

Dept. of Environmental Reg. West Palm Beach

 C_{i}^{*}

HAZARDOUS WASTE

CONSTRUCTION AND OPERATING PERMIT APPLICATION

HAZARDOUS WASTE STORAGE FACILITY

SAFETY-KLEEN CORP.

SERVICE CENTER

BOYNTON BEACH, FL

APRIL 20, 1988

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| I.E.3-2 | Dry Cleaner Waste Drum Specifications (3 pages) |
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| I.E.3-4 | Dry Cleaning Filter Tube Specifications (4 pages) |
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ATTACHMENT I.A

EXISTING OR PENDING ENVIRONMENTAL PERMITS

APPLICATION FOR A HAZARDOUS WASTE FACILITY PERMIT PART I - GENERAL TO BE COMPLETED BY ALL APPLICANTS

| | ease Type or Print |
|-----------|---|
| <u>A.</u> | GENERAL INFORMATION / |
| 1. | TYPE OF FACILITY: |
| | LANDFILL LAND TREATMENT SURFACE IMPOUNDMENT |
| | CONTAINERS X TANKS X PILES SURFACE IMPOUNDMENT |
| | TANKS PILES INCINERATION SURFACE IMPOUNDMENT THERMAL CHEMICAL PHYSICAL BIOLOGICAL |
| 2. | TYPE OF APPLICATION: TOP X CONSTRUCTION DERATION CLOSURE |
| 3. | DATE CURRENT OPERATION BEGAN (OR IS EXPECTED TO BEGIN):JUNE 1, 1989 |
| | FACILITY NAME: SAFETY-KLEEN CORP. (3-097-01) |
| 5. | EPA/DER I.O. NO.: (applied For) |
| 6. | FACILITY LOCATION OR STREET ADDRESS: Lot 46B, Quantum Industrial Park |
| 7. | FACILITY MAILING ADDRESS: 777 BIG TIMBER ROAD, ELGIN, ILLINOIS 60123 STREET OR P.O. BOX CITY STATE 71P |
| Ď | |
| 8. | CONTACT PERSON: PAUL PENDERSON TITLE: REGIONAL ENVIROMENTAL ENGINEER TELEPHONE: (312) 697-8460 |
| | MAILING ADDRESS: 777 BIG TIMBER ROAD, ELGIN, ILLINOIS 60123 |
| | STREET OR P.O. BOX CITY STATE ZIP |
| 9. | OPERATOR'S NAME: SAFETY; KLEEN CORP. (3-097-01) TELEPHONE: (312) 697-8460 |
| 10. | OPERATOR'S ADDRESS: 777 BIG TIMBER ROAD ELGIN, ILLINOIS 60123 |
| | |
| LI, | FACILITY OWNER'S NAME: SAFETY-KLEEN CORP. TELEPHONE: (312) 697-8460 |
| 12. | FACILITY OWNER'S ADDRESS: 777 BIG TIMBER ROAD, ELGIN, ILLINOIS 60123 STREET OR P.O. BOX CITY STATE ZIP |
| 13. | LEGAL STRUCTURE: X CORPORATION NON-PROFIT CORPORATION PARTNERSHIP INDIVIDUAL LOCAL GOVERNMENT STATE GOVERNMENT FEDERAL GOVERNMENT |
| 4. | IF AN INDIVIDUAL, PARTNERSHIP, OR BUSINESS IS PERFORMED UNDER AN ASSUMED NAME, SPECIFY COUNTY AND STATE WHERE NAME IS REGISTERED. COUNTY: STATE |
| 5. | IF A CORPORATION, INDICATE STATE OF INCORPORATION WISCONSIN |

| . 16. | IF AN INDIVIDUAL OR PA NAME: ADDRESS: | RTNERSHIP, | LIST OWNERS: | | | |
|---------|--|-------------------------|------------------|-------------------------------|----------------------------|---------------|
| | | OR P.O. BO | X | CITY | STATE | ZIP |
| | | OR P.O. BO | X | CITY | STATE | ZIP |
| | | OR P.O. BO | X | CITY | STATE | ZIP |
| | | OR P.O. BO. | X | CITY | STATE | ZIP |
| 17. | SITE OWNERSHIP STATUS: PRESENTLY LEASED: E LAND OWNER'S NAME LAND OWNER'S ADDRESS | X OWNER | DATE TO BE PUR | CHASED TO | D BE LEASED _ ED, GIVE: | YEARS |
| | | TREET OR I | P.O. BOX | CITY | STATE | ZIP |
| 18. | ENGINEER: JOHN FORNE ADDRESS: WANG ENGINEE | RING, INC. | 4300-P LINCOLN | ON NO.: 39232 AVE, ROLLING | MEADOWS, IL | 60008 |
| | ASSOCIATED WITH:WANG | VIKEFI OD O | יאם מינ | CITY | STATE | ZIP |
| 19. | FACILITY LOCATED ON INC | | YES X N |) | | - |
| | EXISTING OR PENDING EN | | | | | |
| | NAME OF PERMIT | AGENCY | PERMIT NUMBER | DATE ISSUED | 1 | RATION ATE |
| | | - | | | | |
| | | | | | | |
| | | | | | | |
| R. | SITE INFORMATION | • | | | | |
| | | <u> </u> | | | | |
| 1. | FACILITY LOCATION: COUN LATITUDE: <u>26° 32'</u> | TY: <u>PALM</u> | BEACH NE | AREST COMMUNI E 80° 04' 5 | TY: BOYNTON E | BEACH |
| 2. | AREA OF FACILITY SITE (| ACRES): | 2.2 | | | |
| 3. | ATTACH TOPOGRAPHIC MAPS SHEET FOR THIS PART. | WHICH SHO | W ALL THE FEATUR | ES INDICATED | IN THE INSTRU | JCTION |
| 4. | IS THE SITE LOCATED IN ATTACH ALL INFORMATION | A 100-YEAR INDICATED | FLOOD PLAIN? [| YES X NO |) [HIS DADT | |

| <u>u.</u> | LAND USE INFORMATION |
|-----------|---|
| 1, | PRESENT ZONING OF THE SITE? PID |
| 2. | IF A ZONING CHANGE IS NEEDED, WHAT SHOULD NEW ZONING BE? N/A |
| 3. | PRESENT LAND USE OF SITE PLANNED INDUSTRIAL DEVELOPMENT |
| | |
| D. | OPERATING INFORMATION |
| 1. | IS WASTE GENERATED ON SITE? X YES NO LIST THE SIC CODES (4-DIGIT) 5084 NO LIST THE SIC CODES (4-DIGIT) |

- 2. ATTACH A DESCRIPTION OF THE OPERATION INCLUDING (a) A BRIEF DESCRIPTION OF THE NATURE OF THE BUSINESS; (b) A SPECIFICATION OF THE HAZARDOUS WASTE LISTED OR DESIGNATED IN 40 CFR PART 261 TO BE TREATED, STORED, OR DISPOSED AT THE FACILITY; (c) AN ESTIMATE OF THE ANNUAL QUANTITY OF SUCH WASTE; AND (d) PROCESSES USED FOR TREATING, STORING, OR DISPOSING OF HAZARDOUS WASTE AND THE DESIGN CAPACITY OF THOSE PROCESSES.
- *3. ATTACH A COPY OF THE REPORTS OF THE CHEMICAL AND PHYSICAL ANALYSES OF THE HAZARDOUS WASTES HANDLED AT THE FACILITY, INCLUDING ALL INFORMATION WHICH MUST BE KNOWN TO TREAT, STORE, OR DISPOSE OF THE WASTES IN ACCORDANCE WITH §264.13(a).
- *4. ATTACH A COPY OF THE WASTE ANALYSIS PLAN REQUIRED BY §264.13.
 - 5. ATTACH A SCALE DRAWING OF THE FACILITY SHOWING THE LOCATION OF ALL PAST, PRESENT, AND FUTURE TSD AREAS. ALSO SHOW THE TRAFFIC PATTERN INCLUDING ESTIMATED VOLUME AND CONTROL.
- *6. ATTACH A COPY OF THE PROCEDURES USED TO COMPLY WITH §264.12 AND 40 CFR PART 264, SUBPART E (MANIFEST SYSTEM, RECORD KEEPING, AND REPORTING).

E. FACILITY SECURITY INFORMATION

- *1. ATTACH A DESCRIPTION OF THE SECURITY PROCEDURES AND EQUIPMENT REQUIRED BY §264.14.
- *2. ATTACH A COPY OF THE CONTINGENCY PLAN REQUIRED BY 40 CFR PART 264, SUBPART D.
- 3. ATTACH A DESCRIPTION OF PROCEDURES, STRUCTURES, OR EQUIPMENT USED AT THE FACILITY TO:
 - a. MITIGATE EFFECTS OF EQUIPMENT FAILURE AND POWER OUTAGES;
 - b. PREVENT HAZARDS IN UNLOADING OPERATIONS (i.e., RAMPS, SPECIAL FORKLIFTS);
 - c. PREVENT UNDUE EXPOSURE OF PERSONNEL TO HAZARDOUS WASTE (i.e., PROTECTIVE CLOTHING);
 - d. PREVENT CONTAMINATION OF WATER SUPPLIES;

- e. PREVENT RUN-OFF FROM HAZARDOUS WASTE HANDLING AREAS TO OTHER AREAS OF THE FACILITY OR ENVIRONMENT, OR TO PREVENT FLOODING (i.e., BERMS, DIKES, TRENCHES);
- *f. PREVENT ACCIDENTAL IGNITION OR REACTION OF IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTES.
- *4. ATTACH A DESCRIPTION OF THE PREPAREDNESS AND PREVENTION PROCEDURES REQUIRED BY 40 CFR PART 264, SUBPART C, INCLUDING DESIGN AND OPERATION OF THE FACILITY, REQUIRED EQUIPMENT, TESTING AND MAINTENANCE OF EQUIPMENT, ACCESS TO COMMUNICATIONS OR ALARM SYSTEM, REQUIRED AISLE SPACE, AND ARRANGEMENTS WITH LOCAL AUTHORITIES.
- *5. ATTACH AN OUTLINE OF BOTH THE INTRODUCTORY AND CONTINUING TRAINING PROGRAMS USED TO PREPARE PERSONS TO OPERATE OR MAINTAIN THE HWM FACILITY IN A SAFE MANNER AS REQUIRED TO DEMONSTRATE COMPLIANCE WITH §264.16.

F. FINANCIAL RESPONSIBILITY INFORMATION

- 1. ATTACH THE MOST RECENT CLOSURE COST ESTIMATES FOR THE FACILITY, PREPARED IN ACCORDANCE WITH §264.142*, PLUS A COPY OF THE FINANCIAL ASSURANCE MECHANISM ADOPTED IN COMPLIANCE WITH §264.143.
- 2. WHERE APPLICABLE, ATTACH THE MOST RECENT POST-CLOSURE COST ESTIMATE FOR THE FACILITY, PREPARED IN ACCORDANCE WITH §264.144, PLUS A COPY OF THE FINANCIAL ASSURANCE MECHANISM ADOPTED IN COMPLIANCE WITH §264.145, OR §264.146 IF APPROPRIATE.
- 3. WHERE APPLICABLE, ATTACH A COPY OF THE INSURANCE POLICY OR OTHER DOCUMENTATION WHO COMPRISES COMPLIANCE WITH THE REQUIREMENTS OF §264.147. FOR A NEW FACILITY, DOCUMENTATION SHOWING THE AMOUNT OF INSURANCE MEETING THE SPECIFICATION OF §264.147(a) AND, IF APPLICABLE, §264.147(b), THAT THE OWNER OR OPERATOR PLANS TO HAVE IN EFFECT BEFORE INITIAL RECEIPT OF HAZARDOUS WASTE FOR TREATMENT, STORAGE, OR DISPOSAL. A REQUEST FOR A VARIANCE IN THE AMOUNT OF REQUIRED COVERAGE, FOR A NEW OR EXISTING FACILITY, MAY BE SUBMITTED AS SPECIFIED IN §264.147(c).

^{*}THIS STANDARD IS SUBSTANTIALLY IDENTICAL TO THE CORRESPONDING 40 CFR PART 265 STANDARD.

A. 40 CFR PART 265

ALL PART 265 REQUIREMENTS ARE SUBSTANTIALLY IDENTICAL TO THOSE IN PART 264. APPLICANTS MUST COMPLY WITH THE REQUIREMENTS IN NUMBERS 2, 3, 4, 5, AND 6 IN SECTION B BELOW:

B. 40 CFR PART 264

- 1. ATTACH THE REQUIREMENTS OF EITHER (a) OR (b):
 - (a) DEMONSTRATE COMPLIANCE WITH §264.175(c) BY ATTACHING:
 - (1) TEST PROCEDURES AND RESULTS OR OTHER DOCUMENTATION OR INFORMATION TO SHOW THAT THE WASTES DO NOT CONTAIN FREE LIQUIDS; AND
 - (2) A DESCRIPTION OF HOW THE STORAGE AREA IS DESIGNED OR OPERATED TO DRAIN AND REMOVE LIQUIDS OR HOW CONTAINERS ARE KEPT FROM CONTACT WITH STANDING LIQUIDS.
 - (b) DESCRIBE THE CONTAINMENT SYSTEM TO SHOW COMPLIANCE WITH §264.175(b) BY ATTACHING:
 - (1) BASIC DESIGN PARAMETERS, DIMENSIONS, AND MATERIALS OF CONSTRUCTION.
 - (2) HOW THE DESIGN PROMOTES DRAINAGE OR HOW CONTAINERS ARE KEPT FROM CONTACT WITH STANDING LIQUIDS IN THE CONTAINMENT SYSTEM.
 - (3) CAPACITY OF THE CONTAINMENT SYSTEM RELATIVE TO THE NUMBER AND VOLUME OF CONTAINERS TO BE STORED.
 - (4) PROVISIONS FOR PREVENTING OR MANAGING RUN-ON.
 - (5) HOW ACCUMULATED LIQUIDS CAN BE ANALYZED AND REMOVED TO PREVENT OVERFLOW.
- *2. ATTACH SKETCHES, DRAWINGS, OR DATA DEMONSTRATING COMPLIANCE WITH §264.176 (SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTES) AND §264.177(c) (SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES) WHERE APPLICABLE.
- *3. WHERE INCOMPATIBLE WASTES ARE STORED OR OTHERWISE MANAGED IN CONTAINERS, ATTACH A DESCRIPTION OF THE PROCEDURES USED TO ENSURE COMPLIANCE WITH §§264.177(a) AND (b) (SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTE) AND §264.17 (GENERAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE).
- *4. ATTACH A DESCRIPTION OF THE PROCEDURES USED TO COMPLY WITH §264.171 (CONDITION OF CONTAINERS), §264.172 (COMPATIBILITY OF WASTE WITH CONTAINERS), AND §264.173 (MANAGEMENT OF CONTAINERS).
- *5. ATTACH A COPY OF THE INSPECTION PROCEDURES AS REQUIRED IN §264.174 (INSPECTIONS) AND §264.15 (GENERAL INSPECTION REQUIREMENTS).
- 6. ATTACH A COPY OF THE CLOSURE PLAN AS REQUIRED BY \$\$264.112* and 264.178.
- *THIS STANDARD IS SUBSTANTIALLY IDENTICAL TO THE CORRESPONDING 40 CFR PART 265 STANDARD.

