Pu-Plant Room 121

While in production room 121 was used for fuel rod cleaning, final inspection, and storage. During decomissioning we used this room for waste storage.

On our initial scan, we identified five locations on the floor bewteen 100-300 dpm and none on the walls. After cleaning these spots, our final release survey was preformed.

We used a 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

- 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 cm².
- 3. All hot spots greater than or equal to 100 dpm/100 cm² 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:
 - 1. 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, 3. background, and source response of instruments used in survey.
- 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.

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- 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^2 .
- 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 $dpm/100 cm^2$.
- 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.

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15. All portable release survey instruments will be calibrated quarterly and all instruments in use will be source checked daily.

| Nuclides | Average ^b , c, f | Maximun ¹ , 1, J | Removable ^b , ^e ,f |
|--|----------------------------------|-----------------------------------|--|
| U-nat, U-235, U-238, and associated decay products | 5,000 dpm a/100 cm² | 15,000 dpm n/100 cm² | 1,000 dpm α/100 cm ² |
| Transuranics, Ra-226, Ra-228, Th-230, Th-228, Pa-231, Ac-227, 1-125, 1-129 | 100 dpm/100 cm ² | 300 dpm/100 cm ² | 20 djvm/100 cm ² |
| Th-nat, Th-232, Sr-90 Ra-223, Ra-224, U-232, I-126, I-131, I-133 | 1,000 dpm/100 cm ² | 3,000 dpm/100 cm ² | 200 dpm/100 cm ² |
| 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 ² | 15,000 dpm βγ/100 cm ⁷ | 1,000 dpm βγ/100 cm² |

Table I-1. Acceptable surface contamination levels

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

^bAs 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 avoraged over more than 1 square meter. For objects of less surface area, the average should be derived for each such object.

 $d_{\text{The maximum contamination level applies to an area of not more than 100 cm².$

^eThe amount of removable radioactive material per 100 cm² 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.

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| # READINGS 123 123 LIGHT # VG KPM / DOCM 13.27 1.56 MAX DAM / DOCM 76 12 | | | | | | | | | | | | | DI | | | - | | | D-8 5-0 | -12 5-6 D-12 5-6 S-0 | | | |
| max Dan poor 2 76 12 | | | | | | | | | Ŧ | | ŀ | | | 123 | - | 123 | | | | | 4 | | |
| | | | | <u>{</u> - | | | | | | 1 | 6 | | 2 | | | | | · . | · · | | | | |

| N | | - ς | | TINAL | GRIO | | | | INSTRU | | | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | | | _ н | .P. SIGN | ATURE | W.G | . Porc | 4 |
|---|---------------------|-------------------------|---|----------------------|---|----------|---|---------------|-------------|-----------------|-------------|--|--------------------|------------|---------|-------------|----------------|------------|----------|-----|
| | | | | | | | SI | | UMBER | 4839 | 5,5000 | 39/40 | 6172,4 | 6173 | - | AUTO. | SAME | LE COU | NTER | = 8 |
| 1. | 5cm = 1 M | Meter D-DIA | ICCT | 0-4 5-0 | | 8 0 | D- S- | 0 | | | | | | | | | | | | |
| | | C. CM | | p- | Y Q | · D- | 4 | | | PM | | | | | SUPPORT | · · · · · | 1.4. 1.4.44 | | | - |
| | - FLOOR - CEILIN | Thursday - | 07 15.68 | p-8 | D- | 12 | D- | y | 4-5- | | D- 5- | 4 | D- 3- | 0 | BEAM | D-0 5-0 | 0- S- | | D- 5- | - |
| < N - | NORTH | WALL DP | m/100 cm | 5-3 | 0 | 0- | and the second se | <i>P</i> - | 20 | 0- | | | 12 | D | 0 (C | p- | | 0- | 0 | |
| | - SOUTH - EAST | | (ED | 5- D- R | 3 | 5- 9 | 0 D_ | 16-25- | 0 | 19 5- | 0 | S- | | 5- | | D-4 | D- | 0 5- | D- | 12 |
| | WEST | | | 5-3 | 5. | 0 | े . | 0 | | 0 | 5- | 0 | 5- | 3 | | 5.3 | D- 5 - | | 5- | 0 |
| | | 1272 VALUE: S | | B: | 4 0 | 0- 5. | 11 0 | ۹ ۲ | 8. 3 | 0- 5- | | 0- 5- | 0 | 0- 5- | | | | 0- 5- | 8 3 | 0 |
| | T | NSTRUMENT | | | | | | | D | 10 0 | D- 5- | 20 | 0- 5- | 0 | | D-20 5-3 | 0 5- | 83 | 5- | ř |
| | DATE | SOURCE C/ RESPONSE M | | | | | | | ! | | | | | | | | | | | |
| - S. C. | | 197 48395 | | | | | | | | | | | | | | l n | | | 6 | |
| | | 185 50069 | and a second second | | | | | | | (0-4) | | <u> </u> | 6 | (20) | | D- 5- | | | 5-6 5- | 0 |
| 22.2 · · · · · · · · · · · · · · · · · · | | 202 48395 206 50169 | | | | | | | | | | | | | ┥ | | | | | Ц |
| | 7-78 | ×06 20167 | | | | | | | | <u>p-</u> 3- | 0 3 | D- 5- | 0 | D-0 5-3 | | D-4 5-3 | | 0-0 | 0- 5- | 0 |
| | | ASC#2 | 黨的當 | | | | | | ρ | 8 | D- | | ·p- | | 0 | | D-0 | p- | 0 | |
| 5.7 . | -14-88 | 30 | 2 | | | | | | 5 | 0 D- | 5- | 3 | - - 3 - | | | 0-0 | 5-0 | S- 17-0 | 0 | |
| | 20-88 | 30 | 3 | | | | | | | 5- | | | 0 | 5-0 | | 5-0 | | 5-3 | 5-0 | |
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| ٦Ľ | e ganta | | | | | | • • • • • | | | | - | | | - | | | | | | |
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| · - | | | | 2.90 2.10 2.10 | | | | | 1 23 | | 8-7- | | · · · | | | | | | | |
| | • | | | | | | | | 5.510E | 7 I | | | | | | | TOTA | + DP | m | F |
| F | | | | | | | | 17-20 5-3 | 0-12 | D-88 5-3 | D-8 5-2 | | | | | | | · · | | |
| ┢ | | | · | | | | | | | | , | | | | | | VIGD | DING. | DCh.2 | ╞ |
| ┢ | | | - · | | | • | | | | | | | | | | | | 1 | 1 | 1 |
| | | | | | | | | | | · · | | | · · | | | / | AX D | Pm/10 | OCIN C | ┞ |
| Ē | | | | | | | | D-16 3-3 | D-16 | 0-60 | D-20 | ļ . | · . | | | | • . | | | |
| | | | | | | | | 2-3 | 5-3 | 5-0 | 5-0 | | | | | · . | ļ | · · | | L |
| | | | | | | | | D-24 | | 0.20 | D-24 | | | • | | | | | | |
| έĽ | | | | | | | | 5-3 | V-4 3-6 | D-36 5-6 | 5-0 | | | | | : | | | | |
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| | | | | | | | · | | } | | | · · · · | | | | | | | | F |
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| | 1 | | | | 1 Second | 1 . | 1 | 1-2 | 1.0 | | r / 1 | 1 | 1 | ι | i | 1 | 1 | ł | 1 | 1. |

88 SURVEY UNITS DPM/100cm² - - -#1 F83600108 1. 1.2 ٠., 0-0 0 - 4

5-6 0-7 5-3 0-0 5-6 5-13 ·-. 12 5-9 BEAM 5-0 5-0 0-14 5.0 0 ا میں جانب میں جانب

O SUPPLY AIR DUCT 0 ВЕАМ . .

