Pu-Plant Room 124

During production this room contained our pellet presses, calciner, Harper furnace, pellet grinder, inspection gloveboxes, and outgas furnace. After this equipment was removed, we started removal of the glovebox exhaust system. While removing this glovebox exhaust system, we had a section of this pvc pipe, that was just upstream of the pellet grinder box, fall to the floor. We increased room 124 negative and sealed all anchor holes, cracks, and floor seams immediately after this accident. This accident contaminated the entire room and we spent approximately three months steaming the walls, floor, and ceiling to remove smearable contamination. Levels of fixed contamination were from 500 dpm/100 cm² to 2000 dpm/100 cm² average on ceiling and walls, with a maximum of 100,000 dpm/100cm² on the east wall by the double doors that went to production hall. We removed these doors and framework and some blocks that had high levels of contamination. We then blasted wall and ceiling, removed the floor coating and then blasted the floor. We preformed a scan survey and spot blasted the wall and blasted the entire floor again Before starting our final release survey we took smears in all anchor holes in walls and floor and did a low energy gamma survey. Because of the results of these surveys one floor seam was removed and half of some wall blocks were removed. We also used a core drill to remove the anchors in the floor and then surveyed these holes in the floor.

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.

D

N. 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 cm^2 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.

- 3. 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 cm².
- 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 cm².
- 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.

| Nuclides | Average ^b , c, f | Maximun ¹ , 1, J | Removable ^E .e.f |
|--|----------------------------------|--|----------------------------------|
| U-nat, U-235, U-238, and associated decay products | 5,000 dpm a/100 cm2 | 15,000 dpm 4/100 cm² | 1,000 dpm a/100 cm ² |
| Transuranics, Ra-226, Ra-228, Th-230, Th-228, Pa-231, Ac-227, 1-125, 1-129 | 100 dpm/100 cm² | 300 dpm/100 cm² | 20 dpm/100 cm² |
| Th-nat, Th-232, Sr-90 Ra-223, Ra-224, U-232, 1-126, 1-131, 1-133 | 1,000 dpm/100 cm² | 3,000 dpm/100 cm² | 200 dpm/100 cm² |
| 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 β _f /100 cm ² | 1,000 dpm βγ/100 cm ² |