A. 40 CFR PART 265

- 1. ATTACH A DESCRIPTION OF THE DESIGN AND OPERATION PROCEDURES WHICH DEMONSTRATE COMPLIANCE WITH §265.192 INCLUDING: %
- a. THE COMPATIBILITY OF WASTES OR REAGENTS WITH THE TANK OR ITS LINER.
- b. FOR UNCOVERED TANKS, DESCRIPTION OF THE FREEBOARD, CONTAINMENT STRUCTURE, DRAINAGE CONTROL, OR DIVERSION CONTROL SYSTEM.
- c. FOR TANKS WITH A CONTINUOUS FEED, A DESCRIPTION OF THE FEED CUT-OFF OR BY-PASS SYSTEM.
- 2. FOR TANKS USED TO TREAT OR STORE A DIFFERENT WASTE OR TREAT THE SAME WASTES BY DIFFERENT PROCESSES, ATTACH EITHER A WASTE ANALYSIS AND TRIAL TREATMENT OR STORAGE TESTS, OR ATTACH DOCUMENTED INFORMATION ON SIMILAR STORAGE OR TREATMENT, AS REQUIRED IN §265.193.

B. 40 CFR PART 264

- 1. ATTACH A DESCRIPTION OF DESIGN AND OPERATION PROCEDURES WHICH DEMONSTRATE COMPLIANCE WITH THE REQUIREMENTS OF §§264.191, 264.192, 264.198, 264.199 AND 264.17 INCLUDING:
 - a. REFERENCES TO DESIGN STANDARDS OR OTHER AVAILABLE INFORMATION USED (OR TO BE USED) IN DESIGN AND CONSTRUCTION OF THE TANK.
 - b. A DESCRIPTION OF DESIGN SPECIFICATIONS INCLUDING IDENTIFICATION OF CONSTRUCTION MATERIALS AND LINING MATERIALS (INCLUDE PERTINENT CHARACTERISTICS SUCH AS CORROSION OR EROSION RESISTANCE).
 - c. TANK DIMENSIONS, CAPACITY, AND SHELL THICKNESS.
 - d. A DIAGRAM OF PIPING, INSTRUMENTATION, AND PROCESS FLOW.
 - e. DESCRIPTION OF FEED SYSTEMS, SAFETY CUT-OFF, BY-PASS SYSTEMS, AND PRESSURE CONTROLS (e.g., VENTS).
 - *f. DESCRIPTION OF PROCEDURES FOR HANDLING INCOMPATIBLE IGNITABLE, OR REACTIVE WASTES, INCLUDING THE USE OF BUFFER ZONES.
- 2. ATTACH INSPECTION PROCEDURES INCLUDING:
 - *a. THE DAILY AND WEEKLY INSPECTION OF THE EQUIPMENT OR OPERATIONS AS REQUIRED IN §264.194(a).
 - b. THE INSPECTION SCHEDULE AND PROCEDURES REQUIRED IN §264.194(b) AND (c).
 - *c. THE INSPECTION REQUIREMENTS IN §264.15.
- *3. ATTACH A COPY OF THE CLOSURE PLAN AS REQUIRED BY §§264.112 AND 264.197.
- *THIS STANDARD IS SUBSTANTIALLY IDENTICAL TO THE CORRESPONDING 40 CFR PART 265 STANDARD.

APPLICATION FOR A HAZARDOUS WASTE FACILITY PERMIT CERTIFICATION TO BE COMPLETED BY ALL APPLICANTS

OPERATOR

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSON DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION SUBMITTED IS, TO BE THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. FURTHER, I AGREE TO COMPLY WITH THE PROVISIONS OF CHAPTER 403, FLORIDA STATUTES, AND ALL RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL REGULATION. IT IS UNDERSTOOD THAT THE PERMIT IS ONLY TRANSFERABLE IN ACCORDANCE WITH SECTION 17-30, FAC, AND, IF GRANTED A PERMIT, THE DEPARTMENT OF ENVIRONMENTAL REGULATION WILL BE NOTIFIED PRIOR TO THE SALE OR LEGAL TRANSFER OF THE PERMITTED FACILITY.

SIGNATURE OF THE OPERATOR OR AUTHORIZED REPRESENTATIVE*

David A. Dattilo, Vice President, Sales and Service Scott E. Fore, Vice President, Environment, Health and Safet

NAME AND TITLE (PLEASE TYPE OR PRINT)

DATE: 4//8/88

TELEPHONE NO. (312) 697-8460

*ATTACH A LETTER OF AUTHORIZATION

2. FACILITY OWNER

THIS IS TO CERTIFY THAT I UNDERSTAND THIS APPLICATION IS SUBMITTED FOR THE PURPOSE OF OBTAINING A PERMIT TO CONSTRUCT, OPERATE, OR CLOSE A HAZARDOUS WASTE MANAGEMENT FACILITY ON THE PROPERTY AS DESCRIBED. AS OWNER OF THE FACILITY, I UNDERSTAND FULLY THAT THE FACILITY OPERATOR AND I ARE JOINTLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF CHAPTER 403, FLORIDA STATUTES, AND ALL RULES AND REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL REGULATION.

STONATURE OF THE FACILITY OWNER OR AUTHORIZED REPRESENTATIVE

David A. Dattilo, Vice President, Sales and Service Scott E. Fore, Vice President, Environment, Health and Safe

NAME AND TITLE (PLEASE TYPE OR PRINT)

DATE: 4/18/80

TELEPHONE NO. (312) 697-8460

*ATTACH A LETTER OF AUTHORIZATION 4/19/82

| LAND OWNER | | |
|--|---|--|
| | G A PERMIT TO CONSTRUCT, O N THE PROPERTY AS DESCRIBE UNDERSTAND THAT I AM RESPO Y REQUIRED BY 40 CFR \$264. | PERATE, OR CLOSE A D. FOR HAZARDOUS INSIBLE FOR PROVIDING 119 AND \$265.119, AS |
| David A. Datt Scott E. Fore | ilo, Vice President, Sale , Vice President, Environ | es and Service |
| NAME AND TITLE | (PLEASE TYPE OR PRINT) | |
| DATE: 4// | 18/86 TELEPHONE N | 0. (312) 697-8460 |
| *ATTACH A LETTER OF AUTHORIZATION | 19/88 | |
| PROFESSIONAL ENGINEER REGISTERED IN FL | _ORIDA (WHERE REQUIRED BY | CHAPTER 471. F.S 📥 |
| THIS IS TO CERTIFY THAT THE ENGINEERIN FACILITY HAVE BEEN DESIGNED/EXAMINED E PRINCIPLES APPLICABLE TO SUCH FACILITY FACILITY, WHEN PROPERLY CONSTRUCTED, NOW ALL APPLICABLE STATUTES OF THE STENVIRONMENTAL REGULATION. | NG FEATURES OF THIS HAZARD BY ME AND FOUND TO CONFORM IES. IN MY PROFESSIONAL J MAINTAINED AND OPERATED. O | OUS WASTE MANAGEME TO ENGINEERING UDGMENT, THIS R CLOSED. WILL COMPLY |
| SIGNATURE John & Imel | MAILING ADDRESS Wang Er | ngineering, Inc. |
| NAME John T. Fornek (PLEASE TYPE) | 4300-P Lincoln Av | R P.O. BOX |
| | Rolling Meadows, IL. | 60008 STATE ZIP |
| | (312) 991-0905 | 4/21/88 |
| | TELEPHONE NO. | DATE |

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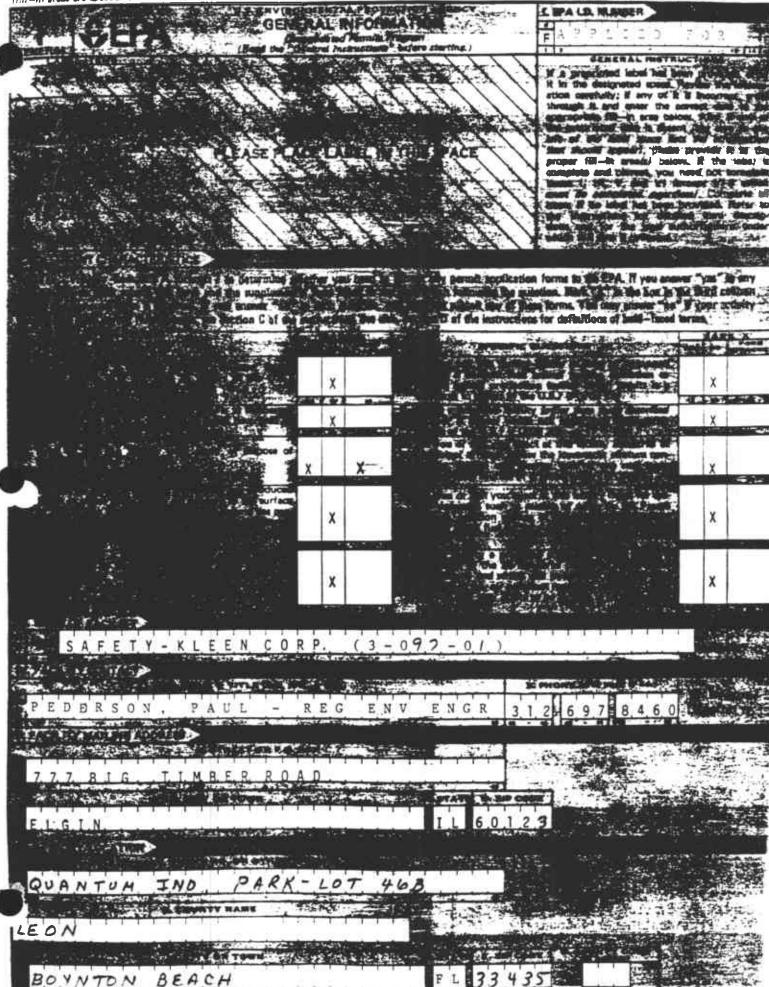
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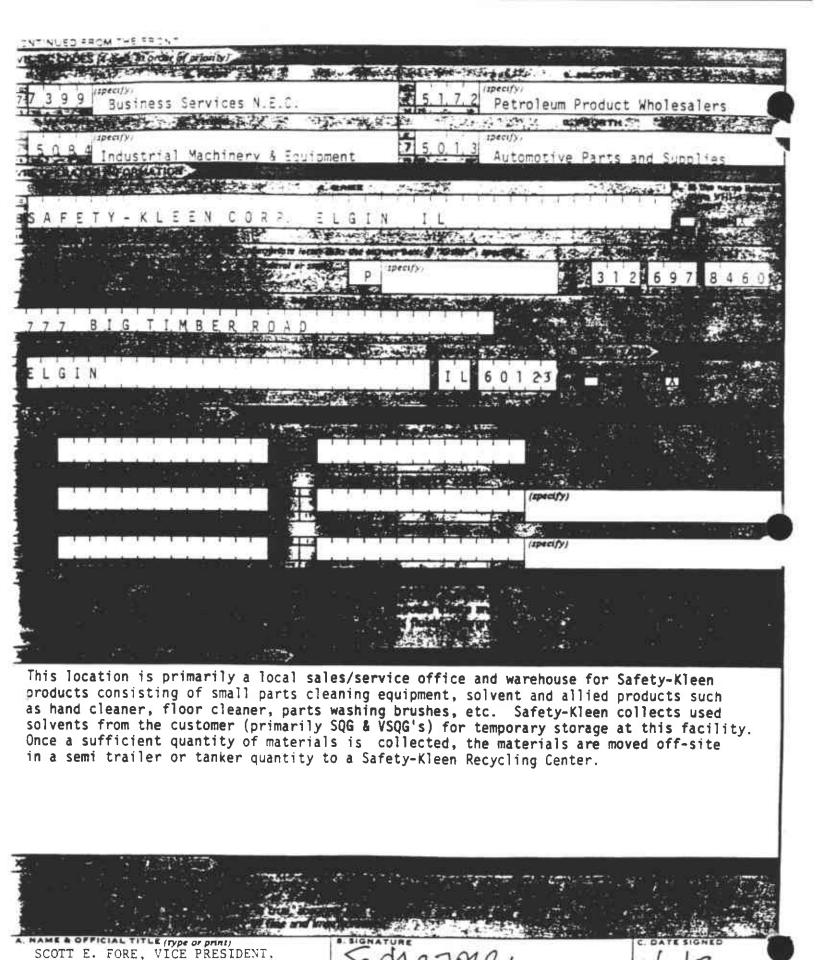
FLORIDA REGISTRATION NUMBER:

(Please Affix Seal)

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ENVIRONMENT, HEALTH AND SAFETY

CALL COMPANY A

| FORM OF EDA | | U.S. ENVIRONMENTAL PRO ZARDOUS WASTE PER | MIT APPLICATION | . EPA I.D. | NUMBER |
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| I. FIRST OR REVISED APPL | ICATI | ON | | | |
| evised application, it this is your to EPA 1.D. Number in Item I above. | irst app | lication and you already know you | indicate whether this is the first appli ur facility's EPA I.D. Number, or if th | ication you is is a revise | are submitting for your facility diapolication, enter your facility |
| A. FIRST APPLICATION (place | | | | | |
| 71 | Comple | tructions for definition of "existin ete item below.) | जर | 2.NEW FA | CILITY (Complete item below) FOR NEW FACILITY |
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| B. REVISED APPLICATION (| place or | "X" below and complete Item I | above) | 74 79 7 | 77 74 |
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| III. PROCESSES – CODES AN | ID DE | SIGN CAPACITIES | | | |
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other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour. A facility has two storage tanks, one tank can hold 200 gallons and the

