will be completely surveyed with a digital readout release instrument and a Ludlum large area gas proportional alpha detector and random smear samples will be taken. Release instrumentation shall have a minimum detectable level of at least 50 dpm/100 cm<sup>2</sup>.
- 3. All hot spots greater than or equal to 100 dpm/100 cm<sup>2</sup> identified will be decontaminated.
- 4. A random survey with a release instrument will be taken on the walls and ceiling to try to identify any other problem areas.
- 5. If no problems are identified, each room will be gridded off into approximately 2 meter on a side square on the walls and floor and five readings will be taken in each grid. Readings shall be taken in the center and at the midpoint from the center to each corner.
- 6. Each ceiling has closely spaced rafters that will not be easily divided into 2 meter squares. Because of this, we will take readings on the bottom of each rafter at 2 meter intervals and one reading centered on the ceiling between rafters. Readings on each rafter will be staggered one meter.
- 7. These release readings will be documented on a map that is drawn to approximately scale measurements in meters.
- 8. Data provided on each map:
  - Survey block numbers, identifiable on a scale drawings.
    - a. room or area name or number.
    - b. surface surveyed.
    - c. type of measurement and units.
  - 2. Name of surveyor taking measurements, date of survey, and location.

- Type, model number, calibration data, sensitivity limit, background, and source response of instruments used in survey.
- 4. When a block surveyed is below the sensitivity of the instrument, the fact that such a measurement was made should be included as significant data.
- 9. All release survey smears will be taken on Whatman smear paper and counted in the automatic sample counters. Each smear will cover approximately 100 cm<sup>2</sup>.
- 10. There will be at least 30 survey blocks in each area to be released.
- 11. Piping and ductwork will be surveyed on all accessable sides at 2 meter intervals. If more than one line is running parallel in a pipe rack, readings shall be staggered at one meter intervals.
- 12. All readings taken that only cover part of a probe area will be corrected to dpm/100 cm<sup>2</sup>.
- 13. No survey block will measure less than one meter on a side.
- 14. No survey block will measure more than 3 meters on a side.
- 15. All portable release survey instruments will be calibrated quarterly and all instruments in use will be source checked daily.

Table I-1. Acceptable surface contamination levels

Nuclides <sup>a</sup>	Average $^{b,c,f}$	Maximum $^{D,d,f}$	Removable b,e,f
U-nat, U-235, U-238, and associated decay products	5,000 dpm α/100 cm <sup>2</sup>	15,000 dpm α/100 cm <sup>2</sup>	1,000 dpm α/100 cm <sup>2</sup>
Transuranics, Ra-226, Ra-228, Th-230, Th-228, Pa-231, Ac-227, I-125, I-129	100 dpm/100 cm <sup>2</sup>	300 dpm/100 cm <sup>2</sup>	20 dpm/100 cm <sup>2</sup>
Th-nat, Th-232, Sr-90 Ra-223, Ra-224, U-232, I-126, I-131, I-133	1,000 dpm/100 cm <sup>2</sup>	3,000 dpm/100 cm <sup>2</sup>	200 dpm/100 cm <sup>2</sup>
Beta-gamma emitters (nuclides with decay modes other than alpha emission or spontaneous fission) except Sr-90 and other noted above.	5,000 dpm βγ/100 cm <sup>2</sup>	15,000 dpm βγ/100 cm <sup>2</sup>	1,000 dpm By/100 cm <sup>2</sup>

Where surface contamination by both alpha- and beta-gamma-emitting nuclides exists, the limits established for alpha- and beta-gamma-emitting nuclides should apply independently.

As used in this table, dpm (disintegrations per minute) means the rate of emission by radioactive material as determined by correcting the counts per minute observed by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.

cMeasurements of average contaminant should not be averaged over more than 1 square meter. For objects of less surface area, the average should be derived for each such object.

dThe maximum contamination level applies to an area of not more than 100 cm $^2$ .

<sup>&</sup>lt;sup>e</sup>The amount of removable radioactive material per 100 cm<sup>2</sup> of surface area should be determined by wiping that area with dry filter or soft absorbent paper, applying moderate pressure, and assessing the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. When removable contamination on objects of less surface area is determined, the pertinent levels should be reduced proportionally and the entire surface should be wiped.

fThe average and maximum radiation levels associated with surface contamination resulting from beta-gamma emitters should not exceed 0.2 mrad/hr at 1 cm and 1.0 mrad/hr at 1 cm, respectively, measured through not more than 7 milligrams per square centimeter of total absorber.

AREA PROPUCTION HALL WE	T TYPE OF SURVEY O DIRECT & SMERR	COMPLETION DATE	SURVEY UNITS
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1.5cm = 1 Meter	NORTH WALL		
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AREA PU-PLANT-SOUTH AIRLOCK= 1/2 TYPE OF SURVEY & DIRECT & SMEAR COMPLETION DATE 5-16-89 SURVEY UNITS H.P. SIGNATURE Claude in Thomas DPM /100 cm2 BETWEEN H.P. & PRODUCTION TYPE OF INSTRUMENT LUDIUM 1220 / DET. 43-68 AREAS FINAL GRID AUTO. SAMPLE COUNTER#: 83600115 SERIAL NUMBER 50069 1.5cm = 1 Meter F-FLOOR D- DIAECT S- SMEAR C - CEILING 0-50 D-8 5-0 5-3 0-0 0-28 0-20 N-NORTH WALL MER, 11.09 S-SOUTH WALL Demposem2 E - EAST WALL FIXED D-16 5-3 0-0 0-56 5-0 D-20 5-3 0-0 D-12 5-0 W-WEST WALL 5-0 Source 7272 VALUE: SEO DPM INSTRUMENT 0-0 D-12 5-3 5-3 SOURCE CA BKGD. SOUTH WALL Gold 2 EAST WALL NORTH WALL WEST WALL 5/16/89 199/214 Grid DIRECT ASCII 584 TOTAL DPM 116HT 5-17-84 32 5-24 01/6 0-0 FIXTURE D- 8 0.0 56 READINGS 0-4 5-3 D-4 5-3 9-20 5-18 10.43 DPW 1100cm 2 AVG D-16 5-0  $\mathcal{B}$ 56 PPM MODENT MAX 0-0 0-12 0-4 5-3 5-6 5-0 COUER FLOOR GEILING COVER BALLAST G.12 5 OUTSIDE INSIDE INSIDE SNEAR TOTAL DPM 120 SNIPHS 56 2.14 nim 10 cm 116 18 DPM/100cm2 MAX

