

SAFETY LIGHT CORPORATION

4150-A OLD BERWICK ROAD, BLOOMSBURG, PA 17815

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6 February 1987

U.S. Nuclear Regulatory Commission
Region I
631 Park Ave.
King of Prussia, PA 19406

ATTN: Dr. J. Piccone.

Dear Dr. Piccone:

Please find enclosed the requested information concerning environmental sampling data currently being conducted under USNRC License No. 37-00030-02. Drawing No. 4003-80, Safety Light Corporation Building Site Drawing, shows the names and locations of the companies currently occupying space as well as legend numbers that correspond to information sheets on environmental data.

Please feel free to contact the undersigned or Dr. John MacHutchin, Radiation Safety Officer, if any information requires further clarification.

Very truly yours,
SAFETY LIGHT CORPORATION


Jack Miller
President

SAFETY LIGHT CORPORATION

LEGEND FOR MARKED-UP DWG. NO. 4003-80

- (1) SLC PROCESSING BUILDING - Numerous & frequent H3 contamination surveys conducted routinely - records examined during USNRC inspections. Bldg. posted & kept locked during off-hours.
- (2) FORMER GARAGE (FLOOR ONLY REMAINS) - Dirt floor section contaminated (200-2000 DPM/100 sq.cm. removable alpha; 0-1 mrh beta-gamma @ 2"). Cement floor section also contaminated (0.3 - 2 mhr beta-gamma @ 2"). General area posted (See Item 3 below).
- (3) CONTAMINATED SOIL AREA - Soil W & SW of former bldg. contaminated (0 - 2 mrh @ 2"). Area posted.
- (4) METAL SILO (ABOVE GROUND) - Used for storage of contaminated equipment. Interior contamination level varies with contents of bldg. Entry controlled by Health Physics - Bldg. posted & locked.
- (5) SOLID WASTE BUILDING - Surveyed routinely for H3 contamination - records examined during USNRC inspections. Short periods of occupancy only - entry controlled by Health Physics. Bldg. posted & locked during off-hours.
- (6) OLD HOUSE - Used only for storage of misc. low-level contaminated items. Low level removable alpha contamination (200-1000 dpm/100 sq.cm.) present in some interior areas. Bldg. posted and kept locked.
- (7) LIQUID WASTE BUILDING - Surveyed routinely for H3 contamination - records examined during USNRC inspections. Short periods of occupancy - entry controlled by Health Physics. Bldg. posted & kept locked during off-hours.
- (8) 8' X 8' BUILDING - Used for storage of some contaminated equipment. Surveyed routinely for interior removable contamination & exterior radiation - records available for USNRC inspections. Bldg. posted and kept locked.
- (9) UTILITY BUILDING - Used for storage of non-radioactive supplies. Bldg. was decontaminated previously, but is surveyed routinely for removable contamination - records are kept available for USNRC inspections. Bldg. posted & locked during off-hours.
- (10) FORMER RADIUM VAULT - Bldg. not used. Exterior radiation surveys conducted routinely (0-3 mrh beta-gamma @ 2"). Bldg. sealed and posted.
- (11) MACHINE SHOP - Former USRC H3 bldg. Surveyed routinely for removable H3 contamination (since sealed former metal pipe exhaust lines presumably contain some residual H3 contamination). Infrequently find an isolated spot of very low level removable contamination. Bldg. posted & kept locked during off-hours.

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(12) CONTAMINATED SOIL AREA - Area shows some detectable above ground beta-gamma contamination (0 - 0.6 mrh @ 2"). Area is posted.

(13 thru 16) CONTAMINATED SOIL AREAS - Detectable levels of beta-gamma soil contamination (most likely one or more of Cs(137), Sr(90) and Ra(226)) have been found generally along the old, filled-in canal bed (and, to a lesser degree, in some areas along the lower plateau). Various areas are posted.

(17) FORMER USRC DISPOSAL PITS (2) - Detectable levels of beta-gamma radiation (0 - 0.5 mrh @ 2" above soil surface) are present within this fenced area. The area is posted & kept locked. Entry is controlled by Health Physics.

(18) EAST LAGOON - Periodic underwater surveys have shown varying levels of gamma contamination (0 - 4 mrh at soil surface) in the lagoon bed. Over the period 8/85 - 8/86, H3 levels in the water presently have ranged from 0 - 25,000 pCi/L.