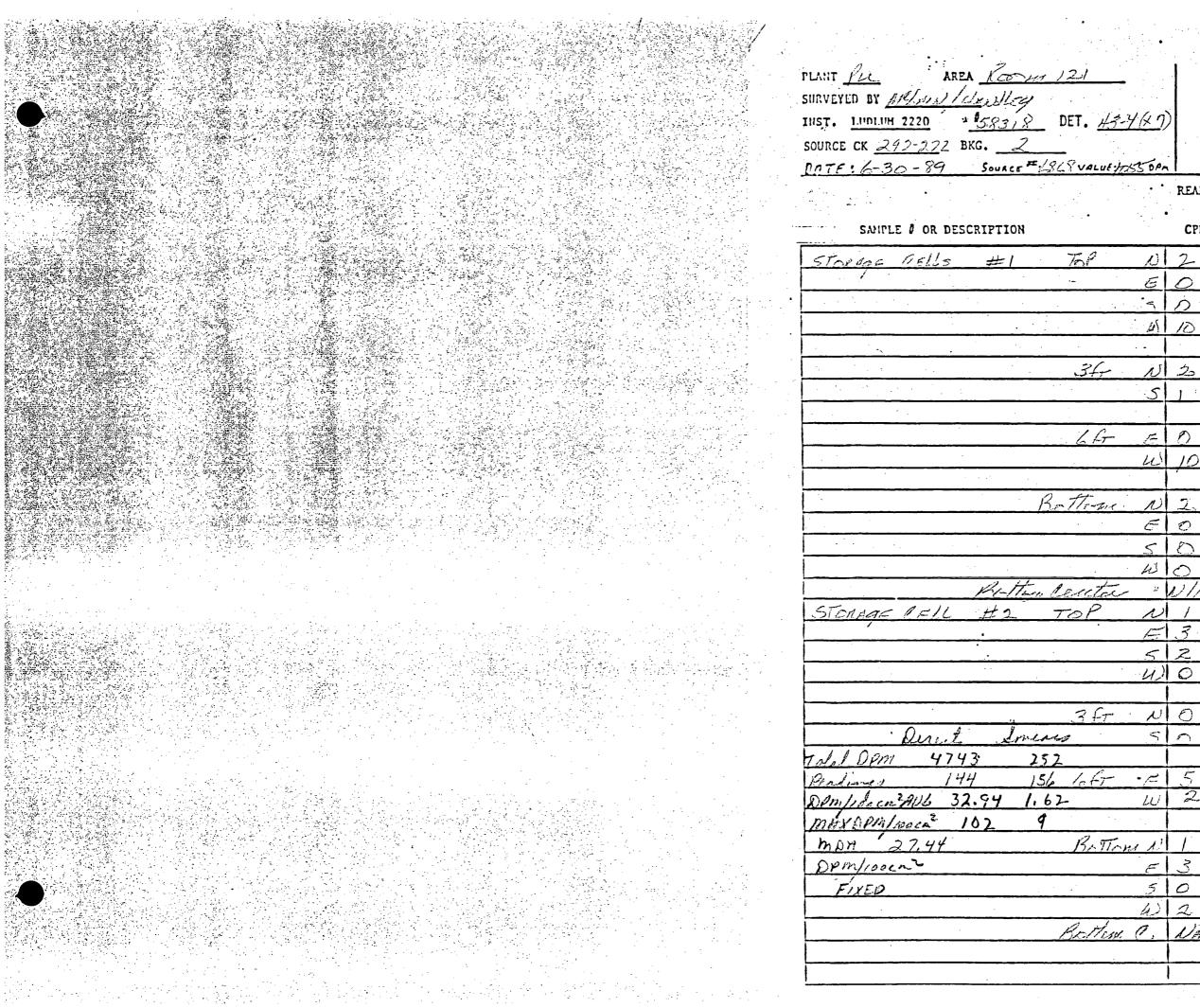
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| Wala | AREA E | FINI | 4 L G | RID | | | | | DIRECT | 1 1 2 2 | 1. 1. A. A. A. | | _ н. | P. SIGN/ | ON DAT ATURE | Wic. | Roge | in | | DPM/ | loocme | | | |
|--------------------------|--------------------------|----------------------|--|--------------------------|-----------------------|---------------------------|---------------------|----------------------------|--------|---------|----------------------------|-------------------|--------------------------|----------|-----------------|-------------|-------------|-------------|-------------|---------------------------|-------------|------------|------|-------------|
| | | | | and the second | | SI | NUMBER | 483 | 95,500 | 069/ | 46172, | 4617 | 3_ AU | TO. SI | AMPLE | COUN | TER # | 83600 | 1108 - | - 8360 | 50115 | | | |
| S 1.5cm = 1 Met | | | 6 5 | -4 5- | 0 3 5- | 03 | p- 4 5- 0 | | | | D-0 5-6 | D-0 5-3 | | | | 0-20 5-0 | | D-28 S-0 | 0-8 5-0 | P- 5- | | | | |
| F - FLOOR | MASS MAAF | 15.68 | 0-0 5-0 | | D-D S-D | | <u>D</u> . 5- | 3 | | | <u>p-4</u> 5-0 | | | | | | D-20 S-3 | | P- 5- | 4 | 4 A | | | |
| | NALL DPM/100 ALL FIXE | | D- 5 | -8 D- -0 S- -12 D- | 9 0- 0 5- 0 0- | 00 | D-0 5-0 1-4 | 0-0 5-3 | | | 1-0 3-0 | 0-0 5-3 | | | | D-20 S-0 | | | 0-20 5-0 | | 12 0 | | | |
| E - EAST WA | ALL | | D - 12 | 3 5- | 0 5- D-0 | 6 | 5- 3 P- | 5-0 | | | 0-0 5-3 | 0-0 5-0 | | | , | 0-4 5-0 | | 0-8 5-0 | 0-4 5-0 | | 4 | | | |
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| DATE | | KGO 5- 0 1 5- 0 |) <u>5</u> - | -3 5- -16 D- -0 S- | 3 5- 20 0- 3 5- | 6 4 0 | 5-9 D-4 5-0 | 5-9 D-12 5-0 | | | P-4 S-0 | <u>p-4</u> 5.0 | | | | 0-8 5-3 | | 0-4 5-3 | 0-0 5-0 | _ | 80 | | | |
| 9-13-88 19 9-13-88 19 | 9 48395 | D 2 | D-16 5-3 | | 9-4 5-0 | | <u>p-</u> 5- | | | | 0-0 5-0 P- | 0-0 5-3 4 | 0-12 D 5-6 5- 0-24 | 8 | | | | | <u>А</u> , | 8 p. 3 5 0-4 5-3 | 80 | | | |
| | | 0-4 5-0 | Contraction of the local division of the loc | 4 | 8 9- 6 5- | 0 | | 0-0 5-3 | | | | | | 20 | | | | | 9. 5. | 5-3 4 D- 0 5- | 16 | | | |
| | 45C#2 | | NOR | TH U | ALL | | EAST NORTH | WALL SECTION | | | 1 | UTH U 4 SEC | • • • | | | | WΕ | ST W | ALL | | | | | ·. · · |
| 9-16-88 9-20-88 | 30 | <u>,3</u> | | | | | | | | | | | | | | | | · | | | | | | |
| 9-21-88 | <i>45c</i> ≠1 33 | 2 D-1 | 6 1 | 0-20 0 | -12 | 0-8 | P-20 5-0 | p.8 5-3 | | | 0-20 | D-32 D | 32 D- 3 S- | 56 | 1 | · | | | | DIR | ECT | <u>S</u> r | NEAF | 2 |
| | | | · • | 0-20 D 5-05 | D-8 5-3 | -0 | | | | | S- 0 0-28 S- 0 | | 2 3- D-52 3-0 | | | | TOT | AL | 0pm | | 1636 | | 192 | |
| | | D-2 | 1-20 5-0 4 1 | 7-16 P | | 0-8 | 0-24 5-0 0-24 | | | | D-12 5-0 | 0-36 p 5-0 5 | 32 O 3 S- | 80 | | | | HDI | 4 | 2 | 140 | | 140 | |
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| | | <u>D-12</u> 5- 0 | 2 0 > 5 | 7-4 | <u>0-24</u> 5-0 | D-12 S-0 | <u>p-20</u> 5-9 | D-20 5-0 | | | <u>p-36</u> S-0 | 0-28 5-0 32 | | | | | | | | | | | | |
| | | | | | JALL | | I | WALL | | | <u>n-16</u> | p-28 | | | | | | | | | | | | |
| | | 5 | outh | SEC | TION | | 504TH \$1 | CTION | | | s-0 FLOC | 5-0 R | | | | | | • | | | | | | |
| | | | 1.1 | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | 1 | | | | | | | | | | | | | | | | | | |



ASC 1 1 8 3600/15 CTD. BY A Bluch SOURCE CK. AVC. 35 BKC. J PATE: 6-30-89 READINGS IN DPM/100 cm² DIRECT SHEAR 112 14 O6 EO 3 50 0 0 15 10 10 0 . . ۰. 14 N 25 ð 511 1 0 ED 0 6 W10 70 Ò 14 3 N2 ElO. 0 0 50 0 0 WO. \bigcirc 3 » 12/12 6 NI 7 0 E3 21 \mathcal{O} 512 14 M 410 12 \mathcal{O} . NO 3 \circ 50 5 0 35 0 W 2 14 0 7. Ο 3 21 E 3 50 \mathcal{O} D 3 10/2 14 ۲ D ·· Betterse C. NA

| ANT <u>Pre</u> AREA <u>Recent 121</u> IRVEYED BY <u>MICLAIN / Mandelley</u> IST. <u>LUDLUH 2220</u> * <u>58318</u> DET. <u>43-4</u> OURCE CK <u>292-272</u> BKG. <u>2</u> <u>AREA Recent 121</u> <u>58318</u> DET. <u>43-4</u> OURCE CK <u>292-272</u> BKG. <u>2</u> <u>AREA Recent 121</u> | CT SO BK | D. BY DURCE CK. C. <u>, 3</u> ATE: | 6-30-89 | | | PLANT <u>FL</u> SURVEYED BY <u>MCLAIN/HAANALEY</u> INST. <u>I.IIIIIIH 2220 + 58318</u> DET. <u>43-4</u> SOURCE CK <u>392-272</u> BKG. <u>2</u> <u>PATE: 6-30-89</u> SOURCE # 5868 VALUE: 10550AA | ASC Ø CTD. BY SOURCE BKG PATE: | ск. 4 . 3 |
|---|----------------|---|------------|-----------------|---------------|--|--|--------------|
| SAIFLE Ø OR DESCRIPTION | • DIR | S IN DPH/ ECT DPM | SHEAR | | | • | DINGS IN DIRECT | |
| Storage Cell. # 3 Top N | 0 | 0 | 0 | | - | STORAGE CALL # 5 TOP N 10 | | 0 |
| and the second | | 0 | O | _ | | <u> </u> | | 8 |
| <u>i per en la construction de la cons</u> | 3 | 21 | 3 | _ | • | 56 | | 2_ |
| a tagaha sa kana diga ta ta sa kana kana kana kana kana kana kana | 2 | 14 | 0 | - | • | ω 4 | 2 | 8 |
| | | | | | . • | | | |
| 3FT A | 7 | 49 | 3 | _ | | 3FT N 4 | 2 | |
| | 7 | . 49. | | - | | 53 | 1 2 | <u> </u> |
| ang kang sa kanang kang di kang kang sa kang kang kang kang kang kang kang kan | | 10 225 | | | | | | |
| CAR | | 21 | 0 | | - | 6FT E 5 | 3 | <u> </u> |
| Ü | 5 | 35 | 3 | | | W 9 | 6. | 3 |
| and a star water and a second star and | - I- | | | _ | • | | · | |
| Bottom N | .3 | 21 | D | | | Bottom N3 | 2 | |
| E Contraction of the second | 1 | 7 | 3 | | | F 1D | | 0 |
| 5 | | 35 | 6 | | | 57 | | 9 |
| <u> </u> | 6 | .42 | 3 | <u> </u> | • | <u>ul3</u> | | l' |
| Bister Carte | NA | | - 3 | . 1 | | Batton Restor N/ | 2 - | |
| | | 1 | | | | | | |
| Strage cell. Het TOP X | 1 7 | 170 | 0 | - | | | | · |
| <i>E</i> 5 | | 70 | 0 | — | | | | · . |
| | | 42 | 0 | - | | | | |
| | | | | | | | | |
| 377 N | 12 | 84 | . <u>.</u> | - | | | | |
| • 5 | | 70 | 3 | | - | • | | |
| • | | | | - | | • | | |
| ·LFT E | 19 | 63 | 3 | | | | | |
| a du | | 102 | 1 3 | | | | 2 | |
| | 1 | 1 - 1 - 1 | | <u><u>N</u></u> | : | | | |
| Bottom 11 | 8 | 56 | 0. | | | | | |
| E | 16 | 142 | 0 | | | · · · · · | | |
| S | 9 | 63 | 0 | | | | | |
| W | 11 | 177 | 6 | | | | | |
| Battora Montes | NA | 1 | 0 | i | | | 1 . | |

