



Apparatus Service Department
General Electric Company
1 River Rd., Bldg. 6, 2nd Floor, Schenectady, NY 12345
Bldg. 6, Room 211
Tel. (518) 385 0545

April 23, 1990

Kathleen O'Reilly (6H-CX)
United States Environmental
Protection Agency
1445 Ross Avenue
Dallas, Texas 75202-2733



Subject: Report on Building Cleaning
GE Apparatus Service Shop
Albuquerque, New Mexico
Civil Action No. 87-1073-jb

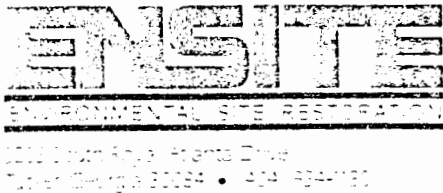
Dear Ms. O'Reilly:

Attached is the Report prepared by ENSITE describing cleaning and sampling activities performed in the building as specified in the DESCRIPTION OF CURRENT CONDITIONS, 3.0 Implementation Of Interim Measures.

Very truly yours,

Barry R. York
Environmental Project Manager

cc: Section Chief, Technical Section (6H-CX)
RCRA Enforcement Branch (6H-C), USEPA Region VI
Office of Regional Counsel, USEPA Region VI
Boyd Hamilton, New Mexico Environmental Improvement Div.
AD Alcott, Law Environmental, Inc.
PRC Environmental Management, Inc.
JT Harrsen
GR Logan
WP Thornton



April 20, 1990

Project No. 10-0-3131A

Mr. Barry York
General Electric Company
Building 6, Room 233
One River Road
Schenectady, New York 12345

RE: Cleaning of Interior Surfaces and Equipment
General Electric Apparatus Service Shop
Albuquerque, New Mexico

Dear Mr. York:

The following report describes the cleaning of the interior surfaces and equipment of the General Electric Apparatus Service Shop located at 4330 McLeod Road, Albuquerque, New Mexico. The work was performed by ENSITE, a subsidiary of Law Environmental, located in Tucker, Georgia.

Discussed herein is the scope of work performed and the results of the verification wipe samples.

1.0 BACKGROUND

In October 1987 and in July 1989, wipe test samples were made on interior surfaces and equipment of the service shop building. In October 1987, 13 wipe tests were performed and analyzed for PCBs with 12 test results of "non-detected" and 1 result of 176 ug/100 cm². In July 1989, 28 wipe tests were made and analyzed for PCBs. The results ranged from "non-detected" to 188 ug/100 cm². Specific dates of releases which produced the PCB contamination are not known.

The scope of work performed at the GE site was in accordance with the scope described in Task 1: Description of Current Conditions dated August 1988 and as modified January 15, 1990.

2.0 SCOPE OF WORK

ENSITE began decontamination of the interior surfaces and equipment at the GE service shop on February 19, 1990. The following describes the tasks performed by ENSITE.

2.1 Vacuuming of Structures and Fixtures

All structures and fixtures in the service shop were thoroughly vacuumed with a High Efficiency Particulate Air Filter (HEPA) vacuum cleaner. To prevent recontamination of the vacuumed surfaces, vacuuming began with the roof, then the walls and joists, and concluded with the fixtures and floors. Vacuumed dust was deposited directly into 55-gallon steel drums for easy packaging. Any large waste deposits that could not be removed by vacuuming were removed by chipping or scraping and placed in the drums.

2.2 Washing of Structures and Fixtures

Washing activities began once a section of the service shop had been vacuumed. The ceilings, walls, and fixtures were thoroughly washed by hand with mops and rags using a non-hazardous, inorganic cleaning detergent designed for PCB cleanup (ZEP EZ) mixed with water. The ZEP EZ Material Safety Data Sheet is included as Appendix A. The washing cycle, performed three times on each area, consisted of scrubbing with the detergent and rinsing with clean water. The rinse water was changed periodically as needed. Any residual rinse water remaining after cleaning was vacuumed into a drum using the HEPA vacuum.