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AREA HALLWAY TO RM. 127 TYPE OF SURVEY & DIRECT + SMEAR COMPLETION DATE 10-6-88 SURVEY UNITS DPM/100cm2 FINAL GRID TYPE OF INSTRUMENT LUDLUM 1220 DET. 43-68 H.P. SIGNATURE \_ W. C. Roger SERIAL NUMBER 48395, 50069 / 46172, 46173 AUTO. SAMPLE COUNTER#: 83600115, 83600108 1.5cm = 1 Meter D-DIRECT F-FLOOR S-SMEAR C-CEILING 0-8 0-8 5-0 5-0 0-24 0-12 5-0 5-9 0-12 0-16 5-0 3-0 0-8 0-0 0.24 P-16 P-0 P-12 5.3 5-0 5-3 5-0 N-NORTH WALL MOA 11.09 S-SOUTH WALL DAM/1000m E-EAST WALL FIXED 0-8 0-12-5-3 5-9 W-WEST WALL SOURCE 4: 7272 VALUE: 350 OPM 0-16 0-4 0-8 0-48 0-12 0-4 0-28 0-4 **INSTRUMENT** 0-12 0-8 0-24 0-4 15-3 5-0 15-0 5-6 5-0 5-3 5-0 5-3 15-3 5-3 TOTAL WALLS SOURCE C/ RESPONSE A BKGD. 0-12 0-8 0-8 5-0 5-0 5-0 D-16 D-8 5-3 5-0 D-8 5-3 D-0 5-6 10-3-88 195 48395 DIAFCT SMIFAR 10-3-88 187 50069 TOTAL DAM 2.068 3/2 10-3-88 193 48395 0 9-12 0-8 10-4 0-12 10-16 10-4 5-0 5-3 5-3 5-0 5-9 12-20 0.20 10-3-88 213 50069 170 170 # READINGS 10-4-88 208 48395 D-16 D-32 D-4 D-12 D-28 D-8 5-0 5-3 5-0 5-6 5-3 5-3 0-20 AV6 Dam/ 1000 12.12 11.84 S- POOR S-10-4-88 211 50069 MAX DEM MOORES + 92 ノス 10-4-88 189 50064 10-4-88 203 48595 D-4 P-12 P-20 D-16 P-12 D-20 5-0 5-6 5-0 5-0 5-3 5-3 0-8 0-20 0-4 0-4 0-8 5-0 5-0 WEST WALL ASC#1 30 .3 10-6-88 5-3 5-6 10-12 D-24 D-4 D-8 3-0 5-3 5-0 5-0 D-16 D-8 0-12 0-4 0-12 0-16 D-40 P-20 5-12 5-0 D-0 5-0 0-12 8-16 D-12 5-0 P-40 5-0 D-16 D-4 9-20 9-32 9-12 9-16 9-20 5-0 5-3 5-3 5-0 5-3 8-0 0-32 0-4 EAST WALL

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MDA - 23.52 dpm/100 cm2

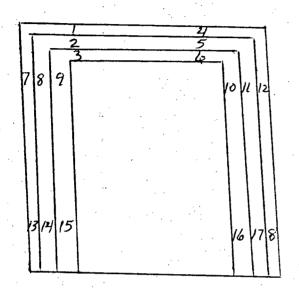
H.P. OFFICE AIRLOCK DOOR # 1 (SOUTH DOOR)

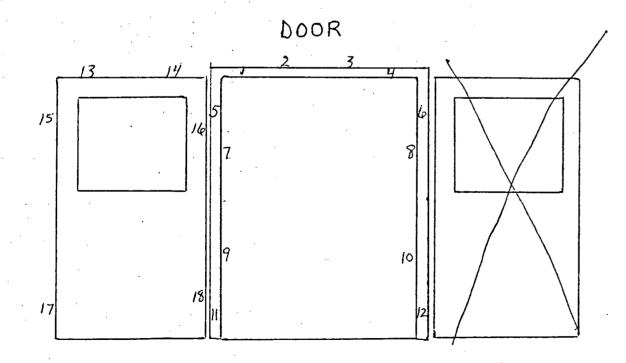
LOCATION OF COUNTS

FRAME

7-28-89

ILP.