ASC 0 1 83600115 CTD. BY & Rlack SOURCE CK. AVC. 35 13-4 BKC. . ? PATE: 6-30-89 EJOSSOPA • READINGS IN DPH/100 cm² DIRECT CPH DPM • SHEAR N 10 10 70 ଚ E 4 : 28 0 3 6 42 0 W 4 28 3 . . N 4 5 3 28 3 21 0 . E 5 W 9 35 0 63 \bigcirc NI3 21 0 E10. 70 Ó 517 49 \mathcal{O} 4013 21 0 Porton NIA _____ \bigcirc • ••

| ANT PU AREA ROOM 121 | ASC 0 _/- | 83600115 | | PLANT PU AREA ROOM 121 | ASC 0 _ / · | 83600115 |
|--|-----------------|--------------------|-----------|--|---|----------|
| INVEYED BY HAMOLEY | CTD. BY | A Black | • | SURVEYED BY HANDLEY | | |
| IST. 1.1101.11H 2220 + 58318 DET. 43-4 | SOURCE CK. | | • | INST. LUDLIH 2220 + 58318 DET. 43-4 | CTD. BY SOURCE CK. | NVC. 29 |
| DURCE CK 250-283 BKG. 2 | BKC 3 | | | SOURCE CK 250-283 BKG. 2 | BKC. 2 | |
| CTE: 6-30 89 SOURCE #: 6868 VALUE: 10530PA | PATE: 6 | - 30-89 | | P.T.F : 5-3.)-89 SOURCE #: 6868 VALUE - 1055 DAN | DATE ? | - 3-29 |
| · · · · · · · · · · · · · · · · · · · | ADINGS IN DEN/1 | 00 cm ² | P' | | READINGS IN DPM/1 | |
| | DIRECT | | | | DIRECT | |
| | срні орн | SHEAR | | SAMPLE & OR DESCRIPTION | | SHEAR |
| HO FUEL PIN STORMER Ragon 121 Top NO | | 0 | - | 48 FUEL PIN STORAGE CELL-ROOM121-TOP-NI | | 0 |
| The second s | 21 | 0 | | Els | | 0 |
| · · · · · · · · · · · · · · · · · · · | 0 | 0 | - | · S 3 | | 3 |
| en multer a service de la service de la | 7 | 0 | - | W 6 | وغييب يكيد بأبديه والمحدي والمحد والمحدود | 0 |
| 34 N 3 | 21 | O | _ | 3FT N 3 | | 0 |
| 511 | 7 | 0 | | 8 | | 0 |
| 647 EO | 0 | 3 | | 6FT EII | | 0 |
| W3 | 21 | 0 | r stereor | W S | والبسيجي وتشريب أستحجت فالمجمل المتقاربين أتنا | <u>0</u> |
| Retton NO | 0 | etter of the other | | BOTTOM N 3 | 10 | <u></u> |
| en e | 17 | 6 | | Ely | and the second se | |
| the second s | 14 | 6 | | 5 6 | | 0 |
| W 3 | 21 | 0 | | W 2 | | |
| Bottom N | 17 | 3 | | | N/A - | |
| FT FUEL PIN STORAGE SELL TOP N7 | 49 | 0 | | H9 FUEL PIN STORAGE CELL TOP NI- | ······································ | 3 |
| E 5 | 35 | O | _ | E | | 0 |
| S [4 | 28 | 0 | _ | 5 | | 3 |
| Wild | 42 | 99 | | W . | | 3 |
| 317 N/11 | 77 | 6 | | 3FT-N | | 6 |
| 5 9 644 E 10 | 63 | 0 | | 518 | | 3 |
| 041 E 10. W 7 | 70 | <u>k</u> | _· | 6FT E 1 | | 3 |
| BOTTOM N 10 | 70 | 0 | - | W 3 | | 3 |
| E 7 | 49 | 0 | - | Bottom NS | | 0 |
| • 5 9 | 63 | 2 | _ | | | 0 |
| - W 6 | 42 | 0 | • | • 5 6 | 14 | 3 |
| | 14 | 0 | | · WIS | | 3 |
| | | <u> </u> | | Bottom | N/A | <u>ට</u> |
| | | | - | | | |
| | | · | | | | |
| | | | - | | | • ب |
| | | | - | | I I | |
| | | •• | | | | •• |
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| | | | | h | | |

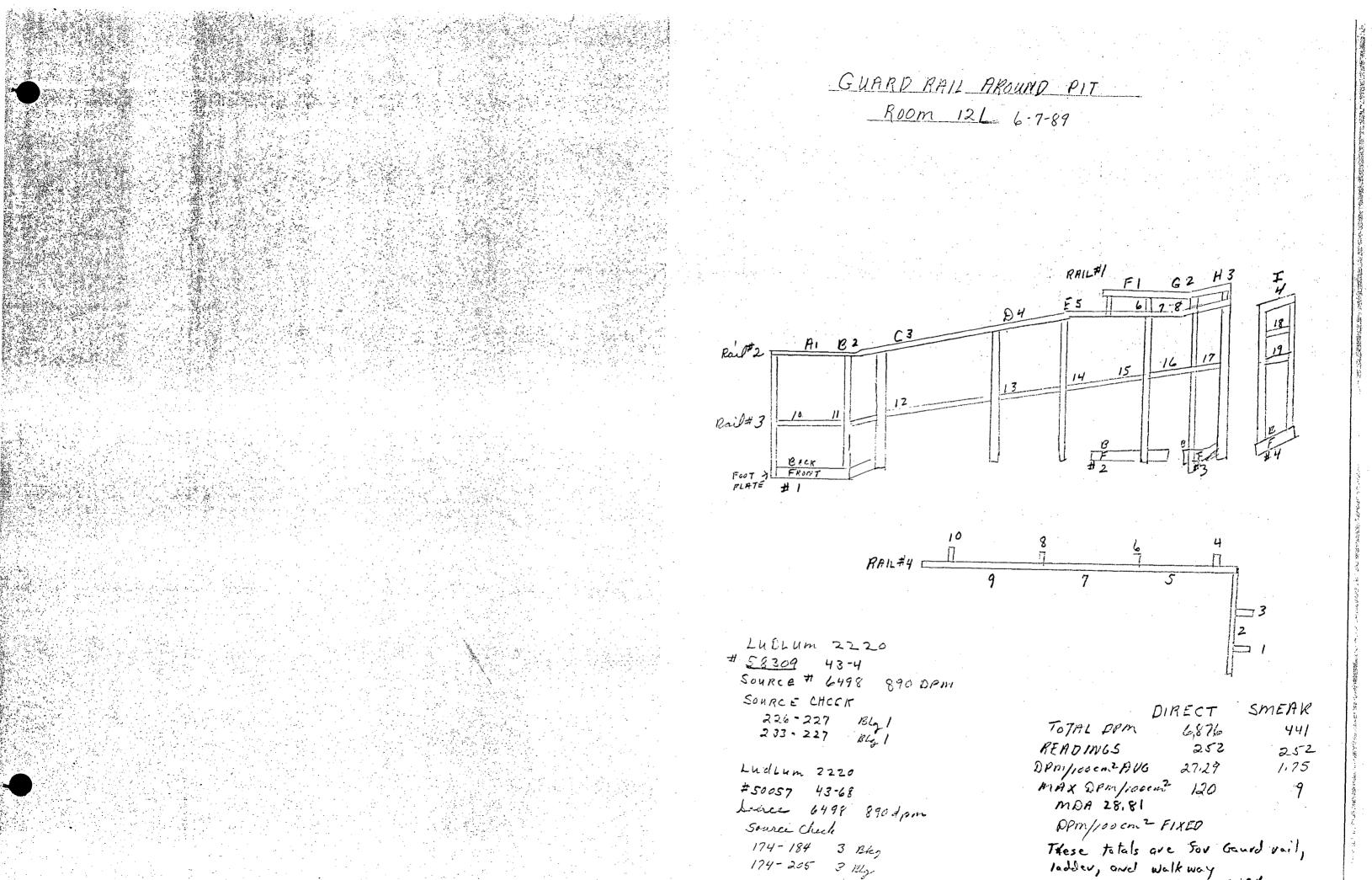
| ANT Pu AREA HOUM 121 | ۸۵ ا | sc / <u>8</u> | 36 00115 | | PLANT AREA Raim |
|--|---|-----------------|---------------------------|-------|--|
| IRVEYED BY S. Handley | | TD. BY <u>J</u> | , Bluck | | SURVEYED BY hen H |
| IST. 1.111111 2220 $= 583/8$ DET. $43-4$ DURCE CK $= 238/259$ BKG. $= 2/0$ | ្រំ ំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំំ | DURCE CK. | AVC. 29 | | INST. 1.1101.110 2220 + 58 318 DE |
| DURCE CK $\frac{150/283}{138/259}$ BKG. $\frac{2}{0}$ | B | .c. <u>-1</u> | | | SOURCE CK 230-283 BKG. 2.0 |
| 1. T.F : 7-3-89 Source #: 6868 VALUE 105504 | in E | ATE: 7- | 5-89 | | PATE: 7-3-89 SOURCE #:6866 |
| | · READING | S IN DPH/ | 100 cm ² | | |
| | | TDEN | | 5 | |
| SANTLE & OR DESCRIPTION | Срн | DPH | SHEAR | | SAMPLE 0 OR DESCRIPTION |
| * 10 Fuel Pin Storage Cell Top N | 15 | 35 | | | # 12 FUFL PINSTORAGE |
| E CARACTERISTICS | 8 | 56 | | | 121 |
| S S | 4 4 | 28 | 0 | • | |
| $\omega_{i} = \omega_{i} + \omega_{i$ | 19 | 63 | mand 3 set with a set | | |
| 35t. N | 14 | 98 | 6 | | |
| | 1 12 | 1 84 | 0 | | |
| CFT E | 15 | 105 | X 3 | | |
| A state of the st | 122 | 154 | × 0 | | |
| Bottom N | 115 | 105 | × Jane O in a manager and | | |
| | 9 | 63 | X and O are a long to | | |
| and the second | 1 15 | 105 | X-dual 3 - we have been | | |
| ${\mathcal W}$ | 1.15 | 105 | X 3 | | |
| Botton | N/A | - | 6 | | |
| | | | | | |
| # 10 recount after 65t E | | 1 40 | 0 | | |
| Decon | | 49 | 0 | | |
| Bottom N | 4 | 28 | <u> </u> | | |
| <u>E</u> | 12 | 1 14 | 3 | | |
| <u> </u> | 12 | 1 14 | | | |
| <u>₩</u> | | 1 // | <u> </u> | | |
| #11 Fuel Pin Storage Cell Top N | F | 35 | 2 | | |
| FTT THE TIN STORAGE CETT TOP NO | 1 2 | 1 42 | 3 | | |
| · · · · | 1 2 | 21 | 3 | - | |
| -ພ | | 21 | 9 | • | |
| 38+ N | | 1 28 | 3 | | · · · · · · · · · · · · · · · · · · · |
| S | 3 | 1 21 | 1 6 | - | · · · · · · · · · · · · · · · · · · · |
| 65+ F | 1.6 | 1 42 | 3 | - | |
| W | 3 | 21 | 0. | | |
| Bottom N | 17 | 1 49 | 3 | - | |
| E | 15 | 1 35 | 3 | | |
| 5 | 12 | 1 14 | 0 | | ······································ |
| Ŵ | 14 | 1 28 |) Ô | | |