After all ceilings, walls, and fixtures were hand washed, the floors were power scrubbed with ZEP EZ and water. The wash water was contained with squeegees and collected with HEPA vacuums.

The wastes generated during the building cleaning are currently being stored on site in 55-gallon drums. One liquid and one solid sample were collected from the drums for analysis to facilitate disposal of the wastes. Results of the analyses have been received, the waste has been profiled, and the profile sheets have been forwarded to USPCI, a waste disposal firm, for disposal approval.

2.3 Verification Sampling

Upon completion of the cleaning of the building's interior surfaces and equipment, ENSITE collected 40 wipe samples and 4 duplicate samples to verify adequate decontamination. The wipe samples were collected in accordance with standard EPA protocol. A 100 cm² area template which had been washed with hexane, was placed on the sample location. Hexane cleaned stainless steel forceps were used to wipe the sample area with hexane-soaked gauze. Each gauze sample was placed in a 40-ml glass vial and stored in an iced cooler. The samples were transported under chain-of-custody, to Assagai Analytical Laboratories in Albuquerque, New Mexico for analysis.

Mr. Barry York
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3.0 FINDINGS

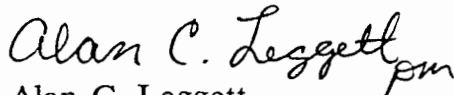
Figure 1 illustrates the location of wipe samples collected during the October 1987 and July 1989 sampling. Results of the March 1990 laboratory analysis are summarized on Table 1, and sample locations and corresponding detected concentrations are plotted on Figure 2. Results of the laboratory analysis indicate concentrations of PCBs were not detected at or above the EPA's cleanup guideline of 10 ug/100 cm². Copies of the laboratory analytical reports are presented as Appendix B.

If we can be of any further assistance or if you have any questions or comments, please call.

Sincerely,

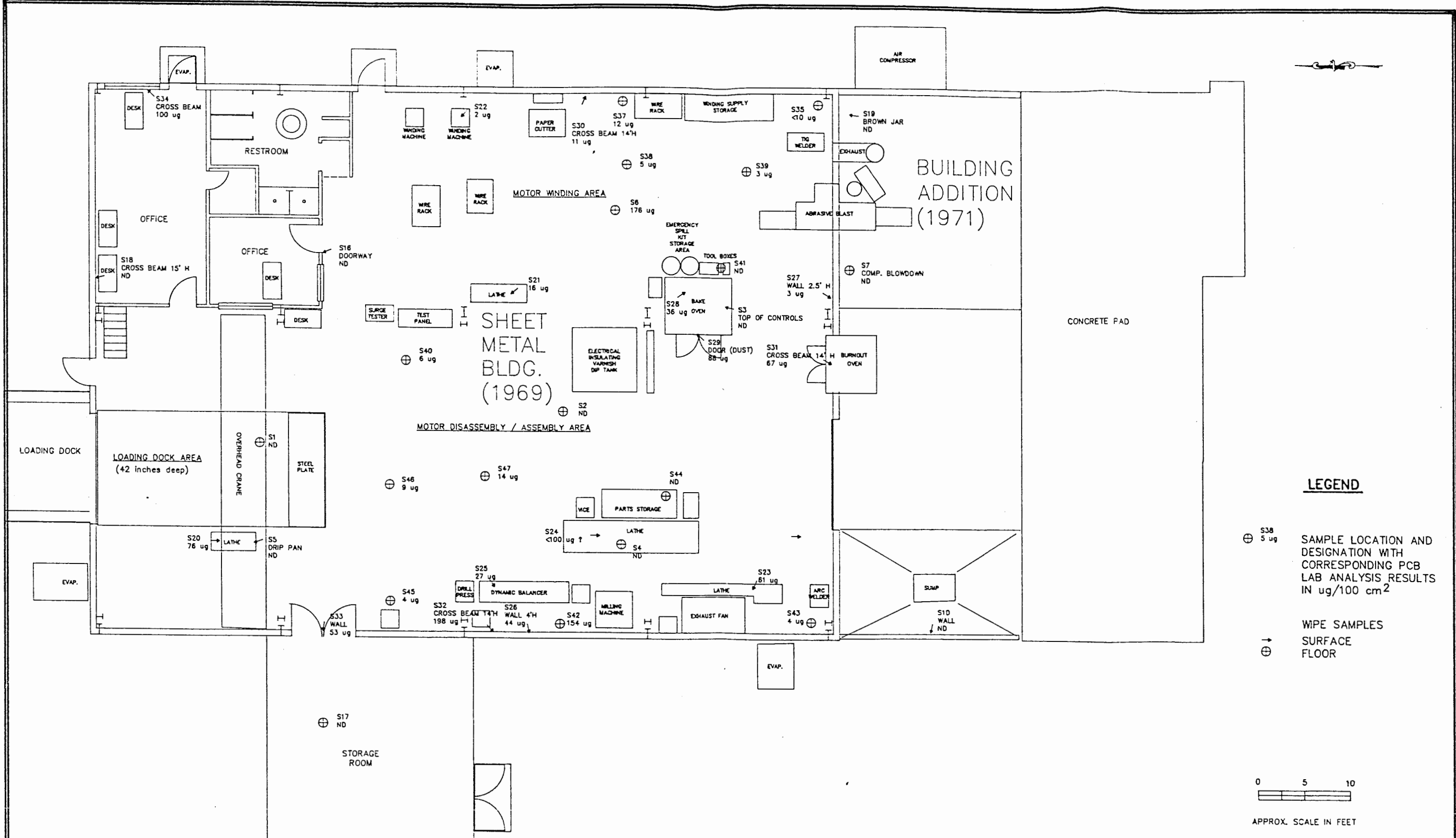
Handwritten signature of Mac Bowes in cursive script, followed by the initials "pm".

