01-0553

Corporate Environmental Programs
General Electric Company
100 Woodlawn Avenue, Pittsfield, MA 01201

*Transmitted via Federal Express*

March 10, 2003

Bryan Olson
EPA Project Coordinator
U.S. Environmental Protection Agency, Region 1
One Congress Street, Mail Code HBT
Boston, MA 02203-2201

**Re: GE-Pittsfield/Housatonic River Site**
**30s Complex (GECD120)**
**Characterization of Building 33/34 Area Building Materials**

Dear Mr. Olson:

In a letter dated December 20, 2002, the General Electric Company (GE) presented a proposal to the United States Environmental Protection Agency (EPA) for supplemental building material and soil sampling related to Buildings 33, 33-A, 33-E, 33-X, and 34 (the Building 33/34 Area) at GE's Pittsfield, Massachusetts facility. The proposed investigations (approved by EPA in a letter dated January 13, 2002) were identified to support the Pittsfield Economic Development Authority (PEDA) in its future planning and re-development of the Building 33/34 Area. Specifically, for the soils beneath the Building 33/34 area, the primary objective of the proposed investigations was to supplement the existing data and determine the need for soil-related response actions within the 30s Complex Removal Action Area. For the building materials, the proposed activities were identified to further characterize the materials so as to assess whether and to what extent the building demolition debris could be used as backfill/grading materials within the Building 33/34 Area and possibly at other locations within the GE facility.

This letter summarizes the results of the recent supplemental building material characterization activities and, in combination with the data available from prior investigations, an evaluation of the potential for future use of the demolition debris as backfill material. Given the schedule of the ongoing demolition activities related to the Building 33/34 Area, this letter evaluates only the building material sampling results. A future letter presenting the results of the supplemental soil sampling and related evaluations will be submitted to EPA in the next few weeks.

## I. Supplemental Building Characterization Activities

Between January 16 and February 10, 2003, a total of 27 building samples were collected by Blasland, Bouck & Lee, Inc. (BBL) and analyzed by CT&E Environmental Services (CT&E) for (depending on location) polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and/or inorganic compounds. Prior to collection, sample locations were identified during a field reconnaissance with EPA and Massachusetts Department of Environmental Protection (MDEP) personnel. In general, the supplemental sampling locations were selected to provide distribution across the Building 33/34 Area, taking into account the available data set and other observations during the field reconnaissance. The

sampling results for the 27 supplemental samples are provided in Tables 1 and 2 for the data from the Building 33 Complex and Building 34 Complex, respectively. Sample locations are depicted on sketches included as Attachment A to this letter. Historical data and sampling locations are provided in Attachment B to this letter.

## II. Data Evaluation Procedures

The recently collected supplemental data, in combination with the results of previous building characterization activities, have been evaluated in accordance with the procedures described in GE's December 20, 2002 letter, as approved by EPA. This section summarizes those evaluation procedures relative to the sampling results, while Part III of this letter presents the evaluation results.

For PCBs, the evaluation of the building characterization data first involved the calculation of an arithmetic average concentration of all of the available PCB data. Under the approved procedures, if the arithmetic average concentration of the PCB data is below 25 ppm (the applicable Performance Standard for PCBs in soil for the 0- to 1-foot depth increment within the 30s Complex), the building demolition debris would be suitable for potential use as backfill/grading material. (As discussed in Part III below, the PCB arithmetic averages for the Building 33/34 Area are well below 25 ppm.) In addition, in its January 13, 2003 approval letter, EPA indicated that any discrete PCB sample results above 125 ppm would require delineation to identify the area exceeding this limit, and that the material obtained from that area would require disposal at either the Building 71 On-Plant Consolidation Area or an appropriate off-site permitted facility.

The evaluation of VOCs, SVOCs, and metals in the building materials generally followed the procedures described in Attachment F to the *Statement of Work for Removal Actions Outside the River* (SOW) (Protocols for the Evaluation of Non-PCB Constituents in Soil), as well as the *Soil Cover/Backfill Characterization Plan* contained in the *Project Operations Plan* (POP). Initially, the maximum concentrations of these constituents were compared with the applicable EPA Region 9 Preliminary Remediation Goals (PRGs), using the industrial PRGs listed in Exhibit F-1 to Attachment F to the SOW. For certain constituents for which Region 9 PRGs do not exist, surrogate PRGs, based on Region 9 PRGs for similar chemicals, were be used, as described in Attachment F to the SOW. If the maximum concentration of each detected constituent is below the applicable PRG, the material would be considered suitable for use without limitation.

If the building materials contain VOCs, SVOCs, or metals at concentrations that exceed the PRGs, GE indicated that it would further evaluate those constituents by calculating arithmetic average concentrations of the constituents in the building materials and comparing those average concentrations to the Method 1 S-2 soil standards set forth in the Massachusetts Contingency Plan (MCP). If the average concentrations of those constituents that exceeded the PRGs are below their respective MCP Method 1 S-2 soil standards, the materials would be considered suitable for re-use in the Building 33/34 Area.

## III. Summary of Evaluation Results

### A. Building 33 Complex

For the 15 supplemental building material samples, the PCB results range from 0.106 ppm to 15.4 ppm. These results were incorporated with the previous sampling results to provide an overall data set of 71 samples for Buildings 33, 33A, 33X, 33N-Ext, and 33E (the Building 33 Complex). For the 71 samples, total PCB concentrations ranged from non-detect, at 31 locations, to a maximum concentration of 72 ppm, at two separate locations. The arithmetic average PCB concentration for the Building 33 Complex is 4.8 ppm.

A total of 21 samples were collected from the Building 33 Complex and analyzed for VOCs, SVOCs, and inorganics. For all of the detected constituents which have PRGs, the maximum concentrations (as well as one-half of the detection limit for non-detect samples), were below their respective PRGs, with the exception of 1,2,3-trichloropropane, benzo(a)pyrene, and arsenic. Three other detected constituents (2-butanone, thionazin, and thallium) do not have PRGs and were therefore also retained for further evaluation. For five of these six retained constituents, the maximum detected concentration of each constituent was well below its respective MCP Method 1 S-2/GW-3 soil standard, such that it was not necessary to calculate an arithmetic average concentration to confirm the material's potential suitability as backfill/grading material. For benzo(a)pyrene, one of the sample results exceeded its MCP Method 1 S-2/GW-3 Soil Standard. Therefore, GE proceeded to compare the arithmetic average of the 21 benzo(a)pyrene results to its applicable MCP Method 1 standard. The arithmetic average for benzo(a)pyrene is 0.21 ppm, which is well below the MCP Method 1 S-2/GW-3 soil standard of 0.7 ppm.

### B. Building 34 Complex

For the two supplemental samples analyzed for PCBs, the results are 0.011 ppm and 0.20 ppm (0.25 ppm in a duplicate sample). These results were incorporated with the previous sampling results to provide an overall data set of 19 samples for Building 34. For the 19 samples, total PCB concentrations ranged from non-detect, at nine locations, to a maximum concentration of 45 ppm. The calculated arithmetic average PCB concentration for Building 34 is 6.45 ppm.

For the five samples collected from Building 34 and analyzed for VOCs, SVOCs, and inorganics, the maximum concentrations of all detected constituents (as well as one-half of the detection limit for non-detect samples) were below their respective PRGs, except for arsenic. However, for arsenic, the maximum detected concentration was well below its respective MCP Method 1 S-2/GW-3 soil standard, such that it was not necessary to calculate an arithmetic average concentration to confirm the material's potential suitability as backfill/grading material.

## IV. Summary

Based on the analytical results from the building material samples collected from the Building 33/34 Area, the demolition debris are suitable for use as backfill materials since the arithmetic average PCB concentration for each building complex was less than 25 ppm and no discrete sample contained PCBs at concentrations greater than 125 ppm. Further, the maximum detected concentrations and/or arithmetic average concentration for all Appendix IX+3 VOC, SVOC and inorganic constituents were below their respective PRGs or MCP Method 1 S-2/GW-3 soil standards, respectively.

In addition, TCLP sample results from composite samples collected during the 1999 sampling event were reviewed. Those results indicate that this material would not constitute a characteristic hazardous waste under RCRA.

If you have any questions, please contact me.

Sincerely,

John F. Novotny, P.E.
Manager-Facilities and Brownfields Programs
V:\GE_Pittsfield_CD_20s30s40s\Reports and Presentations\16632196.doc

Enclosures

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Public Information Repositories
GE Internal Repository

# Tables

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

**TABLE 1**
**PCB AND APPENDIX IX+3 DATA**

**BUILDING 33 BUILDING SAMPLING**
**20s, 30s, 40s COMPLEX**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Sample ID:<br>Matrix:<br>Sample Depth(Feet):<br>Parameter Date Collected: | EPA Region 9 Industrial PRGs | MCP Method 1 S-2/GW-3 Standard | 33-1-CF-1 Conc Floor 0-0.21 01/23/03 | 33-2-CF-11 Conc Floor 0-0.67 01/23/03 | 33-2-CF-12 Conc Floor 0-0.67 01/23/03 | 33-2-CF-12 Conc Floor 0-0.67 02/10/03 | 33A-BW-1 Brick Wall 0-0.5 01/23/03 |
|---|---|---|---|---|---|---|---|
| **Volatile Organics** | | | | | | | |
| 1,2,3-Trichloropropane | 0.0031 | 1,000 | ND(0.0050) | ND(0.0050) | ND(0.0050) | NS | ND(0.0050) |
| 1,2-Dibromo-3-chloropropane | 2.10 | NA | ND(0.0050) | ND(0.0050) | ND(0.0050) | NS | ND(0.0050) |
| 2-Butanone | None | 40.0 | ND(0.010) | ND(0.010) | ND(0.010) | NS | ND(0.010) |
| Acetone | 6,100 | NA | ND(62) | ND(0.020) | ND(0.020) | NS | ND(0.020) |
| Ethylbenzene | 230 | NA | 4.6 | ND(0.0050) | ND(0.0050) | NS | ND(0.0050) |
| Tetrachloroethene | 16.0 | NA | ND(3.1) | ND(0.0050) | 0.0025 J | NS | ND(0.0050) |
| Toluene | 520 | NA | ND(3.1) | 0.033 | 0.031 | NS | 0.018 |
| Xylenes (total) | 210 | NA | 29 | ND(0.0050) | 0.0066 | NS | ND(0.0050) |
| **PCBs** | | | | | | | |
| Aroclor-1254 | NA | NA | NS | 5.4 | NS | 8.4 | 0.74 |
| Aroclor-1260 | NA | NA | NS | 4.8 | NS | 11 | 0.59 |
| Total PCBs | NA | NA | NS | 10.2 | NS | 19.4 | 1.33 |
| **Semivolatile Organics** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 320 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| 1,2,4-Trichlorobenzene | 1,700 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| 1,2-Dichlorobenzene | 370 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| 2,4-Dimethylphenol | 21,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| 2-Methylnaphthalene | 190 * | 1,000 | ND(0.67) | ND(0.47) | 0.14 J | NS | ND(0.37) |
| Acenaphthene | 28,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| Anthracene | 220,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| Benzo(a)anthracene | 3.60 | NA | ND(0.67) | ND(0.47) | ND(0.67) | NS | ND(0.37) |
| Benzo(a)pyrene | 0.36 | 0.70 | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| Benzo(b)fluoranthene | 3.60 | NA | ND(0.67) | ND(0.47) | ND(0.67) | NS | ND(0.37) |
| Benzo(k)fluoranthene | 36.0 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| bis(2-Ethylhexyl)phthalate | 210 | NA | 2.2 | ND(0.33) | 0.65 | NS | ND(0.33) |
| Chrysene | 360 | NA | ND(0.67) | ND(0.47) | ND(0.67) | NS | ND(0.37) |
| Dibenzofuran | 3,200 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| Di-n-Butylphthalate | 110,000 | NA | 100 E | ND(0.47) | ND(0.67) | NS | ND(0.37) |
| Fluoranthene | 37,000 | NA | 0.21 J | 0.66 | 0.46 J | NS | ND(0.37) |
| Fluorene | 22,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| Hexachlorobenzene | 1.90 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| Indeno(1,2,3-cd)pyrene | 3.60 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| Isophorone | 3,200 | NA | 14 E | 2.8 | ND(0.67) | NS | ND(0.37) |
| Naphthalene | 190 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| Pentachlorobenzene | 860 | NA | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| Phenanthrene | 190 * | 100 | ND(0.67) | 0.40 J | 0.24 J | NS | ND(0.37) |
| Pyrene | 26,000 | NA | ND(0.67) | 0.46 J | 0.36 J | NS | ND(0.37) |
| Thionazin | None | 1,000 | ND(0.33) | ND(0.33) | ND(0.33) | NS | ND(0.33) |
| **Inorganics** | | | | | | | |
| Antimony | 750 | NA | 30.0 | ND(6.00) | ND(6.00) | NS | ND(6.00) |
| Arsenic | 3.00 | 30.0 | ***6.70*** | 2.60 | ***4.30*** | NS | ***3.60*** |
| Barium | 100,000 | NA | 310 | 120 | 92.0 | NS | 52.0 |
| Beryllium | 3,400 | NA | ND(0.500) | ND(0.500) | ND(0.500) | NS | ND(0.500) |
| Cadmium | 930 | NA | 0.740 | ND(0.500) | 0.810 | NS | 0.100 B |
| Chromium | 450 | NA | 58.0 | 19.0 | 38.0 | NS | 7.40 |
| Cobalt | 29,000 | NA | 8.00 | 5.40 | 6.10 | NS | ND(5.00) |
| Copper | 70,000 | NA | 28.0 | 23.0 | 60.0 | NS | 5.20 |
| Lead | 1,000 | NA | 360 | 8.60 | 14.0 | NS | 54.0 |
| Mercury | 560 | NA | ND(0.100) | 0.0260 B | ND(0.100) | NS | 0.0270 B |
| Nickel | 37,000 | NA | 19.0 | 14.0 | 26.0 | NS | ND(4.00) |
| Selenium | 9,400 | NA | 1.10 | 0.720 B | ND(1.00) | NS | ND(1.00) |
| Thallium | None | 30.0 | ND(1.50) | ND(1.50) | ND(1.50) | NS | ND(1.50) |
| Tin | 100,000 | NA | ND(10.0) | 3.60 B | ND(10.0) | NS | 3.00 B |
| Vanadium | 13,000 | NA | 26.0 | 17.0 | 17.0 | NS | 9.50 |
| Zinc | 100,000 | NA | 75.0 | 21.0 | 17.0 | NS | 30.0 |