ASC 0 1-93600115 CTD. BY <u>A Black</u> SOURCE CK. KVC. <u>29</u> 13-4 BKC. _____ READINGS IN DPH/100 cm² :1055 DAN • DIRECT CPH DPH SHEAR 3 21 TOP N 6 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -14 F G · 3 M Athense 5 4 28 3 21 42 · W o e sere 6. N Ø 3 21 ς 0 42 E 63 6 21 W 6 4 28 NI 0 2 E 14 3 3 21 5 0 W 4 28 0 N/A ? om . مى • . -; ••

MOA 15.68 DPM/100cm2 FIXED DIRECTS SMEARS ASC 1 1-83600115 AREA Room 121 PLANT PU 1,056 108 SURVEYED BY I Powell Hoist + Beams TOTAL DAM CTD. BY 9 Plack LUDLUM 2220 58 READINGS SOURCE CK. AVG. 34 INST. LUDLUH 2220 + 50068 DET. 43-68 50068 43-68 DPm/100cm2 HUG 18:21 1.86 BKG. 2 Jource 1832 342 dpm SOURCE CK 124-94 BKG. 2 9 MAX DPM/100cm2 60 16-13-89 Loura chuli DATE: 6-13-89 6-14-89 SOURCE #: 1837 VALUE: 342 OPA DATE: 1-14-89 · READINGS IN DPH/100 cm² 124.94 Bly 2 101-97 Etg 2 DIRECT 6-14-89 117-123 BL 2 SAMPLE & OR DESCRIPTION СРН 🗉 DPH SHEAR Beam Rm 121 $\begin{bmatrix} T \\ 1 \\ 2 \\ 3 \\ 4 \\ 5 \\ 6 \\ 7 \end{bmatrix}$ Beam#1 Beam#1 I T 12 3 0 20 B 5 0 27 15 60 0 This section over Pet B .4 16 3 3 T 15 60 .0 Been#2 1 2 3 4 4 16 B 6 4 T 4 16 3 12 B 3 3 Beam #3 5 1 2 3 40 3 5 T. 10 4 4 B 0 T 4 16 0 3 R 8 2 マ T 11 44 7 B Ø 3 2 Bean #2 5-10-7 over Pit TI 24 0 6 Hoist Rm 121 R 8 2_ 0 T2 5 0 20 RACK FRONT Ý B 2 Ò T 7 Ś 2. 0 12 3 R 3 $|\odot|$ 2 T4 4 0 16 4 B 2 $\boldsymbol{\checkmark}$ 9 ·NQ 4 Ò • 7, 8 10 7 ь 3 2 12 5. N9 ς 20 0 . 8 F 2. 0 9 11 Beam #3 12 10 40 T 0 BI 0 0 0 2 T 44 11 3 R 7 28 6 . . 16 4 3 71 6 5 20 6 RI

| PLANT <u>PU</u> AREA <u>Root</u> SURVEYED BY <u>I Powell</u> VBes | 121 Houst | | 3600115 | | PLANT | PU AREA <u>Reprin</u> D BY <u>I POZIMI</u> + Be | 121 Hoist |
|--|-----------|--------------|---------------------|-------------------------|---------|--|--|
| SURVEYED BY I Powell VBus | Corolling | CTD. BY | Rhele . | | SURVEYI | ID BY I POLITIP The | |
| INST. LUDLUH 2220 + 50069 | | SOURCE CK. | | • | | 1.11111 2220 + \$ 5006 | · · · · · · · · · · · · · · · · · · · |
| SOURCE CK 124-94 BKG. 2 | | BKG. 2 | | | | CK 124-94 BKG. 2 | |
| PATE: 6-13-89 SOURCE# | | | 1-14-89 | | DATE | : 6-13-89 SOURCE F | -:1832 VALUE: 5420 |
| | | NCS IN DPH/ | 100 cm ⁻ | | | | • |
| SAMPLE Ø OR DESCRIPTION | | IRECT DPM | SHEAR | | | SAMPLE O OR DESCRIPTION | |
| Hoist FRont | 1 7 | 28 | 0 | • | Ber | m#3 | 47 |
| | 28 | | | - | | | Ľ |
| | 3 8 | 32 | 0 | • • • • • • • • • • • • | | | 5 |
| | 47 | 28 | 0 | - | • | | k |
| | <u> </u> | 28 | 3 | - | : | ···· | |
| | 69 | 36 | 3 | _ | | | |
| | 70 | 0 | 0 | • | | | |
| | <u> </u> | 16 | 0 | - | | | |
| | 90 | 0 | 3 | - | . | | |
| A State (1998) A second se | 10 0 | 0 | 3 | - | | | |
| | | 8 | | - | . | | |
| | 12 2 | 8 | <u> </u> | - | | | |
| Hour Back | 17 | 28 | 6 | - | | | |
| How Dan | | 17 | 0 | - | | | · <u>, ·</u> · · · · · · · · · · · · · · · · · · |
| | 2 2 | 12 | 6 | - | | | · |
| | 411 | 4 | 3 | | | • • • • • • • • • • • • • • • • • | |
| | 5 7 | 28 | 3 | | | • | · · · |
| | 6 8 | .32 | 0 | | | • | |
| | 7 0 | 0 | 0 | - | | 2007 - 2007 - 2008 | ······································ |
| | 8 2 | 8. | <u>D</u> | - | | · · · | |
| | 93 | 12 | 0 | - | | | · · · |
| | <u> </u> | 0 | 3 | - | · | | |
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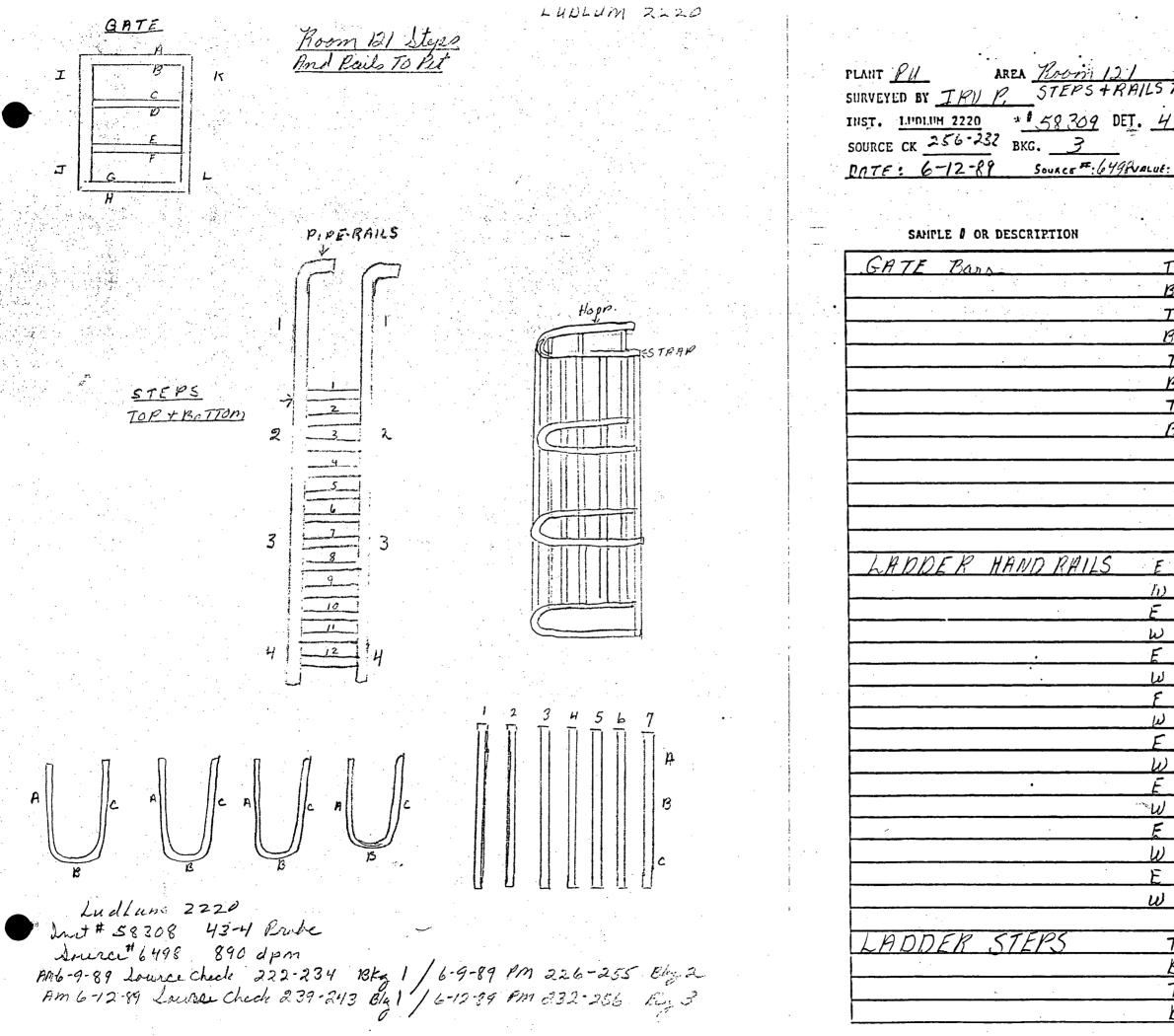
ASC 0 1-836 50115 CTD. BY <u>A. 120mete</u> est : SOURCE CK. AVG. 34 ••• 3-68 BKC. . 2 DATE: 1-14-89 : 342 OPA • READINGS IN DPH/100 cm² · • DIRECT CPH DPH SHEAR 36 4 T 9 6 B 4 0 8 2 5 4 16 0 . . . • ' 1 . . • · • • ••