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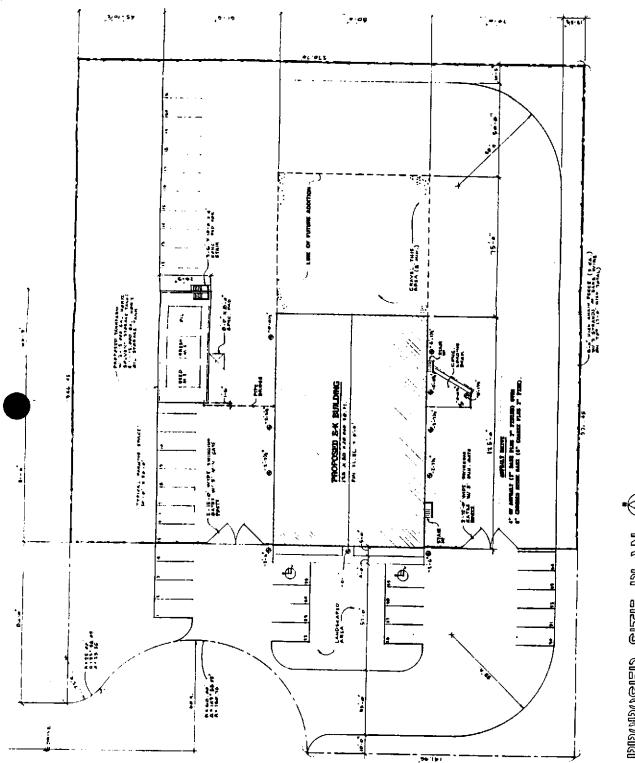
| EPA I.O. NUMBER (enter from page 1) | | | | | | \ \ \ Y | | FOR OFFICIAL USE ONLY | | | |
|-------------------------------------|---|------|----------|-------------|----------------------|---|----------|-----------------------------|--|---|--------------------|
| T A | P | P | T. | T | ED FOR 1 | | | w | DUP | 2 DUP | / / / j / / / / |
| <u>'</u> | DE: | SC F | RIP | TIC | N OF HAZARDOUS WASTI | ES (co | יוז מכ | | | • | |
| | A. EPA HAZARD. WASTENOI .enter codc? | | | D. | B. ESTIMATED ANNUAL | C. UNIT OF MEA- SURE renter codel | | | | D. PROCESSES | |
| NON | | | | | | | | 1. PROCESS CODES (enter) | | 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) | |
| 1 | D D | 0 | 10 | 1 | | - i | • · | S 0 2 50 1 | 87 - 80 87 - | Spent mineral | spirits |
| 2 | D | 0 | 0 | 8 | | | | | | Included with | above |
| 3 | F | 0 | 0 | 2 | 31 | | T | S 0 1 | | Spent immersi | on cleaner |
| 4 | F | 0 | 0 | 4 | | | | | | Included with | above |
| 5 | F | 0 | 0 | 2 | 350 | | ! T | S 0 1 | | Dry cleaner w | astes |
| 6 | F | 0 | 0 | 3 | 50 | | <u> </u> | s 0 1 | | Paint wastes | |
| 7 | F | 0 | 0 | 5 | | - | - | | | Included with | above |
| 8 | D | 0 | 0 | 1 | | | | | | Included with | above |
| 9 | D | 0 | 0 | 6 | · | | | | | Included with | above |
| 10 | D | 0 | 0 | 7 | | | | | | Included with | above |
| | D | 0 | 0 | 8 | | | | | | Included with | above |
| 12 | | | ! ! | | | | | | | | |
| 13 | | | | | | 1 | | | | | _ |
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| D [‡] | | | _ | | | | | | | | |
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| 26 | | | <u> </u> | 1. | 27 | | | \$7_ · 30 \$7 · 20 | | <u> </u> | |
| EPA | For | m 3 | 3510 | -3 (| 6-80) | | | · - | | | CONTINUE ON REVERS |

| E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES | FROM ITEM D(I) ON PAGE 3. |
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| 504 I D NO (04 for for 1994) | |
| EPA I.D. NO. (enter from page 1) | |
| 12 14 11 | |
| 7. FACILITY DRAWING All existing facilities must include in the space provided on page 5 a scale dra | |
| /I. PHOTOGRAPHS | wing of the facility (see instructions for more detail). |
| All existing facilities must include photographs (aerial or ground—le | vel) that clearly delineate all existing structures; existing storage. |
| treatment and disposal areas; and sites of future storage, treatment /II. FACILITY GEOGRAPHIC LOCATION | or disposal areas (see instructions for more detail). |
| LATITUDE (degrees, minutes, & seconds) | LONGITUDE (degrees minutes A second) |
| 2 4 3 2 2 3 N | LONGITUDE (degrees, minutes, & seconds) |
| AN EACH IT CHINES | 70 0 7 5 5 W |
| /III. FACILITY OWNER | |
| skip to Section IX below. | III on Form 1, "General Information", place an "X" in the box to the left and |
| 8. If the facility owner is not the facility operator as listed in Section V | If on Form 1, complete the following items: |
| 1. NAME OF FACILITY'S LEGAL OF | NNER 2. PHONE NO. (area code & no.) |
| | |
| 3. STREET OR P.O. BOX | 93 10 - 34 30 - 41 A2 - 41 |
| 5-1 | 4. CITY OR TOWN 5. ST 6. ZIP CODE |
| 47 13 14 | 99 41 44 47 51 |
| X. OWNER CERTIFICATION | |
| certify under penalty of law that I have personally examined and a documents, and that based on my inquiry of those individuals imme | distally recognible for observing the information I believe that the |
| abinitted information is true, accurate, and complete. I am aware ti | nat there are significant penalties for submitting false information, |
| releasing the possibility of this and imprisonment. | |
| SCOTT E. FORE, VICE PRESIDENT, | C. DATE SIGNED |
| ENVIRONMENT, HEALTH AND SAFETY | 2. +(1/2/1/88) |
| C, OPERATOR CERTIFICATION | |
| certify under penalty of law that I have personally examined and a | n familiar with the information submitted in this and all attached |
| documents, and that based on my inquiry of those individuals immedubilitied information is true, accurate, and complete. I am aware the | Diately responsible for obtaining the information, I believe that the lat there are significant penalties for submisting (Assession |
| ncluding the possibility of fine and imprisonment. | Na San San San San San San San San San Sa |

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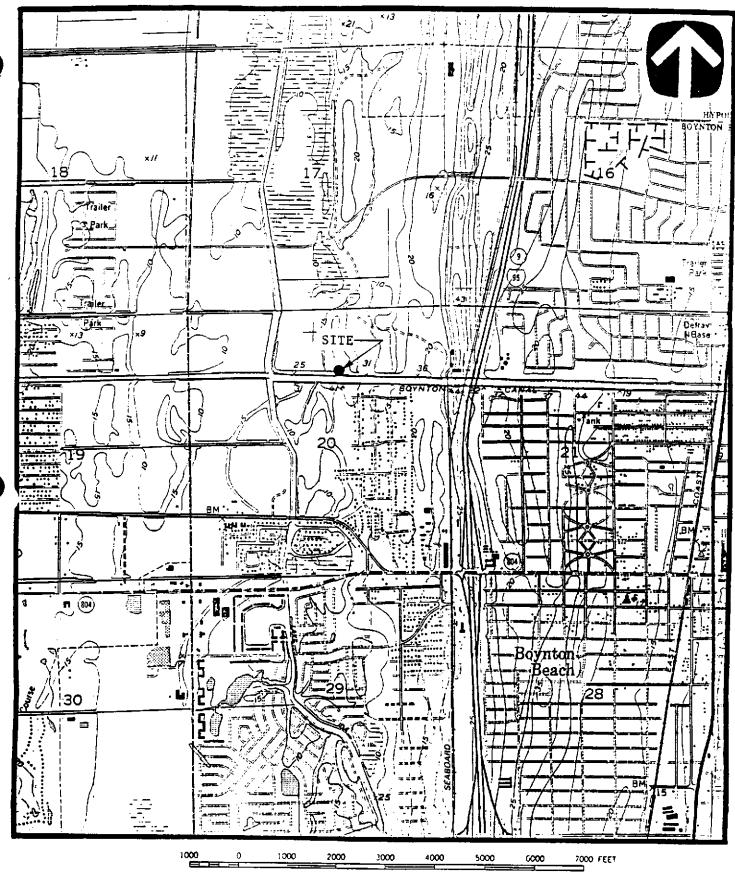
IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

SCOTT E. FORE, VICE PRESIDENT ENVIRONMENT, HEALTH AND SAFETY



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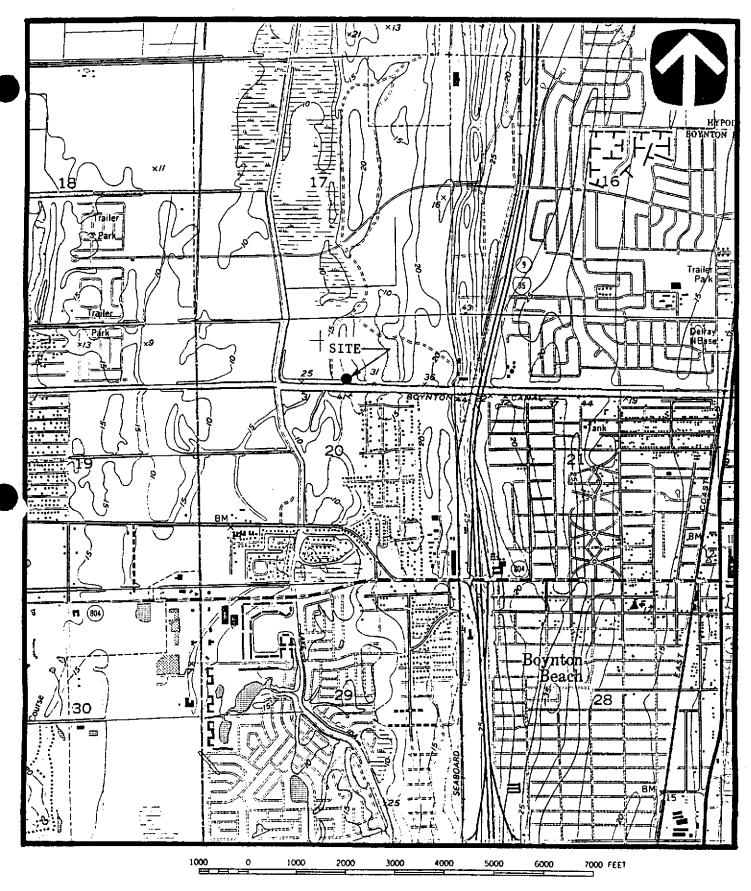
U.S. Dept. of Commerce Coast Lake Worth Quadrangle, Florida 7.7 minute series Photorevised 1983



EXHIBIT I.B. 3-1 Topographic Map

ATTACHMENT I.B

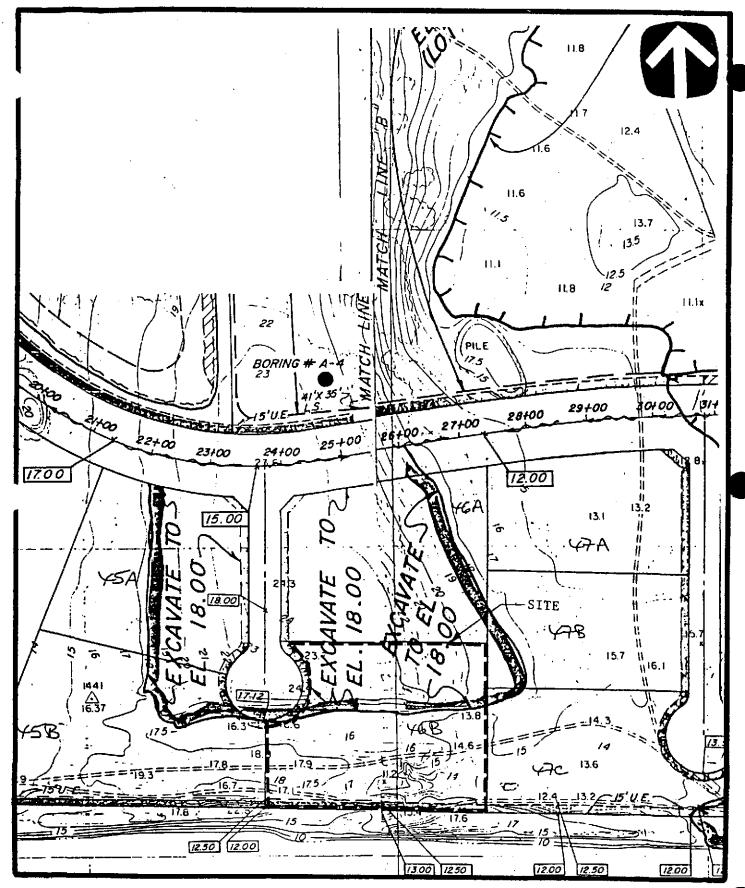
SITE INFORMATION



U.S. Dept. of Commerce Coast Lake Worth Quadrangle, Florida 7.7 minute series Photorevised 1983