**TABLE 1**
**PCB AND APPENDIX IX+3 DATA**

**BUILDING 33 BUILDING SAMPLING**
**20s, 30s, 40s COMPLEX**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Sample ID:<br>Matrix:<br>Sample Depth(Feet):<br>Parameter Date Collected: | EPA Region 9 Industrial PRGs | MCP Method 1 S-2/GW-3 Standard | 33A-CF-6 Conc Floor 0-0.58 01/23/03 | 33A-CF-7 Conc Floor 0-0.58 01/23/03 | 33-2-BW-1 Brick Wall 0-0.67 1/24/2003 | 33-2-CF-13 Conc Floor 0-0.5 1/24/2003 | 33-3-BW-4 Brick Wall 0-0.42 1/24/2003 |
|---|---|---|---|---|---|---|---|
| **Volatile Organics** | | | | | | | |
| 1,2,3-Trichloropropane | 0.0031 | 1,000 | ND(0.0050) | ND(0.0050) | ND(0.0050) | 0.0052 | ND(0.0050) |
| 1,2-Dibromo-3-chloropropane | 2.10 | NA | ND(0.0050) | ND(0.0050) | ND(0.0050) | 0.025 | ND(0.0050) |
| 2-Butanone | None | 40.0 | ND(0.010) | ND(0.010) | ND(0.010) | ND(0.010) | ND(0.010) |
| Acetone | 6,100 | NA | 0.010 J | 0.014 J | ND(0.020) | 0.030 | ND(0.020) |
| Ethylbenzene | 230 | NA | ND(0.0050) | ND(0.0050) | ND(0.0050) | ND(0.0050) | ND(0.0050) |
| Tetrachloroethene | 16.0 | NA | ND(0.0050) | ND(0.0050) | ND(0.0050) | 0.011 | ND(0.0050) |
| Toluene | 520 | NA | 0.018 | 0.014 | 0.019 | 0.047 | 0.053 |
| Xylenes (total) | 210 | NA | ND(0.0050) | ND(0.0050) | ND(0.0050) | ND(0.0050) | ND(0.0050) |
| **PCBs** | | | | | | | |
| Aroclor-1254 | NA | NA | NS | 4.2 | NS | 10 | 2.2 |
| Aroclor-1260 | NA | NA | NS | 7.4 | NS | 5.4 | 5.9 |
| Total PCBs | NA | NA | NS | 11.6 | NS | 15.4 | 8.1 |
| **Semivolatile Organics** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 320 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| 1,2,4-Trichlorobenzene | 1,700 | NA | ND(0.33) | ND(0.33) | 0.13 J | ND(0.77) | ND(0.40) |
| 1,2-Dichlorobenzene | 370 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| 2,4-Dimethylphenol | 21,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| 2-Methylnaphthalene | None | 1,000 | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| Acenaphthene | 28,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| Anthracene | 220,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| Benzo(a)anthracene | 3.60 | NA | 0.090 J | ND(0.33) | ND(0.33) | 0.37 J | ND(0.40) |
| Benzo(a)pyrene | 0.36 | 0.70 | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| Benzo(b)fluoranthene | 3.60 | NA | 0.17 J | ND(0.33) | ND(0.33) | 0.24 J | ND(0.40) |
| Benzo(k)fluoranthene | 36.0 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| bis(2-Ethylhexyl)phthalate | 210 | NA | ND(0.33) | ND(0.33) | 0.33 | 1.6 | 0.50 |
| Chrysene | 360 | NA | 0.24 J | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| Dibenzofuran | 3,200 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| Di-n-Butylphthalate | 110,000 | NA | ND(0.33) | ND(0.33) | 0.17 J | ND(0.77) | 0.31 J |
| Fluoranthene | 37,000 | NA | 0.36 | ND(0.33) | 0.090 J | 0.35 J | 0.28 J |
| Fluorene | 22,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| Hexachlorobenzene | 1.90 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| Indeno(1,2,3-cd)pyrene | 3.60 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| Isophorone | 3,200 | NA | ND(0.33) | 1.0 | ND(0.33) | ND(0.77) | ND(0.40) |
| Naphthalene | 190 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| Pentachlorobenzene | 860 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| Phenanthrene | None | 100 | 0.11 J | ND(0.33) | ND(0.33) | 0.25 J | 0.17 J |
| Pyrene | 26,000 | NA | 0.19 J | ND(0.33) | ND(0.33) | 0.42 J | 0.11 J |
| Thionazin | None | 1,000 | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.77) | ND(0.40) |
| **Inorganics** | | | | | | | |
| Antimony | 750 | NA | ND(6.00) | ND(6.00) | ND(6.00) | ND(6.00) | ND(6.00) |
| Arsenic | 3.00 | 30.0 | ***3.90*** | ***3.40*** | ***5.50*** | ***6.70*** | 1.20 |
| Barium | 100,000 | NA | 32.0 | 56.0 | 38.0 | 96.0 | 720 |
| Beryllium | 3,400 | NA | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) | 0.130 B |
| Cadmium | 930 | NA | ND(0.500) | ND(0.500) | 0.130 B | ND(0.500) | ND(0.500) |
| Chromium | 450 | NA | 5.50 | 8.50 | 2.70 | 6.40 | 78.0 |
| Cobalt | 29,000 | NA | ND(5.00) | 5.70 | ND(5.00) | 6.40 | 8.70 |
| Copper | 70,000 | NA | 8.10 | 30.0 | 3.50 | 19.0 | 13.0 |
| Lead | 1,000 | NA | 6.80 | 6.30 | 4.30 | 6.80 | 560 |
| Mercury | 560 | NA | ND(0.100) | ND(0.100) | ND(0.100) | 0.0900 B | ND(0.100) |
| Nickel | 37,000 | NA | 7.20 | 11.0 | ND(4.00) | 11.0 | ND(4.00) |
| Selenium | 9,400 | NA | ND(1.00) | ND(1.00) | ND(1.00) | 0.700 B | ND(1.00) |
| Thallium | None | 30.0 | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Tin | 100,000 | NA | 3.90 B | 3.70 B | 3.10 B | 3.70 B | ND(10.0) |
| Vanadium | 13,000 | NA | 7.80 | 5.90 | 21.0 | 18.0 | 6.10 |
| Zinc | 100,000 | NA | 22.0 | 22.0 | 10.0 | 26.0 | 1500 |

**TABLE 1**
**PCB AND APPENDIX IX+3 DATA**

**BUILDING 33 BUILDING SAMPLING**
**20s, 30s, 40s COMPLEX**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Sample ID:<br>Matrix:<br>Sample Depth(Feet):<br>Parameter Date Collected: | EPA Region 9 Industrial PRGs | MCP Method 1 S-2/GW-3 Standard | 33-3-CF-4 Conc Floor 0-1 1/24/2003 | 33-3-CF-15 Conc Floor 0-0.75 1/24/2003 | 33-3-CF-19 Conc Floor 0-1 1/24/2003 | 33-3-BW-2 Brick Wall 0-0.71 1/28/2003 | 33-3-BW-3 Brick Wall 0-0.1 1/28/2003 |
|---|---|---|---|---|---|---|---|
| **Volatile Organics** | | | | | | | |
| 1,2,3-Trichloropropane | 0.0031 | 1,000 | ND(0.0050) | ND(0.0050) | ND(0.0050) | ND(0.0050) | ND(0.0050) |
| 1,2-Dibromo-3-chloropropane | 2.10 | NA | ND(0.0050) | ND(0.0050) | ND(0.0050) | ND(0.0050) | ND(0.0050) |
| 2-Butanone | None | 40.0 | ND(0.010) | ND(0.010) | ND(0.010) | ND(0.010) | 0.014 |
| Acetone | 6,100 | NA | ND(0.020) | ND(0.020) | ND(0.020) | ND(0.020) | 0.024 |
| Ethylbenzene | 230 | NA | ND(0.0050) | 0.093 | ND(0.0050) | ND(0.0050) | 0.0043 J |
| Tetrachloroethene | 16.0 | NA | 0.0028 J | ND(0.0050) | ND(0.0050) | ND(0.0050) | ND(0.0050) |
| Toluene | 520 | NA | 0.0042 J | 0.022 | 0.0097 | 0.011 | 0.017 |
| Xylenes (total) | 210 | NA | ND(0.0050) | 6.3 | ND(0.0050) | ND(0.0050) | 0.0082 |
| **PCBs** | | | | | | | |
| Aroclor-1254 | NA | NA | NS | NS | 0.37 | 0.082 | 2.1 |
| Aroclor-1260 | NA | NA | NS | NS | 0.70 | 0.044 | 1.1 |
| Total PCBs | NA | NA | NS | NS | 1.07 | 0.126 | 3.2 |
| **Semivolatile Organics** | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 320 | NA | ND(0.53) | 18 | ND(0.57) | ND(0.33) | ND(0.33) |
| 1,2,4-Trichlorobenzene | 1,700 | NA | ND(0.53) | 220 | ND(0.57) | ND(0.33) | ND(0.33) |
| 1,2-Dichlorobenzene | 370 | NA | ND(0.53) | 0.13 J | ND(0.57) | ND(0.33) | ND(0.33) |
| 2,4-Dimethylphenol | 21,000 | NA | ND(0.53) | ND(0.43) | ND(0.57) | ND(0.33) | 0.22 J |
| 2-Methylnaphthalene | None | 1,000 | ND(0.53) | 1.3 | ND(0.57) | ND(0.33) | ND(0.33) |
| Acenaphthene | 28,000 | NA | ND(0.53) | 1.0 | ND(0.57) | ND(0.33) | ND(0.33) |
| Anthracene | 220,000 | NA | ND(0.53) | 0.88 | ND(0.57) | ND(0.33) | ND(0.33) |
| Benzo(a)anthracene | 3.60 | NA | ND(0.53) | 1.6 | ND(0.57) | ND(0.33) | ND(0.33) |
| Benzo(a)pyrene | 0.36 | 0.70 | ND(0.53) | **0.75** | ND(0.57) | ND(0.33) | ND(0.33) |
| Benzo(b)fluoranthene | 3.60 | NA | ND(0.53) | 1.3 | ND(0.57) | ND(0.33) | ND(0.33) |
| Benzo(k)fluoranthene | 36.0 | NA | ND(0.53) | 0.50 | ND(0.57) | ND(0.33) | ND(0.33) |
| bis(2-Ethylhexyl)phthalate | 210 | NA | 0.45 | ND(0.33) | ND(0.33) | ND(0.33) | 0.98 |
| Chrysene | 360 | NA | ND(0.53) | 1.1 | ND(0.57) | ND(0.33) | 0.095 J |
| Dibenzofuran | 3,200 | NA | ND(0.53) | 1.6 | ND(0.57) | ND(0.33) | 0.069 J |
| Di-n-Butylphthalate | 110,000 | NA | ND(0.53) | ND(0.43) | ND(0.57) | ND(0.33) | 0.30 J |
| Fluoranthene | 37,000 | NA | ND(0.53) | 7.9 | ND(0.57) | ND(0.33) | 0.55 |
| Fluorene | 22,000 | NA | ND(0.53) | 0.18 J | ND(0.57) | ND(0.33) | ND(0.33) |
| Hexachlorobenzene | 1.90 | NA | ND(0.53) | ND(0.43) | ND(0.57) | ND(0.33) | ND(0.33) |
| Indeno(1,2,3-cd)pyrene | 3.60 | NA | ND(0.53) | 0.57 | ND(0.57) | ND(0.33) | ND(0.33) |
| Isophorone | 3,200 | NA | 3.8 | 1.7 | 29 | ND(0.33) | ND(0.33) |
| Naphthalene | 190 | NA | ND(0.53) | 0.89 | ND(0.57) | ND(0.33) | ND(0.33) |
| Pentachlorobenzene | 860 | NA | ND(0.53) | 15 | ND(0.57) | ND(0.33) | ND(0.33) |
| Phenanthrene | None | 100 | ND(0.53) | 13 | ND(0.57) | ND(0.33) | 0.76 |
| Pyrene | 26,000 | NA | ND(0.53) | 4.9 | ND(0.57) | ND(0.33) | 0.17 J |
| Thionazin | None | 1,000 | ND(0.53) | 2.6 | ND(0.57) | ND(0.33) | ND(0.33) |
| **Inorganics** | | | | | | | |
| Antimony | 750 | NA | ND(6.00) | ND(6.00) | ND(6.00) | ND(6.00) | ND(6.00) |
| Arsenic | 3.00 | 30.0 | ***4.60*** | ***4.20*** | 2.20 | 2.40 | ***3.60*** |
| Barium | 100,000 | NA | 42.0 | 47.0 | 52.0 | 130 | 2000 |
| Beryllium | 3,400 | NA | ND(0.500) | ND(0.500) | ND(0.500) | 0.130 B | ND(0.500) |
| Cadmium | 930 | NA | ND(0.500) | 0.820 | ND(0.500) | ND(0.500) | 0.720 |
| Chromium | 450 | NA | 12.0 | 12.0 | 9.00 | 14.0 | 120 |
| Cobalt | 29,000 | NA | ND(5.00) | 7.90 | 6.70 | ND(5.00) | 5.70 |
| Copper | 70,000 | NA | 16.0 | 19.0 | 18.0 | 5.70 | 14.0 |
| Lead | 1,000 | NA | 6.50 | 3.60 | 1.80 | 57.0 | 660 |
| Mercury | 560 | NA | ND(0.100) | 0.0250 B | ND(0.100) | ND(0.100) | ND(0.100) |
| Nickel | 37,000 | NA | 13.0 | 16.0 | 8.60 | 4.80 | 9.40 |
| Selenium | 9,400 | NA | 0.570 B | ND(1.00) | ND(1.00) | 0.590 B | ND(1.00) |
| Thallium | None | 30.0 | ND(1.50) | ND(1.50) | ND(1.50) | 1.20 B | 1.80 |
| Tin | 100,000 | NA | 3.60 B | 3.70 B | 3.40 B | 3.80 B | 4.00 B |
| Vanadium | 13,000 | NA | 10.0 | 29.0 | 19.0 | 9.80 | 12.0 |
| Zinc | 100,000 | NA | 19.0 | 86.0 | 16.0 | 43.0 | 300 |

TABLE 1
PCB AND APPENDIX IX+3 DATA

BUILDING 33 BUILDING SAMPLING
20s, 30s, 40s COMPLEX
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in dry weight parts per million, ppm)

| Sample ID: / Matrix: / Sample Depth(Feet): / Parameter / Date Collected: | EPA Region 9 Industrial PRGs | MCP Method 1 S-2/GW-3 Standard | 33-3-CF-18 Conc Floor 0-1 1/28/2003 | 33-3-CF-20 Conc Floor 0-1 1/28/2003 | 33-3-CF-21 Conc Floor 0-1 1/28/2003 | 33X-1-BW-2 Brick Wall 0-0.58 1/28/2003 |
|---|---|---|---|---|---|---|
| **Volatile Organics** | | | | | | |
| 1,2,3-Trichloropropane | 0.0031 | 1,000 | ND(0.0050) | ND(0.0050) | ND(0.0050) | ND(0.0050) |
| 1,2-Dibromo-3-chloropropane | 2.10 | NA | ND(0.0050) | ND(0.0050) | ND(0.0050) | ND(0.0050) |
| 2-Butanone | None | 40.0 | ND(0.010) | ND(0.010) | ND(0.010) | ND(0.010) |
| Acetone | 6,100 | NA | ND(0.020) | ND(0.020) | ND(0.020) | ND(0.020) |
| Ethylbenzene | 230 | NA | 0.0059 | ND(0.0050) | 0.0032 J | ND(0.0050) |
| Tetrachloroethene | 16.0 | NA | ND(0.0050) | ND(0.0050) | ND(0.0050) | 0.0049 J |
| Toluene | 520 | NA | 0.011 | 0.024 | 0.023 | 0.013 |
| Xylenes (total) | 210 | NA | 0.060 | 0.019 | 0.044 | ND(0.0050) |
| **PCBs** | | | | | | |
| Aroclor-1254 | NA | NA | 1.0 | 0.39 | 0.23 | 0.072 |
| Aroclor-1260 | NA | NA | 1.8 | 0.34 | 0.35 | 0.034 |
| Total PCBs | NA | NA | 2.8 | 0.73 | 0.58 | 0.106 |
| **Semivolatile Organics** | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 320 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| 1,2,4-Trichlorobenzene | 1,700 | NA | ND(0.33) | 0.13 J | ND(0.33) | ND(0.33) |
| 1,2-Dichlorobenzene | 370 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| 2,4-Dimethylphenol | 21,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| 2-Methylnaphthalene | None | 1,000 | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Acenaphthene | 28,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Anthracene | 220,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Benzo(a)anthracene | 3.60 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Benzo(a)pyrene | 0.36 | 0.70 | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Benzo(b)fluoranthene | 3.60 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Benzo(k)fluoranthene | 36.0 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| bis(2-Ethylhexyl)phthalate | 210 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Chrysene | 360 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Dibenzofuran | 3,200 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Di-n-Butylphthalate | 110,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Fluoranthene | 37,000 | NA | ND(0.33) | ND(0.33) | 0.084 J | ND(0.33) |
| Fluorene | 22,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Hexachlorobenzene | 1.90 | NA | ND(0.33) | 0.18 J | ND(0.33) | ND(0.33) |
| Indeno(1,2,3-cd)pyrene | 3.60 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Isophorone | 3,200 | NA | 0.51 | ND(0.33) | 0.16 J | ND(0.33) |
| Naphthalene | 190 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Pentachlorobenzene | 860 | NA | ND(0.33) | 1.6 | ND(0.33) | ND(0.33) |
| Phenanthrene | None | 100 | 0.072 J | ND(0.33) | ND(0.33) | ND(0.33) |
| Pyrene | 26,000 | NA | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| Thionazin | None | 1,000 | ND(0.33) | ND(0.33) | ND(0.33) | ND(0.33) |
| **Inorganics** | | | | | | |
| Antimony | 750 | NA | ND(6.00) | ND(6.00) | ND(6.00) | ND(6.00) |
| Arsenic | 3.00 | 30.0 | ***3.50*** | ***3.90*** | ***3.40*** | ***3.50*** |
| Barium | 100,000 | NA | 59.0 | 82.0 | 54.0 | 56.0 |
| Beryllium | 3,400 | NA | ND(0.500) | ND(0.500) | ND(0.500) | ND(0.500) |
| Cadmium | 930 | NA | 0.700 | ND(0.500) | 0.610 | ND(0.500) |
| Chromium | 450 | NA | 17.0 | 16.0 | 11.0 | 10.0 |
| Cobalt | 29,000 | NA | 9.40 | 6.10 | 5.80 | ND(5.00) |
| Copper | 70,000 | NA | 32.0 | 11.0 | 15.0 | 11.0 |
| Lead | 1,000 | NA | 3.10 | 42.0 | 3.30 | 7.90 |
| Mercury | 560 | NA | ND(0.100) | ND(0.100) | ND(0.100) | ND(0.100) |
| Nickel | 37,000 | NA | 17.0 | 11.0 | 9.80 | 6.40 |
| Selenium | 9,400 | NA | 0.730 B | ND(1.00) | 0.680 B | 0.600 B |
| Thallium | None | 30.0 | ND(1.50) | ND(1.50) | ND(1.50) | ND(1.50) |
| Tin | 100,000 | NA | 4.20 B | 3.80 B | 3.90 B | 3.90 B |
| Vanadium | 13,000 | NA | 30.0 | 12.0 | 13.0 | 15.0 |
| Zinc | 100,000 | NA | 28.0 | 35.0 | 26.0 | 12.0 |