ladder, and walk way sugk

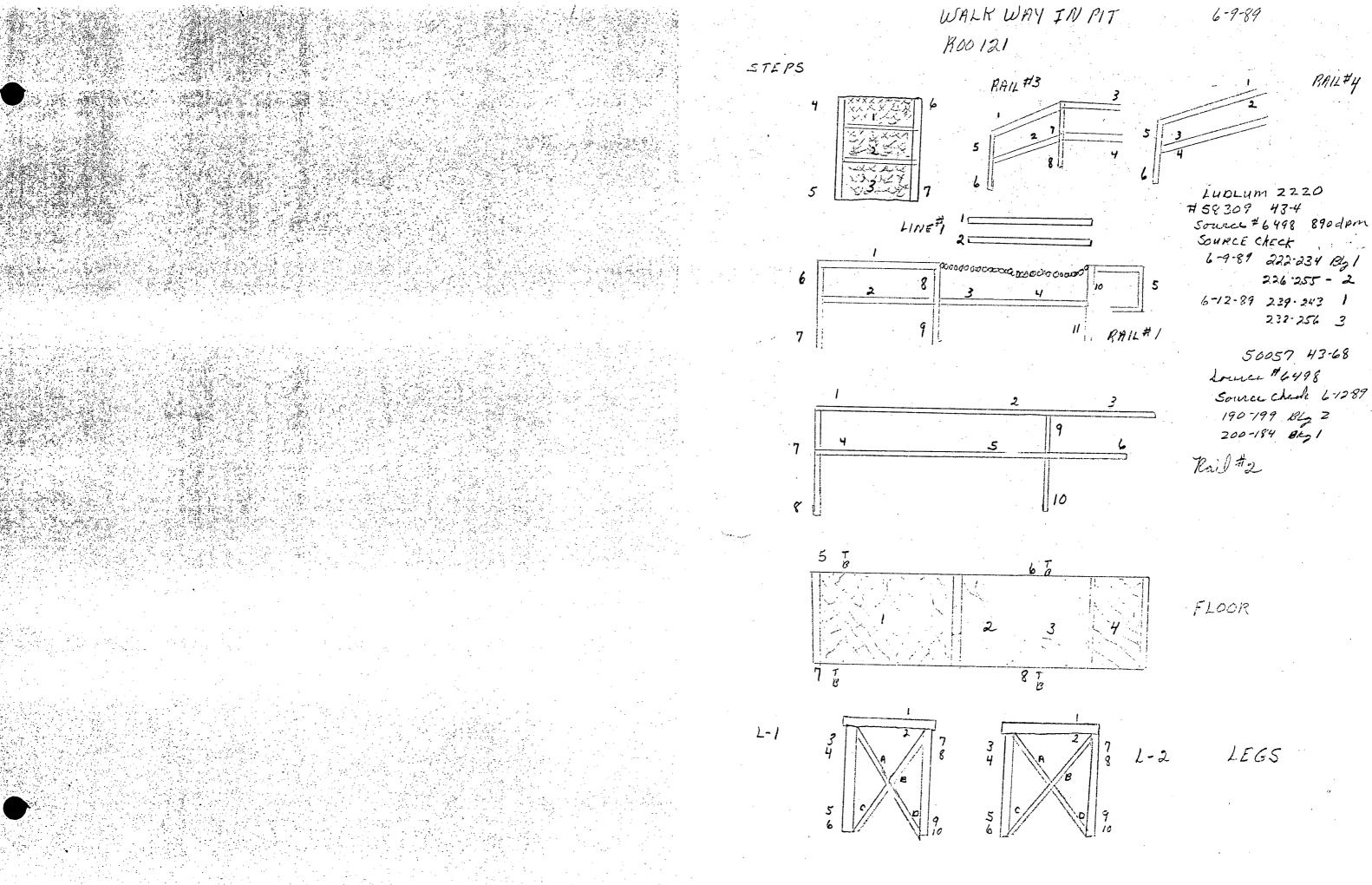
| | • | | | | | |
|--|---|----------|-------------------|-------------------|--|---|
| NIANT RU ADDA P. | n Hund Park | 21 45 | · · · · | -83600108 | - Charles - Char | PLANT DU ARPA Provin 121 Mus |
| - CUDUCULD BY T D- II aroun | 1 Pit | | | A Black | | PLANT <u>PH</u> AREA <u>Ravin/21 Jun</u> SURVEYED BY <u>Fround</u> Railaround P. |
| PLANT <u>PH</u> SURVEYED BY <u>J Powell</u> aroum INST. <u>LUDLUH 2220</u> * 58309 | DFT 1/3-4 | 50 | | AVC. <u>33-3/</u> | | INST. LUDLUH 2220 # 500.57 DET. |
| SOURCE CK 226-227 BKG | <u>737</u> | B | G. <u>,/-</u> , | | • | INST. <u>LIVELIH 2220</u> + S8309 DET. 43 233-277 SOURCE CK 174 184 BKG. 1-3 |
| DATE: 6-7-89 Source #: | | | α <i>τι</i> ε · / | -7-09 19-09 | | DATE: 6-7-89 SOURCE #: 649 ALUE: |
| | • • • | | S IN DPH/ | | | |
| | | | ECT | | | |
| SANPLE & OR DESCRIPTION | | Срн | DPM | SHEAR | | SAMPLE Ø OR DESCRIPTION |
| Pail # #1 | FILT | 2 | 12 | 6 | - | Pri #3 D-4 |
| | B | 0 | 0 | 6 | - | |
| | G#2 T | 8 | 48 | 6 | - | · <i>ES</i> |
| | B | 20 | 120 | 3 | | • |
| | H#3 T | 10 | 60 | 9 | - | FL |
| | B | 6 | 36 | 6 | _ | |
| | I#4 T | 6 | 36 | 0 | - | <u> </u> |
| | B | 0 | 0 | 0 | - | H 8 |
| 1 1 40 | | | | | | <u> </u> |
| Pail #2 | 1-A T | 0 | 0 | 0 | | T 9 |
| | A-P T | 0 | 36 | 0 | | <i>L /</i> |
| | 2-B T B | 10. | 56 | 0 | | |
| | 3-C T | 0 | 0 | 6 | | FOOT Plate FRont Broke #1 |
| | B | 0 | 0 | 0 | | |
| | 4-D T | 0 | 0 | 3 | · · · | |
| | B | 0 | 0 | 3 | <u> </u> | |
| · · · · · · · · · · · · · · · · · · · | SE T | 6 | 36 | 0 | _ | #3 |
| | B | 0 | 0 | 0 | _ | #4 |
| | GF T B | .4. | 24 | 6 | : | |
| | 7G T | 0 | 0 | 0 | _ | |
| | R | 6 | 36 | 3 | · · | Rai #4 |
| • | 8H T | 6 | 36 | 0 | | • |
| | ·B | 0 | 0 | 0 | · · | |
| | 9 <u></u> | 0 | 0 | 6 | | |
| | B | 0 | 0 | 0 | | |
| Kail#3 | | | | : | - | |
| | AI T | <u>Z</u> | 12 | 3 | _ | |
| ♥ | BD T | 2 | 1 12 | 3 | | · · · · · · · · · · · · · · · · · · · |
| | BL 1 B | 12 | 72 | 3 | <u> </u> | |
| | C-3 T | 1 | 36 | 7 | - | |
| | B | 6 | 36 | | | |
| | | | | | | |

ASC 0 <u>2-83600/09</u> CTD. BY <u>A Black</u> SOURCE CK. AVG. <u>33-31</u> ian Put 13.4 BKG. 1.2 DATE: 6-7-89 6-8-89 : 890 0Pm · READINGS IN DPH/100 cm² • DIRECT Срн DPH SHEAR T B ·T B O. ·T B T В T B T R • ' F B Ŷ. F 28 24 8 8 B R F 2. R 48 -3 Ś <u>3</u>. <u>۲</u> Ò ..