(19) CARPENTER SHOP - One area of interior wall shows 140-170 mhr beta-gamma (beta window of survey meter open) at contact. This area has a rope barrier & is posted. Beta-gamma field at barrier ranges from 0.1 - 0.7 mrh. Removable beta-gamma contamination levels in the area range from 0 - 4,500 DPM/100 sq.cm. This area is not normally occupied.

(19A) WFLL HOUSE - Dirt floor in this area is alpha contaminated. Area is posted & non-occupied.

(20) FORMER Cs(137) ION EXCHANGE HUT - Hottest spot on exterior wall shows 1.5 - 1.8 mrh beta-gamma at contact. Area is posted & kept locked - entry is controlled by Health Physics.

(21) CONTAMINATED SOIL AREA (UNDER LOADING DOCK) - Highest radiation level at soil surface reads 7 mrh beta-gamma at contact. Area is posted.

(22) CEMENT TROUGH/SEWER GRATE - Radiation field in contact with grate surface is 4 - 5 mrh beta-gamma. Area is posted.

(23A) FORMER HAND APPLICATION AREAS (2ND FLOOR; Ra(226) & H(3) PAINTS) - Attic above this area contains Ra(226)-contaminated ductwork and rafters, underside of roof, etc. show some alpha contaminated. Entry door to attic area is posted.

(23B) MAIN BUILDING (1ST FLOOR) - Several isolated areas show beta-gamma levels up to 0.3 mrh @ contact. These areas not normally occupied. An old drain line used in connection with past Sr(90) operations, exists under concrete floor in one area - no detectable radiation found above this floor.

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(24A & 24B) PLANT SIDEWALK AREAS - Past surveys of outdoor sidewalks have indicated isolated areas of detectable contamination, e.g. at contact: 0 - 1.5 mrh beta-gamma & 0 - 4,000 cpm alpha.

(25) FORMER PERSONNEL OFFICE BUILDING - Old well in basement apparently once used for storage or disposal of some type of radioactive material (no record of contents has been found). This well is capped with concrete - beta-gamma levels at cap surface range from 0 - 0.3 mrh. Bldg. is not occupied. Basement area is posted.

(26) FORMER PLANT DUMP (BETWEEN LAGOONS) - Beta-gamma readings at soil surface range from 0 - 0.5 mrh beta-gamma (beta window open). No apparent associated gamma radiation present. Area is posted.

(27) FORMER PIPE SHOP - Removable alpha and beta-gamma contamination exists on many interior surfaces - alpha contamination range is 0 - 150 cpm; alpha-beta-gamma contamination ranges from 0 - 70,000 dpm/100 sq.cm. Area is posted and locked - bldg. is not occupied.

(28) WEST LAGOON - Normally contains no water. Surveys indicate no detectable levels of contamination at soil surface.

(29) FORMER PLANT DUMP - After discovery of this area in 1970, some 78 X 55 gal. drums of contaminated soil, etc. were removed and shipped to an approved radwaste disposal site. Surface radiation levels at contact ranges from 0 - 2 mrh beta-gamma. Area is roped & posted. Highest reading at barrier rope is 0.5 mrh beta-gamma.

(30) ETCHING BUILDING - Subfloor of former shipping room (and possibly the soil beneath this) shows removable alpha contamination levels of 0 - 2000 dpm/100 sq.cm. No detectable beta-gamma radiation exists above the floor surface. Area is posted. Area is not occupied.

Former H3 Watch Dial Screening Room - This area was partially decontaminated earlier, but some removable H3 contamination still remains in some areas, e.g. 0 - 115,000 dpm/100 sq.cm. Residual removable H3 contamination in former exhaust system filter banks has been reduced to the 0 - 5,000 dpm/100 sq.cm. range; interior surfaces of plenum chamber now show no detectable H3 contamination. Residual H3 contamination levels existing inside exhaust ducts proper are not known at this time. Area is posted & not occupied.

Random wipe tests made in the Etching Building attic show removable alpha contamination levels in the 0 - 1000 dpm/100 sq.cm. range.

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The former maintenance area (wire mesh enclosed) has a 12" thick concrete floor poured over an old Ra(226) contaminated drain line - no detectable radiation exists above this floor. Area is not occupied.

(31) FORMER H3 EXIT SIGN ASSEMBLY AREA - This area of the Etching Building shows no detectable levels of residual contamination; however, a large number of old metal die assemblies are stored here, many of which show detectable levels of alpha-beta-gamma contamination. Area is posted & not occupied.

(32A - 32D) DRAIN LINES USED FOR PREVIOUS USRC OPERATIONS - These presently unused drain lines presumably still contain varying degrees of contamination residual from previous operations.