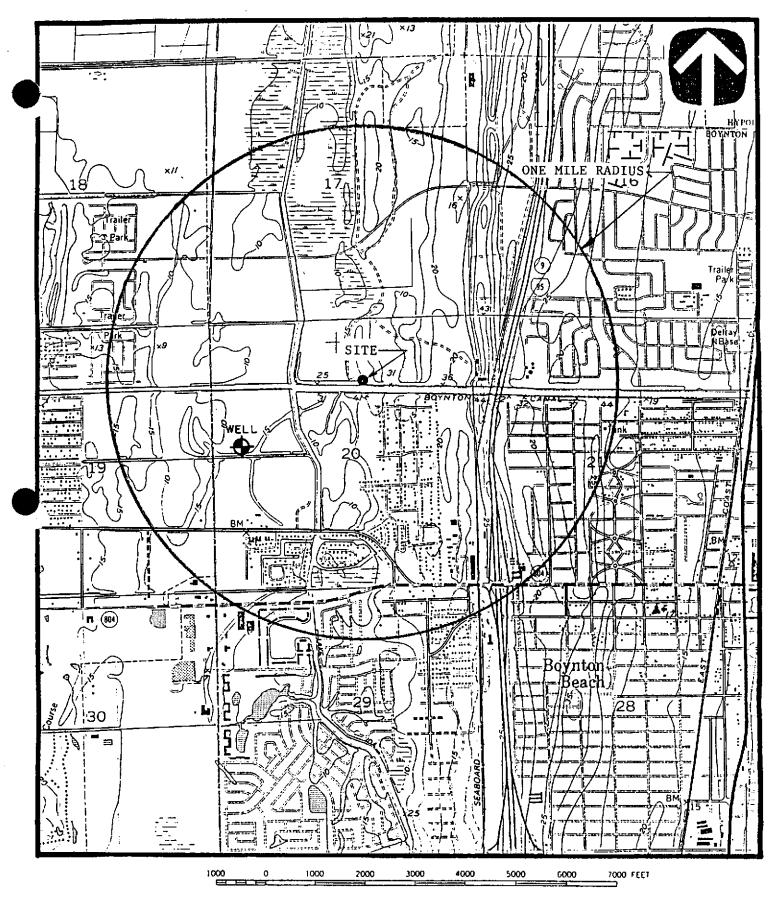


EXHIBIT I.B. 3-1
Topographic Map



SITE GRADING PLAN

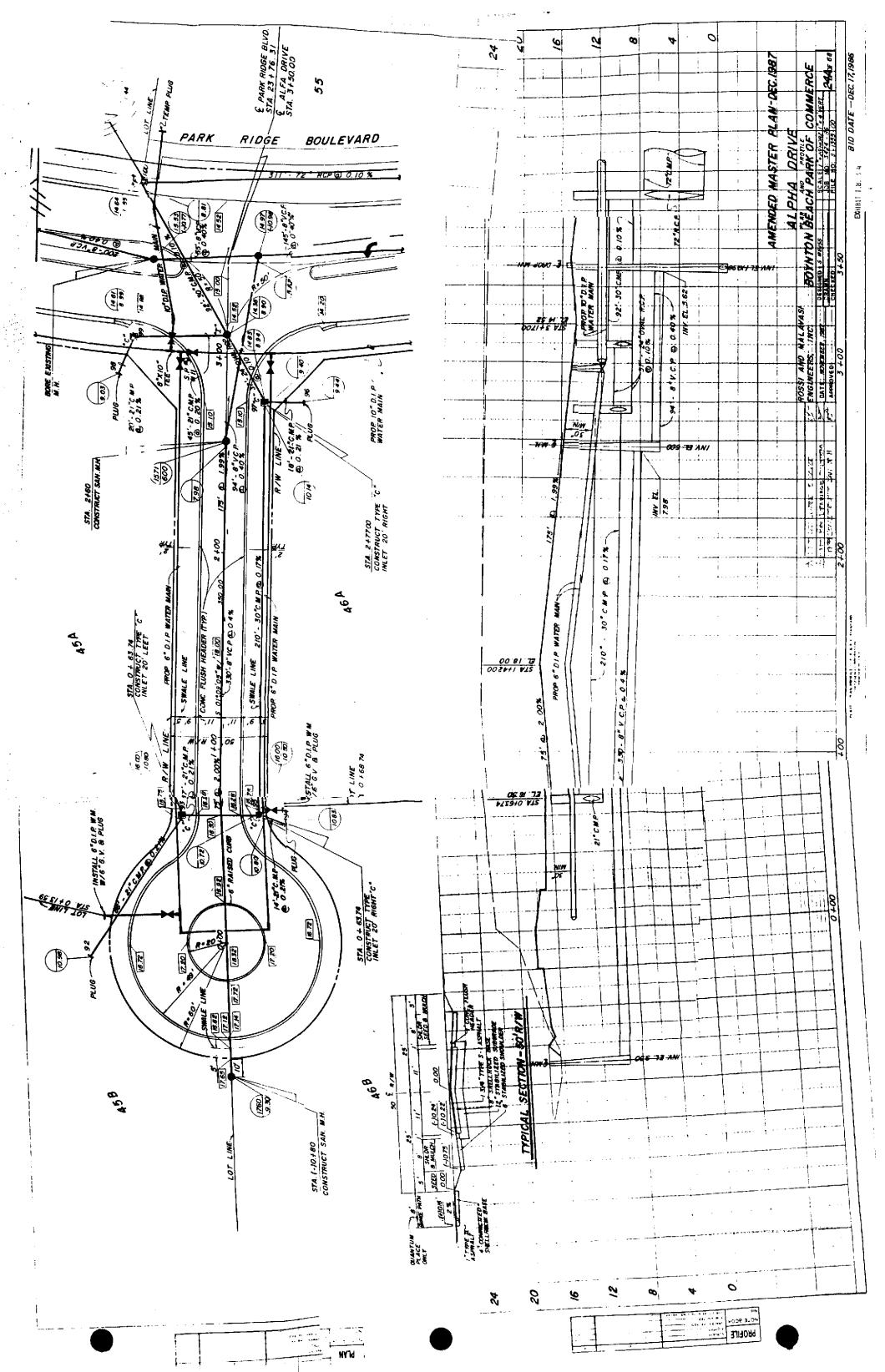
EXHIBIT I.B. 3-2



J.S. Dept. of Commerce Coast Lake Worth Quadrangle, Florida 7.7 minute series Photorevised 1983



EXHIBIT I.B. 3-3
Well Location Map



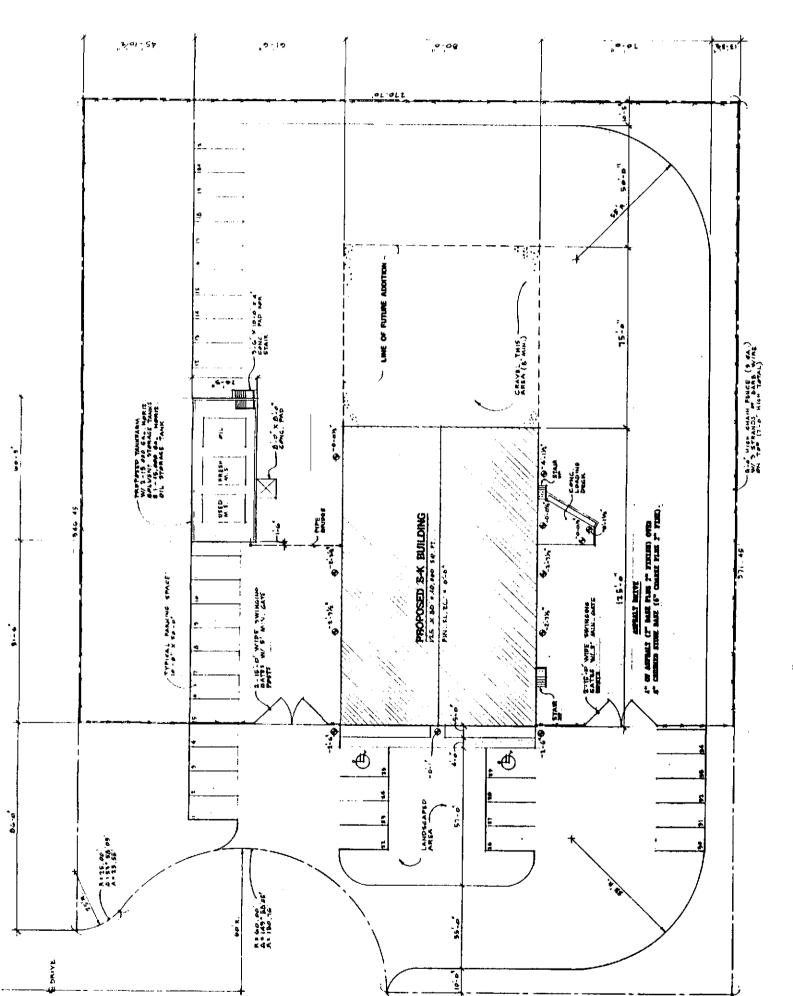
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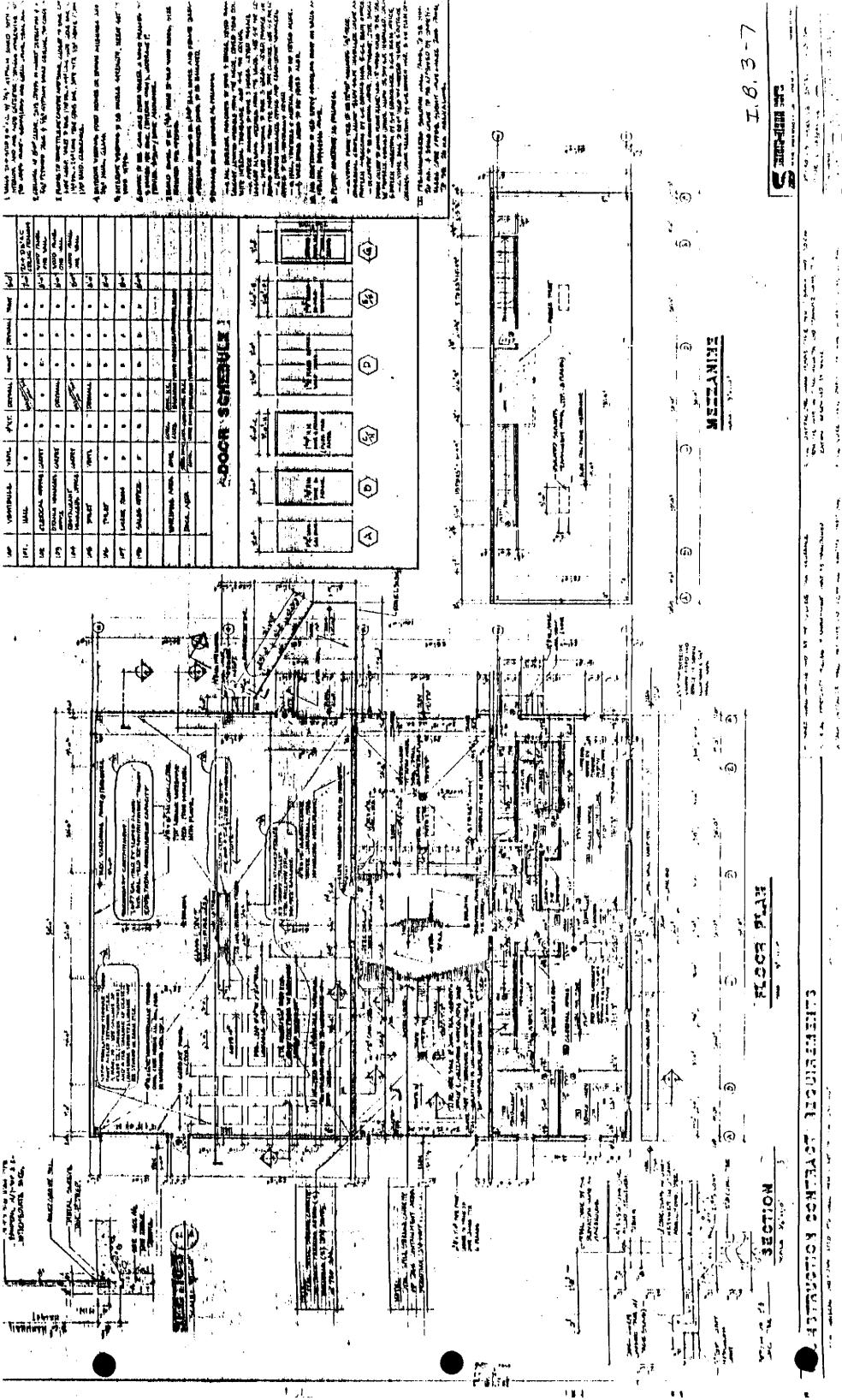




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LOOR PLAN

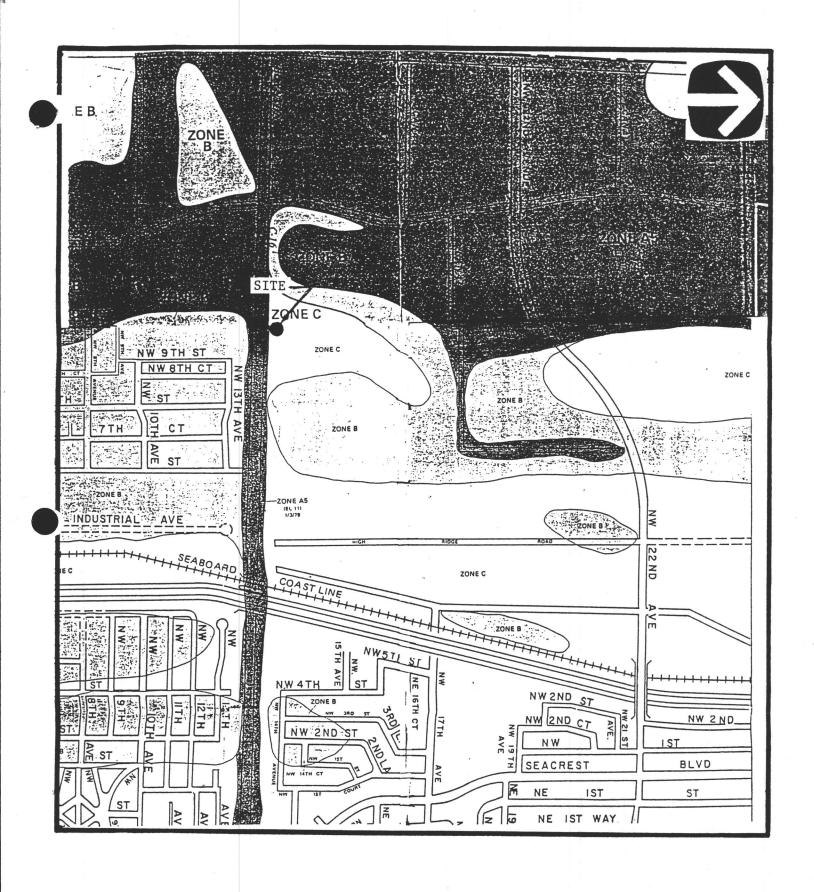
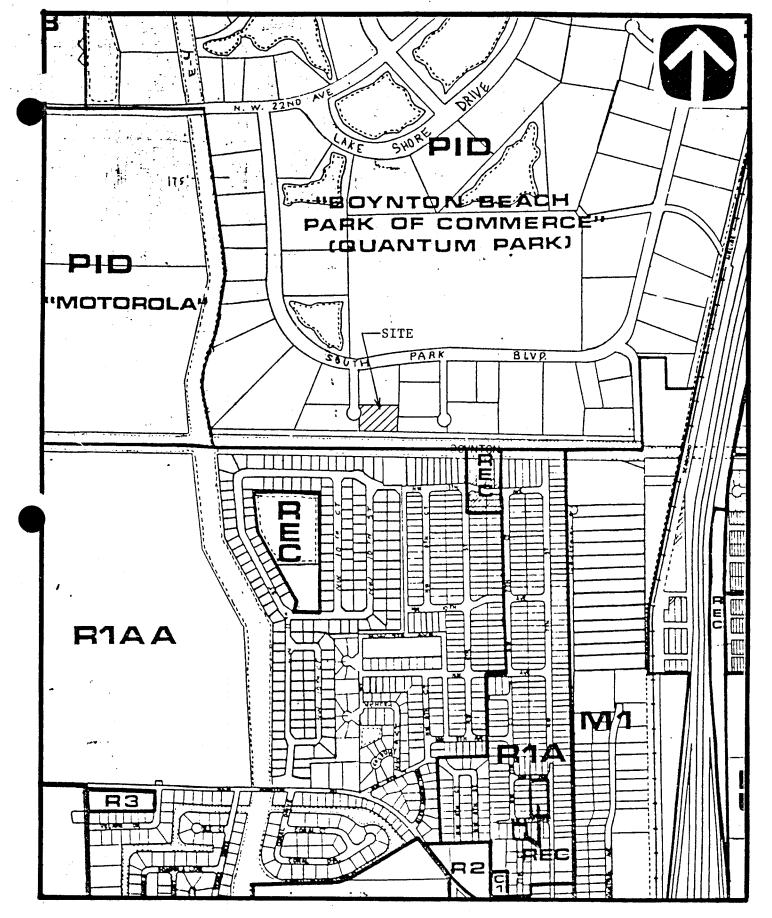


EXHIBIT I.B. 4-1 Flood Plain Map Boyton Beach, FL

ATTACHMENT I.C

LAND USE INFORMATION



ZONING MAP

EXHIBIT I.C. 1-1



ATTACHMENT I.D
OPERATING INFORMATION

I.D.2.a DESCRIPTION OF THE BUSINESS

The Safety-Kleen Corp. of Elgin, Illinois, is an international service-oriented company whose customers are primarily engaged in automotive repair and industrial maintenance. Since 1968, the company has offered a leasing service for hydrocarbon and chlorinated solvents and small parts washing equipment. A unique feature of the business concept is that the solvent is produced by recycling the used solvent that is leased to customers.