**TABLE 1**
**PCB AND APPENDIX IX+3 DATA**

**BUILDING 33 BUILDING SAMPLING**
**20s, 30s, 40s COMPLEX**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Sample ID:<br>Matrix:<br>Sample Depth(Feet):<br>Parameter Date Collected: | EPA Region 9 Industrial PRGs | MCP Method 1 S-2/GW-3 Standard | 33X-1-CF-6 Conc Floor 0-1 1/28/2003 | 33X-1-CF-10 Conc Floor 0-1 1/28/2003 | 33X-1-CF-9 Conc Floor 0-0.58 1/31/2003 |
|---|---|---|---|---|---|
| **Volatile Organics** | | | | | |
| 1,2,3-Trichloropropane | 0.0031 | 1,000 | ND(0.0050) [ND(0.0050)] | ND(0.0050) | ND(0.0050) |
| 1,2-Dibromo-3-chloropropane | 2.10 | NA | ND(0.0050) [ND(0.0050)] | ND(0.0050) | ND(0.0050) |
| 2-Butanone | None | 40.0 | ND(0.010) [ND(0.010)] | ND(0.010) | ND(0.010) |
| Acetone | 6,100 | NA | 0.011 J [ND(0.020)] | ND(0.020) | ND(0.020) |
| Ethylbenzene | 230 | NA | ND(0.0050) [ND(0.0050)] | ND(0.0050) | ND(0.0050) |
| Tetrachloroethene | 16.0 | NA | 0.0027 J [ND(0.0050)] | ND(0.0050) | ND(0.0050) |
| Toluene | 520 | NA | 0.021 [0.0087] | 0.026 | 0.056 |
| Xylenes (total) | 210 | NA | ND(0.0050) [ND(0.0050)] | ND(0.0050) | ND(0.0050) |
| **PCBs** | | | | | |
| Aroclor-1254 | NA | NA | NS | 2.8 | 0.15 |
| Aroclor-1260 | NA | NA | NS | 4.9 | 0.22 |
| Total PCBs | NA | NA | NS | 7.7 | 0.37 |
| **Semivolatile Organics** | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 320 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| 1,2,4-Trichlorobenzene | 1,700 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| 1,2-Dichlorobenzene | 370 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| 2,4-Dimethylphenol | 21,000 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| 2-Methylnaphthalene | None | 1,000 | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Acenaphthene | 28,000 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Anthracene | 220,000 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Benzo(a)anthracene | 3.60 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Benzo(a)pyrene | 0.36 | 0.70 | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Benzo(b)fluoranthene | 3.60 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Benzo(k)fluoranthene | 36.0 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| bis(2-Ethylhexyl)phthalate | 210 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.33) |
| Chrysene | 360 | NA | 0.12 J [0.068 J] | 0.11 J | ND(0.40) |
| Dibenzofuran | 3,200 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Di-n-Butylphthalate | 110,000 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Fluoranthene | 37,000 | NA | 0.38 [0.20 J] | 0.33 J | ND(0.40) |
| Fluorene | 22,000 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Hexachlorobenzene | 1.90 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Indeno(1,2,3-cd)pyrene | 3.60 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Isophorone | 3,200 | NA | ND(0.33) [0.12 J] | 2.2 | 0.055 J |
| Naphthalene | 190 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Pentachlorobenzene | 860 | NA | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| Phenanthrene | None | 100 | 0.20 J [0.12 J] | 0.14 J | ND(0.40) |
| Pyrene | 26,000 | NA | 0.16 J [0.083 J] | 0.20 J | ND(0.40) |
| Thionazin | None | 1,000 | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.40) |
| **Inorganics** | | | | | |
| Antimony | 750 | NA | ND(6.00) [ND(6.00)] | ND(6.00) | ND(6.00) |
| Arsenic | 3.00 | 30.0 | ***4.20 [4.40]*** | ***4.30*** | ***4.90*** |
| Barium | 100,000 | NA | 38.0 [36.0] | 49.0 | 62.0 |
| Beryllium | 3,400 | NA | ND(0.500) [ND(0.500)] | 0.140 B | ND(0.500) |
| Cadmium | 930 | NA | ND(0.500) [0.510] | ND(0.500) | ND(0.500) |
| Chromium | 450 | NA | 14.0 [14.0] | 7.80 | 9.00 |
| Cobalt | 29,000 | NA | 6.90 [6.00] | 5.80 | 5.60 |
| Copper | 70,000 | NA | 11.0 [13.0] | 11.0 | 10.0 |
| Lead | 1,000 | NA | 3.70 [3.80] | 3.60 | 18.0 |
| Mercury | 560 | NA | ND(0.100) [ND(0.100)] | ND(0.100) | ND(0.100) |
| Nickel | 37,000 | NA | 13.0 [14.0] | 10.0 | 12.0 |
| Selenium | 9,400 | NA | ND(1.00) [0.540 B] | ND(1.00) | ND(1.00) |
| Thallium | None | 30.0 | ND(1.50) [ND(1.50)] | ND(1.50) | ND(1.50) |
| Tin | 100,000 | NA | 3.90 B [4.00 B] | 3.70 B | ND(10.0) |
| Vanadium | 13,000 | NA | 10.0 [9.00] | 8.20 | 8.90 |
| Zinc | 100,000 | NA | 28.0 [24.0] | 20.0 | 58.0 |

**TABLE 1**
**PCB AND APPENDIX IX+3 DATA**

**BUILDING 33 BUILDING SAMPLING**
**20s, 30s, 40s COMPLEX**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

Notes:

1. Sample was collected by Blasland, Bouck & Lee, Inc., and submitted to CT&E Environmental Services, Inc. for analysis of PCBs, volatile organics, semivolatile organics and Inorganics.
2. Only those constituents detected in one or more samples are summarized.
3. Duplicate sample results are presented in brackets.
4. Bolded and shaded value indicates exceedance of EPA Region 9 PRG and MCP Method 1 S-2/GW-3 Standard.
5. Bolded and italicized value indicates exceedance of EPA Region 9 PRG but does not exceed MCP Method 1 S-2/GW-3 Standard.

* - In the absence of a PRG for this constituent, the PRG for Naphthalene was used.
NA - Not applicable since maximum concentration is below Region 9 PRGs. For PCBs, comparison to PRGs is not necessary.
ND - Analyte was not detected. The number in parentheses is the associated detection limit.
NS - Analyte was not sampled for.

Data Qualifiers:

Organics
E - Indicates an estimated value greater than the linear range of the laboratory instrument.
J - Indicates an estimated value less than the practical quantitation limit (PQL).

Inorganics
B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

**TABLE 2**
**PCB AND APPENDIX IX+3 DATA**

**BUILDING 34 - BUILDING MATERIAL SAMPLING**
**20s, 30s, 40s COMPLEX**
**GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS**
**(Results are presented in dry weight parts per million, ppm)**

| Sample ID: / Matrix: / Sample Depth(Feet): / Parameter / Date Collected: | EPA Region 9 Industrial PRGs | MCP Method 1 S-2/GW-3 Standard | 34-1-CB-2 Conc Block 0-1 01/16/03 | 34-1-CF-2 Conc Floor 0-0.5 01/16/03 | 34-2-CB-2 Conc Block 0-0.67 01/16/03 | 34-3-CB-1 Conc Block 0-0.58 01/16/03 | 34-4-CF-1 Conc Floor 0-0.5 01/16/03 |
|---|---|---|---|---|---|---|---|
| **Volatile Organics** | | | | | | | |
| Acetone | 6,100 | NA | ND(0.020) | ND(0.020) | 0.029 [0.023] | 0.010 J | 0.017 J |
| Benzene | 1.40 | NA | ND(0.0050) | 0.015 | ND(0.0050) [ND(0.0050)] | ND(0.0050) | ND(0.0050) |
| Tetrachloroethene | 16.0 | NA | 0.0032 J | ND(0.0050) | ND(0.0050) [ND(0.0050)] | 0.0034 J | 0.0034 J |
| Toluene | 520 | NA | 0.014 | 0.042 | 0.069 [0.056] | 0.070 | 0.065 |
| **PCBs** | | | | | | | |
| Aroclor-1254 | NA | NA | 0.011 J | NS | 0.20 [0.25] | NS | NS |
| Total PCBs | NA | NA | 0.011 J | NS | 0.20 [0.25] | NS | NS |
| **Semivolatile Organics** | | | | | | | |
| Benzo(a)anthracene | 3.60 | NA | ND(0.33) | 0.27 J | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.33) |
| Benzo(a)pyrene | 0.36 | NA | ND(0.33) | 0.21 J | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.33) |
| Benzo(b)fluoranthene | 3.60 | NA | ND(0.33) | 0.41 | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.33) |
| Benzo(g,h,i)perylene | 190 * | 2,500 | ND(0.33) | 0.18 J | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.33) |
| Benzo(k)fluoranthene | 36.0 | NA | ND(0.33) | 0.15 J | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.33) |
| Chrysene | 360 | NA | ND(0.33) | 0.29 J | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.33) |
| Di-n-Butylphthalate | 110,000 | NA | ND(0.33) | 0.24 J | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.33) |
| Fluoranthene | 37,000 | NA | ND(0.33) | 0.80 | 0.14 J [0.094 J] | ND(0.33) | 0.15 J |
| Indeno(1,2,3-cd)pyrene | 3.60 | NA | ND(0.33) | 0.17 J | ND(0.33) [ND(0.33)] | ND(0.33) | ND(0.33) |
| Isophorone | 3,200 | NA | 3.3 | 0.64 | 0.73 [ND(0.33)] | 2.6 | 0.44 |
| Phenanthrene | 190 * | 100 | ND(0.33) | 0.81 | 0.49 [0.37] | ND(0.33) | 0.14 J |
| Pyrene | 26,000 | NA | ND(0.33) | 0.66 | 0.13 J [0.086 J] | ND(0.33) | 0.11 J |
| **Inorganics** | | | | | | | |
| Arsenic | 3.00 | 30.0 | 2.80 | ***3.10*** | 2.80 ***[3.60]*** | 3.00 | ***5.80*** |
| Barium | 100,000 | NA | 37.0 | 38.0 | 170 [260] | 170 | 58.0 |
| Beryllium | 3,400 | NA | ND(0.500) | 0.150 B | ND(0.500) [ND(0.500)] | ND(0.500) | ND(0.500) |
| Cadmium | 930 | NA | ND(0.500) | 0.120 B | ND(0.500) [1.10] | ND(0.500) | ND(0.500) |
| Chromium | 450 | NA | 6.80 | 6.80 | 12.0 [17.0] | 14.0 | 10.0 |
| Cobalt | 29,000 | NA | 10.0 | 5.00 | 9.10 [10.0] | 11.0 | 7.40 |
| Copper | 70,000 | NA | 29.0 | 14.0 | 24.0 [26.0] | 29.0 | 22.0 |
| Lead | 1,000 | NA | 9.60 | 2.30 | 83.0 [180] | 86.0 | 4.70 |
| Mercury | 560 | NA | ND(0.100) | 0.190 | ND(0.100) [ND(0.100)] | ND(0.100) | 0.0500 B |
| Nickel | 37,000 | NA | 12.0 | 7.70 | 13.0 [14.0] | 12.0 | 14.0 |
| Selenium | 9,400 | NA | ND(1.00) | 0.670 B | ND(1.00) [ND(1.00)] | 1.10 | 1.10 |
| Silver | 9,400 | NA | ND(1.00) | ND(1.00) | ND(1.00) [ND(1.00)] | ND(1.00) | 1.40 |
| Tin | 100,000 | NA | 4.20 B | 3.10 B | 3.90 B [4.20 B] | 3.90 B | 4.40 B |
| Vanadium | 13,000 | NA | 33.0 | 18.0 | 28.0 [31.0] | 39.0 | 19.0 |
| Zinc | 100,000 | NA | 35.0 | 28.0 | 88.0 [210] | 99.0 | 30.0 |

Notes:

1. Sample was collected by Blasland, Bouck & Lee, Inc., and submitted to CT&E Environmental Services, Inc. for analysis of PCBs, volatile organics, semivolatile organics and Inorganics.
2. Only those constituents detected in one or more samples are summarized.
3. Duplicate sample results are presented in brackets.
4. Bolded and italicized value indicates exceedance of EPA Region 9 PRG but does not exceed MCP Method 1 S-2/GW-3 Standard.

* - In the absence of a PRG for this constituent, the PRG for Naphthalene was used.
NA - Not applicable since maximum concentration is below Region 9 PRGs. For PCBs, comparison to PRGs is not necessary.
ND - Analyte was not detected. The number in parentheses is the associated detection limit.
NS - Analyte was not sampled for.

Data Qualifiers:

Organics
J - Indicates an estimated value less than the practical quantitation limit (PQL).

Inorganics
B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

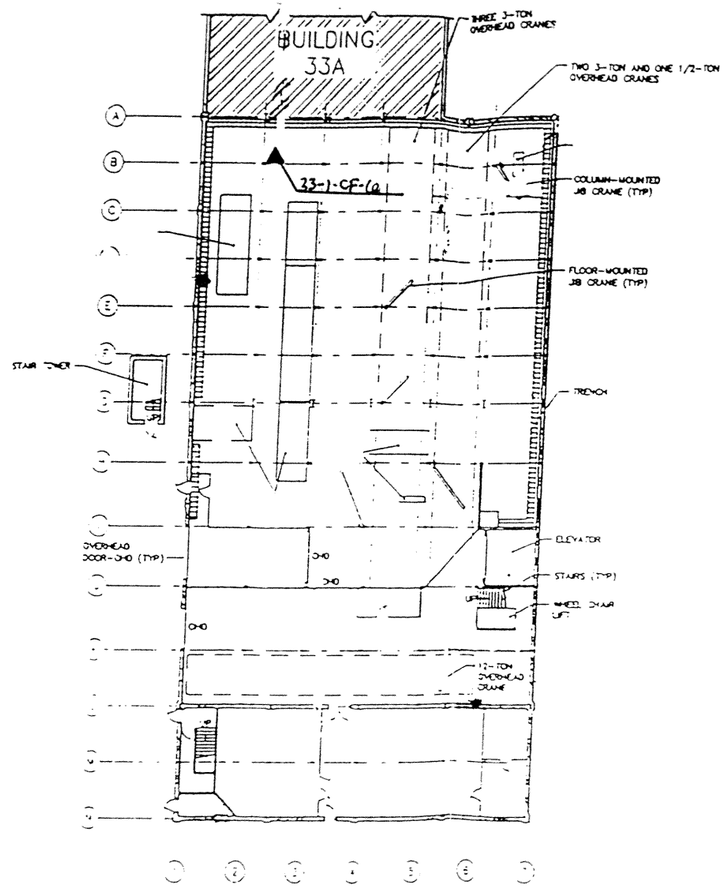
# *Attachments*

BBL®
BLASLAND, BOUCK & LEE, INC.
*engineers & scientists*

# *Attachment A*

## Recent Sample Locations

BBL®
BLASLAND, BOUCK & LEE, INC.
*engineers & scientists*




FIRST FLOOR PLAN

GENERAL NOTES:

1. DRAWING IS BASED ON A DRAWING ENTITLED "KEY PLAN FOR BUILDINGS 33, 33-A, 33-B" PREPARED IN OCTOBER 1914 (NAME OF PREPARER UNREADABLE) AND FIELD OBSERVATIONS MADE BY BLASLAND, BOUCK & LEE, INC. DURING A SITE VISIT ON MARCH 12 AND 1, 1999.
2. ALL FEATURES AND LOCATIONS ARE APPROXIMATE.