Mac Bowes
Project Supervisor

Handwritten signature of Alan C. Leggett in cursive script, followed by the initials "pm".

Alan C. Leggett
Project Manager

ACL/pad



GE SERVICE SHOP
ALBUQUERQUE, NEW MEXICO



WIPE SAMPLE LOCATIONS
OCTOBER 1987 AND JULY 1989

JOB NO. 55-4342 FIGURE 1

TABLE 1
 GE ALBUQUERQUE
 PROJECT NO. 10-9-3131

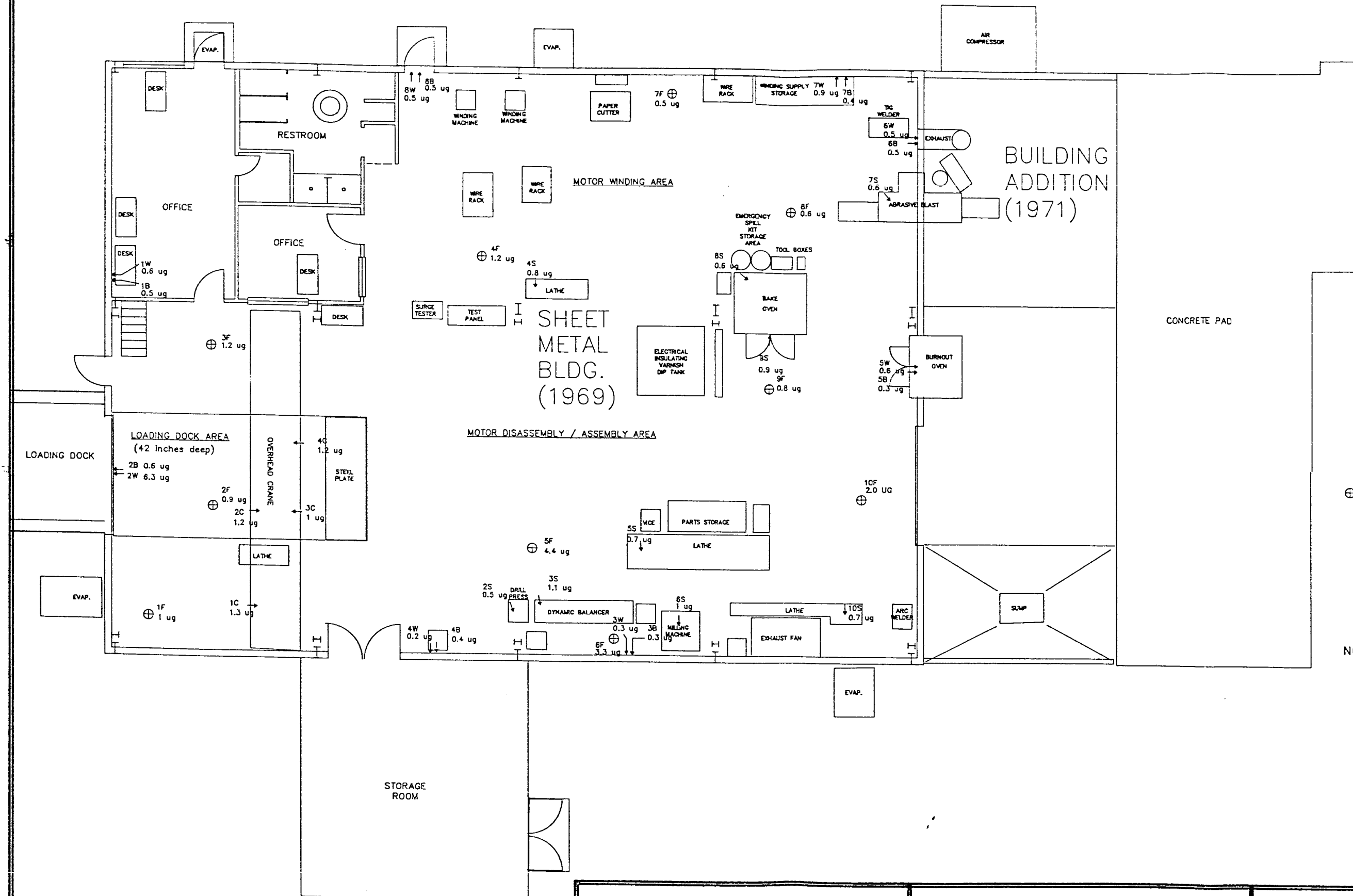
SAMPLE #	SAMPLE LOCATION	LAB RESULTS ug/wipe	AROCHELOR TYPE
1S	Lathe - NE Corner (BLANK - no lathe as indicated)	<.1	1260
2S	Drill Press - top - front housing	0.5	1260
3S	Dynamic Balancer - north end of platform	1.1	1260
4S	Lathe (center) - sample from southend on info-plate	0.8	1260
5S	Lathe (SW) - sample from top north end of lathe	0.7	1260
6S	Drilling machine (SW) - sample from top of drill base	1.0	1260
7S	Abrasive blast (Se) - sample from top north end	0.6	1260
8S	Bakeoven (south-cent) - sample from top NE corner	0.6	1260
9S	Bakeoven (south cent) - sample from top of oven doors	0.9	1260
10S	Lathe (SW corner) - sample from top south end\	0.7	1260
1F	Floor - NW corner	1.0	1260
2F	Floor - loading dock pit	0.9	1260
3F	Floor - walkway from front office	1.2	1260