Approximately two-thirds of the clean solvent leased has been previously used by customers.

The Safety-Kleen parts washers and solvents are leased to customers, and the leasing charge includes regularly scheduled solvent changes and machine maintenance. The business is conducted from local service centers (sales branches) which warehouse the products and equipment required to service the customers in the sales areas. On a regular basis, the service representatives furnish clean solvent to the customers, pick up the used solvent and assure that the leased equipment is in good working order. In 1979, the scope of the operations was expanded to make the solvent leasing service available to owners of parts cleaning equipment, regardless of manufacturer.

Safety-Kleen handles two types of parts washer solvents: a mineral spirits solvent and a special blend of chlorinated and water-phase solvent (immersion cleaner). The solvents are distributed and

collected by service representatives in covered drums and transported in specially equipped, enclosed route trucks. The clean solvents are distributed from and the used solvents are returned to the service center where there are separate aboveground storage tanks for the clean and used mineral spirits and warehouse space for the drums of both clean and used immersion cleaner. The solvent is contained in partially filled 16- and 30-gallon drums which serve as the solvent reservoir of the parts washer.

Periodically, a company truck is dispatched from a Safety-Kleen solvent reclamation facility to the service center to deliver a load of clean solvent and pick up a load of used solvent. The mineral spirits are transported in bulk tank trucks and the chlorinated solvent remains in covered drums during transfers between the service centers and the reclamation centers. About 97 percent of the solvent handled in the parts washer business is mineral spirits, while the balance is immersion cleaner.

The solvent cycle is a closed loop going from the service center to the customer, from the customer to the service center, from the service center to the reclamation center, and from the reclamation center back to the service center. This closed loop provides Safety-Kleen with most of its solvent requirements and the resultant stabilized cost benefits are passed on to its customers. Ownership of the solvent remains with Safety-Kleen and the service center managers are accountable for the quantities of clean and used solvents handled by their branch operations.

In 1984, Safety-Kleen began providing a dry cleaning waste reclamation service whereby drums of dry cleaner wastes (usually perchloroethylene) are collected and stored at the service centers before reclamation. The reclaimed solvent is returned to Safety-Kleen customers.

In 1986, a paint waste reclamation program was initiated to service automobile body repair businesses. Wastes containing various lacquer thinners and paints are collected in 5-gallon pails and in 16-gallon drums on the customer's premises. The sales representative collects these containers and stores them in the drum storage area of the warehouse. These wastes are periodically shipped to a reclaimer and there claimed solvent is distributed to Safety-Kleen customers for use as product.

I.D.2.b SPECIFICATIONS AND ANNUAL QUANTITIES OF HAZARDOUS WASTES and c

In Accordance with U.S. EPA Hazardous Waste Regulations, five types of hazardous waste have been identified at the service center:

- The used mineral spirits solvent which is stored in an aboveground tank before reclamation is considered to be an ignitable waste (D001) and an EP toxic waste (D008);
- 2. Mineral spirits dumpster sediment accumulates in the solvent return receptacles (wet dumpsters) and is regularly removed. It is considered to be an ignitable waste (D001) and an EP Toxic Waste (D006 and D008);

- 3. The used immersion cleaner is returned from customers in drums and remains in the same drum for shipment to the recycle center. It is considered to be a listed waste from nonspecific sources (F002 and F004);
- 4. The dry cleaning waste is collected in containers and remains in the same container for shipment to the recycle center. It is considered to be a listed waste from nonspecific sources (F002); and
- 5. Paint waste is considered to be a listed waste from nonspecific sources (F003 and F005).

A typical composition, and chemical and physical analysis for each of the waste streams listed above is shown in Exhibits ID2-1 through ID2-10.

USED MINERAL SPIRITS

The clean mineral spirits solvent is labeled under the trade-name of "Safety-Kleen 105 Solvent", so-named because the flash point of the solvent is a minimum of 105°F. Chemically, the solvent consists of a petroleum hydrocarbon fraction with boiling points between 310°F and 400°F. Impurities such as light aromatic hydrocarbons (LAHC) and chlorinated hydrocarbons usually constitute less than one percent of the total volume. A typical chemical composition of the used solvent is shown on Exhibit I.D.2-1 which lists analytical results of samples of spent mineral spirits solvent in 1987. The used mineral spirits solvent consists of mineral spirits solvent and water, solids, oil and grease.

The composition of the solvent fraction in the used mineral spirits solvent is essentially the same as the clean solvent.

An estimated 275,000 gallons of used mineral spirits are expected to be shipped to a recycle center from this facility annually.

MINERAL SPIRITS DUMPSTER SEDIMENT

This waste material is accumulated in the wet dumpsters when emptying the used mineral spirits from the drums into the aboveground storage tanks. The nature of this waste is similar to the used mineral spirits bottom sludge, except that it contains more solids. It is regarded as an ignitable EP toxic waste because of its lead and cadmium contents. A typical composition of the dumpster mud is presented in Exhibit I.D.2-2.

The sludge in the dumpsters is removed about once a month and the waste is drummed and shipped to Safety-Kleen's facility for recycling. About 150 drums (1,500 gallons) of dumpster mud will be removed from this service center each year.

USED IMMERSION CLEANER

Safety-Kleen's carburetor cleaner is labeled under the tradename of "Immersion Cleaner and Carburetor and Cold Parts Cleaner #609". It is a two-phase system consisting of an upper aqueous layer and lower solvent layer. The water phase consists of water and Dresinate TX (a sodium soap of tall oil). The solvent phase is

composed of methylene chloride, orthodichlorobenzene, cresylic acid, and an amines additive. A typical composition of the spent immersion cleaner is shown on Exhibits I.D.2-3 and I.D.2-8.

The used immersion cleaner contains varnish, gum, oil, grease and solids. It is regarded as toxic because it contains halogenated solvents and cresylic acid.

Less than five gallons of waste is returned in each drum. It is anticipated that 7,500 gallons of used immersion cleaner will be stored at this facility annually.

DRY CLEANING WASTES

80% of the solvent used in dry cleaning of clothing is tetrachloroethylene (or perchloroethylene) while 17% is mineral spirits and 3% is trifluorotrichloroethane. Hence, wastes generated from dry cleaning operations contain various concentrations of the solvent. Wastes generated by dry cleaning facilities are in the following forms:

1. Cartridge Filter: In addition to the construction materials consisting of steel, paper, clay & carbon, the used cartridge retains solvent, oil and grease, and undissolved elements such as lint and soil. Solvent retained in the filter cartridge generally amounts to less than 50% of the total cartridge weight.

- 2. Muck: At some dry cleaning facilities, a mixture of powdered materials is used as the filter medium for the dry cleaning solvent, in lieu of the cartridge filter. This filter medium normally consists of diatomaceous earth and carbon. In addition to lint, soil, oil and grease retained by this medium, between 40 and 50 percent by weight of the "muck" is absorbed solvent.
- 3. Still Residue: After filtration, the dry cleaning solvent is distilled by the dry cleaning machine to remove the dissolved materials from the used solvent. The dissolved materials (still residues) are in liquid form and consist of primarily detergent, oil and grease, vinyl acetate (a sizing compound) and up to 20 percent solvent.

This facility will ship about 80,000 gallons of dry cleaner wastes for reclamation annually. Exhibit I.D.2-4 shows the typical composition for still bottoms and filter residues.

PAINT WASTES

Paint wastes consist of various lacquer thinners (F003 and F005) and paints. The waste is collected in black 5-gallon pails and 16-gallon drums at the customer's place of business and the containers are then palletized and stored in the drum storage area of the warehouse. It is anticipated that this facility will ship 14,300 gallons of paint waste to a reclaimer annually. Analytical results for paint wastes are in Exhibit 2-5.

I.D.2.d DESIGN CAPACITY

All wastes managed at this facility are stored either in a tank or in containers, as follows:

| Waste | Storage Unit |
|-------------------------|-----------------------------|
| Spent Mineral Spirits | 12,000-gallon tank |
| Dumpster Sediment | |
| Spent Immersion Cleaner | 6,912 gallons in containers |
| Dry Cleaner Wastes | |
| Paint Wastes | |

网络特拉拉特

DELRAY BEACH, FL 3-097-90

| | | | .‡ | • | | |
|---------------------|----------|--------------------|-----------------------------------|--------------------------------------|--------------------------------------|---|
| · | | ٤ | 99.813 | 99.565 99.828 99.788 | 99.841 99.847 99.764 99.784 | • |
| | | | .054 .054 | | .049 .043 .039 .075 | |
| | | · | .072 | .078 .073 .080 .068 | .067 .060 .180 | |
| ts. | % Volume | | 000 | 1-000 | 0000 | |
| Spirits | 7 | - | .037 | .029 .026. .021 | .036 | U |
| Ineral | | ي | 000 | 0000 | 0000 | than e |
| Outgoing Mineral | | LARC | .024 | .272 .020 .019 | .016 .015 .016 | oroe ylen ylen its |
| ָ סמנצי סמנצי | | يا ني _و | | | 'ם בו פו פו | ichloro oethyle oethyle spirits |
| - | | Gallons | 4500 7000 7000 | 2000 7000 7000 4000 | 7000 7000 7000 3000 | 44 4 |
| | | Sample No. | | 742C 766C 776C 796C | 8060 8330 8510 8550 | — = |
| | ŀ | Period Date | 1' | 2-01 2-11 2-15 2-24 | 3-29 3-11 3-21 3-21 | |
| | | Ä | 99.792 99.787 99.861 | 99.796 99.849 99.760 99.844 | 99.814 99.815 99.619 99.769 | |
| | | Perc. | .063 .079 | .046 .046 .112 .065 | .056 .026 .072 | arbo |
| | | Tol. | .110 | .090 .087 .070 | . 109 . 133 . 221 . 139 | droc e |
| | Volume | Tri. | 000 | 0 0 0 | 0000 | ts oil point aromatic hydrocarbons ene chloride |
| _ | 7 | 1,1,1 | 0 | 019 .0.28 .0 | 0 0 0 0 0 | oil int omati e chl |
| prese | | Ĕ | 000 | 0000 | 0000 | ~ ~ ~ |
| THE UTHER TO SELECT | | LANG | .036 | .032 .018 .018 .021 | .020 .026 .037 | solvent bottoms oil flash point light aroma methylene c |
| a P | - | 8 E | 0.0.0.0 | | 6-6-6-6 | |
| | L | Water Bot. | 0 & h | 0 L 00 N B | 10 6 7 6 | Solv. F/P LAHC |
| 1 | - | Were | 000 | ,0000' | 0000 | - SO BEST SO |
| • | - | Solv | 92 95 | 93 95 95 | 94 93 94. | |
| | | Gallons Solw. | 7000 7000 7000 | 7000 4000 7000 7000 | 7000 7000 7000 7000 | |
| | ER 6 RC | Sample No. | 758D 768D 798D | 834D 843D 862D 865D | 875D 904D 925D 929D | |
| | .88 | Per fod Date | 1 1-14 1-18 1-29 2-02 | 2-12 2-16 2-24 2-25 | -14 -22 -23 | • |

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: Safety Kleen - DO Corporation

DATE: 8-17-81

PROJECT #: 1038-L

P.O. #: Verbal

SAMPLE #: 1376

SAMPLE DESCRIPTION: None available

Mineral Spirits Dumpster Mud

EP TOXICITY TEST

| WEIGHT USED: 100.2 gms | FINAL PH: 4.8 | ACIO USEO: 45 mls |
|------------------------|---------------|---------------------------|
| PARAMETER | RESULT | HAZAROOUS WASTE LIMITS |
| ARSENIC | 0.008 | 5.0 mg/1 |
| BARIUM | 0.6 | 100.0 mg/l |
| CAOMIUM | 0.93 | 1.0 mg/l |
| CHROMIUM-TOTAL | <0.05 | 5.0 mg/l |
| LEAD | 5.0 | 5.0 mg/l |
| MERCURY | 0.0035 | 0.2 mg/l |
| SELENIUM | 0.002 | 1.0 mg/l |
| SILVER | <0.02 | 5.0 mg/1 |
| FLASH POINT | 120* | 140° F |
| ·pH | 8.1 | |

Laboratory Director

All leaching tests and leachate analysis meet Environmental Protection Agency requirements as outlined in the May 19, 1980, Federal Register, 40 CFR 261.

safety-kleen corp.