PLANT PU AREA HP. AIRLOCK	ASC 0 83600115
SURVEYED BY ILP	CTD. BY <u>S. Black</u>
INST. 1.1101.11H 2220 * \$52834 DET. 43-4	SOURCE CK. AVC. 34
SOURCE CK 275-296 BKG. 3(AM)	BKG • /
PATE: 7-28-89 SOURCE #: 1/2 VALUE:///30PM	PATE: 7-31-89

· · READINGS IN DPH/100 cm<sup>2</sup>

H.P. OFFICE AIRLOCK DOOR  DOOR # 1	
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Aug. OPM/100 cm2 /1.33 1.58	
May DPM/100 cm2 . 78 6	
MDA = 28.81 dom/100 cm2	
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PLANT PU AREA H. P. AIRLOCK
SURVEYED BY ILP
INST. 1.1101.11H 2220 **52834 DET. 43-4
SOURCE CK 275-296 BKG. 3(PM)  PATE: 7-28-89 Source #: 1/2 VALUE: 1/130PM

ASC 1 836 60 115

CTD. BY 5. Black

SOURCE CK. AVC. 34

BKG. . 1

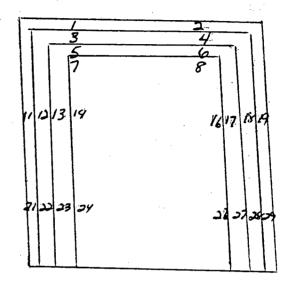
DATE: 7-31-89

· · READINGS IN DPH/100 cm<sup>2</sup>

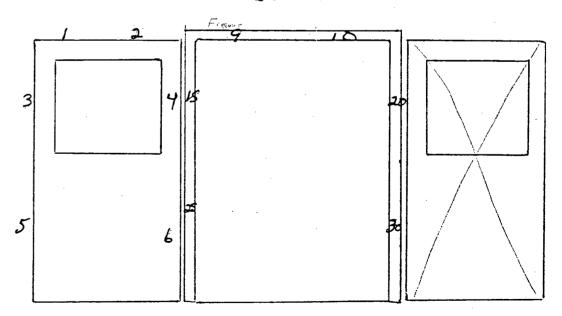
SAMPLE OR DESCRIPTION		DIRI CPH	DPH	SHEAR
I.P. OFFICE AIRLOCK	FRAME			
hoor # 1	F-1		0	3
(SOUTH DOOR)	F-2		0	0
	F-31		0	3
<u> </u>	F-41		<u></u>	6
	F-51		30	3
	6		<u> </u>	0
	71		10	
	81		0	
	91		0	0
	10		C ···	0
	111		18	3
	/2	•	12	3
	/3		13	6
	141		0	0
	15		12	0
	161		24	0
•			10	6
	/81		13	3
		•	<u> </u>	
	·			
			<u> </u>	
			<u></u>	
				1 .
				·
			<u> </u>	
		<del></del>		-
			<u>'                                      </u>	<u> </u>
			<u>'                                     </u>	

North air Lock Door

FRAME



DOOR



PLANT PU AREA Prod Halt	ASC 0 836 00 115
SURVEYED BY SV	CTD. BY J. Black
INST. 1.1101.11H 2220 * \$83/8 DET. 43=4	SOURCE CK. AVG. 34
SOURCE CK 296-292 BKG. /	BKG
PATE: 728-89 SOURCE #:6868 VALUE: 1055 DAN	PATE: 7-31-89

		. •	READING	S IN DPH/	100 cm <sup>2</sup>	<del>-</del>
SAIPLE F OR DESCRI	PTION	:	CPH DIR	ECT DPH	SHEAR	
North air Lock	Door #	#2 11	18	90	6	
		اد	17.	85	4	
		. 3	3	15	0	
	•	41	3	15	3	
		5	5.		3	
		61		25	3	
					·	
					·	
				1		
	Direct	Smear		1		
Total DAM	925	72				
# Readings	36	36	,			
AVG. DPM/100 cm2	25.69	2.0				
Max DAM/100 en	90 1	6				
<u> </u>	,					
•				1		
MOA = 13.86		,		<u> </u>		
<del></del>	<u>:</u>					
	· · · · · · · · · · · · · · · · · · ·			<u> </u>	!	
·	:			!	-	
•					-	
		•		<u> </u>		<del></del>
	<del> </del>		<u> </u>	!	<del>-{</del>	
	·		<u> </u>	!	-	
		· ·		<u> </u>	<del> </del>	
						• .
	·			1		
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				<u> </u>		
				<u> </u>	<u> </u>	

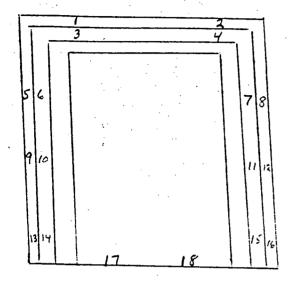
PLANT PU AREA Production Hall	ASC 1 836 00 115
SURVEYED BY SV	CTD. BY S. Black
INST. 1.1101.11H 2220 * 58318 DET. 43-4	source ck. Avc. 34
SOURCE CK 296-292 BKG. 1	BKG
PATE: 7-28-89 SOURCE #: 6868VALUE: 10550AM	DATE:

· · READINGS IN DFM/100 cm<sup>2</sup>

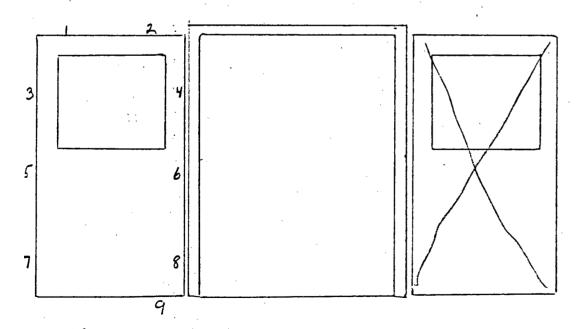
	•	DIR	ECT	
SAMPLE OF DESCRIPTION		СРН	DPH	SHEAR
North air Lock Door Frame #:	2	3	15	1 0
	2	4	20	0
	3	2	10	3
	41	10	50	3
· · · · · · · · · · · · · · · · · · ·	5	7	35	0
	61	2	10	1 0
	21	5	25	3
	8	16	80	3
	91	0	0	0
	101	6	30	0
	11	3	1.15	0
	12	2	10	3
	131	0	0	1 6
	141	7	35	13
	15	3	15	6
	161	0	R 0	0
	171	4	120	0
· · · · · · · · · · · · · · · · · · ·	181	. 5	125	13
<u> </u>	191	3	15	0
	20	<del>_</del> <del>2</del> _	10	0
	2/	9	1-45	0
	22		125	1 0
	231	4	20	3
<u> </u>	291	10	50	3
	-25	7	20	3
	26	8	40	3
		7	20	3
	<u>28</u> 1 291		15	1 3 .
		8.	1 40	
	30		1 <i>3</i>	<u>                                     </u>
			<del></del>	
	!-		!	<u> </u>
		·	1	

## PROPULTION HALL EAST EM. EXIT DOOR + FRAME

FRAME



DOOR



PLANT PU AREA Production Holl

SURVEYED BY S. Vegsley

INST. 1.1101.114 2220 \$ \$8318 DET. 43-4

SOURCE CK 281/293 BKG. 2

PATE: 7-28-89 SOURCE #:6868 VALUE: 1050 DAA PATE: 7-28-89

· · READINGS IN DPM/100 cm<sup>2</sup>

•	•	DIR			(27)
SAMPLE # OR DESCRIPTION		CPH	DPH	SHEAR	
East Exit Door 1	Frame 1	. ,			
	}	8	40	0	
	2	8	40	AR 2 77 3	-: -
	3	5	25	6	.:
	.4	6	30	0	
	5	5	25	0	
	6 1	5	1 25	0	
	7	5	25	0	
	8	3	15	0	
	9	2	10	0	
	10	3	15	0	
	1)	4	20	3	
	12	8	40	0	
	13	5	25	1 3	
	14	5	1 25	6	
	15	ह	1 40	1 3	
	16	19	1 95	3	
•	17	9	1 45	0	
•	18	6	1 30	1 0	
			<u> </u>		
Direct	Smear	<u> </u>	<del> </del>	!	
stal DPM 870	45				
Readines . 27	27			-	
149. DFM/100 EMP 32.22	1.66		<u> </u>	<u> </u>	
now DPM/10 cm : 95	6	<u> </u>	<del> </del>	<u> </u>	
· · · · · · · · · · · · · · · · · · ·		<u> </u>	<u> </u>		
		<u> </u>	!	<u> </u>	
MDA= 19.6 DAM/100	City and	<u> </u>	<u>.</u>		,•
	· · · · · · · · · · · · · · · · · · ·	<del> </del>	1	-	
		<u> </u>	<u> </u>	<u> </u>	
		!	1	1	<del></del>
			1		

PLANT PU AREA Production Hall ASC 1 83600/08

SURVEYED BY S. Veg (1/27)

THIST. 1.11DLIH 2220 = 583/8 DET. 43-4 SOURCE CK. AVC. 30

SOURCE CK 281/293 BKG. 2

PATE: 7-28-89 SOURCE #6868 VALUE:/050 DAG PATE: 7-28-89

	. •	READING	S IN DPH/	100 cm <sup>2</sup>
SAIPLE OR DESCRIPTION	•	CPH CPH	ECT DPH	SHEAR
East Emergency Exit Door				
7		3	15	0
	ス	8	40	3 . 25.
	3	9	45	٥
	.4	6	30	٥
	5	15	75	0
	6	5	25	6
	7	3	15	6
	8	4	20	0
	9	-7	35	3
		-		
			<u> </u>	
		<u> </u>	<u> </u>	·
			<u> </u>	
		<u> </u>		
			<u> </u>	1
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		<u> </u>	!	
<u> </u>			1	
	· · · · · · · · · · · · · · · · · · ·	<u> </u>	!	
			1	
	•	<u> </u>	<u> </u>	
•			1	
•				
		<u> </u>	!	<u>!</u>
		<del></del>	<u>'</u>	
				1
			<u> </u>	<del></del>
			<u>'</u>	
	<b>-</b> :		<u> </u>	
	<del></del> -	<u> </u>	!	<del> </del>
		<u> </u>	<u>!</u> 	<del> </del>

•						-	* * *
(12) (27/2)	-		<del> </del>	···		LUDLUM	1 2220
RM 129		-			7	583/8	<u>, 43-4</u>
TIFET No.	) ·				Source	SF # 68/68	,1055 dp. CK.;
WEST Doof	<u> </u>	·	· 		······································	004KLE	CA.,
		<del></del>	- 21/2			211-275	, BKG-3 (PA: BKG-2(PA:
					<u> </u>	<u> 206-210,</u>	7-7-89
							TLP
		Ø	2	3		Đ	
		21-3	0-0 40-6	7		2-0	
DOOR	<b></b>	7 0	496 <b>23</b>	_ 3	7 0	14 <b>D</b>	
		(23)		3	111		
	0	3 0			<b>(9)</b>	0 3	•
			. <del></del>			i	
		6					
	7	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.	<u> </u>	2 (7)	
		6		an)	0 10	121	
		Hey 3		<b>&amp;</b>	35-0	<b>2</b>	
	<b>3</b>	3		0	Z	- O B B	)
					<u>@</u>		
				·			
	C 0	9	28 0				
	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 (9) 5 (5) 6 (4)	28 0 7 3 7 3				· · · · · · · · · · · · · · · · · · ·
	000	<u> </u>		B(9)			
			Ų	17171920		· · · · · · · · · · · · · · · · · · ·	
FRAME	000			3 3 (5)			
7.7.11							
	DD (2)			@D	8)		
	577			21 7/19			
	300	· · · · · · · · · · · · · · · · · · ·					
					1		
######################################		<u> </u>				Vigil 4-8-00-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	PFINTED, IN C. 3