4F	Floor - between refrigerator and workbench (NE)	1.2	1260
5F	Floor - work area north of parts storage	4.4	1260

TABLE 1 (cont'd)
 GE ALBUQUERQUE
 PROJECT NO. 10-9-3131

SAMPLE #	SAMPLE LOCATION	LAB RESULTS ug/wipe	AROCHLOR TYPE
6F	Floor - between wall and southend of dynamic balancer	3.3	1260
7F	Floor - between paper cutter and wire rack	0.5	1260
8F	Floor - north from abrasive blast-east from bakeoven	0.6	1260
9F	Floor - west from bakeoven doors	0.8	1260
10F	Floor - north from rear (south) garage door	2.0	1260
1B	Beam - North wall middle flange 3' eastward from west vert	0.5	1260
2B	Beam - North wall flange above n. garage door 7' from east vert.	0.6	1260
3B	Beam - West wall 9' from inner southern vertical - 3rd flange	0.3	1260
4B	Beam - West wall 8' northward from central vert. 2nd flange	0.4	1260
5B	Beam - South wall 5' eastward from garage door east vert. 1st flange up	0.3	1260
6B	Beam - South wall 6' from SE corner vert. 3rd flange up	0.5	1260
7B	Beam - East wall 7' from SE corner vert. 3rd flange up	0.4	1260
8B	Beam - East wall 10' northward from central vert. 2nd flange up	0.5	1260