Table I-1. Acceptable surface contamination levels

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

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

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

⁶The 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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| 'N | | | | | | NUMBER | | | - | - | | _ Au | TO. SAI | MPLE C | OUNTE | <i>κ#</i> : | |
| • 1.5cm = 1 Meter | | | | | | | | | F | LOOR | SCH | n | | | | | |
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| N AREA ROOM | 124 | TYPE OF SURVEY - | IRECT & SMEAR | COMPLETION DATE |
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| FINAL | GRID | TYPE OF INSTRUMENT | PLUM 2220/DET. 43-68 | H.P. SIGNATURE _ W.a. Krein |
| ₩ ≪ > E | | SERIAL NUMBER 3780 | _ | AUTO. SAMPLE COUNTER #: 1 83 |
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| 37807 U-2789 247-227 11AM) | | | FLOOR | TOTH |
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| N AREA KOOM | 124 | TYPE OF SURV | Y & DIRECT + | SMEAR | COMPLETION | DATE 4-26-89 | 9 |
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| FINAL | GRID | TYPE OF INSTR | UMENT LUDLUM 222 | 0/DET. 43-68 | H.P. SIGNATU | RE W. Q. Roze | 11 |
| ₩ ~ – – > E | | SERIAL NUMBE | 37807 + 37 | 800 | AUTO. SAMPL | E COUNTER # : | |
| S 1.5cm = 1 Meter | | | | EAST WALL | | | • |
| F-FLOOR D-DIRECT C-CEILING S-SMEAR | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 24 0- 36 0-20 3 5- 6 5-0 | D-8 D-12 D-1 5-0 5-3 5-3 | | 2. 20 B- 32 B- 2 5- 0 5- 0 5- 0 | 0 P-16 P-16 P-) S-0 S-0 S- | 24 |
| N-NORTH WALL MDA 15.68 S-SOUTH WALL DPM/10000 E-EAST WALL FIXED W-WEST WALL | D p-12 5-0 2 | p-p.0 5-0 3 5 | -24 0 -7 -3 | 3 3- 6 2 |) ?: ²⁴ 3 7) | p -8 f -0 f -0 f -3 | |
| Source #: 6816VALYE: 1078 DPM INSTRUMENT | D-16 D-24 D-42 S-3 S-0 S-0 | | P-12 P-16 P-2 5-0 5-6 5-6 | | D-20 D-32 D-2 5-3 5-3 5-9 | 8 p. 24 p. 28 p. 7 5-3 5-0 5- | .1 <u>)</u> 3 |
| DATE SOURCE SM BKGD.SM B7807 4-20-89 244 - 238 1 (AM) 37807 4-20-89 243 - 241 2 (PM) | D-4 D-28 P-4 S-0 S-0 S-0 M D-20 D | 1 0-16 0-24 | P-30 D-28 D-4 5-0 5-0 7-0 52 A) g-4 | 18 0-28 D-36 D 3-6 3-0 | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 16 p- 20 p- 24 p- 5-3 3- 0 5- p-20 B p-48 | 29 3 3 |
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| 3780 4-24-89 236-243 2 Am 3780 4-24-89 238-260 1 (PM) 3780 4-26-89 255-247 2(AM) | 0-12 0-0 0-14 5-3 5-0 5-6 2) 0-24 22 | | 0-==0 5-6 | | 7-44 0-92 0-1 1-3 5-0 5-9 3 0-48 29 | $p = \begin{bmatrix} p - s \\ s - b \\ s - b \\ z - b $ | - 16 |
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| HSC#1 4-21-89 37,3 | | | | WEST WALL | | | |
| | D-20 S-0 S-0 S-0 S-0 S-0 | $ \begin{array}{c} 0 - 4 \\ 5 - 6 \\ 5 - 3 \end{array} $ | P-20 5-3 5-0 5-0 5-0 | 2-12 D-16 5-3 5-36 | 2-8 D-12 D-2 5-0 5-0 5-0 | 8 <u>-</u> | 3 |
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| 4-25-89 28 .3 4-27-89 30 .3 01 FECT SMEAR | 9-4 0-8 0-2 5-3 5-0 5-0 | | 0-28 0-8 0-2 5-3 5-3 5-0 | 5-0 5-6 5 | 2-24 0-16 0-8 5-3 5-0 5-0 | | - 16 - 0 |
| TOTHL DAM 5516 501 TREADINGS 295 295 | | p-16 (3) p | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | $ \frac{2 - 16}{5 - 0} = \frac{2 - 20}{5 - 0} = \frac{2 - 20}{5 - 0} = \frac{2 - 20}{5 - 0} $ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | -24 -3 4. |
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| $ \begin{array}{c} N \\ A \\ F \\ W \\ \hline \end{array} \\ E \\ \end{array} $ | (OOM I INAL GA | | | | | | | | | | | | | | | | | SURVEY DA | UNITS Miooca | 7 ² | • | |
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89 SURVEY UNITS DPM/100cm² <u>-4, M-1</u> ŗ 1 0 3 Ø 9 E \mathcal{U} Top D-4 D-28 D-14 D-24 5-3 5-0 5-0 5-0 BOTTOM 3 $\underline{\Theta}$ 0 0 NOBTH SOUTH SUPPORT BEAM . SMEAR 96 76 1.26 17 -

CerlingtBonus Exposed by Duct. Removel BANKER IN 124 BANKER IN 1217 Removel BANKER IN 1217 Jobber Cain INT. MARKERS JULY MC Cain INT. MARKERS I JOBER III. 13-68 Ceiling & Beams Eiper SAVEYER ST MARKATVAJain 123 1 83600115 CTD. EX <u>J. Black</u> COURCE CH. AVD. <u>32</u> 1017 MARTIN 1227 + Jook9 1 SOUTOE CK 182/184 ENS. 1 STUTICE CK 182/194 BKG. 1 :::J. <u>.2</u>____ PATE: 5/16/29 Source F.727 CATE: 5/16/89 Source = 7272 VALUE 850:00 PETE: 5-12-89 READINGS IN DEM/100 cm² DIRECT CPH DPH SAMPLE / CR DESCRIPTION SAMPLE & CR DESCRIPTION SMEAR TOP Of Support Beam Between East Face of Beam #2 Beams 2+3 2 meters 3 12. 3 E 11 0 0. 0 W/ 11 3 0 0 OPEN ENd of Air Due 17 3. 12 0 2 0 0 ٥ 12 4 6 11 5 Q_{22} 3 2 11 21 6 Ceilina #2 meters 4 6 11 4 16 0 11 3 0 Ď 11 2 8 n Ņ 2 8 C " 3 0 \bigcirc \cap 0 0 4 9 0 \wedge West Fore of Beam 3 mistance 4 $\widehat{}$ 11 0 \mathcal{C} 0 5.7 8 11 0 11 1 4 3 • 11 ٠ 0 \sim 0 11 3 12 Ø . 1 14 4 3 . 11 ٥. Ø 0 · •

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| S 1.5cm = 1 Meter | | | | | | | | | | | | | | | | | |
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| E - EAST WALL DPm/100cm2 W-WEST WALL FIXED | | D- 5- | | 0- 5- | | D. 5- | | D S | · · · · · | D- 5- | | 0. 5. | | 5 | | 0- 5- | |
| SOURCE FF: 7272 VALUE: 850 OPM | | 9- 5- | D- 3- | 2- 5- | D- 5- | D- 5- | D- 5- | 0- 5- | D- 5- | D- 5- | 0- 5- | D- 5- | P- 5- | D- 5- | P- 5- | D- 5- | D- 5- |
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PAGE 4 OF 10