PLANT PA	IREA 129	ASC 1 2-83600108
SURVEYED BY I POLL	ull	CTD. BY & m Black
INST. LIDLIN 2220	* 58318 DET. 43-4	SOURCE CK. AVG. 25
SOURCE CK 2/66-278	BKG. <u>2</u>	BKC
DATE: 7-7-89	SOURCE #: 6868VALUE: 10550PA	DATE: 7-11-89

· · READINGS IN DPH/100 cm<sup>2</sup>

	READIN	ics in drh/	100 cm
SAMPLE F OR DESCRIPTION	• DI	RECT DPH	SHEAR
West Door	1 3	21	3
•	0	0	0
<u>2</u> 3	/	7	0
	0	0	0
5	1.	7	0
6	1 4	28	0
	12	14	0
8	12	14	3
9	1 2	14	3
	2	14	3
	1 3	121	3
	16	42	3
	1	7	3
Derect Smear 14	12	14	- 3
Total DPM 819 37 15	18	1 56	0
Pendings 44 44 16	2 1	1: 7	0
716 DPM/100cm2 19.61 1.30 17	5	35	13
MAX DPM 1100cm2 . 84 6 18		35	0
m n A' 19	<del></del>	28	0
27.44 DPM/100 cm² 20		0	0
2/	13	1 31.	16
		49	0
23	1		3
	9	10	3
		28	0
	-	<del>عن ا</del>	<u>υ</u>
Door FRAME	0	0	3
2	0	0	
3	4	28	0
4	4	1 28	0
5	17	7	.3
6	1 /	7	3

PLANT PU AREA 139	ASC 0 2-83600108
SURVEYED BY I Pound	CTD. BY Am Plack
INST. 1.11DLIIH 2220 * 583/8 DET. 43-4	SOURCE CKY AVG. 25
SOURCE CK 366-279 BKG. 2	BKG. /2
PATE: 7-7-89 SOURCE#: 6868 VALUE: /ASTOPA	PATE: 7-11-89

· · READINGS IN DPH/100 cm<sup>2</sup>

SAMPLE OF DESCRIPTION	•	DIR CPH	ECT DPH	SHEAR	
Shor Frame	8	/	• 7	0	
	9	12	84	0	
	10	5	35	3	
	11	<u> </u>	7	. 0	
	12	1.	7	0	
	131		7	3	
	141	1	7	3	
	15	0	0	0	
	16	3	21	0	
	171	/	7	0	<del></del>
	18	2	14	0	<del></del>
	.				
		•			*
	1				
		<del>_</del>			
		<del></del>			
	·	•			
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	<u>·  </u>				
			6		
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							LUM :	
KM 129		· · · · · · · · · · · · · · · · · · ·				#5831		
11.10-11	N O				Ecu.	FCE#68	<u> 128 , 105</u>	5 dem
WORTH	Door					SCHECE		. /2
					<u> </u>	2/1-26	7 , BKG- :	(P/1)
				·			<u> 3kG-1</u> 7-7-	
		8		<u></u>	-		ILP	
	35-0	63- <b>0</b>	03	28	-0_		~/	
6	9 35	Ø <sup>4</sup> 7	30		<b>3</b> 7			
	3	2!			٥			
					-	****		
OOR								
		<u> </u>				•	· · · · · · · · · · · · · · · · · · ·	
	0 21							
<u> </u>	<i>y</i>   21	@ 28 3 7	<i>(</i> )					
	ρ <b>υ</b> 1		1417		1/61 2.1			
			( <b>4</b> ) 6					
		27 Ø ø 21 Ø 3 22 Ø 3	(4) : (5) 0	9 3 5 6 8 0,				
		2 ? (O) o 2 ! (Q) 3 2 ? (S) 3	(4) : (5) (	#				
		27 Ø ø 21 Ø 3 22 Ø 3	(4) : (5) (	9 3 5 6 8 0,				
		2.7 (D) 0 2.1 (Q) 3 2.2 (S) 3	(4) : (5) (	9 3 5 6 8 0,				
Ren =		2 ? Ø ø 2 1 Ø 3 2 ? Ø 3	(4) : (5) (	9 3 5 6 8 0,				
P.F.		27 (D) 6 21 (D) 3 22 2 (S) 3	(4) : (5) (	9 3 5 6 8 0,				
P.P.E		2 2 0 0 2 1 2 3 2 2 3 3	(4) : (5) (	9 3 5 6 8 0,				
R.F. =		2 £ Ø Ø 21 Ø 3 2 £ Ø 3	(4) : (5) (	9 3 5 6 8 0,				
P.P.I.	7 C 7 7 9 9 9 9 C 0 0	2 7 0 0 21 2 3 2 2 3 3	(4) : (5) (	8 a, 1 (5) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6				
Ren =	65 b 5	2 7 0 0 21 2 3 2 2 3 3	(4) : (5) (	9 3 5 6 8 0,				
	7 C 7 7 9 9 9 9 C 0 0	2 7 0 0 21 2 3 2 2 3 3	(4) : (5) (	22 21 28				

FRINTED IN U. S. A.