TABLE 1 (cont'd)
 GE ALBUQUERQUE
 PROJECT NO. 10-9-3131

SAMPLE #	SAMPLE LOCATION	LAB RESULTS ug/wipe	AROCHLOR TYPE
1W	North wall - 1' above 1B	0.6	1260
2W	North wall - 1' above 2B	6.0	1260
3W	West wall - 1' above 3B	0.3	1260
4W	West wall - 1' above 4B	0.2	1260
5W	South wall - 1' above 5B	0.6	1260
6W	South wall - 1' above 6B	0.5	1260
7W	East wall - 1' above 7B	0.9	1260
8W	East wall - 1' above 8B	0.5	1260
1C	Crane - top sample 4 1/2' from west end of north bridge beam	1.3	1260
2C	Crane - top sample 14' from west end of north bridge beam	1.2	1260
3C	Crane - top sample 14' from west end of south bridge beam	1.0	1260
4C	Crane - top sample 21' from west end of south bridge beam	1.2	1260
10S Dup.	Lathe (SW Corner) - Sample from top south end	0.5	1260
10F Dup.	Floor - North from rear (south) garage door	2.1	1260
2W Dup.	North Wall - 1' above 1B	6.3	1260
4C Dup.	Crane - top sample 21' from west end of south bridge beam	1.2	1260



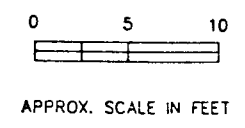
LEGEND

⊕ 0.6 ug SAMPLE LOCATION AND DESIGNATION WITH CORRESPONDING PCB LAB ANALYSIS RESULTS IN ug/100cm²

→ WIPE SAMPLES

⊖ SURFACE FLOOR

NOTE: SEE TABLE 1 FOR DETAILED DESCRIPTION OF SAMPLE LOCATIONS



GE SERVICE SHOP
ALBUQUERQUE, NEW MEXICO



VERIFICATION WIPE SAMPLE LOCATIONS
MARCH 1990

JOB NO. 55-4342 FIGURE 2

APPENDIX A

ZEP EZ MSDS SHEET



MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

ZEP MANUFACTURING COMPANY
FIRST IN MAINTENANCE PRODUCTS

DATE : 03/04/89 ZEP-EZ
SUPERSEDES: 02/21/88 PRODUCT NUMBER: 0778

SECTION I - EMERGENCY CONTACTS

ZEP MANUFACTURING COMPANY NON-OFFICE HOURS, WEEKENDS, AND HOLIDAYS: AREA CODE 404
P.O. BOX 2018 405-2973, 996-0899, 232-1887, 351-2952, 445-9226
ATLANTA, GEORGIA 30301 LOCAL POISON CONTROL CENTER
TELEPHONE (404) 522-1680 TRANSPORTATION EMERGENCY
BETWEEN 8:00 A.M. - 5:00 P.M. CHEMTREC: TOLL FREE 1-800-424-9300 ALL CALLS RECORDED
(EASTERN TIME ZONE) DISTRICT OF COLUMBIA (202) 426-7815 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS	TLV (PPM)	EFFECTS (SEE REVERSE)	% IN PRODUCT
** SODIUM METASILICATE ** silicic acid (H2-Si-O3) di-sodium salt; water glass; CAS# 6834-92-0; RTECS# WU270000; OSHA Dust Limit-2mg/m3 (for powders only).	N/D	CCR	5-1
** TETRASODIUM ETHYLENEDIAMINE TETRAACETATE ** ethylenediamine tetra-acetic acid; EDTA; CAS# 64-02-5; RTECS# AH025000; OSHA PEL-N/D	N/D	IRR	<
** PROPRIETARY TERMINATED ALKYL ARYL ETHER NON-IONIC SURFACTANT ** CAS# PROPRIETARY; RTECS# NONE	N/D		<
** POTASSIUM DODECYLBENZENE SULFONATE ** linear alkyl aryl sulfonate; CAS# 27177-77-1; RTECS# NONE; OSHA PEL N/D	N/D	IRR	<5
** TRIIODIUM ORTHOPHOSPHATE ** TSP; phosphoric acid; sodium salt; CAS# 7801-54-9; RTECS# TC9490000; OSHA PEL- N/D; STEL- N/D	N/D	IRR	<5
** D-LIMONENE ** orange distillate; citrus terpenes; cyclohexene, 1-methyl-4-(1-methylethyl)-, (R)-; CAS# 5989-27-8; RTECS# GN6360000; OSHA PEL N/D	N/D	CBL SEN	<5