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|-----------------|-------------------|--|---|--|
| · · | | c / _ | 83600115 | e e |
| TOPIT | СТІ | | 1 Black | |
| 43-4 | | URCE CK. | | |
| | 1 | c. <u>. 2</u> | | • |
| e: 890 opr | | TE: 6-1 | 3-09 | |
| • • • | | S IN DPH/1 | | |
| | DIR | ·. · · | | . ¹ . |
| ••• | Срн | DPM | SHEAR | . * |
| TA | 5 | 30 | 0 | |
| BB | 10 | _36_ | _3 | |
| TC | 5 | 30 | 6 | · · · · · · · · · · · · · · · · · · · |
| BB | 10 | 10 | 0 | |
| TE | <u> </u> | 18 | 0 | |
| BF | 3 | 18 | _3 | |
| TG | <u> </u> | 24 | 3 | |
| B_H_ | 10 | .26 | 0 | |
| I | 0 | 0 | 0 | <u></u> |
| J | 6 | 36 | 0 | |
| K | <u> </u> | 24 | 3 | |
| L | | 6 | 3 | · · · · · · · · · · · · · · · · · · · |
| 1 | · · · | | | <u></u> . |
| | 4 | 24 | 3 | |
|) | 4 | 24 | 3 | |
| | 10 | 60 | <u> </u> | |
| 2 | 14 | 84 | 2 | ······································ |
|) | 12 14 6 | 3/2 | 3 | <u></u> |
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|) | 4. | 24 | 0 | |
| <u>. 4</u> | 12 | 12 | 6 | . <u></u> |
|) | . 10 | 60 | 3 | <u> </u> |
| T 1 | - | 12 | | |
| T B | 20 | 12 | 0 | • |
| D T 2 | 0 | | 0 : | . <u></u> |
| B | 8 | 48 | 0 | - <u></u> |
| $\mathcal{D}_{$ | <u> </u> | 10 | <u> </u> | |

| | | | | · · · | | | | | | • |
|--|--------|----------|---------|--|---------------|--|----------|------------|--|----------|
| PLANT <u>PH</u> AREA <u>Boom 121</u> SURVEYED BY <u>IRV P</u> , STEPS + Rail To Pit INST. <u>LIVALUM 2220</u> * 58.308 DET. <u>43-4</u> | Asc | : 1-8 | 3600115 | - | | PLANT PU AREA Rusin 121 SURVEYED BY T. Pound Alips & Rails To Pet | 24 | sc / _/- | 83600115 | |
| SURVEYED BY IRV P. STEPS + Rail TO Par | СТВ |). BY 1 | m Plach | | | SURVEYED BY T. Pound Alips & Rails to Par | CT CT | D. BY A | m Blacke | • |
| INST. 1.101.10H 2220 + 58.308 DET. 43-4 | SOU | IRCE CK. | IVC. 34 | • | | INST. LUDLUH 2220 + 58308 DET. 43-4 | SC SC | DURCE CK. | NC. <u>34</u> | • |
| SOURCE CK 256-232 BKG. 3 | BKG | 2. | | • | | SOURCE CK 256 - 232 BKG. 3 | BI | | | |
| SOURCE CK 25%-9.32 BKG. 3 DATE: 6-12-89 Source #: 649 Realue: 89 DOP- | DA | TE: 6- | 13-89 | | | PATE: 6-12-89 SOURCE #: VALUE: 890 DA | 0/ | ATE: 6- | 13-89 | |
| | | IN DPH/1 | | | | | | S IN DPH/1 | | •• |
| | DIRE | CT | | en de la composition de la composition La composition de la c | | | • DIF | ECT | | • |
| SAMPLE # OR DESCRIPTION | Срн | DPH | SHEAR | | | SAMPLE OR DESCRIPTION | Срн | DPM | SHEAR | |
| LADDER STEPS T 3 | 4 | 24 | 3 | • | | Strans to House around Lodder #1- | · . | | | |
| , which is a set of the first state of the set of \mathcal{B} . The \mathcal{B} -state \mathcal{B} - | 0 | 0 | 3 | • | | A | 2 | 12 | 0 | · |
| s and a second state of the head of T 4 | 0 | 0 | 0 | • | • | \mathcal{B} . The set of the set of the set of \mathcal{B} . | 5 | 30 | .3 | |
| B | 8 | 48 | 3 | • | | С | 11 | 6 | 3 | |
| Τ 5 | 10 | 100 | 3- | • | | #2 | | | · · · · · · · · · · · · · · · · · · · | |
| B | 6 | 36 | 9 | - | | A | 3 | 18 | | ······ |
| T61 | 6 | 36 | 0 | | | B | 3 | 18 | 0 | |
| B | 4 | 24 | 0 | - | | C | 0 | 0 | 3 | |
| ${\cal T}$, the second s | 10 | 60 | 0 | - | 1 | #3 | | | | |
| Beneral B | 2 | 12 | 0 | | | P | .3 | 18 | 0 | |
| T 8 | 2 | 12 | 0 | _ | | B | 3 | 18 | 0 | |
| \mathcal{B} | - 14 - | 84 | 6 | 1 | | <u> </u> | 3 | 18 | 0 | |
| Τ9 | 4 | 24 | 0 4 | _ | | # 4 | | | | |
| B | 12 | 72 | 0 | _ | | A | 2 | 12 | 0 | |
| T10 | 10 | 60 | 0 | _ | | <u>B</u> | 5 | 30 | 0 | |
| B | 8 | 48 | 0 | - | | <u>C</u> | | 18 | 0 | |
| T // | 8 | 48 | 3 | _ · | | | | | · | • |
| B | 16 | 96 | 0 | •. — | | A5 | | | ······································ | |
| <u> </u> | | | 3 | _ . | | KH KH | 4 | 24 | 6 | |
| B | 10 | 60 | 3 | - · . | | Les C | <u> </u> | 0 | | ، مسمور |
| HOOPS TO LAUDER #1 A | 2 | <u> </u> | | - | | III IIII | | 1/2- | | |
| R | | 14 | 0 | - | . ** | ×) | 2 | 12 | | |
| | | | 0 | - | | · R | 3 | 18 | 0 | |
| #2 ·A | 0 | 0 | 3 | | | | 2 | 12 | 0 | |
| B | 3 | 18 | 0 | - | | #17 | | 1 | | <u> </u> |
| C | 0. | 0 | 0 | - | | A | 0. | 0 | 3 | |
| #3 A | 4 | 24 | 3 | - | | ß | 4 | 24 | 0 | |
| B | | 6 | 6 | - | | C | 0 | 0 | 3. | |
| Ċ | 6 | 36 | 0 | - | | | | | , | |
| #4 A | 1.1 | 6 | 0 | - · | | | | | | |
| B | 3 | 18 | 3 | - | - | | | | | _ |
| Ċ | 2 | 12 | 0 | - | - | | | | | |
| | | | | - | ner te secure | | | | · · · · · · · · · · · · · · · · · · · | |





| ANT \underline{PU} IRVEYED BY IST. <u>LUDLUH</u> DURCE CK $\underline{2}$ $\underline{ATF}: \underline{6}$ | AREA <i>J. Postiell</i> 2220 + 10 32-256 BKG 0-199 -99 | <u>И/АГК И/АЧ Ј</u> Коот 121 50057 58309- DET. <u>4</u> • <u>3-2</u> Source # 6498 VALU | <u>711</u> 19 T <u>3-4/43</u> 4 6: 890 op | BR | κ. <u> λ</u> | 6-13-89 | <u>}</u> | | | PLANT <u>PU</u> ARE SURVEYED BY <u>I Pourl</u> INST. <u>LUDLUM 2220</u> SOURCE CK <u>232-256</u> I <u>PATE: 6-9-89</u> | * <u>58309</u> DET. BKG. <u>3</u> |
|--|---|--|---|------------|--------------|----------|----------|------------|---|--|---------------------------------------|
| SAHPL | E I OR DESCRI | IPTION | | DIR CPH | ECT | SHEAR | | • | | SAMPLE & OR DES | CRIPTION |
| STEPS | X 10 | | T | 13 | 30 | 0 | | | | Rail#2 | |
| | | | 2 | _6_ | 60 | 0 | | | | | |
| | | e. | 3 | -h_ | 60 | 3 | | | • | · | |
| and the second | | | #/ : | ••••• | | | | | | | |
| | • | | | | | | | | | | |
| | · · · · | | | | · · | Sec. Com | | | | | |
| | | 24 | <u> </u> | 9 | _54_ | 3 | · . | | | | |
| | | | B | 0 | 0 | 6 | | | | · · | · · · · · · · · · · · · · · · · · · · |
| | | #5 | | 4 | 24 | 6 | | | | | |
| | | | B | 2 | 12 | 0 | | _ | | · | |
| | | #6 | T | 10 | 66 | 3 | | - | | | |
| | | | B | 0 | 0 | 3 | | _ | | · . | · · · · · · · · · · · · · · · · · · · |
| · · · · · · · · · · · · · · · · · · · | · · | #7 | T | 8. | 42 | 0 | | | | | |
| · | | | B | 2 | 12 | 0 | | _ | | | |
| 2140 14 | | | | | | | | | | | · |
| KAIL # [| | 1 | T | - 8 | 48 | 0 | | - | | | |
| ····· | | | B | 7 | 42 | 0 | | _ · | | | |
| | | 2_ | T | 1 | 6 | 0 | | | - | Rail #3 | <u>.</u> |
| · | | • | B | 3 | 18 | 3 | | <u>-</u> : | | · · · · · · · · · · · · · · · · · · · | · |
| · · · · · · · · · · · · · · · · · · · | | 3 | <u> </u> | 3 | 18 | 0 | | - • | | | · · · · · · · · · · · · · · · · · · · |
| · | | | B | 9 | 54. | 3 | | | | | |
| | - | | | 14 | 84 | 3 | | - | | | |
| <u></u> | | 5 | B | 7 | 24 | 3 | | - | | | · |
| | | | B | 2 | 42 | 1 | | | | · · · · · · · · · · · · · · · · · · · | |
| | | 1 | <u> </u> | 3 | 12 | 2 | | - | | | <u></u> |
| | <u> </u> | | B | <u> </u> | 18 | 17 | | - | | | <u>`</u> <u>`</u> <u>`</u> <u>`</u> |
| | | 8 | D T | 10 | | | | - | 1 | | |
| - - | | 9 | B | 8 | 60 | | | - | | | |
| | | / | <u> </u> | -0 | 1 | 0 | 6 | • | | | |
| · . | | | B | | 54 | 0 | <u> </u> | - | | | |
| | | | <u> </u> | | 6 | 5 | | • | - | L <u>.</u> | |
| | | | | | · · · · | <u> </u> | | - | | | |