Solvent Sample Analysis - Summary Report

| SK Sample # 4.1820 | Industr | ial Solvents S | Sales Sample # |
|--|---|---------------------------------------|--|
| Material Submitted as: | IL Feed 6/8 | 4 | |
| Source or Origin: | clay fon ale | · · · · · · · · · · · · · · · · · · · | |
| | (Plant#, Site or Complete | Address) | |
| Submitted by: | J. Breece | ☐ Drum | On Hand Per Year |
| Sample Size 1941 Repr | esentsGallons, in | ☐ Bulk | Other (Per week, month, quarter, etc.) |
| Tests | | | Solids |
| API or Sp. Gr. @ 60°F. Flash Point (ASTM D-56 Boiling Point (ASTM D- |) | | trifuge, distillation, or een Sheet" definition, or |
| IBP°F. | ODOR | oth | er) - specify: |
| 5 10 | FIA | *Ty | pe of Residue - |
| 20 30 | Aromatics | | |
| 40 50 | Saturates | | |
| 60 70 | | | |
| 80 90 | | | |
| 95 | Other (Specify) | | |
| EP vol 2 | | | |
| Residue* vol 2 | co:POSITI of total sample submitted (by distillation) | of solven | t portion of e (by G.C.) |
| | Bottoms 17.0 | | · |
| | cresol 15.0 | | |
| * chi | orinated + MS 62.0 | | |
| | | | |
| ٠ | | | |
| Comments: 5 | attached G.C. | Possible | yield 77% vol |
| | | | |
| | | | |
| RECOMMENDED DISPOSITI | ON: | | |
| Accept Reject | | | Report by: B. Blair |
| Distribution: 5.6vec | | | Rev. 10/82 |
| | | | |

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                  - 5.52
         3 6 - 3 a
                                                                   8.05
8.36
               3.96
         13:33
         11:45
        OVE START FINAL TIME 1
         12.92
         13.54
       STE STOP RUN
Eno 3 59800 SAMPLER INJECTION @ 17:04 JUN 14. 1984
 SAMPLE # : ID CODE :
        99
NORM %
                          AREA TYPE WIDTH CAL
  PT.
        EMP RT
                                                     AMOUNT NAME
  9.09
                             BASELINE & START RUN = 2.83
                             THRESHOLD @ START RUN = 4
  2.00
  0.00
                             PEAK HIBTH @ START RUN = 0.04.
  0.00
                             RP: REJECT + 3000
  1.15
                     263420.00 + VV +0.044
         1.15
                                                     29.298 MC
                       4402.11
7913.97
  1.45
                                                      0.131
  :.58
                                  VY
                                                      0.235
  1.97
          1.97
                      12436.00
                                  VV -----
                                                      9.978
          2.53
                       5396.02
  2.57
                                  V9 0.10 +
                                                      0.361
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                       7558.50
                                 PY #0.146
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                                                            PER
  5.52
          5.35
                      32446.50
                                  ٧V
                                      0.107
                                                      1.961 MONOCHLOR
                           RP: AREA SUM + ON
RP: AREA SUM + OFF
  1.98
  6.80
                      32812.10
                                      ----
  6.80
          6.81
                                                      0.975 MS
  5.93
          6.94
                      24567.29
                                  99
                                                      0.584
                                                             MCTOLUENE
                       8616.59
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PPI AREA SUN + OFF

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16.30 16.30

SITE ANALYSIS Period 12

1/C INCOMING CC

CLAYTON, NEW JERSEY

Page 1 of 2

| 11-5-55 Absorber Missistant National Natio | | | | | , | · | · · · · · · · · · · · · · · · · · · · | T I. | .D.2-3 |
|--|----------------|---|----------|--|--|---|--|--|--|
| Historie NY Harary Falls NY L.C. #277 27.41% 25.00% 0.76% 24.00% 2.46% 0 17.00% 3.27% 3.27% External NY Harary Falls NY 27.41% 25.00% 0.76% 24.00% 2.46% 0 17.00% 3.27% 3.27% External NY External NY 23.00% 2.50% 2.00% 2.00% 2.00% 3.17% 3.12% 3.1 | Canada | N/A | | N/A | N/A | N/A | N/A | e/N | N/A |
| Service Gener RC:No. MC ODB Til CA HS Water Residue | Misc. | -3-37% | , | 3.17% | 3.01% | 2.93% | 2.82% | 2.83% | 3.13% |
| Service Center RC:No. MC ODB 111 CA MS HS Hineola NY | Residue | | | 15.00% | 1 . | 25.00% | 17.00% | 17.00% | 15.00% |
| Service Center RG:No. MC ODB 111 CA Hincols NY Niskes Falls NY Co. #277 27.41% 25.00% 0.76% 24.00% Havely NY Exte PA Exte PA Co. #282 30.32% 23.68% 0.75% 25.00% Interpose PA Chester NA Chester VA Co. #288 25.91% 23.86% 0.65% 26.00% Interpose NY Co. #289 17.51% 25.11% 0.58% 26.00% Interpose NY Co. #289 17.51% 25.11% 0.58% 24.00% Interpose NY Co. #289 17.51% 23.12% 1.83% 24.00% Interpose NA Malester PA Malester NA Chester VA Chester V | Water | 0 | · | 0 | 0 | 0 | 0 | 0 | |
| Service Center RC:No. HC ODB 111 | WS. | 2.46% | | 2.08% | 2.57% | 2.87% | 2.00% | 2.09% | 2.71% |
| Service Center RC:No. MC ODB | CA | 24.00% | • | 25.00% | 26.00% | 26.00% | 24.00% | 24.00% | 28.00% |
| Service Center RC: No. MC | Tri 1,1,1 | 0.76% | | 0.75% | 0.65% | 0.58% | 1.83% | 1.86% | 0.69% |
| Hineola NY Niagra Falls NY Avon NY Avon NY Erie PA Barre PA Barre PA Chester VA Chester VA Silver Springs MD Branford CT Barre VT Congers NY Congers NY Thornwood NY North Amityville NY Naverly NY Matydale NY Baltimore MD Silver Springs MD Glen Burnie MD Glen Burnie MD Glen Burnie MD Glester VA Chester VA Chester VA Chester VA Chester VA Silver Springs ND Glen Burnie MD Glen Burnie MD Glester VA Chester VA Chester VA Warlborok NJ Bridgewater MASS Marlboro WASS Marlboro WASS | 800 | 25.00% | · | 23.68% | 23.86% | 25.11% | 23.12% | 23.88% | 23.56% |
| Mineola NY Avon NY Waverly NY Erie PA Barre PA Chester VA Chester VA Chester VA Chester VA Chester VA Chester PA Barre OT West Hartford CT West Chester PA Malvern PA Tulleytown PA Tulleytown PA Tulleytown PA Waverly NY Mattydale NY Baltimore MD Silver Springs MD Glen Burnie MD Chester VA Chester VA Chester VA Warlborok NJ Bridgewater MASS Marlboro MASS | MC | 27.41% | · | 30.32% | 25.91% | 17.51% | 29.23% | 28.34% | 26.91% |
| ┝┈┈┩╒┸╒┸╒┸╒┸╒┸╒┸╒┸╒┸╒┸╒┸╒┸╒┸╒ ┸╒┸╒┸╒┸╒┸╒┸╒┸ | RC:No. | I.C. #277 | | 1.C. #282 | .c. #288 | I.C. #289 | I.C. #290 | I.C. #291 | I.C. #292 |
| Date 11-5-85 11-13-85 11-14-85 11-20-85 11-26-85 | Service Center | Mineola NY Niagra Falls NY Avon NY Waverly NY Erie PA | Barre PA | Tulleytown PA New Kingston PA Chester VA Chesspeake VA Silver Springs MD | Branford CT West Hartford CT Barre VT Latham NY | Congers NY Thornwood NY North Amityville NY | West Chester PA Malvern PA Tulleytown PA Waverly NY Mattydale NY | Baltimore MD Silver Springs MD Glen Burnie MD Chester VA Chesapeake VA | Vincentown NJ Boundbrook NJ Bridgewater MASS Marlboro MASS |
| | Date | 11-5-85 | | 11-8-85 | 11-13-85 | 11-14-85 | | 11-21-85 | 11-26-85 |

1/C INCOMIN :OMPOSITE ANALYSIS

Period12, 1985 CLAYTON, NEW JERSEY

| Carra | * | | | | | - I.D. | . 2-3 |
|----------------|---|-------|---|-----|----------------|--------|-------|
| Misc. | 3.41% | | , | • | | · | |
| Residue | 14.00% | | | . i | i : ! 1: | | |
| Water | 0 | | | | | | |
| MS | 2.48% | | | | | | , |
| CA | 24.00% | | | | | - | |
| Tr1 1,1,1 | 0.10% | | · | • | · | · | |
| ODB | 24.43% | | | | | | |
| MC | 31.58% | | | | • | · | |
| RC No. | I.C. #293 | are e | | | | · | |
| Service Center | Moodside NY Accession NATARIO * Concord ONTARIO * Name of ONTARIO * | 11111 | | | | | |
| . Date | 11-27-85 | | | | | | |

| Sheet | 1 | οf | 3 | |
|-------|----|----|-----|--|
| Date | ~/ | | 173 | |

Rev. 10/82

TYPICAL CHEMICAL AND PHYSICAL ANALYSES FOR STILL RESIDUE

Solvent Sample Analysis - Summary Report

| SK Sample # 3-755 | Industri | al Solvents S | ales Sample # |
|---|--|-------------------------------------|---|
| Material Submitted as: | Still Bottoms | Dry Cleani | 7) |
| Source or Origin: | Miraela Drive | Clarners | |
| 7 | Plant#, Size or Complete A | ddress) | • |
| _ | W. Barrhardt | Drum Corta | On Hand Per Year |
| Sample Size the Repres | ents <u>0.125</u> Gali us, in | □ Bulk | (Per week, monc quarter, ecc.) |
| Tests | •• | | Solids |
| API or Sp. Gr. @ 60°F. Flash Point (ASIM D-56) Boiling Point (ASIM D-86 IBP | | "Gre | rifuge, distillation, en Sheet" definition, r) - specify: |
| 5 10 20 | FIA · | | e of Residue - |
| 30 40 | Aromatics | · · | ا;م |
| 50 60 | Saturates | | • |
| 70 80 | Olefins | | |
| 90 95 EP <u>340</u> Distillate_40_vol Z | K-B Other (Specify) | | · · · · · · · · · · · · · · · · · · · |
| Residue* | COMPOSITION total sample submitted (by distillation) | Y. (VOL. Z) of solvent distillate | |
| - - - | Perc 37.4 M5 0.6 Bestons 55.0 Usader 2.0 | Peru | 48.6 |
| Comments: | • | | |
| | bove material is | safor. a | luble |
| | · | | |
| RECOMMENDED DISPOSITION | | | . , |
| Accept Reject Distribution: | and the state of t | • | Report by: R. R. C. |

Distributions

Sheet 2 of 3

safety-kleen corp.

TECHNICAL SERVICE LABORATORY WORK REQUEST

655 BIG TIMBER ROAD . ELGIN, ILLINGIS 6012

(Complete All Applicable Blanks)

3-955

| ٠. | Date: |
|----------------|--|
| | Project No.: |
| SUBMIT | TTED BY: Wayne Bucharlt |
| | |
| MATER | ITAL SUBMITTED: (Identify the sample or item and indicate its source or origin) The Rottonia from Minel Dury La Claum (Pene) |
| | |
| Sample Size | Represents — Orum . 625 Gailons Per Month Buik Per Year |
| SPECIF | ic information requested: |
| | SAFETY-KLEEN PRODUCT: (Explain, in detail - customer complaint, etc.) |
| • | |
| · | |
| · | MISC. SOLVENTS: (NEW — Determine suitability for S-K use. SPENT or contaminated solvent or fuel — Determine suitability for S-K reclamation). |
| • | |
| • | |
| X | OTHER MATERIALS: (New or Competitive product, or Miscellaneous items – tests to be performed or work to be done – List, in detail, information requested, i.e., performance evaluation, analyses, cost to duplicate, etc.) Linting Continuents Allenning amount (%) 4 Plus 7 that 5 K mill never |
| | |
| | |

SAFETY-KLEEN CORP.