SPECIAL NOTE: ADVERSE HEALTH EFFECTS WOULD NOT BE EXPECTED UNDER RECOMMENDED CONDITIONS OF USE SO LONG AS PRESCRIBED SAFETY PRECAUTIONS ARE PRACTICED.

SECTION III - HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE:
PRODUCT IN CONCENTRATED FORM IS A SEVERE EYE IRRITANT. OVER-EXPOSURE MAY LEAD EYE TISSUE DAMAGE WHICH CAN BE PERMANENT. SKIN CONTACT MAY PRODUCE IRRITATION. ONE OF THE INGREDIENTS IN THIS PRODUCT HAS CAUSED SENSITIZATION REACTIONS IN A SMALL PERCENTAGE OF THE GENERAL POPULATION.



MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

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ZEP MANUFACTURING COMPANY
FIRST IN MAINTENANCE PRODUCTS

DATE : 03/04/85 ZEP-EZ
SUPERSEDES: 02/21/85 PRODUCT NUMBER: 0778

SECTION VII - REACTIVITY DATA

STABILITY : STABLE
INCOMPATIBILITY(AVOID) : STRONG ACIDS AND OXIDIZING AGENTS
POLYMERIZATION : WILL NOT OCCUR.
HAZARDOUS DECOMPOSITION: CARBON DIOXIDE, CARBON MONOXIDE, & OXIDES OF SULFUR

SECTION VIII - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
OBSERVE SAFETY PRECAUTIONS IN SECTIONS 4 & 9 DURING CLEAN-UP. ABSORB SPILL ON AN INERT ABSORBENT MATERIAL (eg ZEP-D-CORB); PICK UP AND PLACE IN A CLEAN D.D. SPECIFICATION CONTAINER FOR DISPOSAL. WASH AREA THOROUGHLY WITH A DETERGENT, RINSE AND THEN RINSE WELL WITH WATER.

WASTE DISPOSAL METHOD:

LIMBIC LIQUID MAY BE SENT TO LANDFILLS UNLESS SOLIDIFIED. UNUSABLE PRODUCT AND SOME COLLECTED. SPENT USE-DILUTIONS MAY REQUIRE DISPOSAL AS A HAZARDOUS WASTE AT A PERMITTED TREATMENT/STORAGE/DISPOSAL FACILITY. IN MOST STATES HAZARDOUS WASTE IN TOTAL AMOUNTS OF 220 LBS. OR LESS PER MONTH MAY BE DISPOSED OF IN A CHEMICAL OR INDUSTRIAL WASTE LANDFILL. IF COMPANY EFFLUENT IS ULTIMATELY TREATED BY A PUBLICLY OWNED TREATMENT WORKS, NEUTRALIZATION OF SPENT TANK-SOLUTIONS WITH FREQUENT DISCHARGE TO THE SEWER MAY BE POSSIBLE. CONSULT LOCAL, STATE AND FEDERAL AGENCIES FOR PROPER DISPOSAL METHOD IN YOUR AREA.

