

S. F. Appliances Limited
613 W. Washington Street
Morris, Illinois 60450

7
February 9, 1986

William J. Adam, Ph.D.
U. S. Nuclear Regulatory Commission
Region III
Materials Licensing Section
799 Roosevelt Road
Glen Ellyn, IL 60137

Re: Control No. 381847
Pending Renewal of License No. STB-258

Dear Dr. Adam:

This is in response to your telephone call requesting additional information concerning our renewal application for license #STB-258 and follow-up letter dated 12/15/86.

1. Prevention of Leaching to Off-Site Areas:

After removal of contaminated soil from off-site locations to the S.F. Appliances property, plastic sheeting was placed over the exposed vertical wall and covered with clean fill dirt to prevent leaching of contamination to off-site areas. Potential contamination from run-off from downspouts will be avoided by directing flow from downspouts onto S.F. Appliances property.

2. Radiation Survey:

Attached is a survey of the off-site areas which were decontaminated.

Thank you and we look forward to receiving a renewed license from your agency.

Sincerely,

Bonnie J. Joneson
Radiation Safety Officer

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REG3 LIC40
STB-0258

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RADIATION SURVEY

Date: 11/17/87

Locations: See sketch

Surveyed by: Stan Buhr

Instruments used:

Ludlum Model 3 portable survey meter with NaI scintillation detector

Nuclear Chicago scaler with NaI well-type scintillation detector

- The portable survey instrument was used to survey soil at surface. After removal of contaminated soil, all off-site areas (see surveyed areas on sketch) were at background radiation levels, 1100 cpm, at surface.
- Soil samples at various locations in the decontaminated areas were collected and assayed in the well counter. All sample results were less than 10 pCi/g. Sensitivity of instrument is approximately 3 pCi/g.

Sample results:

<u>Sample Location</u>	<u>cpm/ 8 grams</u>	<u>cpm/g</u>	<u>pCi/g</u>
1	91	4.9	4.0
2	117	8.1	6.6
3	112	7.5	6.1
4	99	5.9	4.9
5	133	10.1	8.2
6	121	8.6	7.0
7	103	6.4	5.2
8	80	3.5	2.9
9	91	4.9	4.0
10	126	9.3	7.5
11	96	5.5	4.5
12	68	2.0	3.0
13	122	8.8	7.1
14	70	2.2	3.0
15	93	5.1	4.2
16	117	8.1	6.6
17	116	8.3	6.7
18	94	5.3	4.3
19	91	4.9	4.0
20	124	9.0	7.3
21	76	3.0	3.0

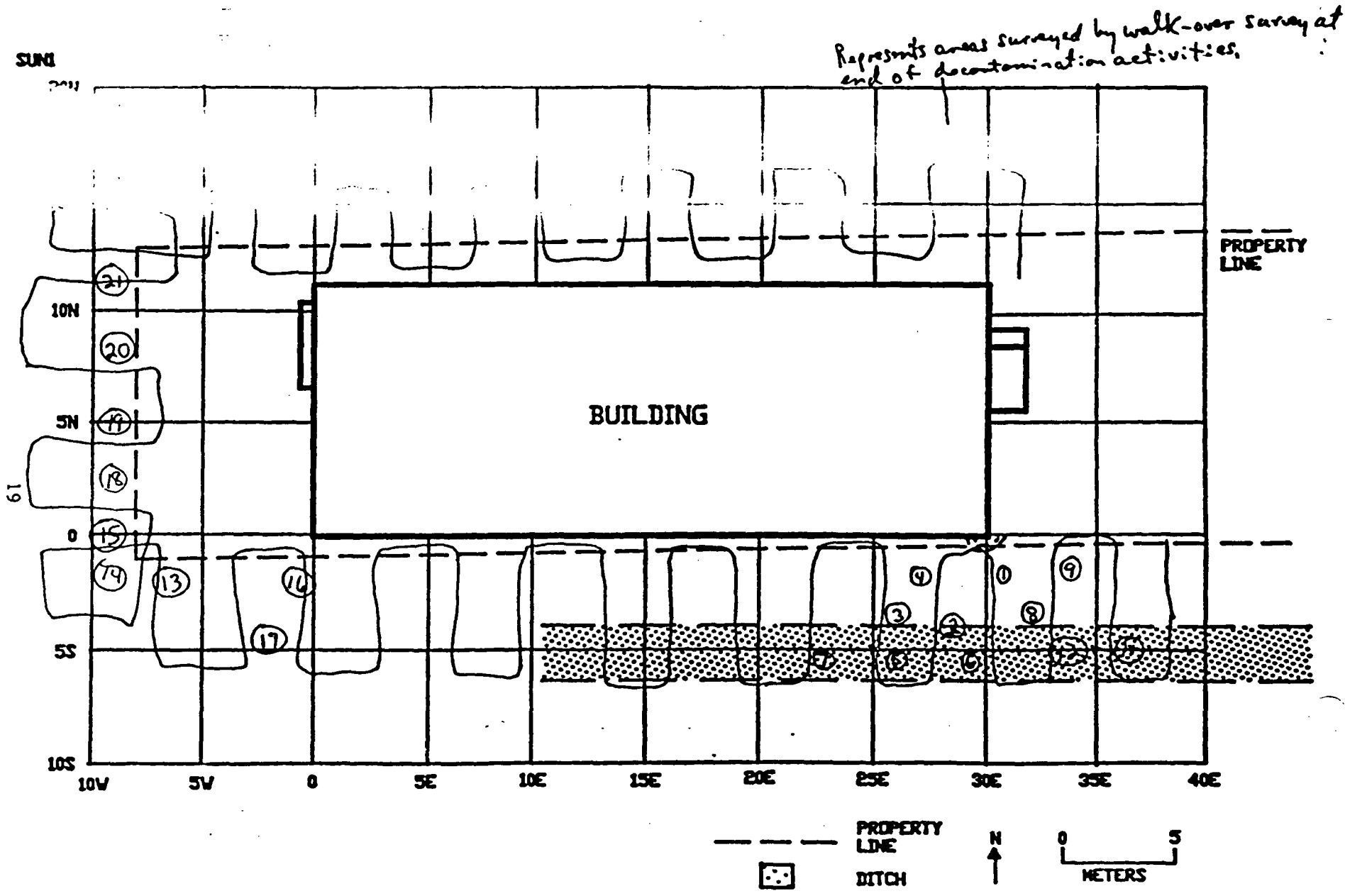


FIGURE 7: Area Surrounding the Sunflame Facility, Indicating Property Boundaries and the Grid System Established for Survey Reference.