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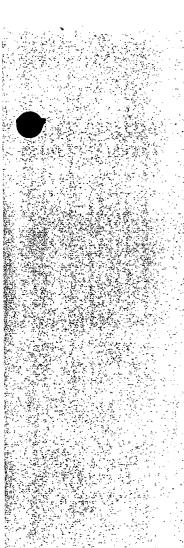
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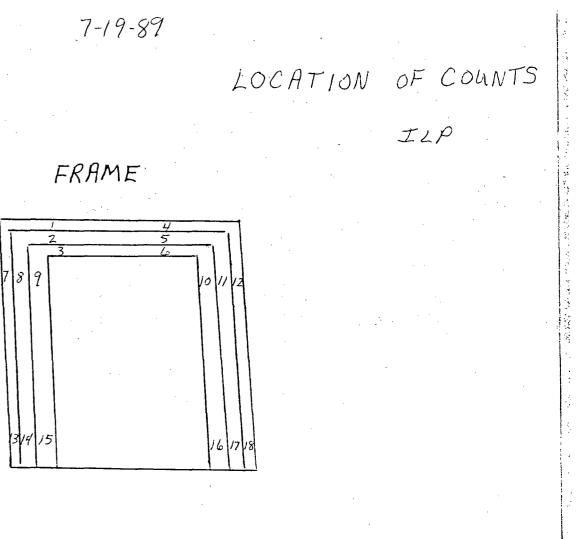
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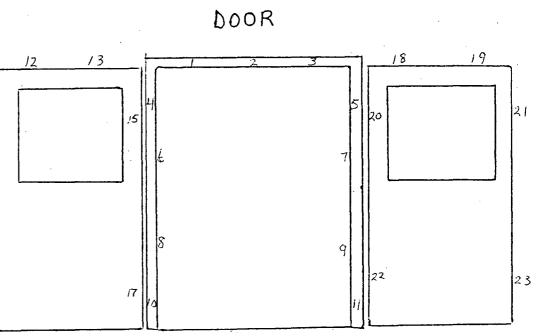
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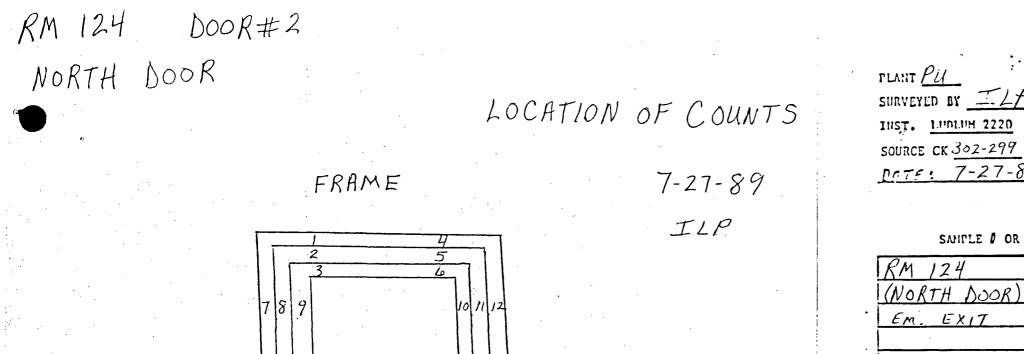




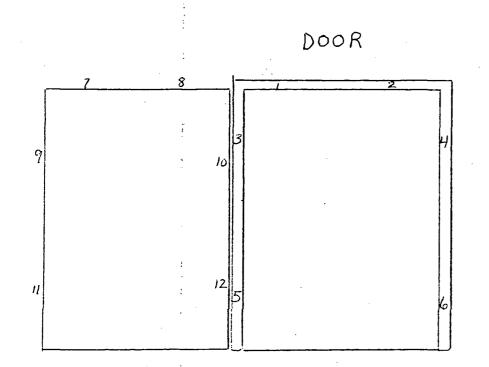
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| PLANT <u>PU</u> AREA <u>12</u> SURVEYED BY <u><u><u><u></u></u><u><u><u></u></u><u><u></u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u></u> | 4 | AS CT | с / <u>Я</u> | 3600115 A Black AVC. 26 | | PLANT / | PU . | area <u>124</u> | <u> </u> | | SC / _ <u>&</u> | <u>3600/15</u> A R A A |
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| OURCE CK 302-299 BKG. 1 (PM) | | BKC. 3 | | | |
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| 1:7-27-89 Source #: 112 | · · READIN | SCS IN DPH/10 | 00 cm ² | <u><u><u> </u></u></u> | 8-3-89 Source #: 6816 |
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| • | | IS IN DPM/ | 100 cm ⁴ | |
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