0 20' 40'
APPROXIMATE SCALE

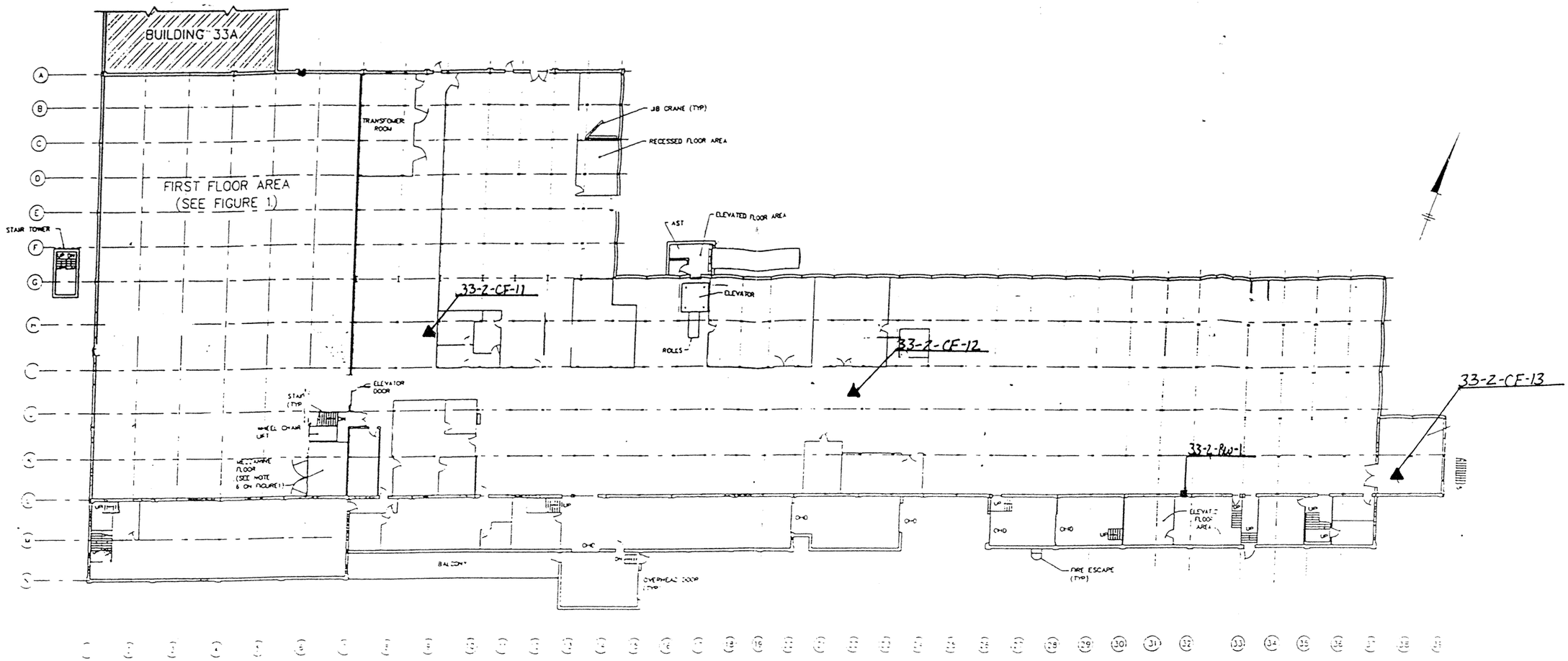
GENERAL ELECTRIC COMPANY
BROWNFIELDS PROGRAM
PITTSFIELD, MASSACHUSETTS

BUILDING 33
FIRST FLOOR PLAN

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE
1

L: OM-*. OFT-REF
P: STD-PCP/DL
10/5/99 STR-54-OMS.DGC XMD
10104003/10104517.DWG




SECOND FLOOR PLAN

GENERAL NOTES:

1. DRAWING IS BASED ON A DRAWING ENTITLED "KEY PLAN FOR BUILDINGS 33, 33-A, 33-B" PREPARED IN OCTOBER 1914 (NAME OF PREPARER UNREADABLE), AND FIELD OBSERVATIONS MADE BY BLASLAND, BOUCK & LEE, INC. DURING A SITE VISIT ON MARCH 10 AND 11, 1999.
2. ALL FEATURES AND LOCATIONS ARE APPROXIMATE.

0 20' 40'
APPROXIMATE SCALE

GENERAL ELECTRIC COMPANY
BROWNFIELDS PROGRAM
PITTSFIELD, MASSACHUSETTS

# BUILDING 33
# SECOND FLOOR PLAN

RRI

BLASLAND, BOUCK & LEE, INC.

FIGURE

GENERAL ELECTRIC

K-9254433

REV NO.

TITLE

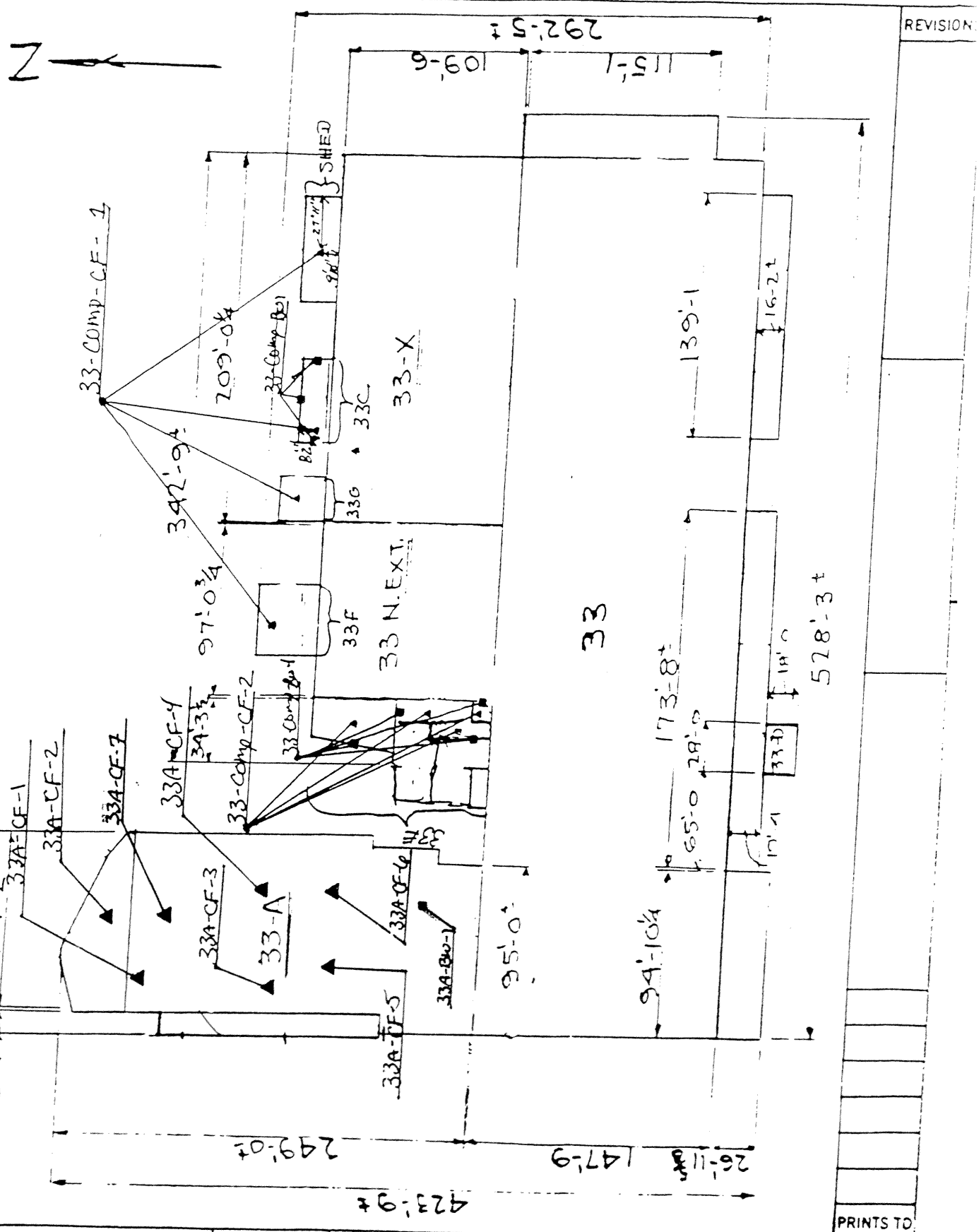
CONT ON SHEET 2 SH NO. 1

CONT ON SHEET SH NO.

# PLAN

FIRST MADE FOR BLDG. 33 COMPLEX

REVISION




MADE BY

APPROVALS

PRINTS TO

ISSUED

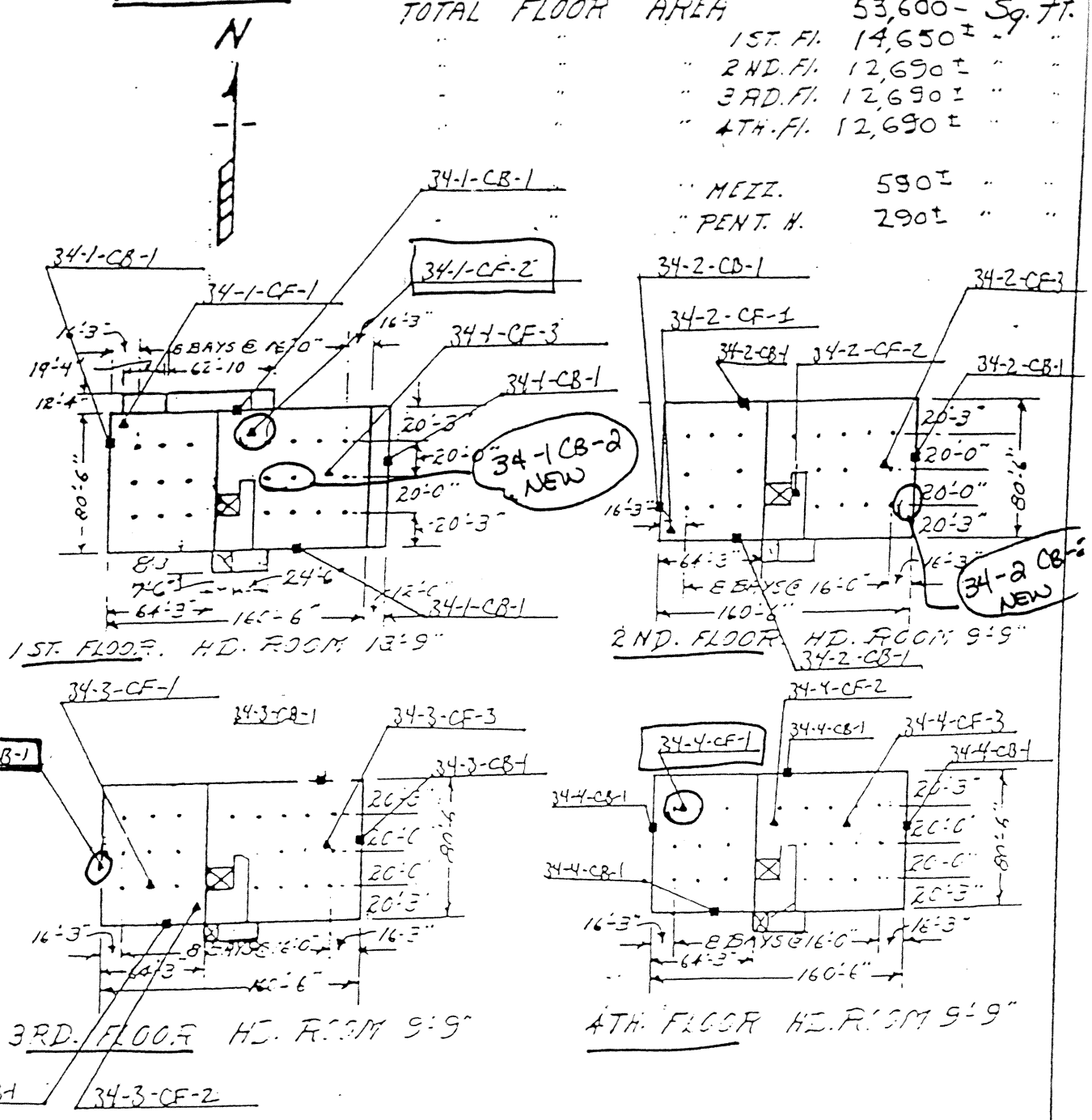
DIV OR DEPT.

K-9254433

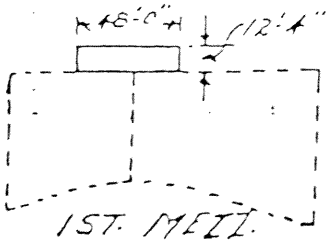
# FIGURE 1

## FLOOR PLAN BLDG. -34-

| | | |
|---|---|---|
| TOTAL FLOOR AREA | 53,600± | Sq. Ft. |
| 1ST. FL. | 14,650± | " " |
| 2ND. FL. | 12,690± | " " |
| 3RD. FL. | 12,690± | " " |
| 4TH. FL. | 12,690± | " " |
| MEZZ. | 590± | " " |
| PENT. H. | 290± | " " |




(1) DISCRETE IN RENT HOUSE




**DRAFT**

K-92544434

| | | | | |
|---|---|---|---|---|
| | | MADE BY [illegible] 4-20-65 | INSPECTED BY [illegible] 10-4-66 | |
| 1 | 5-17-66 | GENERAL ELECTRIC | K-92544434 | |
| REVISIONS | | Bitsfield WORKS | SHEET NO. 1 CONT. ON SHEET 2. | |
| | | 6CZ-A | PRINTED IN U.S.A. | |

# *Attachment B*

## Historical Sample Locations

BBL®
BLASLAND, BOUCK & LEE, INC.
*engineers & scientists*

Corporate Environmental Programs
General Electric Company
100 Woodlawn Avenue, Pittsfield, MA 01201

*Transmitted Via Federal Express*

September 27, 2001

Mr. Michael Nalipinski
U.S. Environmental Protection Agency
EPA New England
One Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

**Re: GE-Pittsfield/Housatonic River Site**
**20s and 30s Complexes (GECD120)**
**Buildings 25, 33, and 34 Characterization Information**

Dear Mr. Nalipinski:

Based on our September 19, 2001 meeting, enclosed please find draft characterization information pertaining to Buildings 25, 33, and 34 located within the 20s and 30s Complexes at the General Electric Company facility in Pittsfield, Massachusetts. These materials are being provided in anticipation of the U.S. Environmental Protection Agency and Massachusetts Department of Environmental Protection site visit on October 2, 2001 in Pittsfield.

Please feel free to contact me if you have any questions or require additional information.

Sincerely,

John F. Novotny /JJL

John F. Novotny, P.E.
Manager, Facility and Brownfields Programs

JJL/meg
Enclosures

cc: B. Olson, EPA
R. Bell, MDEP
S. Keydel, MDEP
C. Moran, Weston
R. McLaren, GE
J. Bieke, Shea & Gardner
J. Nuss, Blasland, Bouck & Lee, Inc.