RCRA HAZ WASTE NOS.: D001, D002 (SEE ABOVE)

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:
STORE TIGHTLY CLOSED CONTAINER IN A DRY AREA AT TEMPS. BETWEEN 40-120 DEGREES
KEEP PRODUCT AWAY FROM SKIN AND EYES.
DO NOT BREATHE SPRAY MISTS OR VAPORS.
KEEP AWAY FROM FOOD AND FOOD PRODUCTS.
STORE AWAY FROM STRONG ACIDS AND OXIDIZING COMPOUNDS.
KEEP OUT OF THE REACH OF CHILDREN.

SECTION X - TRANSPORTATION DATA

DOT PROPER SHIPPING NAME

NONE

DOT HAZARD CLASS: N/A

DOT I.D. NUMBER: N/A

DOT LABEL/PLACARD: NONE

U.S. TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED

PER OSHA 29 CFR PART 1910 SUBSTANCE(S) IN A SINGLE CONTAINER: SODIUM PHOSPHATE, (TRIBASIC) 8001#



MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

PAGE 2 OF

ZEP MANUFACTURING COMPANY
ST IN MAINTENANCE PRODUCTS

DATE : 03/04/99 ZEP-EZ
SUPERSEDES: 03/21/95 PRODUCT NUMBER: 0778

SECTION III - HEALTH HAZARD DATA (CONTINUED)

CHRONIC EFFECTS OF OVEREXPOSURE:

REPEATED OR PROLONGED SKIN CONTACT MAY PRODUCE CHRONIC INFLAMMATION OR DERMATITIS, CHARACTERIZED BY REDNESS, SCALING, OR ITCHING. REPEATED EYE EXPOSURE MAY PRODUCE CHRONIC INFLAMMATION OF THE EYE OR CORNEAL DAMAGE.
NONE OF THE HAZARDOUS INGREDIENTS ARE LISTED AS CARCINOGENS BY IARC, NTP, & OSHA

ESTD RELATV: NOT ESTABLISHED PRIMARY ROUTES OF ENTRY: N/A

HMIS CODES: HEALTH 2/FLAM. 2/REACT. 0/PERS. PROTECT. 5 /CHRONIC HAZ. NO

FIRST AID PROCEDURES:

SKIN : IMMEDIATELY FLUSH CONTAMINATED SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.
EYES : IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING UPPER AND LOWER LIDS. GET MEDICAL ATTENTION AT ONCE.
INHALE: MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION PROMPTLY.
INGEST: IF THIS PRODUCT IS SWALLOWED, DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION AT ONCE.

SECTION IV - SPECIAL PROTECTION INFORMATION

PROTECTIVE CLOTHING : WEAR NEOPRENE, NITRILE, OR NATURAL RUBBER GLOVES OR GLOVES WITH PROVEN RESISTANCE TO THE INGREDIENTS LISTED.
EYE PROTECTION : WEAR TIGHT-FITTING SPLASH-PROOF SAFETY GLASSES ESPECIALLY IF CONTACT LENSES ARE WORN.
RESPIRATORY PROTECTION: KEEP FACE AWAY FROM SPRAY MIST AND DO NOT BREATHE VAPORE.
VENTILATION : VENTILATION SHOULD BE EQUIVALENT TO OUTDOORS. USE EXHAUST FANS AND OPEN WINDOWS IN ENCLOSED SPACES.

SECTION V - PHYSICAL DATA

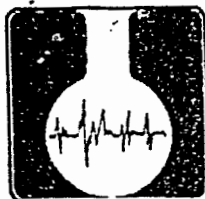
BOILING POINT (°F) : 215F SPECIFIC GRAVITY : 1.11
VAPOR PRESSURE(KMMHG): N/D PERCENT VOLATILE BY VOLUME (%) : WT. 7
VAPOR DENSITY(AIR=1): N/D EVAPORATION RATE(WATER =1): 1
SOLUBILITY IN WATER : COMPLETE PH(CONCENTRATE) : 12.6-12
PH(USE DILUTION OF 1:100) : 11.1-11
APPEARANCE AND ODOR : CLEAR, ORANGE LIQUID WITH CITRUS ODOR.