### | #07 600 | 74:01 8303 GREEN; 8202 WHITE: 8402 IVORY

PLANT PU AREA 129	ASC 0 93600108
SURVEYED BY I POWELL	CTD. BY Am Black
INST. 1.1101.11H 2220 * 5 8 3/8 DET. 43-4	SOURCE CK. AVG
SOURCE CK 227-267 BKG. 3	BKG 2
PATE: 7-7-89 SOURCE #: LOGIC VALUE: 10550PA	DATE: 7-11-89

· READINGS IN DPM/100 cm<sup>2</sup>

•		DIRECT				
SAMPLE OR DESCRIPTION		СРН	DPH	SHEAR		
North Dans	11	0	.0	3		
	21	4	28	0		
	.3	/	7	0		
	• 4	/	7	U	<del></del>	
	.5	1 -	7	0	<del></del>	
·	61	.3	21	3		
	71	5	35	0		
	8	9	63	0		
	9	5	35	3		
	10	3	21	0		
	11	3	21	0	<del></del>	
	121	4	28	3		
FRAME		•				
	1	4	28	0		
	2	?	21	3		
	31	4	28	3		
	41	٤	14	0		
•	5	0	0	0		
·.	6	4	28	0	······································	
	.21	. / •	7	0		
	$\mathcal{L}$	0	0	0	<del></del>	
	91		7	10		
	10	_5_	35	0		
	//	9	63	0		
	·/2		7	3		
Derect S	meac 13	. 5	35	3	· 	
Total DPM 644	33 14	<u> 2.</u>	14	3	· · · · · · · · · · · · · · · · · · ·	
#READINGS 30	30 15		7	10		
AUG DPM/100 cm2 21.47	1.1 16	3	28	6		
MAYDAM 1100cm2 63	6 171		121	3		
MOA	18	4	28	0	•	
33.61 DPin/sonce		<del></del>		<u> </u>		
FIXED			<u> </u>		· · · · · · · · · · · · · · · · · · ·	
	l			<u> </u>		

							-		
5.000 10 TLP 50018 11. 43-6		A22 1 /	93600115	· · · · · · · · · · · · · · · · · · ·	· Pu	18 Por Hall			::
suayorda or TLP		CTI. EY (	Danai Ford	•	success or J	1 P		c:	TO. 17/
1. 17. 1871 19 1222 × 500/8 121. 43-0	8	- no contes			ar and thought of a	1) * 50068 III.	43-68		ornos ex.
21.1.02 0.252-261 ERS. 1	i	EEJ	1		111111 01252-7/	31 2HG			::/
50055: 5-12-89 Source - 6868 words 105	500-	rate.	C-12-89			9 Source #6868 va		,	
	· · READ	INGS IN DE	11/100 cm <sup>2</sup>		<u>, , , , , , , , , , , , , , , , , , , </u>	2000		FEW INC	
SAMPLE # CR DESCRIPTION	• Cari	DIRECT DPH	cucae	,	CAMPLE A	CR DESCRIPTION	·	. DIR	TOES TOEM
	Cen	- ura	SHEAR			· · · · · · · · · · · · · · · · · · ·		Crit	- bra
PROBUCTION HALL FIR DUCT	!					HALL AIR DUC			
FROM AIR DOCK to H. F. OFFICE					FROM HIR	DOCK to H.P. OFF	1.CE		· .
O METERS	5	. ,			•	·			
•	T   3	1.12						<del></del>	
	8 2.	8	9	-			TERS		
	NI 5	120	3	www.			T	2	1 8
	51 4	1/6	<u> </u> 3	; i			8		1 4
2 METERS							MI	2	1 9
	714	116	0				51	_5_	120
	81 /	1 4				13 ME	TERS		
	NI 3	1 12	1 0			<del> </del>	T	6	124
	51 4	16	0				BI	9	1 36
DIRECT SMEADY WETERS	·						im	23	1 92
TOTAL DAM 1/134 243	T1 4	16	1 0	~			W	3	12
# REPDINGS 134 134	2 3	112	3						
AV6 DPm/10000 8145 1.81	NI 3	1.12	1 6	We will have been seen and the seen seen seen seen seen seen seen se					
	51.0	0	0	<u>.</u>					1
MOA . LA METERS						<del></del>	!		<u> </u>
11.09 DPM/100cin2	<u>T </u>	<u> </u>		· .	ļ	· · · · · · · · · · · · · · · · · · ·	!		<u> </u>
FIXED	81 5	·   20		-				•	<u> </u>
	NI D	10			<u> </u>	<del></del>		<del></del>	1
	31 1	14					<u> </u>	<del></del>	<u> </u>
2 METER				<del></del>	<del></del>		<u> </u>		!
	$T \mid I$	14	6			•	<del></del>		
	<u>Bl 3</u>	1 12					·		<u> </u>
	$\frac{E}{S}$ $\frac{3}{9}$	1 12	1 3		<del></del>		1		!
		116							!
10 METER		1 /1	1		<u> </u>		<u> </u>		!
	TI	17	0	<del></del> .			1	<del></del> !	1
	$\frac{B}{V}$	1 0	3	;	! !		<u> </u>		1
	$\frac{N}{C}$	1 4	3	-	1		<u> </u>		1
	51 /	14	_1. 0	:					1

Pu Pu	1321 Pro Hall	155 1 <u>  1 9 3 600 11 5</u>
sunveyen or <u>Jak</u>		5. I. Denni Inl
11 17. <u>110104 1220</u>	* 50068 TT. 43-68	- sernes ex. Ave. <u>33</u>
::::::::::::::::::::::::::::::::::::::	BHG	BEG/_
TATE: 5-12-89	Source #6818 Varieto 5500	TETE: 5-12-99