# Draft Characterization Information

BLASLAND, BOUCK & LEE, INC. *engineers & scientists*

# Building 33

# Blasland, Bouck & Lee, Inc.
## Building 33 Brownfields
## Sampling Program

(201.47.09)

Table 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 33-1-BW-1 | 9/14/99 | 33-1-BW-1 | <1.0 | Brick wall | Field Composite Discrete Core | 0-4" | |
| 33-1-CF-1 | 9/14/99 | 33-1-CF-1 | 38.0 | Concrete floor | Discrete Full Core | 0-2" | |
| 33-1-CF-2 | 9/14/99 | 33-1-CF-2 | 1.66 | Concrete floor | Discrete Full Core | 0-5" | |
| 33-1-CF-3 | 9/14/99 | 33-1-CF-3 | 4.1 | Concrete floor | Discrete Full Core | 0-2.5" | |
| 33-1-CF-4 | 9/14/99 | 33-1-CF-4 | 1.62 | Concrete floor | Discrete Full Core | 0-2" | |
| 33-2-BW-1 | 9/13/99 | 33-2-BW-1 | <1.0 | Brick wall | Field Composite Discrete Core | 0-4" | |
| 33-2-CF-1 | 9/13/99 | 33-2-CF-1 | <1.0 | Concrete floor | Discrete Full Core | 0-4" | |
| 33-2-CF-2 | 9/13/99 | 33-2-CF-2 | <1.0 | Concrete floor | Discrete Full Core | 0-4" | |
| 33-2-CF-3 | 9/13/99 | 33-2-CF-3 | <1.0 | Concrete floor | Discrete Full Core | 0-4" | |
| 33-2-CF-4 | 9/13/99 | 33-2-CF-4 | <1.0 | Concrete floor | Discrete Full Core | 0-4" | |
| 33-2-CF-5 | 9/13/99 | 33-2-CF-5 | <1.0 | Concrete floor | Discrete Full Core | 0-4" | |
| 33-2 -CF-6 | 9/13/99 | 33-2-CF-6 | <1.0 | Concrete floor | Discrete Full Core | 0-4" | |
| 33-2-CF-7 | 9/13/99 | 33-2-CF-7 | <1.0 | Concrete floor | Discrete Full Core | 0-4" | |
| 33-2-CF-8 | 9/13/99 | 33-2-CF-8 | <1.0 | Concrete floor | Discrete Full Core | 0-4" | |
| 33-2-CF-9 | 9/13/99 | 33-2-CF-9 | <1.0 | Concrete floor | Discrete Full Core | 0-4" | |
| 33-2-CF-10 | 9/13/99 | 33-2-CF-10 | 1.18 | Concrete floor | Discrete Full Core | 0-4" | |
| 33-3-BW-1 | 9/13/99 | 33-3-BW-1 | <1.0 | Brick wall | Field Composite Discrete Core | 0-4" | |
| 33-3-CF-1 | 9/8/99 | 33-3-CF-1 | <1.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-2 | 9/8/99 | 33-3-CF-2 | <1.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3 CF-3 | 9/8/99 | 33-3-CF-3 | 1.7 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-4 | 9/8/99 | 33-3-CF-4 | 1.5 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-5 | 9/8/99 | 33-3-CF-5 | ND | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-6 | 9/8/99 | 33-3-CF-6 | ND | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-7 | 9/8/99 | 33-3-CF-7 | ND | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-8 | 9/8/99 | 33-3-CF-8 | ND | Concrete floor | Discrete Full Core | 0-7" | |

# Blasland, Bouck & Lee, Inc.
# Building 33 Brownfields
# Sampling Program

## (201.47.09)

Table 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 33-3- CF-9 | 9/8/99 | 33-3-CF-9 | <1.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-10 | 9/8/99 | 33-3-CF-10 | 8.9 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-11 | 9/8/99 | 33-3-CF-11 | <1.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-12 | 9/8/99 | 33-3-CF-12 | <1.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-13 | 9/8/99 | 33-3-CF-13 | ND | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-14 | 9/8/99 | 33-3-CF-14 | <1.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-15 | 9/8/99 | 33-3-CF-15 | 72.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-16 | 9/8/99 | 33-3-CF-16 | 15.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-3-CF-17 | 9/8/99 | 33-3-CF-17 | <1.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33-4-CF-1 | 9/13/99 | 33-4-CF-1 | <1.0 | Concrete floor | Discrete Full Core | 0-6" | |
| 33-TCLP-BW-1 | 9/8/99 | 33-TCLP-BW-1 | TCLP(see note 1) | Brick wall | Field Composite Discrete Core | 0-4" | |
| 33-TCLP-CF-1 | 9/8/99 | 33-TCLP-CF-1 | TCLP(see note 1) | Concrete floor | Field Composite Discrete Core | 0-7" | |
| 33-TCLP-BW-2 | 9/14/99 | 33-TCLP-BW-2 | TCLP(see note 1) | Brick wall | Field Composite Discrete Core | | |
| 33-TCLP-CF-2 | 9/14/99 | 33-TCLP-CF-2 | TCLP(see note 1) | Concrete floor | Field Composite Discrete Core | | |
| 33-Comp-BW-1 | 9/8/99 | 33-Comp-BW-1 | <1.0 | Brick wall | Field Composite Discrete Core | 0-4" | |
| 33-Comp-CF-1 | 9/8/99 | 33-Comp-CF-1 | <1.0 | Concrete floor | Field Composite Discrete Core | 0-7" | |
| 33-Comp-CF-2 | 9/8/99 | 33-Comp-CF-2 | 1.67 | Concrete floor | Field Composite Discrete Core | 0-7" | |
| 33A-CF-1 | 9/14/99 | 33A-CF-1 | 12.4 | Concrete floor | Discrete Full Core | 0-4" | |
| 33A-CF-2 | 9/14/99 | 33A-CF-2 | 7.0 | Concrete floor | Discrete Full Core | 0-4" | |
| 33A-CF-3 | 9/14/99 | 33A-CF-3 | 2.8 | Concrete floor | Discrete Full Core | 0-4" | |
| 33A-CF-4 | 9/14/99 | 33A-CF-4 | 6.4 | Concrete floor | Discrete Full Core | 0-4" | |
| 33A-CF-5 | 9/14/99 | 33A-CF-5 | 7.0 | Concrete floor | Discrete Full Core | 0-4" | |
| 33A-CF-6 | 9/14/99 | 33A-CF-6 | 72.0 | Concrete floor | Discrete Full Core | 0-7" | |

# Blasland, Bouck & Lee, Inc.
# Building 33 Brownfields
# Sampling Program

## (201.47.09)

Table 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 33X-1-BW-1 | 9/8/99 | 33X-1-BW-1 | 2.6 | Brick wall | Field Composite Discrete Core | 0-4" | |
| 33X-1-CF-1 | 9/8/99 | 33X-1-CF-1 | <1.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33X-1-CF-2 | 9/8/99 | 33X-1-CF-2 | 1.21 | Concrete floor | Discrete Full Core | 0-7" | |
| 33X-1-CF-3 | 9/8/99 | 33X-1-CF-3 | <1.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33X-1-CF-4 | 9/8/99 | 33X-1-CF-4 | 1.10 | Concrete floor | Discrete Full Core | 0-7" | |
| 33X-1-CF-5 | 9/8/99 | 33X-1-CF-5 | 3.7 | Concrete floor | Discrete Full Core | 0-7" | |
| 33X-1-CF-6 | 9/8/99 | 33X-1-CF-6 | 10.8 | Concrete floor | Discrete Full Core | 0-7" | |
| 33X-1-CF-7 | 9/8/99 | 33X-1-CF-7 | 3.34 | Concrete floor | Discrete Full Core | 0-7" | |
| 33X-1-CF-8 | 9/8/99 | 33X-1-CF-8 | 2.6 | Concrete floor | Discrete Full Core | 0-7" | |
| 33N-Ext-BW-1 | 9/8/99 | 33N-Ext-BW-1 | 2.2 | Brick wall | Field Composite Discrete Core | 0-4" | |
| 33N-Ext-CF-1 | 9/8/99 | 33N-Ext-CF-1 | <1.0 | Concrete floor | Discrete Full Core | 0-7" | |
| 33N-Ext-CF-2 | 9/8/99 | 33N-Ext-CF-2 | <1.0 | Concrete floor | Discrete Full Core | 0-7" | |

...e 1: TCLP = TCLP VOCs,SVOCs,METALS,REACTIVITY,IGNITABILITY,PH

GENERAL ELECTRIC

K-9254433
CONT ON SHEET 2 SH NO. 1

REV NO.

CONT ON SHEET SH NO.

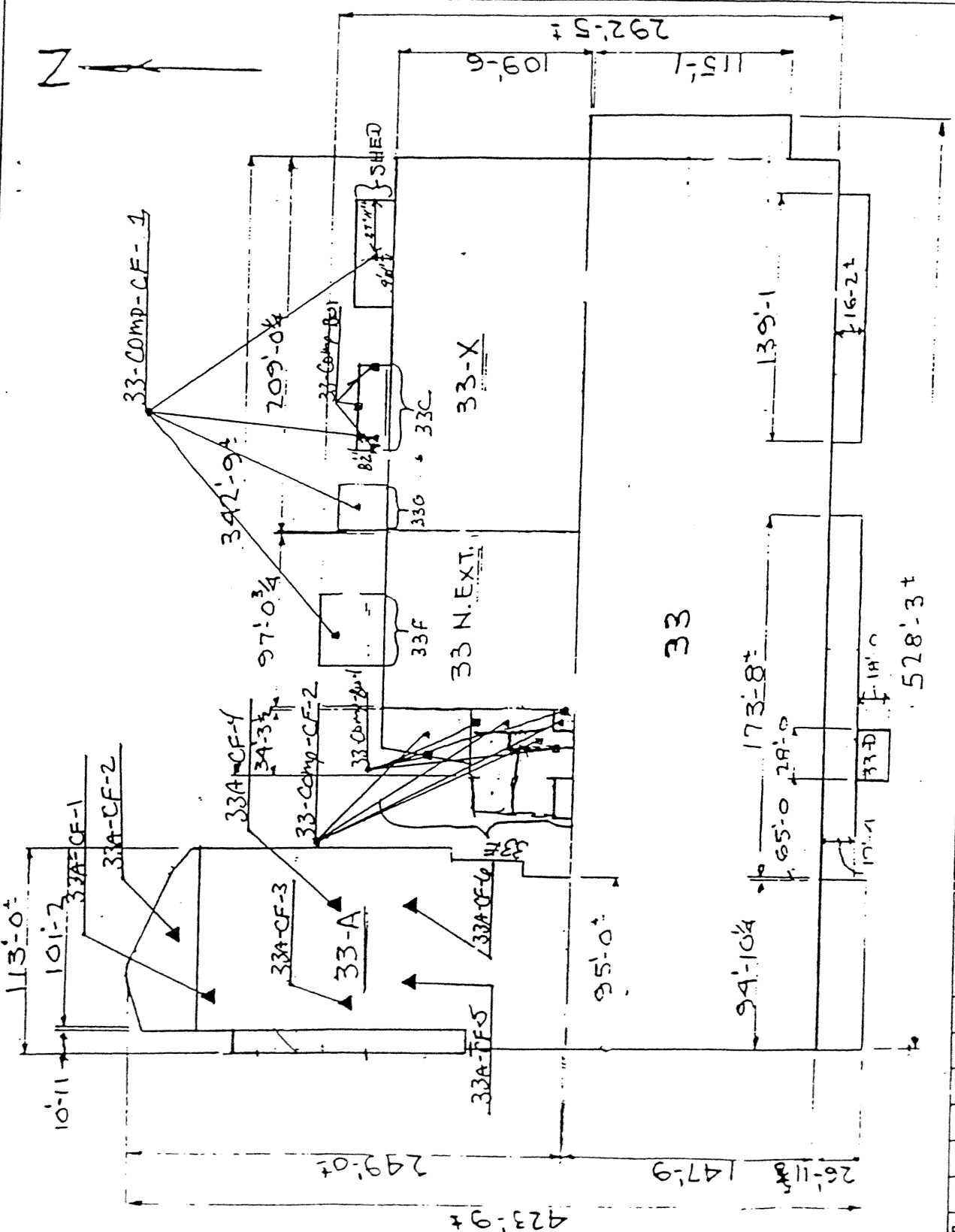
TITLE

# PLAN

FIRST MADE FOR BLDG. 33 COMPLEX

REVISION

DRAFT




PRINTS TO

MADE BY

ISSUED

APPROVALS

DIV OR DEPT.

LOCATION

K-9254433
CONT ON SHEET 2 SH NO 1

FF-803-WA (3-78)

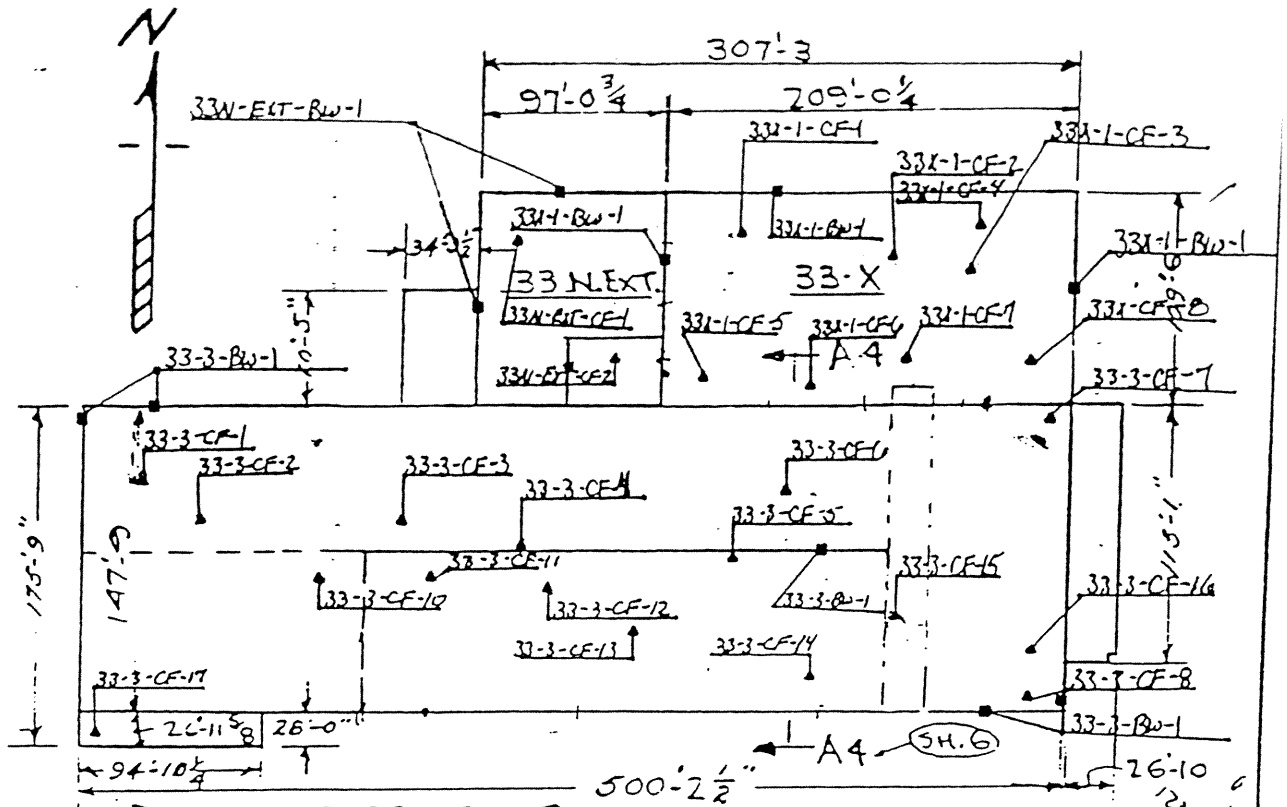
CODE IDENT NO

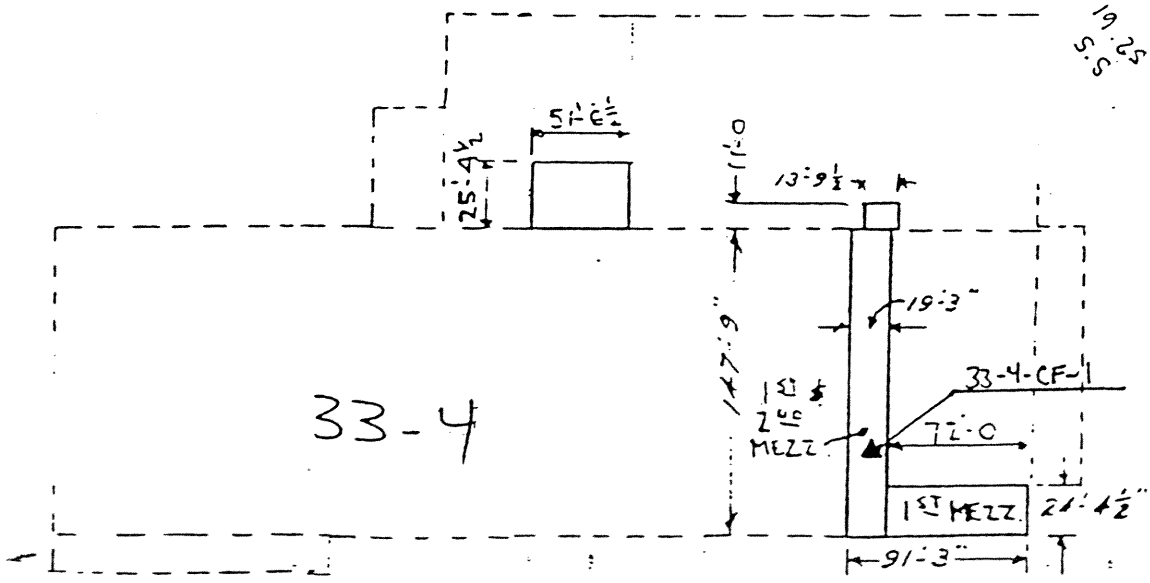
THIRD ANGLE PROJECTION

K-9254433

# FLOOR PLAN BLDG. -33-

TOTAL FLOOR AREA ON SHEET #2




3RD. FLOOR MEZZ'S.