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With States in

ASC 0 1-83600/15 CTD. BY <u>4 Black</u> SOURCE CK. AVC. <u>34</u> IN ••• 13-4 BKC. 12-DATE: 1.-13-89 1:89D OPA READINGS IN DPH/100 cm² DIRECT CPM DPM • SHEAR 76 T 6 6 3 R 54 6 5 42 3 B 12 T 0 • 0 0 B 18 .0 36 3 B 60 0 3 B 30 42 0 24 0 B 36 3 T 3 в 24 T 42 0 0 60 DR 12 0 T 36 0 B T 42 3 • 30. B 0 T 30 0 В 24 0 54 T 0 18 ·U 3 T 24 6 30 B • 0 T 12 0 12 B 1 ••

| CLANT PH AREA H URVEYED BY <u>T POWELL</u> UNST. <u>LUDIJUH 2220</u> + 1 50 SOURCE CK <u>190</u> 199 BKG. | AIK WAY INPIT | ٨٥ | c // | 1-83600115 | · · | PLANT PU AR | EN INALK INAY IN PIT | | sc I |
|---|--------------------------------|---------|---------------|---------------------------------------|------------------|---------------------------------------|---------------------------------------|---------|------------|
| URVEYED BY <u>I POWELL</u> | for 121 | СТ. СТ. | D. BY | A-Black . | | SURVEYED BY I POW | <u> </u> | c | TD. |
| HST. LUDLUH 2220 + 50 | <u>309</u> DET. <u>43-4/43</u> | 👌 🗄 so | URCE CK. | AVC. 34 | | INST. LUDLUH 2220 | * 58369 DET. 43-4 | S | ourc |
| SOURCE CK 190 199 BKG. | 3.2 | BK | c. <u>; Z</u> | | | SOURCE CK 232-258 | BKG3 | B | KC. |
| 11TE: 6-9-89 Sour | CE #: 6498 VALUE: 89 POPM | D.A | TE: 6 | 5-13-89 | | PATE: 6-9-89 | Source #: 6498 VALUE: 8400Pm | D. | ATE |
| | • | READING | S IN DPH/ | 100 cm ² | | | | READING | SS 1 |
| | | DIR | | | | | • | | RECT |
| SAUPLE Ø OR DESCRIPTI | เอิง | CPH | DPH | SHEAR | | SAMPLE Ø OR DE | SCRIPTION | Срн | |
| Rails FI4 | T | 5 | 30 | 9 | | LEG#2 | · · · · · · · · · · · · · · · · · · · | 11 | |
| | 28 | 6 | 36 | 6 | | | 2 | 2 | |
| | <u> </u> | 6 | 36 | 0 | • | | | | |
| | 4B | . 4 . | 24 | 0 | | | 4 | · 0· · | 1 |
| · · · · · · · · · · · · · · · · · · · | <u>5</u> 7 | 4. | 24 | 3 | | ļ | 5 | 2 | |
| | 63 | 2 | .42 | 3 | | | 6 | 2 | |
| | | | | · · · · · · · · · · · · · · · · · · · | | | 7 | 3 | |
| FLOOR | A 1 | .7 | 70 | 0 | - | - | 8 | - 4 | |
| | 2 | 6 | 60 | 0 | | | 9 | 3 | <u> </u> . |
| | X10 3 | 7 | 70 | 0 | | | 10 | 6 | 1 |
| | + 4 | 7 | 70 | 0 | | | A | | |
| | 5 T | 2 | 12 | 0 | | | B | 5 | <u> </u> |
| ······································ | B | .3 | 18 | 0 | | | <u> </u> | 2: | 1 |
| | 6 T | 0 | 0 | 0 | | | <u> </u> | 10 | |
| | B | 3 | 18 | 3 | | | | | |
| | <u>7 T</u> | 7 | 42 | 0 | | LINE #1 | <u> T</u> | | |
| | B | | 6 | 0 | | | B | <u></u> | 14 |
| | R T B | 1 | 6 | 3 | | · · · · · · · · · · · · · · · · · · · | 27 | | |
| | D | | 6 | 0 | | | ß | | ; |
| LEG#1 | | 2 | 12 | 0 | | | | - | + |
| | 2 | : 0 | 1 1 | 0 | : : | | | | + |
| | 3 | 4 | 24 | 0 | | | | | 1 |
| • | 4 | 1 | 6 | 0 | 1 1 1 1 | | • | | 1 |
| | 5 | 1 | 6 | 6 | • ' | | • | | |
| | 6 | 4 | 24 | 6 | : | | | | |
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| · · · · · · · · · · · · · · · · · · · | 8 | 4 | 2.4 | 3 | | | | | |
| · · · · · · · · · · · · · · · · · · · | 91 | 3 | 18 | 3 | | | | | 1 |
| | 10 | | 6 | 0 | | | | | 1 |
| · · · · · · · · · · · · · · · · · · · | A | 3 | 18 | 0 | | | | | |
| · | B | 2 | 12 | 0 | | | | · | |
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PAGE 2 OF 18

6-14-89 +6-15-89 DATE SERIAL NUMBER #58308 OPERATOR ILP 342 dpm 115-109,2 6-15-89 3 -104 Direct _cpm______dpm/100cm2____ Smearable dpm/100cm² EADING LOCATION) METERS З E 42 0 5 70 3 W 2 METERS 98 E 7 0 84 W 0 6 A METERS 42 3 T 9 44 в In & METERS 56 4 9 T 3 ß 42 0 8 METERS 3 T 0 42 В 2 28 0 O METERS 3 14 E 5 70 ω 0 2 METERS Ц. 56 E 0 6 \bigcirc W 0 3 METERS 28 E 2 0 ų 56 W 0 ., ** 11-12 N 2 4

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6-19-89 DATE SERIAL NUMBER 58308 OPERATOR ILP 342 dpm 73-68,2 77-79,2 Smearable dpm/100cm² Direct _cpm____dpm/100cm²___ READING LOCATION O METERS 2 28 O E 4 56 W 2 METERS 0 E 0 0 3 42 0 W 4 METERS E \mathcal{O} Õ 0 3 ٥ W 42 6 METERS 3 42 3 Ĕ 14 3 W 8 METERS 3 42 E 0 0 \mathcal{W} 0 0 10 METERS 0 E 14 3 0 \mathcal{W} 0 12 METERS 6. F \bigcirc 0 14 ω \mathcal{O} 14 METERS 3 É 3 42 P Ο W 0 Ú 15 METERS 6 3 42 N 2 3 S 28 ** 1752 1 2 4

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PAGE 10 OF PIPE SURVEY DATE 6-20-89 SERIAL NUMBER 58308 OPERATOR ILP 342 d.pm 73-75 77-79,2 6-19-89 Smearable dpm/100cm² ____READING_LOCATION O METERS Ц 56 0 N 5 14 0 2 METERS З N \bigcirc 0 S. 0 n 0 4 METERS Ο N 0 0 S \mathbb{O} 3 0 6 METERS 0 0 0 E Ô W 0 \circ 7 METERS 0 E 0 0 W 0 0 \bigcirc

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RM 121 PIF 664 LINE NUMBER INSTRUMENT LUDLUM 2220 43-4 DETECTOR SOURCE NUMBER AND VALUE 1832 34 SOURCE RESPONSE AND BACKGROUND AM SOURCE RESPONSE AND BACKGROUND PM TIPE OF START OF SURVEY DIA. CONDUIT 34IN SOCKET PANEL ON E. WALL TO JUNCTION BOX ON E.WALL · :

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RM 121 PIPE lelele LINE NUMBER INSTRUMENT LUBLUM 2220 DETECTOR 43-4 1832 SOURCE NUMBER AND VALUE SOURCE RESPONSE AND BACKGROUND AM SOURCE RESPONSE AND BACKGROUND PM LINE START OF SURVEY DIA CONBUIT 34IN SOCKET PANEL ON W. WALL . TO & PULL BOX ON W. WALL .

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PAGE 16 OF 18

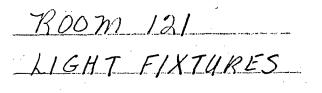
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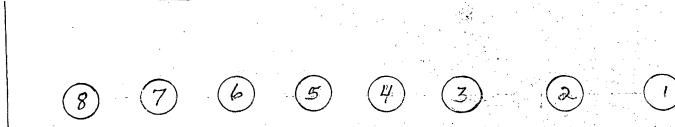
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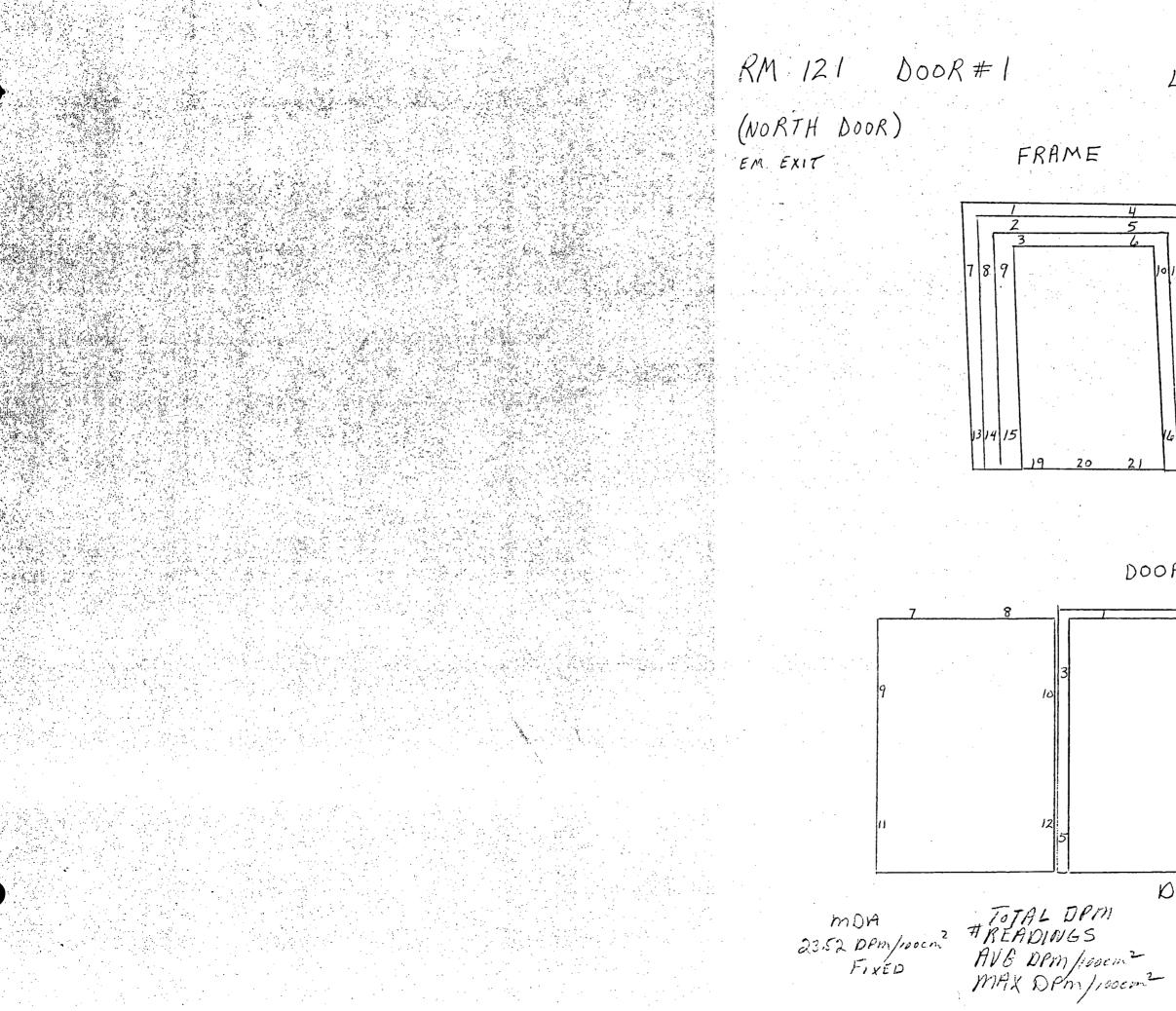