		. •	FEW INC	s in ben/i	100 cm²
,			• DIR	ECT	·
	-	SAMPLE & CR DESCRIPTION	C?H	H50	SMEAR
	-	PRODUCTION HALL AIR DUCT			
		FROM AIR DOCK to H.P. OFFICE !			
	_				
		12 METERS	,		
		$\mathcal{T}$	2	8	0
		81	1	1 4	$\circ$
		N	2	8	0
		51	5	1 20	3
		13 METERS			
		T	6	24	0
		B	9	136	0
		Bear jen fan	23	92	3
<u> </u>		LÕI	3	12	3
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					<u> </u>

. MTP/	MEN PROBUCTION	HF.221 12	: : /· ·	83600115
SIMPLY ST. ILP		c <del>.</del>	o. ey <u>L</u>	enni Jist
I IT. 107104 2223	# 50068 111. 43	-68	•	AV2. 37
: 1 cit <u>250-272</u>	185. <u>1</u>		3. <u> 1</u>	-
PATE: 5-11-89	Source # 6868 world	1055:4- 50	(TS:	5-12-89
				3

## ESADINOS IN DEM/100 cm2

	ELADIN	os in den/i	60 cm²
SAMPLE / OR DESCRIPTION	· 01	TOER PTM	SHEAR
		1/1.7	Shear 
PROBUCTION HALL AIR BUCT	!	-	
FROM DOCK AIR LOCK TO MAINT	<u> </u>		
O METERS	.		:
	1:0	0	0
	10	0	0
	1 3	1 12 1	0
<u></u>	2.	1 8 1	3
2 METERS			
<i></i>	2	18	0
B	1 3	12	0
N		1-12	3
<i></i>		8	6
UNETERS	1		
	1 _	_	
8		4	D
		l o i	D
		141	3
· hmeters	1		
•			
Ţ	1	-	
E		10	0
		181	0
3	1 3	1 12	
· SMETERS			
- <i>N</i>		1.8:1	3
<u> </u>		112 1	0
	1 0	10 1	0
Lu Lu		14 1	3
lo METERS	1		
N	10	101	3
B		116	0
		121	. 6
17	1 3	1/2 1	9
	1	1	

PU MENPRODUCTION HALL	100: 1 93600115
SURVEYED EX TLP	CTC. EX Am Roland
11 17. MATERIA 1227 1 50068 117. 43-68	counce cal are. 34
sented ct:265-282 sks	ERO. <u>/ 2</u>
PATE : \$ 5-12-89 Source FEE 68 varie 1055 cal	TETE: 5-15-89

\* READINGS IN DEN/100 cm2

•	DIR	207	
SAMPLE # CR DESCRIPTION	C7H	BEH	SHEAR
PREBUCTION HALL AIR BUCT			
FROM RM. 124 to RM 129		·	
IMETER			
N	0	0	0
\$1			
81	2	8	3
$\omega$	1	14	1 3
3 METERS			
T	ļ	1 4	D
В	3	1/2	0
N	2	ि	6
SI	Ò	0	0
5 METERS			
7	Ò	0	1 6
8	3	1 12	0
l	ک	10	1 6
8	}	14	0
· 7 METERS			<u> </u>
	1	14	1 3
S	2	18	0
	Ü	<u>Q</u>	0
W	2		1 6
9 METERS		1	
	3	12	0
• 8	<u> </u>	0	0
	2 L:	8	1 6
W U MET OF	f*	1/2	3
11 METRIPS	<u> </u>	<u> </u>	1
$\frac{\mathcal{T}}{\mathcal{B}}$		11	
	<i>j</i> 1	4	0
$\mathcal{U}$	Ó	1 <del>5</del>	3
$\omega$	<u> </u>		1 0

ANT PU AREN FROLINGTION HAZZ	1.2	:c # _ / 5	83600115		
50068 III. 43-68	c.	3. 27 1	no Plack		
50068 TEL. 43-68	1 : 53	race on!			· ·
500000 CK 265-282 SAS. 1 5076:5-12-89 Sauce F-6868 volume 105500	1 1::	3. 12	•		
ERTE: 5-12-89 Source F 6968 conside 5500-	<u> </u>	·-· 5	-15-19		
	REWING	3 1H ben/	100 cm²		
SAMPLE # CR DESCRIPTION	CTH CTH	703. Prid	SMEAR		
ARDBUCTION HALL AIR DUCT 1					
FROM 123 to MAINT				- Approximation	
O METERS				-	•
N	0	0	0	:	•
5	3.	12	1 3		
E	2.	S	3	. :	
$\omega$		4	] 3		
2 METERS	<del></del>			1	
N	_2_	8	0	,	
5		4	3		
<u>B</u>		4	] 3	•	
W)		-4	0	•	
4 METIFS	<u> </u>	21	<u> </u>		
7°1	<del>- 9</del> 	36	0	-	
	0	18	1 )	<b>-</b>	
<u> </u>	$\frac{-c}{l_{o}}$	24	<u> </u>	•	
6 METIPS				• •	
7	7	28	3	-	
E	1.	14	3	•	
N.	٥	10	0		
S	2	8	6		:
% METERS			`	-	
<u></u>	0	0	0	-	
- B	0	0	6	•	
E		14	1 6	•	
<u>ω</u>	2	8	3	•	
!		· · · · · · · · · · · · · · · · · · ·	1	-	
	· · · · · · · · · · · · · · · · · · ·		<u> </u>		
	· · · · · · · · · · · · · · · · · · ·	! 		-	
				-	· verbings
	- <del></del>		1.	-	at ment of the state of the sta
		<u> </u>	<u> </u>	-	
		. <del></del>			