**DRAFT**

| | | | |
|---|---|---|---|
| | MADE BY Geo. Le Chair 4-9-45 | INSPECTED BY [illegible] 10-4-46 | |
| REVISIONS | GENERAL ELECTRIC Pittsfield WORKS | K-9254433 SHEET NO. 4 CONT. ON SHEET 5 | PRINTS TO |
| 77-449-A (1-41) | 602-A PRINTED IN U.S.A. | | |

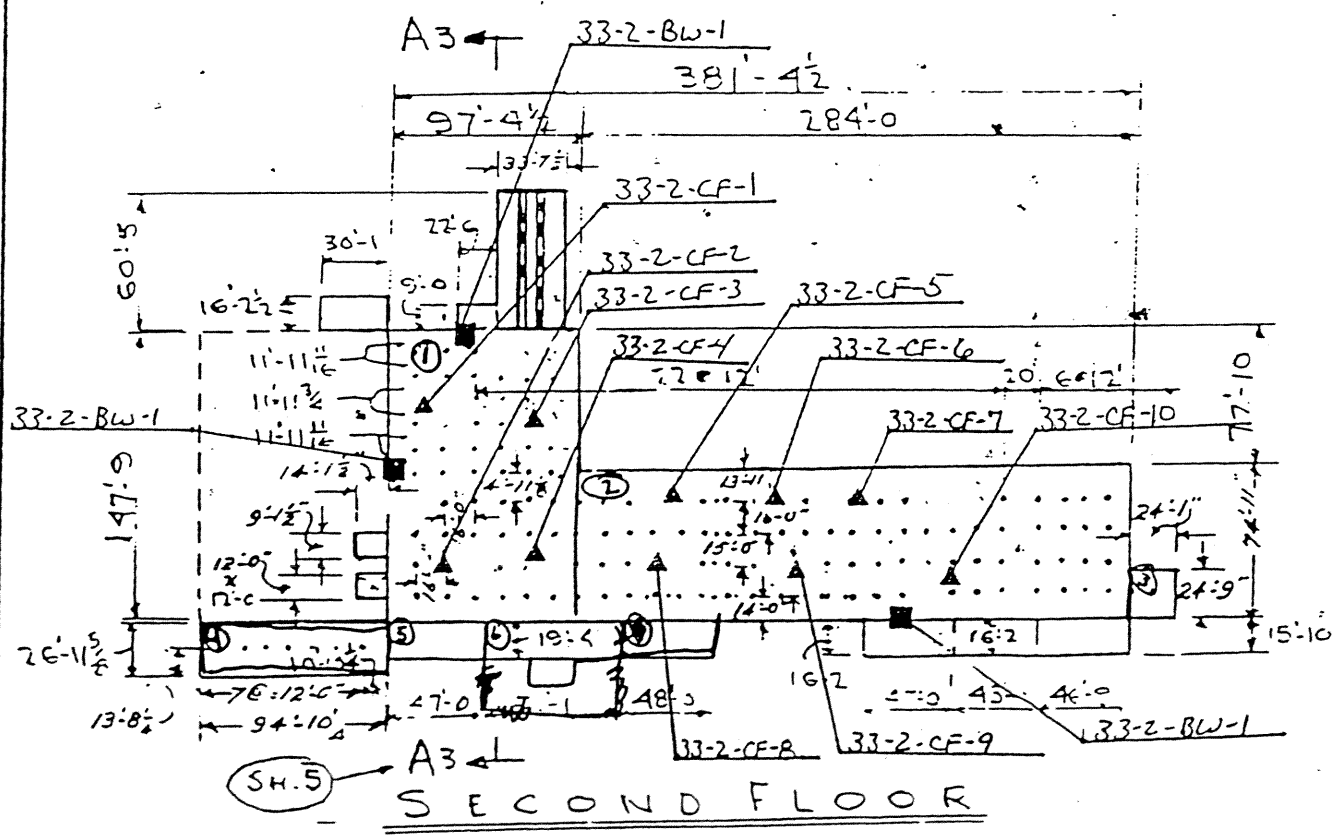
K-9254433

THIRD ANGLE PROJECTION

K-9254433

# FLOOR PLAN BLDG. -33-

TOTAL FLOOR AREA ON SHEET #2




DRAFT

| | | | |
|---|---|---|---|
| | MADE BY Geo. Le Clair 4-6-45 | INSPECTED BY [illegible] 10-4-6 | |
| REVISIONS | GENERAL ELECTRIC Pittsfield WORKS | K-9254433 SHEET NO. 3 CONT. ON SHEET 4. | PRINTS TO |
| | 6:2-A PRINTED IN U.S.A. | | |

77-449-A (1-41)

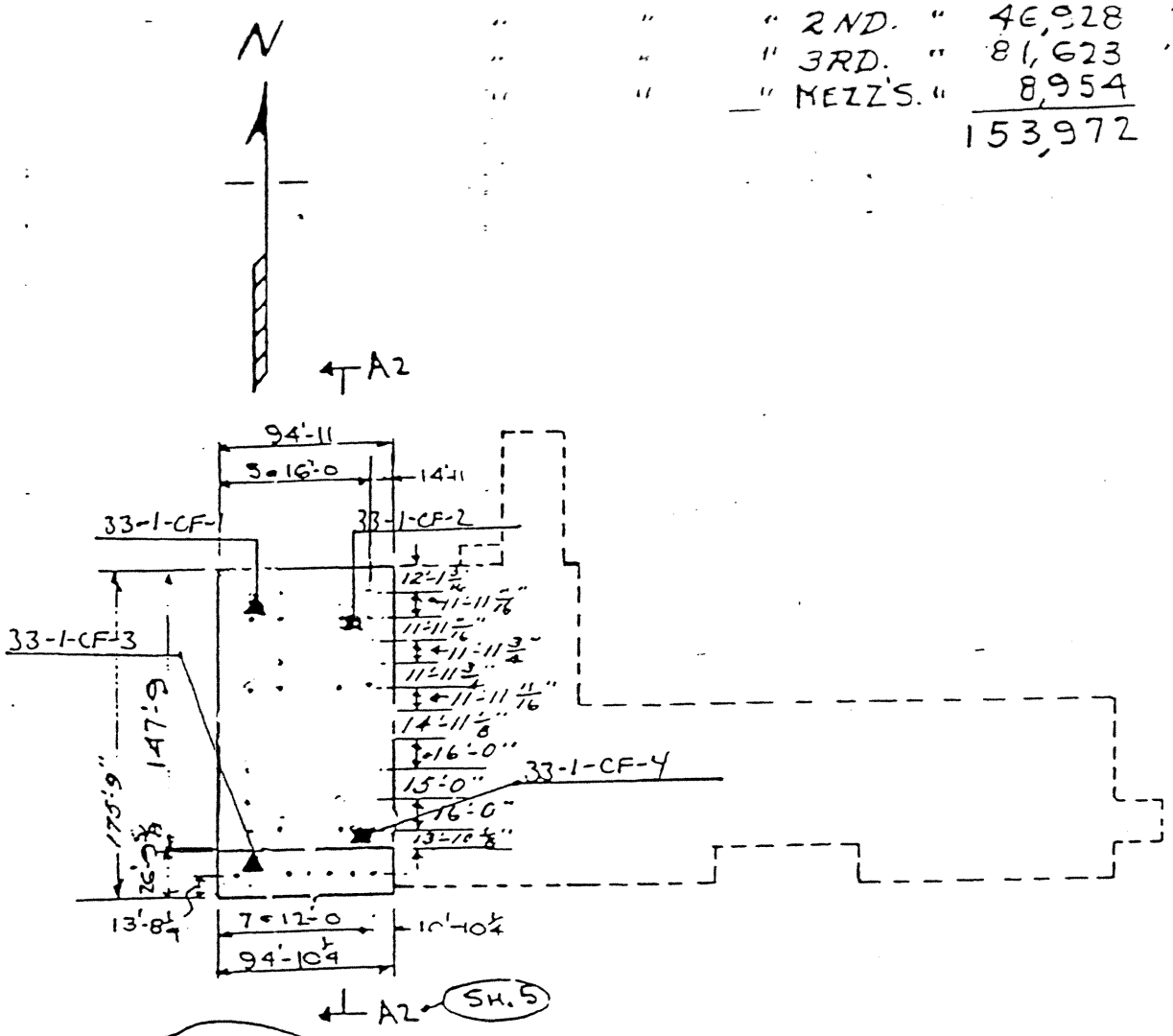
K-9254433

THIRD ANGLE PROJECTION

K-9254433

# FLOOR PLAN BLDG. -33-

| | | | | |
|---|---|---|---|---|
| TOTAL | FLOOR | AREA | | Sq. ft. |
| " | " | " | 1ST. FLOOR 16,467 | " " |
| " | " | " | 2ND. " 46,928 | " " |
| " | " | " | 3RD. " 81,623 | " " |
| " | " | " | MEZZ'S. " 8,954 | " " |
| | | | 153,972 | " " |

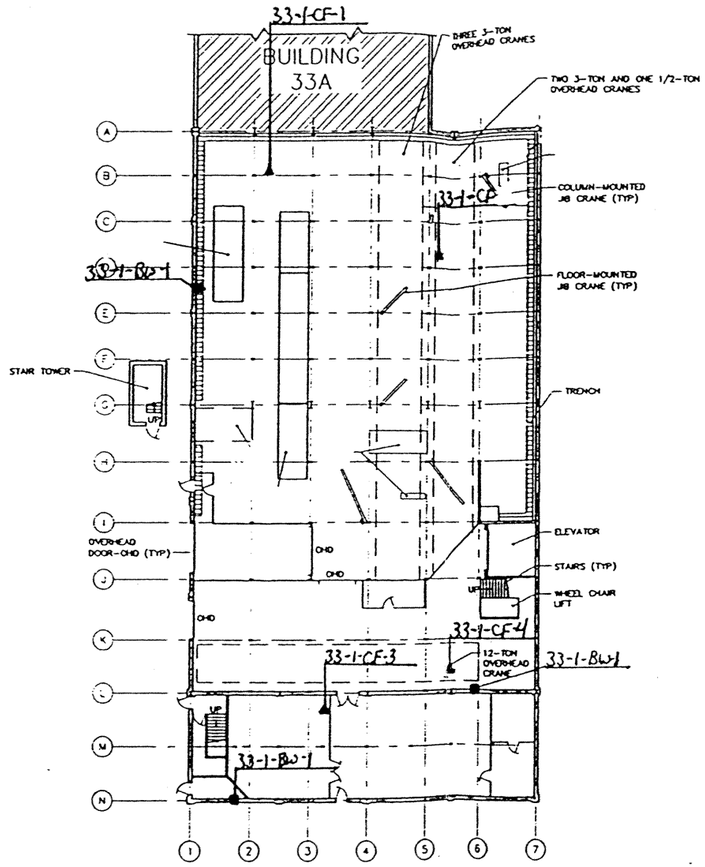



33-1 FIRST FLOOR

K-9254433

DRAFT

| | | | |
|---|---|---|---|
| | MADE BY Goldschein 4-17-45 | INSPECTED BY May 10-45 | |
| REVISIONS | GENERAL ELECTRIC Pittsfield WORKS | K-9254433 SHEET NO. 2 CONT. ON SHEET 3 | PRINTS TO |
| FT-469-A (3-41) | 602-A PRINTED IN U.S.A. | | |




FIRST FLOOR PLAN

GENERAL NOTES:

1. DRAWING IS BASED ON A DRAWING ENTITLED "KEY PLAN FOR BUILDINGS 33, 33-A, 33-B" PREPARED IN OCTOBER 1914 (NAME OF PREPARER UNREADABLE) AND FIELD OBSERVATIONS MADE BY BLASLAND, BOUCK & LEE, INC. DURING A SITE VISIT ON MARCH 10 AND 11, 1999.
2. ALL FEATURES AND LOCATIONS ARE APPROXIMATE.

0 20' 40'
APPROXIMATE SCALE

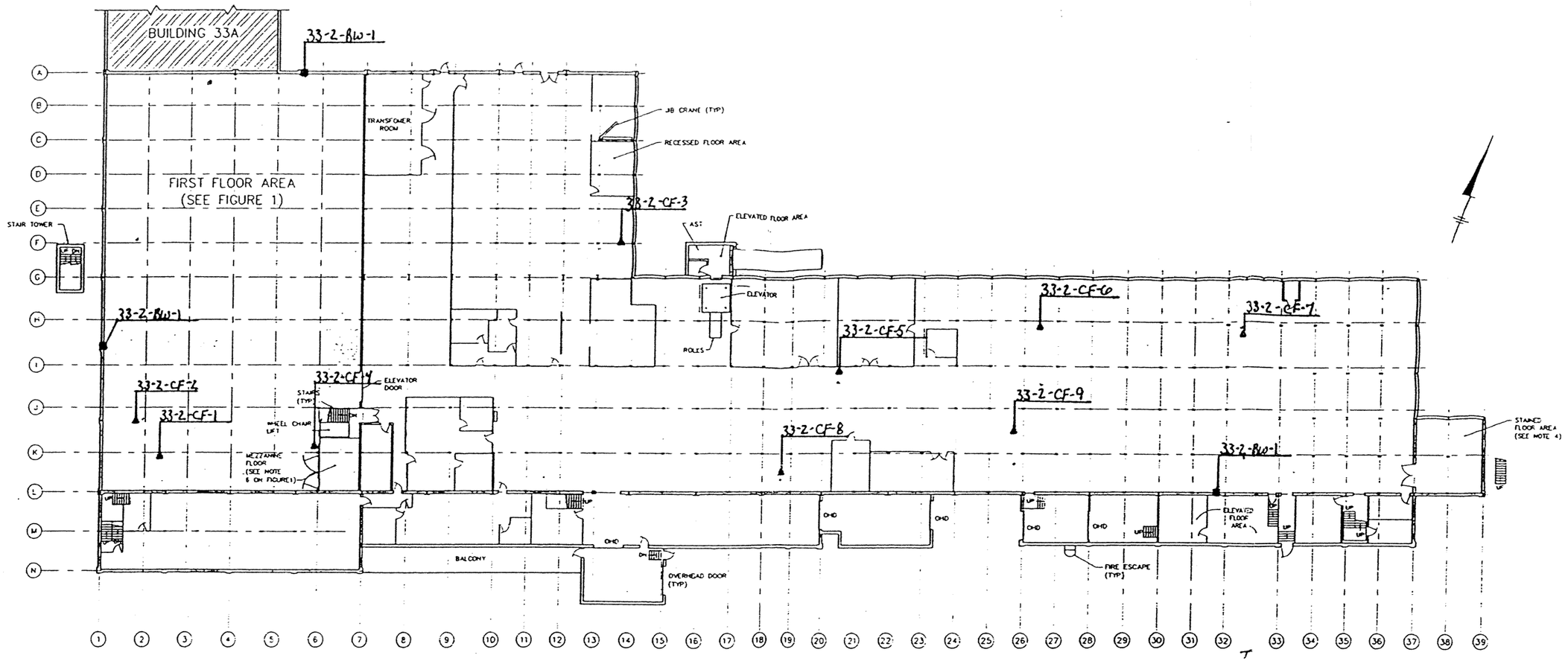
GENERAL ELECTRIC COMPANY
BROWNFIELDS PROGRAM
PITTSFIELD, MASSACHUSETTS

# BUILDING 33
# FIRST FLOOR PLAN

BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE 1

L: ON=*, OFF=REF
P: STD-PCP/CL
10/3/99 STR-54-CMS DCC KMD




## SECOND FLOOR PLAN

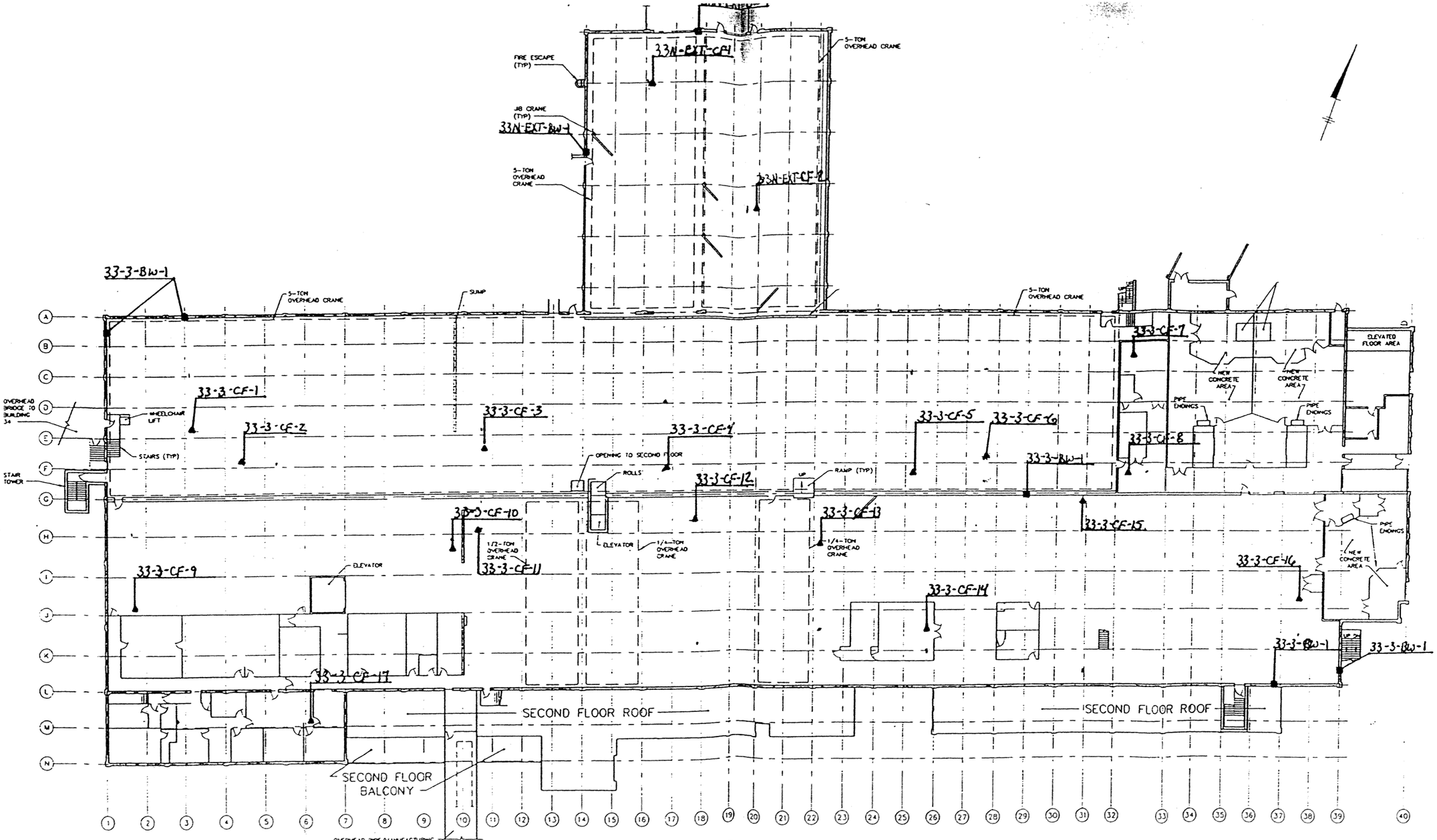
GENERAL NOTES:

1. DRAWING IS BASED ON A DRAWING ENTITLED "KEY PLAN FOR BUILDINGS 33, 33-A, 33-B" PREPARED IN OCTOBER 1914 (NAME OF PREPARER UNREADABLE), AND FIELD OBSERVATIONS MADE BY BLASLAND, BOUCK & LEE, INC. DURING A SITE VISIT ON MARCH 10 AND 11, 1999.
2. ALL FEATURES AND LOCATIONS ARE APPROXIMATE.

0 20' 40'

GENERAL ELECTRIC COMPANY
BROWNFIELDS PROGRAM
PITTSFIELD, MASSACHUSETTS

# BUILDING 33
# SECOND FLOOR PLAN




# THIRD FLOOR PLAN

GENERAL NOTES:

1. DRAWING IS BASED ON A DRAWING ENTITLED "KEY PLAN FOR BUILDINGS 33, 33-A, 33-B" PREPARED IN OCTOBER 1914 (NAME OF PREPARER UNREADABLE) AND FIELD OBSERVATIONS MADE BY BLASLAND, BOUCK & LEE, INC. DURING A SITE VISIT ON APRIL 15 AND 16, 1999.
2. ALL FEATURES AND LOCATIONS ARE APPROXIMATE.

0 20' 40'
APPROXIMATE SCALE

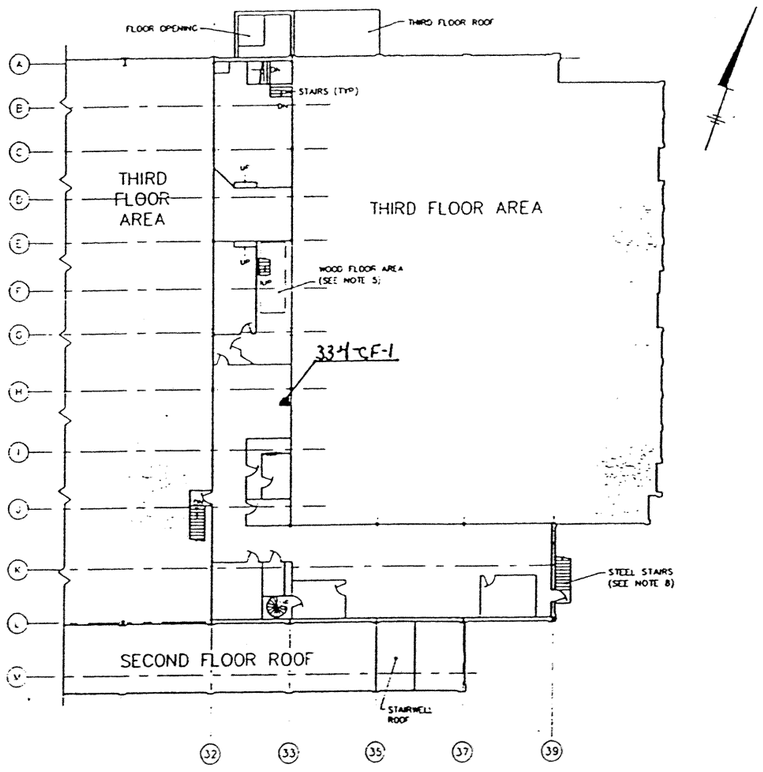
GENERAL ELECTRIC COMPANY
BROWNFIELDS PROGRAM
PITTSFIELD, MASSACHUSETTS

BUILDING 33
THIRD FLOOR PLAN

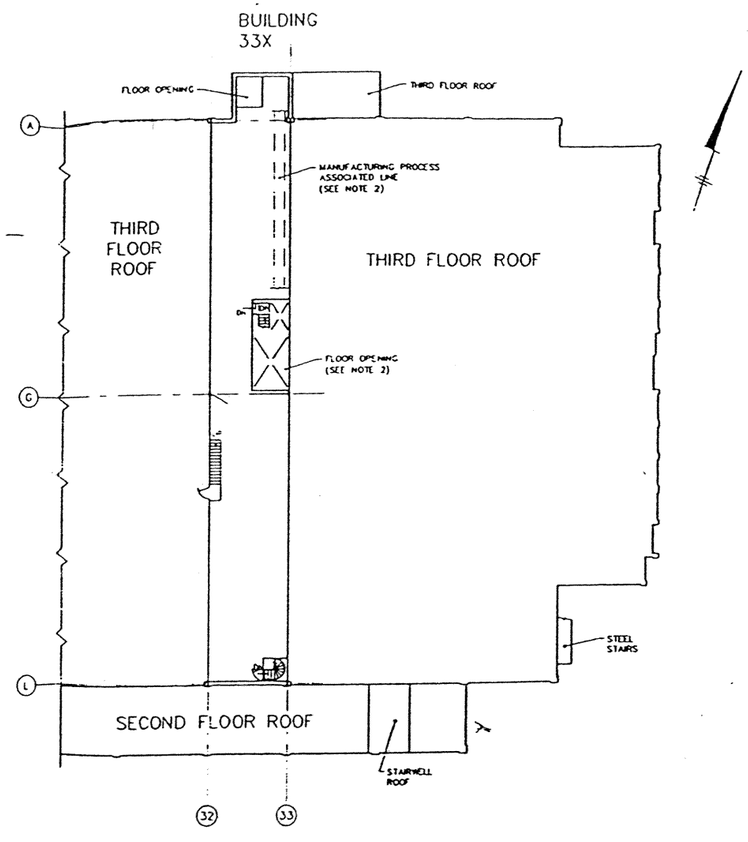
BBL BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE 3

L: ON=*, OFF=REF
P: STD-PCP/DL
10/3/99 SYR-34-KLM OCC KMO
10104003/10104519.DWG




FOURTH FLOOR PLAN




FIFTH FLOOR PLAN

GENERAL NOTES:

1. DRAWING IS BASED ON FIELD OBSERVATIONS MADE BY BLASLAND, BOUCK & LEE, INC. DURING A SITE VISIT ON APRIL 16, 1999.
2. ALL FEATURES AND LOCATIONS ARE APPROXIMATE.

0 20' 40'
APPROXIMATE SCALE

GENERAL ELECTRIC COMPANY
BROWNFIELDS PROGRAM
PITTSFIELD, MASSACHUSETTS

# BUILDING 33
# FOURTH AND FIFTH FLOOR PLANS

FIGURE

# Draft Characterization Information

BLASLAND, BOUCK & LEE, INC. *engineers & scientists*

# Building 34

# Blasland, Bouck & Lee, Inc.
## Building 34 Brownfields
## Sampling Program

(201.47.08)

Table 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 34-1-CB-1 | 9/15/99 | 34-1-CB-1 | <1.0 | Concrete block | Field Composite Discrete Core | 0-8" | |
| 34-1-CF-1 | 9/15/99 | 34-1-CF-1 | <1.0 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-1-CF-2 | 9/15/99 | 34-1-CF-2 | 45.0 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-1-CF-3 | 9/15/99 | 34-1-CF-3 | <1.0 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-2-CB-1 | 9/15/99 | 34-2-CB-1 | <1.0 | Concrete block | Field Composite Discrete Core | 0-8" | |
| 34-2-CF-1 | 9/15/99 | 34-2-CF-1 | <1.0 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-2-CF-2 | 9/15/99 | 34-2-CF-2 | <1.0 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-2-CF-3 | 9/15/99 | 34-2-CF-3 | <1.0 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-3-CB-1 | 9/15/99 | 34-3-CB-1 | <1.0 | Concrete block | Field Composite Discrete Core | 0-8" | |
| 34-3-CF-1 | 9/15/99 | 34-3-CF-1 | 7.8 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-3-CF-2 | 9/15/99 | 34-3-CF-2 | 8.0 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-3-CF-3 | 9/15/99 | 34-3-CF-3 | 3.8 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-4-CB-1 | 9/15/99 | 34-4-CB-1 | 1.6 | Concrete block | Field Composite Discrete Core | 0-8" | |
| 34-4-CF-1 | 9/15/99 | 34-4-CF-1 | 18.0 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-4-CF-2 | 9/15/99 | 34-4-CF-2 | 6.6 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-4-CF-3 | 9/15/99 | 34-4-CF-3 | 3.6 | Concrete floor | Discrete Full Core | 0-6" | |
| 34-5-CF-1 | 9/15/99 | 34-5-CF-1 | <1.0 | Concrete floor | Discrete Full Core | 0-3" | |
| 34-TCLP-CB-1 | 9/15/99 | 34-TCLP-CB-1 | TCLP (see note 1) | Concrete block | Field Composite Discrete Core | | |
| 34-TCLP-CF-1 | 9/15/99 | 34-TCLP-CF-1 | TCLP (see note1) | Concrete floor | Field Composite Discrete Core | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Note 1: TCLP = TCLP VOCs,SVOCs,METALS,REACTIVITY,IGNITABILITY,PH

THIRD ANGLE PROJECTION

K-9254434

# FLOOR PLAN BLDG. -34-

TOTAL FLOOR AREA 53,600± Sq. ft.

1ST. FL. 14,650±

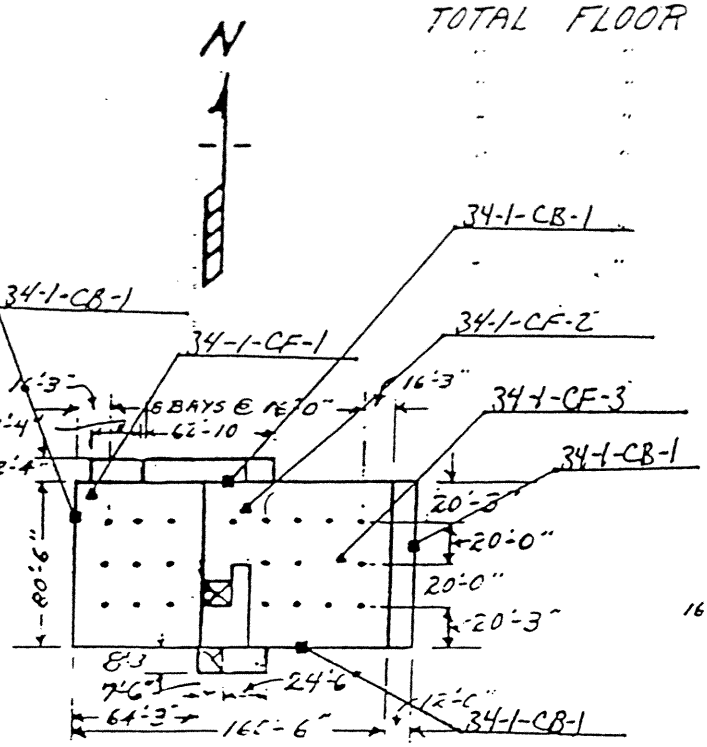
2ND. FL. 12,690±

3RD. FL. 12,690±

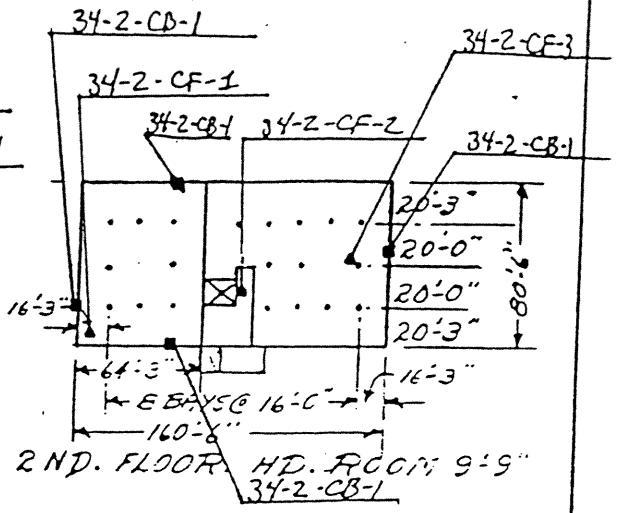
4TH. FL. 12,690±

MEZZ. 590±

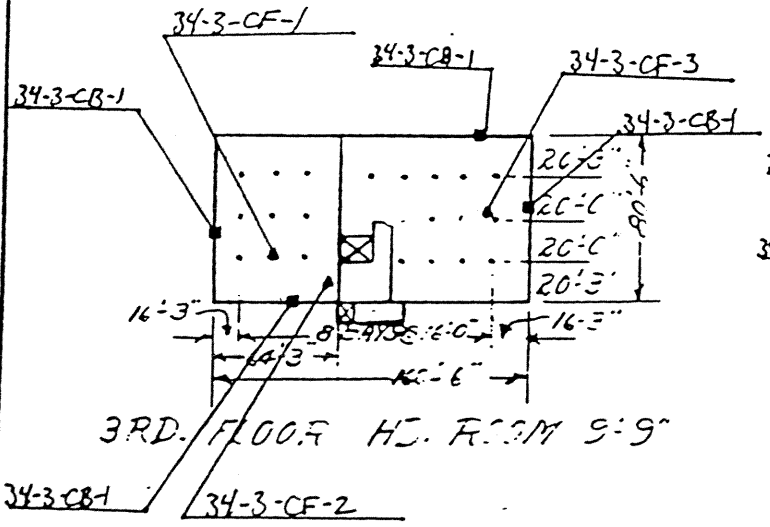
PENT. H. 290±



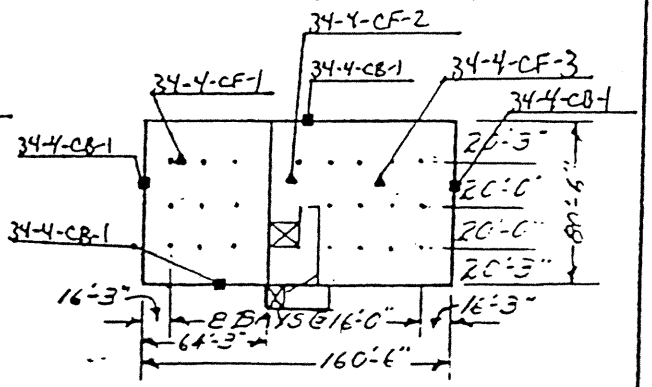

1ST. FLOOR HD. ROOM 13'-9"




2ND. FLOOR HD. ROOM 9'-9"

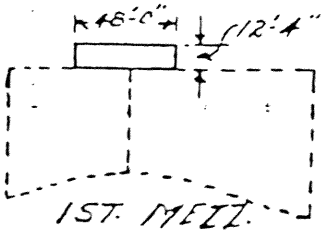



3RD. FLOOR HD. ROOM 9'-9"




4TH. FLOOR HD. ROOM 9'-9"

(1) DISCRETE IN PENT HOUSE




1ST. MEZZ.