2.61

3. 30

4.**40**

3.30 9. 00

5.23

5.60 :6.30

5.23

15.80

Sheet 3 of 3

UV: START PROM RATE 1

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        : :::32
        , JYZ Z Z ART FINAL TIME :
        1 :3:23
        1 13.93
        14.7
          PTE STOP BUM
ENRI 5880A SAMPLER INJECTION 9 18:35 MAY 18: 1983
SAMPLE 9: 13 CODE :
37 3955
HORM Y
                              BREA TYPE AIDTH CAL BROWNT WHEE
          EXª RT
                                 BASELINE 9 START RUN - 5.18
                                 THRESHOLD 9 START PUN = 4
PEAK WIDTH 0 START PUN = 3.34
RPS PEJECT + 500
                       APT AREA SUM + OFF
           5.23
                                                       5
                                                             33.444 3ERC
 :6.40
          :7.03
                         51165.80
                                                              ₹.556 45
MULTIPLIER = 0.4
ID CODE 1993
END 38800 SAMPLER INJECTION & 1983 MAY 10: 1983
SAMPLE 0: 10 CODE :
HORM %
                           TYPE JAL
                    FREA
                                          SMAK THUDHE
             :751250.00 + 8V
                                          98.610 PERC
               91165.80
                                           1.390 MS
MULTIPLIEP .:
```

safety-liean corp.

Date 10/24/84

(3 Pages) Solvent Sample Analysis - Summary Report

| faterial Submitted as: | Dry Clean | ing Filte | r Powder (| Chaucky |
|---|-----------------------------|--------------|---------------|---|
| Source or Origin: | T Mu | eller | | |
| | (Plant#, Site | or Complete | Address) | |
| Submitted by: | .T Muel | ler | Drum | On Hand Per Year |
| Sample Size 7 / Repr | esents <u>u</u> | Sallons, in | Bulk | Other (Per week, monch, quarter, etc.) |
| Cests PI or Sp. Gr. @ 60°F. | | | • | Solids |
| Plash Point (ASTM D-56) Soiling Point (ASTM D-6 IBP | | | "Gz | ntrifuge, distillation, of reen Sheet" definition, of ner) - specify: |
| 10 | FIA | | · *Ty | pe of Residue - |
| 30 40 | Aron | atics | | |
| 50 60 | Satu | rates | | |
| 70 80 | 01ef | ins | • | |
| 90 95 | K-B | (Specify) | | |
| Distillate vol Z Residue* vol Z | OCHE | | ION. (VOL. Z) | |
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| | water | 4.0 | | · . |
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(512) 333-4011

KDM company

May 21, 1986

LABORATORY ANALYSIS

WASTE STREAM: Waste Paint Related Material

SOURCE: Safety-Kleen 5 gallon cans

METHOD(S): Dry weight determination

Dry distillation Gas chromatograph

% RECOVERY: 90%

% SOLIDS: 1 %

ANALYSIS: Water & Methanol 1.5% Acetone 16%

 M-E-K
 24%

 Lacquer Diluent
 5%

 MIBK
 6%

 Toluene
 39%

 Xylenes
 6%

 Others
 2.5%

KDM company

(512) 333-4011

May 21, 1986

LABORATORY ANALYSIS

WASTE STREAM:

Waste Paint Related Material

SOURCE:

Safety-Kleen 16 gallon drums

METHOD(S):

Dry weight determination

Dry distillation Gas chromatograph

% RECOVERY:

72%

% SOLID:

9%

ANALYSIS:

H₂0 1% 13% Acetone IPA 8% M-E-K Lacquer Diluent 3% MIBK Toluene Xylene EE Acetate Others

(512) 333-4011

KDM company

August 13, 1986

LABORATORY ANALYSIS

| WASTE STREAM: | WASTE PAINT RELATED | MATERIAL |
|---------------|--|---------------|
| SOURCE: | SAFETY KLEEN | 5 gallon cans |
| METHOS(S): | DRY WEIGHT DETERMINATION GAS CHROMATOGRAPH | ATION . |
| % RECOVERY: | 84% | |
| % SOLIDS: | 2% | |
| ANALYSIS: | н ₂ о | 3% |
| | IP Acetate | .5% |
| | M-E-K | 10% |
| | IPA | 5.5% |
| | Acetone | 5% |
| | Lacquer Dilvent | 6% |
| | M-I-B-K | 6% |
| | Toluene | 45% |
| | n-Butyl Acetate | 2.5% |
| | PM Acetate | 3% |
| | Xylenes | 12% |
| | Others | 1.5% |

100%

(512) 333-4011

KDM company

August 13, 1986

LABORATORY ANALYSIS

WASTE STREAM:

WASTE PAINT RELATED MATERIAL

SOURCE:

SAFETY KLEEN

16 gallon drums

METHOD(S):

DRY WEIGHT DETERMINATION

DRY DISTILLATION GAS CHROMATOGRAPH

% RECOVERY:

76%

% SOLIDS:

12%

ANALYSIS:

H₂O 1%

IP Acetate 1%

- -

MEK

6%

IPA

8%

Acetone

8.5%

Lacquer Dilvent 3.5%

M-I-B-K

2%

Toluene

38%

n Butyl Acetate 4%

PM Acetate ·

14.5%

Xylenes

11.5%

Others

2%

100%

| 22 22 22 22 22 22 22 22 22 22 22 22 22 | SAFET SAFET SPECINO SP | SAFETY-KLEEN CATTIN: BRUCE BLZZZZZ BIG TIMBER ELGIN: IL 60120 SAMPLED | DOCATORIOS DOCATORIOS DOCATORIOS DOCATORIOS DOCATORIOS DOCATORIOS DOCATIVE DOCA | ORF • FOR ORF • HIS /MI | RMATK | POCATORIAS POCATORIAS POLICIANIA STATE PENSIS ON RAYMOND FULLERTON, CALIFORNIA 92631 • (714) 680 4414 1313 WEST RANDOLPH ST • CHICAGO, ILLINOIS 60607 • (312) 421 • 5152 1360 GLENWOOD AVENUE • EAST ORANGE. NEW JERSEY 07017 • (201) 6 SAFETY-KLEEN CORF • ATTN & BRUCE BLAIF 777 BIG TIMBER ROAD ELGIN • IL 60120 OPERATING INFORMATION OPERATING INFORMATION 9943 06/11/86 06/2 | (714) 680 • (312) 42 • (312) 42 • (312) 42 • (312) 42 | 0.4414 (21.5152 (201) 673-4030 (201) 673-4030 | | UNIT INFO JUME IN MASTE FA MODEL LUBE MANE LUBE MANE LUBE GRADE O O O | | | * waten 0 . 0 | TOTAL SULFUR TOTAL CHLORII WSCOSITY 40°C 0.0 0 | SULFUR, % SULFUR, % CHLORINE, TY 40°C G | GRADE GRADE | CHLORINE, % - 0.0 CHLORINE, % - 0.56 TY 40°C GRADE SPEC O 0 | SPECIAL IESTS | |
|--|--|---|--|-------------------------|-------|---|---|--|----------|---|-------|------|---------------|--|---|-------------|--|---------------|-------|
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INTERPRETATIONS AND APPLICA. JN OF ANAYLSIS RESULTS

MAINTENANCE RECOMMENDATIONS: These recommendations are based upon the assumption of testing representative samples and correct, complete operating data.

UNIT DESCRIPTION: This includes unit ID, type of equipment, type of system and lubricant information.

OPERATING DATA

Date Sampled is the date you indicate on ID slip or sample bottle cap when sample is taken.

Unit Life is the time in miles or hours since the unit was new or overhauled.

Oil Life is the time in miles or hours the oil has been in use when the sample was taken.

Oil Added is the amount of oil added since the last oil drain.

PHYSICAL DATA INTERPRETATIONS

Fuel Dilution is the amount of unburned fuel in the sample. It results from leaking internal fuel lines, injectors, pumps, cold running engines, carburetor malfunction, timing and ignition problems. Suspended Solids measures solids held in suspension by natural detergency and chemical additives. It consists of oxidation products and blow-by residues. Fuel soot is a major contributor to solids in diesel engines.

Water-Glycol measures the amount of condensed water and coolant. Water may enter from contaminated lube oil supplies or internal

Viscosity is reported in centistokes at 40°C and 100°C. Increase or decrease in grade is significant.

coolant leaks.

Fuel dilution will reduce viscosity. Oxidation products or contamination may increase viscosity.

TYPICAL SOURCES OF SPECTRO ELEMENTS

Iron: Rings, cylinders, shafts, gears, discs, drums, bearings, valve and gear trains, rust and residual assembly debris.

Aluminum: Pistons, bearings, blowers, airborne dirt, gears, pumps, thrust washers, impellers, pump bodies and housings.

Chromium: Rings, liners, shafts, cylinder rods, cooling system additives.

Copper: Bearings, bushings, wet clutches, gears, wrist pins, thrust washers, pump parts, oil coolers.

Lead: Bearings, bushings, leaded gasoline, gear lubes, grease.

Fin: Bearings, bushings, babbitt, platings.

Nickel: Bearings, shafts, valves.

Silver: Bearings, wristpin bushings, solder.

Silicon: Airborne dirt, coolant, anti-foam and sealant additives.

Sodium: Coolant and oil additives, salt water, sea atmosphere.

Boron: Coolant and oil additives, salt water.

Zinc: Oil additives, bearings, platings.

Phosphorous: Oil and coolant additives.

Calcium: Oil additives, water, grease.

Magnesium. Oil additives, salt water, bearings, aircraft engines.

Barium: Oil and diesel fuel additives, water, grease.

Titanium: Turbines, springs, valves.

Antimony: Bearings, grease.

Molybdenum: Oil additives, piston.rings.

Cadmium: Bearings, platings

SPECIAL TESTS - Includes Neulralization Number, reported as TAN or TBN. Also includes any unusual contamination of significance.

SPECTROGRAPHIC DATA — PARTS PER MILLION BY WEIGHT (PPM)

Spectro analysis measures very fine, dispersed wear metals, dust, oil additives and cooling system additives. Many of these particles are small enough to easily pass through conventional filters. Absolute PPM are not always significant. Sharp increases may indicate a problem developing. Equipment type, age, metallurgy, oil added between drains, oil and coolant additives all contribute to the significance of PPM values.

| SAFETY-KLEEN CORP. | S-K Part No. | 6617 |
|---|---------------|------------------|
| MATERIAL ACCEPTANCE SPECFICIATION | Original Date | April 8, 1976 |
| • | Revision Date | |
| Material: Safety-Kleen Solvent #105(MS) | Supersedes | New |
| imeerial. Safety-Rieen Solvent Wios(MS) | Written by | L. Dean Hufsey |
| · | Approved by | A. A. Manteuffel |
| | | |

SCOPE

This specification covers a high flash, hydrocarbon solvent suitable for use in a degreasing application.

REQUIREMENTS

The solvent shall conform to the following requirements:

| | Typical <u>Values</u> | Control <u>Values</u> | Test <u>Method</u> |
|-----------------------------|--------------------------|--------------------------|-----------------------|
| API Gravity, 60° F. | 46-51 | - | ASTM D-287-67 |
| Specific Gravity 60/60° F. | 0.775-0.79 | 7 - | - |
| Pounds/Gallon | 6.46 -6.64 | - | • |
| Initial Boiling Point, ° F. | 310-320 | 310 Min. | ASTM D-86-67 |
| 50% recovered, ° F. | 340 | - | - |
| End Point, ° F. | 380-400 | 400 Max. | ASTM D-86-67 |
| Kauri Butanol Value | 34 | • | _ |
| Aniline Cloud Point, ° F. | 144 | 150 Max. | ASTM D-1012-69 |
| Flash Point, ° F., TCC | 109 | 105 Min. | ASTM D-56-70 |
| Saturates, % | 90 | - | - |
| Olefins, % | 1 | - ` | - |
| Aromatics, % | • 9–12 | 17.0 Max. | ASTM D-1319-70 |
| Odor | Clean - Mild | Must be acceptable | - |

All lots or deliveries with properties outside the maximum or minimum "control values" will be considered of unsuitable quality.

The solvent shall contain the following additives:

- 1. Approximately 0.0028 Wt. % of Liquid Oil Green Dye (7.9 fluid ounces per 1,000 gallons of solvent). (May be purchased from DuPont, Petroleum Chemicals Division.)
- 2. Anti-Static Additive to be added by supplier. Any one of the following:
 - A. Shell ASA-3 One part per million (1 ppm) minimum (Shell Chemical Company)
 - B. Ashland AC-5 Five parts per million (5 ppm) minimum (Ashland Chemical Company)
 - C. Ethyl 48 Five parts per million (5 ppm) minimum (Ethyl Corporation)

| SAFETY-KLE MATERIAL A | EN CORP. CCEPTANCE SPECIFICATION | S-K Part No. 6631 |
|--------------------------|---|--|
| . • | | Original Date June 24, 1977 |
| | | Revision Date April 26, 1985 |
| Material: | Immersion Cleaner & Cold Parts Cleaner 609 | Supersedes August 20, 1979 |
| | | Written by L. Dean Hufsey |
| | | Approved by |
| | | <u>· </u> |

SCOPE

The specification covers a two-phase liquid product consisting of an aqueous layer on top and a chlorinated solvent, cresylic acid layer on the bottom for cleaning carburetors and metal parts. The ratio of the two liquids that are combined to for the cleaning product is 1.0 parts by volume of the aqueous layer and 4.0 parts by volume solvent layer.

COMPOSITION

Immersion Cleaner and Carburetor and Cold Parts Cleaner =609 products consist of the following materials:

WATER PHASE

| Water | 16.840 Wt.% | 20.00 Vol.% |
|----------------------|--------------|-------------|
| SOLVENT PHASE | | |
| Inhibitor 60S | 0.389 Wt.% | 0.5 Vol.% |
| Triethanolamine | 0.474 Wt.% | 0.5 Vol.% |
| Petroleum Sulfonate | 7.389 Wt.% | 8.5 Vol.% |
| Methylene Chloride | 31.691 Wt.% | 28.5 Vol.% |
| Orthodichlorobenzene | 31.345 Wt.% | 28.5 Vol.% |
| Cresylic Acid | 11.872 Wt.% | 13.5 Vol.% |
| | 100.000 Wt.% | 100.0 Vol.% |

Immersion Cleaner and Carburetor and Cold Parts Cleaner #609

REQUIREMENTS

| | Typical Values | Control Values | Test Method |
|--|---------------------------------------|---|---|
| Color (solvent phase) | Clear, light amber liquid | Clear, light amber liquid | |
| Specific Gravity, 60/60 ⁰ F Pounds/Gallon, 60 ⁰ F Caustic Extraction | 1.24 10.33 | 1.2300-1.2500 10.25-10.41 19 Vol.% min. cresylic acid | ASTM D-1298 - (Lab. Std. method "Extraction of cresylic Acids from Immersion Cleaner Solvent" May 9, 1979) |
| Emulsifiability | have a light tan After the water I | ng emulsion shall creamy appearance. has split out, the ld amount to only | (Lab. Std. "Emulsifiability- of Immersior Cleaner and water) |

SAFETY-KLEEN CORP.

Recycled Perchloroethylene for Dry Cleaning

Specifications

| Physical Test | Specification |
|--|---|
| Specific Gravity 20°C/20°C | 1.61 - 1.63 |
| Pounds Per Gallon | 13.4 |
| Appearance | Clear, Free of Sediment Suspended Material |
| Color, APHA | 25 maximum |
| Water, PPM | 50 maximum |
| Purity: Perchloroethylene by Volume & G.C. | 99.5 minimum |
| Impurities: Other halogenated | .5% maximum |
| Other hydrocarbon | .5% maximum |
| Odor | Characteristic; no residual |
| Spot Test | No Spot or Stain |
| Nonvolatile Residue, ppm | 50 maximum |
| Acid Acceptance | .02 maximum |

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188

844573

TOTAL

I.D.3 WASTE ANALYSIS REPORTS

Descriptions of the hazardous wastes handled at the facility are in section I.D.2. Waste analysis reports and product specifications are in Exhibits I.D.2-1 through I.D.2-9.

I.D.4 WASTE ANALYSIS - GENERAL

The used solvents are the primary feed stocks for Safety-Kleen's products and quality control of the used solvents is critical to the safe recycling of the material and to assuring quality products. The closed loop system of managing the clean and used solvents is therefore designed to minimize the possibility of product contamination from outside sources. Within the closed loop, ownership of the material remains with Safety-Kleen and the product is leased to the customer.

Prior to leasing a parts cleaning machine, the customer's business activity is reviewed. Where the possibility exists for contamination of the mineral spirits (e.g., pesticide, herbicide, pharmaceutical, printing operations), the process is reviewed to insure that contamination of the product does not occur.

Sales representatives are instructed to visually examine the spent product when the machines are serviced, noting the color, consistency and volume of material returned. The odor of the material is also noted to detect the presence of volatile materials such as gasoline. If a different odor is noted, the customer is warned that the material must not be contaminated. If the problem is not corrected, the machine is removed from the customer's place of business.