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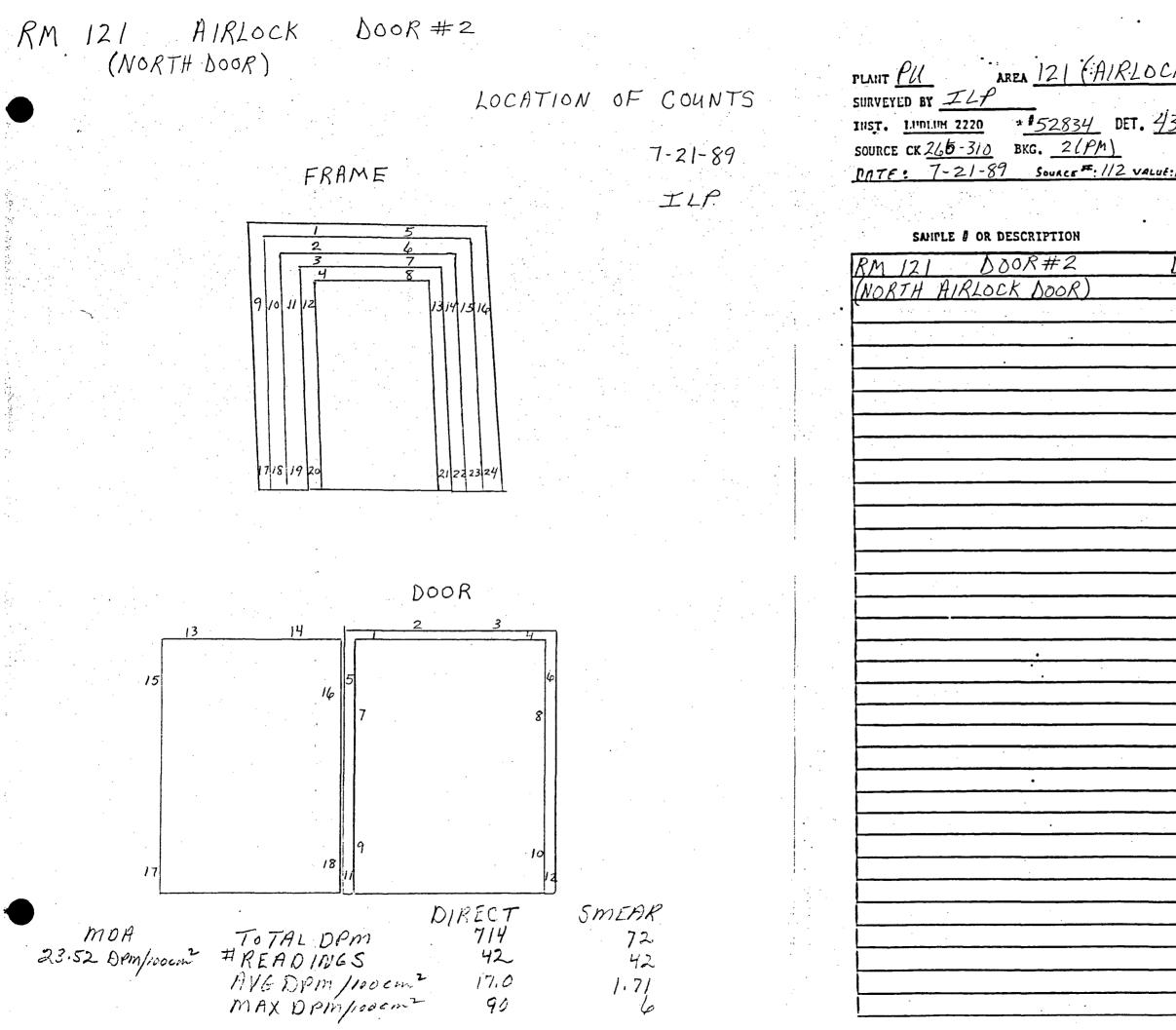
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| <u><u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u> | 3 | 12 | 0 | | B |
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| | ~ | 20 | 0 | | DECONTRESURVEY # |
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| #6 T I | 9 | 36 | | | #12 |
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| · B 2 | 3 | 12 | 6 | | TOTAL DAM . 1338 |
| #7 T 1. | 14 | 56 | 3 | • | = REPAIROS 48 |
| T 2 | 13 | 52 | 9 | | AVG DPm/icpem ² . 27.89 |
| <u> </u> | 3. | 12 | 0 | | MAX DAM Licsen 2 84 |
| <u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u> | 0 | 0 | 0 | | |
| #8 T 1 | 21 | 84 | 0 | | Dpm/100cm. 2 FIXED |
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ASC 0 2 93460108 CTD. BY JPlack SOURCE CK. AVG. 31 43-12 B::C. .3 PATE: 6-16-89 READINGS IN DFM/100 cm² OPA uE: . • DIRECT CPH DPH • SHEAR - 0 11: · / · 1. 9: · [-. 1 Ø Ò 1.4 |T|6. TI SMFAR • • •



LOCATION OF COUNTS 7-21-89 ILP DOOR DIRECT 612 33 18:55 - 54 SMEAR 69 3.09

| PLANT <u>PU</u> SURVEYED BY <u>ILP</u> INST. <u>INPLUM 2220</u> * 52834 DE SOURCE CK <u>268-285</u> BKG. <u>2(AM)</u> <u>PATE: 7-21-89</u> Source #://2 | т. <u>43-</u> 4 | CTD. BY | 3600108 C Abel | | | | | |
|---|-----------------|-------------|--|---------------------------------------|--|---------------------------|----------------------|---------------------|
| SOURCE CK 268-285 BKG. 2(AM) | T. <u>43-4</u> | COUDCE 00 | | • | PLANT <u>PU</u> AREA <u>RM</u> SURVEYED BY <u>ILP</u> INST. <u>LIPLIM 2220</u> + \$52834 | | CTD. BY | . Black |
| SOURCE CK <u>268-285</u> BKG. <u>2(AM)</u> DATE 7-21-89 Source #.//2 | | | AVC. <u>33</u> | • | INST. 1.1101.11H 2220 + 52834 | <u>/ DET. <u>43-4</u></u> | SOURCE CK. | |
| DATE 1-21-84 Source 1/2 | | BKC2_ | | | SOURCE CK 268-285 BKG. 21 | (AM) | BKC2 | |
| | | | | | PATE: 7-21-89 Source | | | |
| | | NCS IN DPH/ | | | | • | READINGS IN DPH/ | 100 cm ⁻ |
| SAMPLE & OR DESCRIPTION | Срн | DPH | SHEAR | | SAMPLE & OR DESCRIPTION | • | DIRECT CPH DPH | SHEAR |
| RM 121 DOOR#1 | DOOR | | and the second sec | | RM 121 DOOR #1 | FRAME | | |
| (NORTH DOOR) | <u>b-13</u> | 18 | 0 | | (NORTH DOOR) | | 3 18 | 0 |
| | <u>B-2 /</u> | lo | | | • | F-2 | 2 12 | 6 |
| | <u>b-3</u> 3 | 18 | | | | F-3 | 1 6 | 0 |
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| | <u>b-5</u> 7 | 42 | 6 | | | F-5 | 1 6 | 0 |
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| e:///30Pr | BKC. <u>+3</u> BKC. <u>+3</u> DATE: 7-24-89 | | | | | | | | | |
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| D-5 | Ч. | 24 | 3 | | | | | | | |
| 6 | 2 | 12. | 0 | | | | | | | |
| 7 | 3 | 18 | <u> 6 </u> | | | | | | | |
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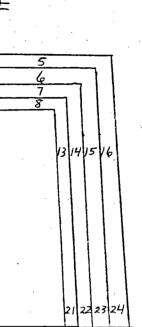
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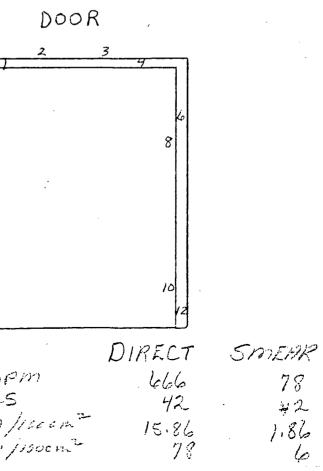
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LOCATION OF COUNTS

7-21-89

ILP





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| | CTD. BY 5. Black | | | | | | | | | |
| 43-4 | SOURCE CK. AVC. 33 | | | | | | | | | |
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| s.111200- | BKG. <u>· 3</u> | | | | | | | | | |
| E:/// 30PA DATE: 7-24-89 READINGS IN DPH/100 cm ² | | | | | | | | | | |
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| F-31 | 2 | 12 | 3 | | | | | | | |
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