	MIT PM MENTRODUCTION HALL		::	
	SINVEYED OF ILP	c <del>.</del>	7. 17	
	:: ::. <u>!!!!!!! *50068</u> III.	i :	77.03 07.	117
-	SUITED CK 240-272 EKS. 2	1	.3.	
	PATE: 5-15-89 Source F6868 varue 10550ca		<del></del>	
				2
		KEAU I No	S IN DEM/	100 cm
	SAMPLE 1 CR DESCRIPTION	CEH	DEH	SMEAR
	PRODUCTION HALL AIR DUCT !			
	FROM CHEM MAKE-UP TO RM. 129 1			·
•				
	O METERS	·		
•	T	7.	28	0
	81	1	1	0
	Ľ.	Ü	16	1. 3
	W	1	4	6
	2 METERS	'	<u> </u>	
	T	Ò	0	0
	BI	0	0	3
	E	$\circ$	Ö	6
	اديا	0	0	0
	3 METERS			
	N	0	0	3
	SI	0	0	1 3
	EI	2	18	1 3
	i. Liu	3	1 12	1 0
		•		
	•			
	•			
	·			
		•		
				<u> </u>
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	1			1

MATER PRODUCTION HALL	1.5	:::		
ELEVERICA III ILP	57	CTC. EY		
1. 17. 1971 1212  *50068		1.73,		
summer cx 240-272 BHS. 2		.s		
PATE: 5-15-89 Source = 6862 variation 556-			·	
•		5 III DE11/	100 cm	
SAMPLE / CR DESCRIPTION	DIR Crh		CUCLO	
		DFH	SHEAR	
PRODUCTION HALL AIR DUCT !				
FROM VAULT TO RM 129				
			·	
O METERS	· ·			
51	3	12	0	
E	0	0	3	
انا	2	8	0	
2 METERS		<u> </u>		
T	(p	24	0	
81	<del>-3</del> -	12	3	
E	<del></del>	4	1 0	
lu l	<del>- '</del>	32	:	
	<u> </u>	1 26	1 0	
. 3 METER	3	1 13		
EI BI	2	<i>12</i>   8	1 0	
			1 6	
$\frac{F}{ \omega }$	0		1. 6	
		0	0	
		<u> </u>		
		] 		
		<u>'</u>	! <u></u> _	
		!		
		!		
			1	
		<u> </u>	<u> </u>	
	1	<u> </u>	1	
1	1	<u>'</u>	1	
1				
		<del></del>		
	<u> </u>	-	1.	
	1		1	

5-15-89

MEN PRODUCTION HAL	, 1		s :	÷
ENVERSE C: IIP	- /-	 		
2 1101.11 2222 440.10 255		٠.	1. IX	<del></del>
1. 17. 1971 19 200 350068 DET.  500068 DET.	-		TREE CK	
5-15-39 E/519 -105	-	±:.	·	
5-4-7-10-10-01 Source - 68(68 VALUE 105)				<del></del>
ource ch; 210-263 3KG: 2(PM) 50068				100 cm
SAMPLE # CR DESCRIPTION	•	CAH CAH	TD3 D7M	SMEAR
PRODUCTION HALL AIR DUCT	1			
FROM RM 129 TO RM 128	1			
•				
O METERS	1	ŧ		
. *	11	3	12	0
S		0	0	0
E		٥	0	0
i U.	/	Ó	0	3
2 METERS	1		·	
7	-	1	14	3
f-	7	٥	0	0
<i>y</i>	v I	0	0	0
	31	9	36	0
4 METERS		,		
		<u>.</u>	12	0
<u> </u>	3		<u>Ч</u>	3
	<u> </u>		1 4	1 0
	<u>s t</u>		4	3
5 METERS		. 7		
	$\frac{r_1}{a_1}$	3.	12	
	91	0	1 4	<u>                                     </u>
	<u>V   </u> S	0	0	0
·	<u> </u>		<u> </u>	l <i>0</i>
<del> </del>				
	<del>-</del>		<u> </u>	
	<del>-</del> i-	•	·	
	i			
	i	<del></del>		,
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1	1	l		
	1	<u></u>	<del></del>	
	1	<u>'</u>		
	<del></del>	<u> </u>	<del></del>	

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& SURVEY OF CIRCUIT BREAKER CABINETS 2-13-88 Ludlum 2200 5/N 37807 + 50056 Readings in aprilio cun2 East Production Hallway ACCESSIBLE FIXED SURVEY PN H-2 277-4801 3 PH 4 WIRE WHERE POSSIBLE FIXED READINGS: dpm Back Wall 0-28-28 28-28-56 SIDES TOP 28 28-0-0 WIRES BOTTOM 56-28-56 BREAKERS 28-28-56 1120 0 25MEAR COUNTED ON AUTO Sample COUNTE CAB. TOP (D) dom SMEARABLE 4 , and the first term of the fi BREAKERS 0 (3) 2 6 3 BLEAKERS +WIRES 9 (1) BOTTOM 18 3 3 0 BACK O <u>0</u> SIDES 3 9 NOV 80 OF OR OR OR OR OR 9 3 9 (5) BACK (1) 2 SIDES (3) 9 (3) 3 BREAKERS + WIRES (1) CAB BOTTOMO (3) 4 0 TOP (2) BREAKERS (1) (3)

hreftbill FULSA OK 74101 8302 GREEN: 8202 WHITE: 8462 IVORY