**DRAFT**

| | | | | |
|---|---|---|---|---|
| 1 | 5-17-66 | MADE BY Geo L. Schaich 2045 | INSPECTED BY Ray 10-14 | |
| REVISIONS | | GENERAL ELECTRIC Bkfld WORKS | K-9254434 SHEET NO. 1 CONT. ON SHEET 2 | PRINTS TO |

FT-468-A (1-41) 6CZ-A PRINTED IN U.S.A.

K-9254434

Corporate Environmental Programs
General Electric Company
100 Woodlawn Avenue, Pittsfield, MA 01201

*Transmitted Via Federal Express*

October 30, 2001

Mr. Michael Nalipinski
U.S. Environmental Protection Agency
EPA New England
One Congress Street, Suite 1100
Boston, Massachusetts, 02114-2023

**Re: GE – Pittsfield/Housatonic River Site**
**20s and 30s Complexes *(GECD120)***
**Buildings 33 and 34 TCLP Information**

Dear Mr. Nalipinski:

Per your request, enclosed please find draft Toxicity Characteristic Leachate Procedure (TCLP) information pertaining to Buildings 33 and 34 located within the 30s Complex at the General Electric Company's (GE's) Pittsfield, Massachusetts facility. These materials are being provided to supplement characterization information previously provided by GE in a letter dated September 27, 2001.

Please feel free to contact me with any questions.

Sincerely,

John F. Novotny/JJL

John F. Novotny, P.E.
Manager, Facility and Brownfields Programs

JJL/meg
Enclosures

cc: B. Olson, EPA
R. Bell, MDEP
S. Keydel, MDEP
C. Moran, Weston
R. McLaren, GE
J. Bieke, Shea & Gardner
J. Nuss, BBL

DRAFT

*Table 1*

*General Electric Company*
*Pittsfield, Massachusetts*

*Building 33 Bronwfields Sampling Program*

*Summary of TCLP Building Material Characterization Data*

| Sample ID / Date Collected | TCLP Regulatory Limits | 33-TCLP-BW-1 9/8/99 | 33-TCLP-CF-1 9/8/99 | 33-TCLP-BW-2 9/14/99 | 33-TCLP-CF-2 9/14/99 |
|---|---|---|---|---|---|
| **Volatile Organics** | | | | | |
| 1,1-Dichloroethene | 0.7 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| 1,2-Dichloroethene | 0.5 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| 2-Butanone | 200 | ND(0.20) | ND(0.20) | ND(0.20) | ND(0.20) |
| Benzene | 0.5 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Carbon Tetrachloride | 0.5 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Chlorobenzene | 100 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Chloroform | 6 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Tetrachloroethene | 0.7 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Trichloroethene | 0.5 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| Vinyl Chloride | 0.2 | ND(0.10) | ND(0.10) | ND(0.10) | ND(0.10) |
| **Semivolatile Organics** | | | | | |
| 1,4-Dichlorobenezene | 7.5 | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) |
| 2,4,5-Trichlorophenol | 400 | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) |
| 2,4,6-Trichlorophenol | 2 | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) |
| 2,4-Dinitrotoluene | 0.13 | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) |
| Total Cresols | 200 | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) |
| Hexachlorobenzene | 0.13 | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) |
| Hexachlorobutadiene | 0.5 | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) |
| Hexachloroethane | 3 | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) |
| Nitrobenzene | 2 | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) |
| Pentachlorophenol | 100 | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) |
| Pyridine | 5 | ND(0.05) | ND(0.05) | ND(0.05) | ND(0.05) |
| **Inorganics** | | | | | |
| Arsenic | 5 | ND(0.50) | ND(0.50) | ND(0.50) | ND(0.50) |
| Barium | 100 | ND(10.0) | ND(10.0) | ND(10.0) | ND(10.0) |
| Cadmium | 1 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) |
| Chromium | 5 | ND(0.50) | ND(0.50) | ND(0.50) | ND(0.50) |
| Lead | 5 | ND(0.50) | ND(0.50) | ND(0.50) | ND(0.50) |
| Mercury | 0.2 | ND(0.020) | ND(0.020) | ND(0.020) | ND(0.020) |

DRAFT

*Table 1*

*General Electric Company*
*Pittsfield, Massachusetts*

*Building 33 Bronwfields Sampling Program*

*Summary of TCLP Building Material Characterization Data*

| Sample ID / Date Collected | TCLP Regulatory Limits | 33-TCLP-BW-1 9/8/99 | 33-TCLP-CF-1 9/8/99 | 33-TCLP-BW-2 9/14/99 | 33-TCLP-CF-2 9/14/99 |
|---|---|---|---|---|---|
| **Inorganics (con't)** | | | | | |
| Selenium | 1 | ND(1.0) | ND(1.0) | ND(1.0) | ND(1.0) |
| Silver | 5 | ND(0.50) | ND(0.50) | ND(0.50) | ND(0.50) |
| Ignitability | Not | Negative | Negative | Negative | Negative |
| Reactive Cyanide | Not | ND | ND | ND | ND |
| Reactive Sulfide | Not | ND | ND | ND | ND |
| pH | Not | 12.1 | 10.5 | 9.5 | 12.3 |

**Notes:**

1. **Results are presented in milligrams per liter (mg/L).**
2. **Samples were collected by Blasland, Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of TCLP.**
3. **ND-Analyte was not detected. The number in parentheses is the associated quantitation limit for volatiles and semivolatiles and the associated detection limit for other constituents.**
4. **The criteria for determining if a solid waste exhibits the characteristics of a hazardous waste include the following:**

   **Ignitability:** flashpoint <60°C, 140°F
   **Corrosivity:** pH below 2 or above 12.5 Standard Units (S.U.)
   **Reactivity:** No numeric regulatory criteria

5. **BW - Brick Wall. 33-TCLP-BW-1 is a field composite of 33-Comp-BW-1. 33-TCLP-BW-2 is a field composite of 33X-1-BW-1, 33N-Ext-BW-1, 33-1-BW-1, 33-2-BW-1, and 33-3-BW-1.**

   **CF - Concrete Floor. 33-TCLP-CF-1 is a field composite of 33-Comp-CF-1 and 33-Comp-CF-2. 33-TCLP-CF-2 is a field composite of 33X-1-CF-1 through CF-8, 33N-Ext-CF-1 and CF-2, 33-1-CF-1 through CF-4, 33-2-CF-1 through CF-10, 33-3-CF-1 through CF-17, 33-4-CF-1, and 33A-CF-1 through CF-6.**

DRAFT

*Table 1*

*General Electric Company*
*Pittsfield, Massachusetts*

*Building 34 Brownfields Sampling Program*

*Summary of Building Material Characterization Data*

| Sample ID / Date Collected | TCLP Regulatory Limits | 34-TCLP-CF-1 9/15/99 | 34-TCLP-CB-1 9/15/99 |
|---|---|---|---|
| **Volatile Organics** | | | |
| 1,1-Dichloroethene | 0.7 | ND(0.10) | ND(0.10) |
| 1,2-Dichloroethene | 0.5 | ND(0.10) | ND(0.10) |
| 2-Butanone | 200 | ND(0.20) | ND(0.20) |
| Benzene | 0.5 | ND(0.10) | ND(0.10) |
| Carbon Tetrachloride | 0.5 | ND(0.10) | ND(0.10) |
| Chlorobenzene | 100 | ND(0.10) | ND(0.10) |
| Chloroform | 6 | ND(0.10) | ND(0.10) |
| Tetrachloroethene | 0.7 | ND(0.10) | ND(0.10) |
| Trichloroethene | 0.5 | ND(0.10) | ND(0.10) |
| Vinyl Chloride | 0.2 | ND(0.10) | ND(0.10) |
| **Semivolatile Organics** | | | |
| 1,4-Dichlorobenezene | 7.5 | ND(0.05) | ND(0.05) |
| 2,4,5-Trichlorophenol | 400 | ND(0.05) | ND(0.05) |
| 2,4,6-Trichlorophenol | 2 | ND(0.05) | ND(0.05) |
| 2,4-Dinitrotoluene | 0.13 | ND(0.05) | ND(0.05) |
| Total Cresols | 200 | ND(0.05) | ND(0.05) |
| Hexachlorobenzene | 0.13 | ND(0.05) | ND(0.05) |
| Hexachlorobutadiene | 0.5 | ND(0.05) | ND(0.05) |
| Hexachloroethane | 3 | ND(0.05) | ND(0.05) |
| Nitrobenzene | 2 | ND(0.05) | ND(0.05) |
| Pentachlorophenol | 100 | ND(0.05) | ND(0.05) |
| Pyradine | 5 | ND(0.05) | ND(0.05) |
| **Inorganics** | | | |
| Arsenic | 5 | ND(0.50) | ND(0.50) |
| Barium | 100 | ND(10.0) | ND(10.0) |
| Cadmium | 1 | ND(1.0) | ND(1.0) |
| Chromium | 5 | ND(0.50) | ND(0.50) |
| Lead | 5 | ND(0.50) | ND(0.50) |
| Mercury | 0.2 | ND(0.020) | ND(0.020) |

DRAFT

*Table 1*

*General Electric Company*
*Pittsfield, Massachusetts*

*Building 34 Brownfields Sampling Program*

*Summary of Building Material Characterization Data*

| Sample ID / Date Collected | TCLP Regulatory Limits | 34-TCLP-CF-1 9/15/99 | 34-TCLP-CB-1 9/15/99 |
|---|---|---|---|
| **Inorganics (con't)** | | | |
| Selenium | 1 | ND(1.0) | ND(1.0) |
| Silver | 5 | ND(0.50) | ND(0.50) |
| Ignitability | Not Applicable[4] | Negative | Negative |
| Reactive Cyanide | Not Applicable[4] | ND | ND |
| Reactive Sulfide | Not Applicable[4] | ND | ND |
| pH | Not Applicable[4] | 12.3 | 12.3 |

**Notes:**

1. **Results are presented in milligrams per liter (mg/L).**
2. **Samples were collected by Blasland, Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of TCLP.**
3. **ND-Analyte was not detected. The number in parentheses is the associated quantitation limit for volatiles and semivolatiles and the associated detection limit for other constituents**
4. **The criteria for determining if a solid waste exhibits the characteristics of a hazardous waste include the following:**

   **Ignitability:** flashpoint <60°C, 140°F
   **Corrosivity:** pH below 2 or above 12.5 Standard Units (S.U.)
   **Reactivity:** No numeric regulatory criteria

5. **CF - Concrete Floor. Field composite of all concrete floor samples in Building 34.**
   **CB - Cinder Block Wall. Field composite of all cinder block wall samples in Buidling 34.**

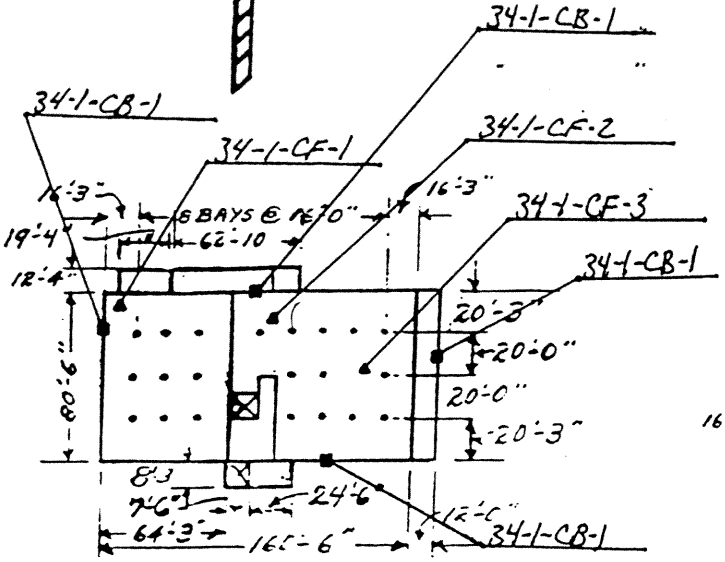
THIRD ANGLE PROJECTION

K-9254434

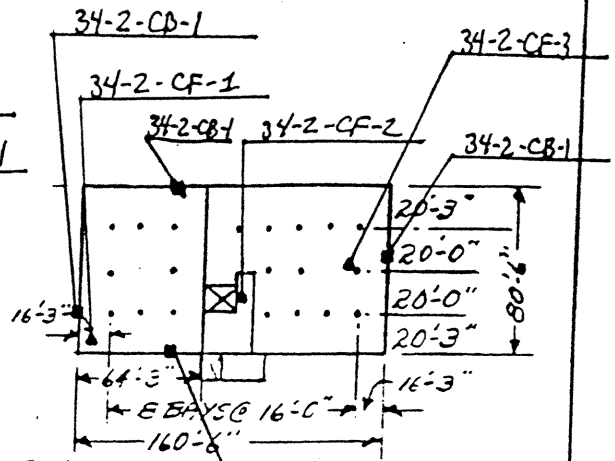
# DRAFT

## FLOOR PLAN BLDG. -34-

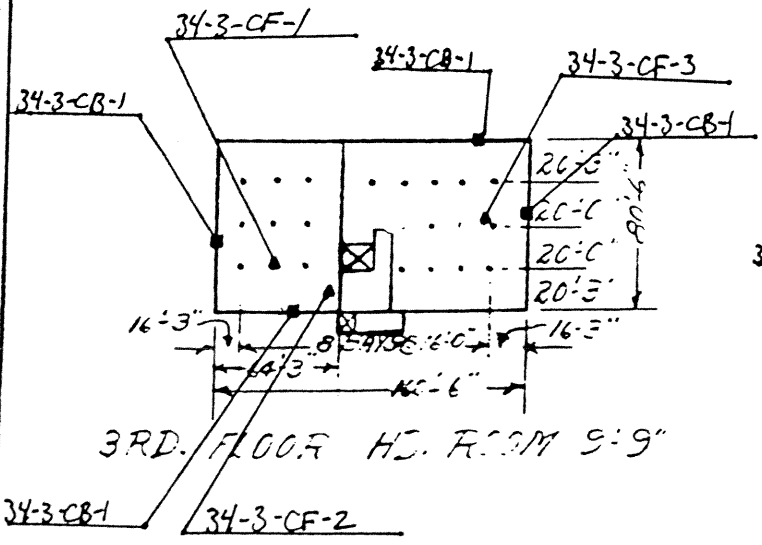
| | |
|---|---|
| TOTAL FLOOR AREA | 53,600± Sq. ft. |
| " " 1ST. FL. | 14,650± " " |
| " " 2ND. FL. | 12,690± " " |
| " " 3RD. FL. | 12,690± " " |
| " " 4TH. FL. | 12,690± " " |
| " " MEZZ. | 590± " " |
| " " PENT. H. | 290± " " |



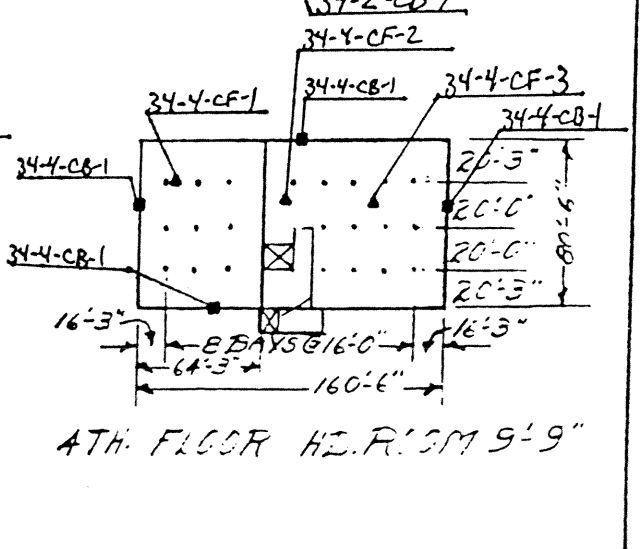

1ST. FLOOR HD. ROOM 13'-9"




2ND. FLOOR HD. ROOM 9'-9"

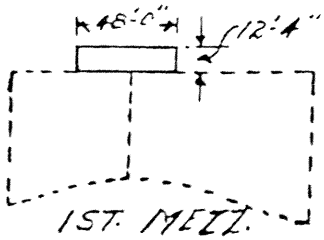



3RD. FLOOR HD. ROOM 9'-9"




4TH. FLOOR HD. ROOM 9'-9"

(1) DISCRETE IN PENT HOUSE




1ST. MEZZ.

| | | | | |
|---|---|---|---|---|
| 1 | 5-17-66 | MADE BY Google Chair A 2045 | INSPECTED BY Ray 10-14 | |
| REVISIONS | | GENERAL ELECTRIC WORKS Bluefield | K-9254434 SHEET NO. 1 CONT. ON SHEET 2. | PRINTS TO |
| | | 117-A PRINTED IN U.S.A. | | |

K-9254434