SECTION VI - FLAME AND EXPLOSION DATA

FLASH POINT(F, METHOD USED): 134 F (TCC)
FLAMMABLE LIMITS LEL N/D UEL N/D
EXTINGUISHING MEDIA : CO2, DRY CHEMICAL, FOAM
SPECIAL FIRE FIGHTING: NONE
UNUSUAL FIRE HAZARDS : NONE

APPENDIX B

LABORATORY ANALYTICAL REPORTS



ASSAIGAI ANALYTICAL LABORATORIES

TO: Ensite
5203 S. Royal Atlanta Drive
Tucker, GA 30084
ATTN: Mac Bowes

DATE: 19 March 1990
WORK ORDER NO: 2653

RECEIVED: 5 March 1990 @ 9:05 AM

ANALYTE: PCB, (wipe)

METHOD NO: EPA - 560/5 - 85 - 026 "Verification of PCB Spill Clean-up
by Sampling and Analysis" - August 198

PROJECT NO: 3131

PROJECT NAME: GE - Albuquerque

SAMPLE ID:	ANALYTICAL RESULTS	AROCHLOR TYPE
1S	<0.1 ug/wipe	---
2S	0.5 ug/wipe	1260
3S	1.1 ug/wipe	1260
4S	0.8 ug/wipe	1260
5S	0.7 ug/wipe	1260
6S	1.0 ug/wipe	1260
7S	0.6 ug/wipe	1260
8S	0.6 ug/wipe	1260
9S	0.9 ug/wipe	1260
10S	0.7 ug/wipe	1260
10S - duplicate	0.5 ug/wipe	1260
1F	1.0 ug/wipe	1260
2F	0.9 ug/wipe	1260
3F	1.2 ug/wipe	1260
4F	1.2 ug/wipe	1260
5F	4.4 ug/wipe	1260
6F	3.3 ug/wipe	1260
7F	0.5 ug/wipe	1260
8F	0.6 ug/wipe	1260
9F	0.8 ug/wipe	1260
10F	2.0 ug/wipe	1260
10F - duplicate	2.1 ug/wipe	1260
1B	0.5 ug/wipe	1260
2B	0.6 ug/wipe	1260
3B	0.3 ug/wipe	1260
4B	0.4 ug/wipe	1260
5B	0.3 ug/wipe	1260
6B	0.5 ug/wipe	1260
7B	0.4 ug/wipe	1260
8B	0.5 ug/wipe	1260

NOMINAL DETECTION LIMIT: 0.1 ug/wipe

ASSAIGAI ANALYTICAL LABORATORIES
 PAGE 2 OF 2
 DATE: 19 March 1990
 WORK ORDER: 2653

PROJECT NO: 3131
 PROJECT NAME: GE - Albuquerque

SAMPLE ID:	ANALYTICAL RESULTS	AROCHLOR TYPE
1W	0.6 ug/wipe	1260
2W	6.0 ug/wipe	1260
2W - duplicate	6.3 ug/wipe	1260
3W	0.3 ug/wipe	1260
4W	0.2 ug/wipe	1260
5W	0.6 ug/wipe	1260
6W	0.3 ug/wipe	1260
7W	0.9 ug/wipe	1260
8W	0.5 ug/wipe	1260
1C	1.3 ug/wipe	1260
2C	1.2 ug/wipe	1260
3C	1.0 ug/wipe	1260
4C	1.2 ug/wipe	1260
4C - duplicate	1.2 ug/wipe	1260

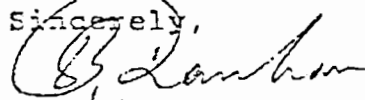
QUALITY CONTROL DATA

EPA - Quality Control - Arochlor 1260

DATE	AROCHLOR	TRUE VALUE	FOUND VALUE
3/16/90	1260	50.0 ug/g	58.7 ug/g
3/19/90	1260	50.0 ug/g	44.4 ug/g

An invoice for services is enclosed. Thank you for contacting Assaigai Laboratories.

Sincerely,



Balwant Chauhan, Ph.D.
 Laboratory Director