The dry cleaning and paint wastes are collected from facilities where a single chemical is handled and chances of cross contamination by other chemicals or wastes are minimal. In

addition, each shipment from these facilities is manifested with the signature of the owner (generator) certifying the types of materials in the containers.

WASTE ANALYSIS AT THE SERVICE CENTER

The Safety-Kleen facility in Boynton Beach services over 2,500 small quantity waste generator customers and over 28,000 drums of spent solvents are returned to the service center annually. Such large numbers of waste generators, performing quantitative waste analyses on each drum is logistically and economically unfeasible.

Furthermore, all the materials collected at the service center are either managed in the closed loop system or collected from a single waste generator. The general nature and qualities of these materials are known and Safety-Kleen's operating experiences have shown that the collected materials do not usually deviate from expectation. As an additional safe-guard, Safety-Kleen's personnel are instructed to inspect all materials before returning them to the service centers. For these reasons, all quantitative waste analyses will be performed at the recycle center.

In accordance with 40 CFR 264.13(a), Safety-Kleen will also perform physical and chemical analysis of a waste stream when it is notified or has reason to believe that the process or operation generating the waste has changed, or when the result of inspection indicates that the waste to be collected does not match the waste

designated. It is Safety-Kleen's practice that suspected nonconforming material must not be accepted until an analysis has been performed or the material must be rejected.

WASTE ANALYSES AT THE RECYCLE CENTER

Analyses performed at the recycle centers are undertaken to safeguard the recycling process and to assure the product quality. The following exhibits summarize a typical waste analysis plan at the recycle center related to the hazardous materials returned from the service center:

Exhibit I.D.4-1 Parameters and Rationale for Hazardous
Waste Selection

Exhibit I.D.4-2 Parameters and Test Methods

Exhibit I.D.4-3 Methods Used to Sample Hazardous Wastes

Exhibit I.D.4-4 Frequency of Analysis

WASTE ANALYSIS PLAN UPDATE

This waste analysis plan will be modified if a new waste product is introduced or sampling and material management methods change.

Monitoring and revision of the plan status is the responsibility of the Environmental Affairs Department staff at Safety-Kleen's Corporate Office in Elgin, Illinois.

PARÁMETERS AND RATIONALE FOR HAZARDOUS WASTE ANALYSES

| Hazardous Waste | Parameter | Rationale |
|--|--|--|
| Used Mineral Spirits | Flash Point EP Toxicity (Lead) | Ignitable characteristic (D001). Lead content = 5 ppm (D008). |
| Mineral Spirits Tank Bottom Sediment and Free Water | Flash Point EP Toxicity (Cadmium, Lead) | The sediment has a flash point of less then 140° F (DOOI) and the sediment and free water may contain cadmium and lead at greater than EP Toxic levels (DOO6, DOO8). |
| Mineral Spirits Dumpster Sediment | Same as number 2. | Same as number 2. |
| Used Immersion Cleaner | Methylene Chloride Orthodichlorobenzene Cresylic Acid | Formula contains these ingredients: F002 and F004. |
| Dry Cleaning Wastes | Perchloroethylene | Contain this ingredient (F002). |
| Paint Wastes | Toluene, xylene, methyl ethyl ketone, methyl iso butyl ketone, acetone, isopropanol, methanol, ethanol, normal butyl acetate, iso butyl acetate, | Contains these components: F003, F005, D001, D006, D007 and D008 |

eadmium, chromium, lead

PARAMETERS AND TEST METHODS

| Parameter Flash Point | Test Method Setaflash closed cup tester | Reference U.S.EPA Method 1020 (ASTM Method D327-78) |
|--|--|---|
| Boiling Range (to determine % water, mineral spirits and other solvents) | Distillation of Petroleum | ASTM Method D86-78 |
| API Gravity | Hydrometer method | ASTM Standard D287-67 |
| EP Toxicity | EP Toxicity test procedure | U.S.EPA Method 1310 |
| Hydrocarbons and Volatile Organics | Gas Chromatography (GC) | U.S. EPA Methods 8010, 8015, 8020 and 8120 |

METHODS USED TO SAMPLE HAZARDOUS WASTES

| Sampler | For tanks - Coliwasa Tube | Same as number 1 | Representative composite sample using a Coliwasa tube | Same as number 3 | Same as number 3 | Same as number 3 |
|-----------------------------------|---|---|--|---------------------------|---------------------|------------------|
| Description of Sampling Method | Test Methods for the Evaluation of Solid Waste Physical/ Chemical Methods, SW846, U.S. EPA Section 1.2.1.1 | Same as number l | Same as number l | Same as number l | Same as number l | Same as number 1 |
| Reference for Sampling | Sampling a tank "Samples & Sampling procedures for Hazardous Waste Streams" EPA-600/ 2-80-018 | Same as number 1 | Sampling a drum "Samplers & Sampling Procedures for Hazardous Waste Streams" EPA-600/ 2-80-018 | Same as number 3 | Same as number 3 | Same as number 3 |
| Hazardous Waste | Used Mineral Spirits | Mineral Spirits Tank Bottom Sediment and free water | Mineral Spirits Dumpster Sediment | Used Immersion Cleaner | Dry Cleaning Wastes | Paint Waste |

FREQUENCY OF ANALYSIS

| Hazardous Waste | Analysis | Frequency 100d |
|---|---|--|
| Used Mineral Spirits | Flash Point EP Toxicity (Lead) | Flash Foint/every load |
| Mineral Spirits Tank Bottom Sludge and Free Water | Flash Point EP Toxicity (Cadmium and Lead) | Flash Point/every month EP Toxicity/ every quarter |
| Mineral Spirits Dumpster Mud | Flash Point EP Toxicity (Cadmium and Lead) | Annually or as required |
| Used Immersion Cleaner | Methylene Chloride Orthodichlorobenzene Cresylic Acid | Every load |

Annually or as required

Annually or as required

GC Scan (U.S.EPA Method 8010, 8015 and 8020) EP Toxicity

Perchloroethylene

Dry Cleaning Wastes

Paint Waste

I.D.5 TRAFFIC CONTROL AND VOLUMES

The non-building areas of the facility are paved with asphalt, concrete or gravel as noted on the site plan in Exhibit I.B.3-6. The majority of the vehicular traffic and loading/unloading operations occur at and near the return and fill area and it is paved with asphalt and concrete. Congress Avenue is the major access road to the facility. The access road is designed in accordance with engineering criteria appropriate for sustaining the traffic volume and loading for the industrial activities in this area. The vans that daily travel the routes between the service center and its customers use the two-lane road within the industrial park. The trucks dispatched from the recycle center to deliver and pick up fresh and used solvents perform these activities at the aboveground tank area. Traffic from this facility is not expected to have a major effect on local traffic conditions. Exhibit I.D.5-1 presents anticipated 1987 average daily traffic counts for the entire region.

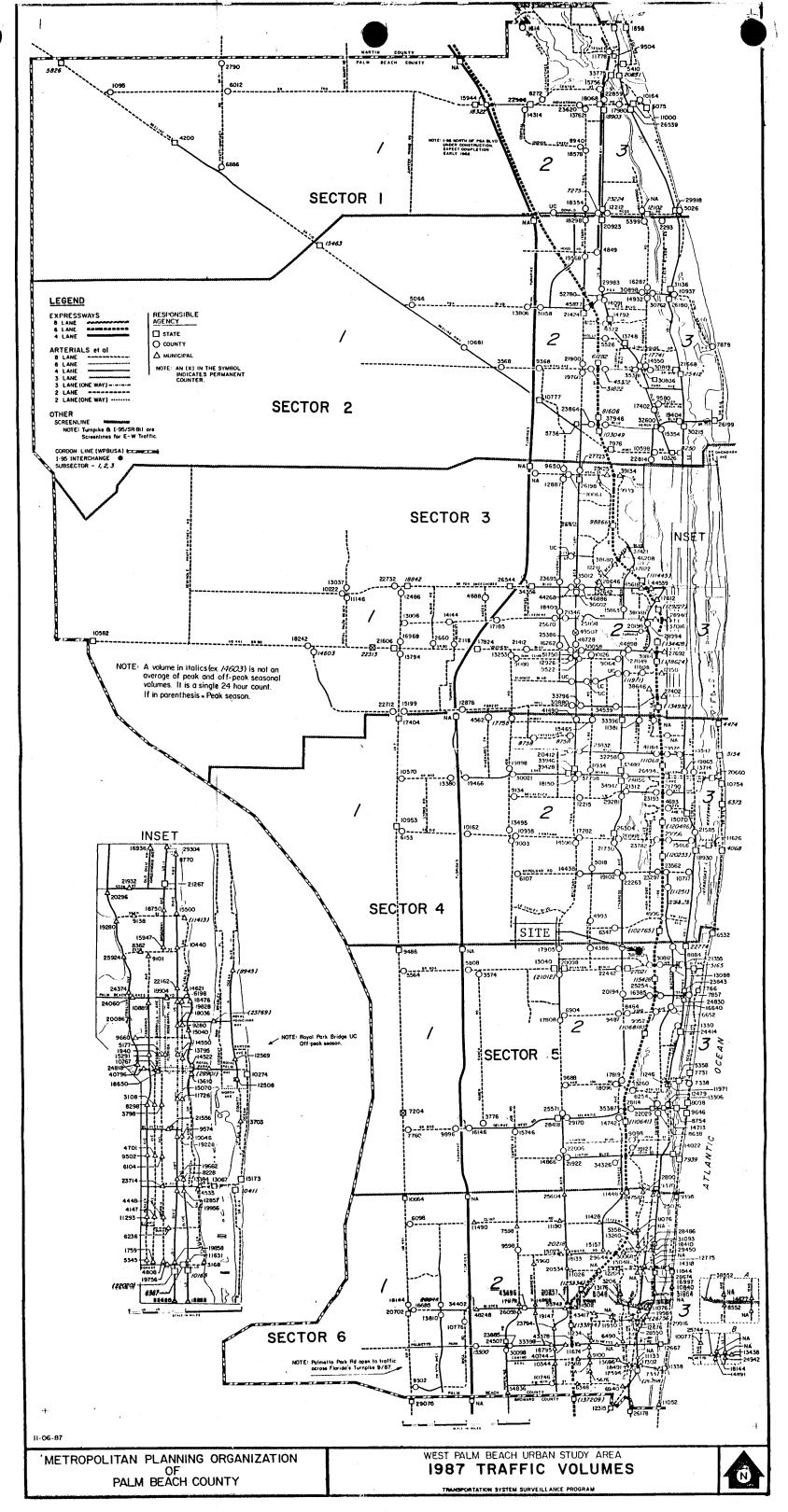


EXHIBIT I.D.5-1

I.D.6 PROCEDURE FOR RECORDKEEPING

Shipments of the product and used solvents are handled by invoices. In addition, the quantities of used solvents shipped to the recycle center and those shipped from regulated generators to the service center are manifested. Manifest copies are kept at the service center and the recycle center for three years.

In accordance with 40 CFR 264.76. unmanifested waste reports will be submitted to the DER's central office in Tallahassee should a shipment be received without a manifest.

ATTACHMENT I.E

FACILITY SECURITY INFORMATION

I.E.1 SECURITY MEASURES

In accordance with 40 CFR 264.14, access to the facility is controlled using the following methods:

- 1. Entry to the drum storage and return and fill areas are controlled through gates and doors. All gates and doors are locked when the facility is not in operation.
- Warning signs are posted at the entrances to the facility. They are marked "Danger - Unauthorized Personnel Keep Out" and are legible from twenty-five feet.

The combination of doors and warning signs prevents unknowing entry and minimizes the potential for unauthorized entry of people or livestock into the facility.

CONTINGENCY PLAN AND EMERGENCY PROCEDURES SAFETY-KLEEN CORP.

BOYNTON BEACH, FL SERVICE CENTER

| QUANTUM | INDUSTRIAL | PARK |
|---------|------------|------|
| | | |

GENERAL INFORMATION

The contingency plan and emergency procedures are designed to insure that Safety-Kleen is prepared to address emergency situations so as to prevent or minimize hazards to human health and the environment. Potential emergency situations include fire, explosion and any sudden or non-sudden release of hazardous material constituents to the air, soil, surface water, or ground water at the facility.

The provisions of the contingency plan are carried out immediately whenever there is a fire, explosion or release of hazardous materials which could threaten human health or the environment. This plan describes the actions facility personnel will take in response to an emergency.

The business activities carried on from the service center relate to the leasing and servicing of Safety-Kleen solvents and parts cleaning equipment. The clean solvents are distributed from and the used solvents are returned to the service center, where aboveground storage tanks and warehouse space are used for their storage.

The mineral spirits solvent is transported between the service center and customers in covered, 16-gallon and 30-gallon drums. Upon return to the service center, the used solvent is transferred from the drums into a wet dumpster (solvent return receptacle) where coarse solids in the mineral spirits are retained. The used mineral spirits in the wet dumpster is pumped into a 12,000-gallon aboveground tank for storage. It is picked up periodically by a bulk tank truck from a Safety-Kleen recycle center which also delivers a load of product.

The solids in the wet dumpster are periodically removed, drummed, and stored in the drum warehouse for shipment to a recycle center.

The immersion cleaner remains in 16-gallon, covered drums at all times during transportation and storage. The solvent is not transferred to another container while being used by the customer or while in storage at the service center.

The dry cleaning wastes are collected in 30- or 16-gallon drums, in nylon-lined, triple-thick boxes and in polyethylene filter tubes and are stored at the service center. The drums are picked up periodically for reclamation at the recycle center.

Paint wastes are collected in 5-gallon and 16-gallon drums and handled similarly to the immersion cleaner.

Exhibits I.B.3-6 and I.B.3-7 show the basic site and floor plans, particularly, the locations of waste management facilities and emergency equipment.

EMERGENCY NOTIFICATION

The branch manager is the emergency coordinator and the branch secretary is his alternate. Exhibit I.E.2-1 includes the names, home addresses, and both office and home telephone numbers of the primary emergency coordinator and his alternate. There is always one employee, either on the facility premises or on call, with responsibility for coordinating all emergency response measures. This primary emergency coordinator and alternate emergency coordinator are familiar with all aspects of the facility's contingency plan, all operations and activities at the facility, the location and characteristics of materials handled, the location of all records within the facility and the facility layout. In addition, these coordinators have the authority to commit the resources needed to carry out the contingency plan.

The agencies and response team members to be notified whenever there is an imminent or actual emergency are presented in Exhibit I.E.2-1 and a Telephone Notification Log is shown as Exhibit I.E.2-2. The assigned task(s) of each employee during an emergency are in Exhibit I.E.2-3.

ACTIONS OF THE EMERGENCY COORDINATOR

Whenever there is an imminent or actual emergency situation, the emergency coordinator (or his designee when the emergency coordinator is on call) must immediately:

- a. activate internal or communication systems to notify all facility personnel (the relatively small size of this facility makes direct verbal communication the most expedient form of emergency notification in most cases);
- b. notify appropriate state or local agencies with designated response roles if their help is needed; and
- c. summon the primary emergency coordinator, if he is absent.

Whenever there is a release, fire, or explosion, the emergency coordinator must immediately identify the character, exact source, amount, and extent of any contamination. Because of the limited types of chemicals in storage, the identification processes can be done visually.

The following is a procedure for assessing possible hazards to the environment and human health:

- a. After identification of the character, source, amount and extent of a release, fire, or explosion, the emergency coordinator must decide whether the situation can be contained or cleaned up by plant personnel and equipment.
- b. If a fire or explosion is determined to be beyond the capabilities of plant personnel or it is threatening neighboring establishments or population, assistance from a

- local emergency response agency shall be summoned immediately and an evacuation order be requested.
- c. In case of a release outside of the containment area which is deemed immediately uncontainable or unrecoverable, a local emergency response agency and/or spill cleanup contractor will be called.
- d. After termination of a fire or expolsion, and containment and preliminary cleanup of a spill, the emergency coordinator shall evaluate whether residues in the form of gas or liquid have become airborn, seeped into the ground water, and/or flowed into surface water bodies.
- e. The emergency coordinator shall request assistance to determine whether the escaped materials are potentially harmful and whether the receiving medium is or will ultimately be a populated area, public water supply source, a private well or an environmentally sensitive area.
- f. Additional steps shall then be taken to mitigate the potential impact on the environment and human health, in accordance with recommendations given.

If the emergency coordinator determines that the facility has had a release, fire, or explosion that could threaten human health, or the environment outside the facility, the coordinator must report those findings as follows:

a. If the assessment indicates that evacuation of local areas may be advisable, the coordinator must immediately notify appropriate authorities. The coordinator must be available

- to help appropriate officials decide whether local areas should be evacuated; and
- b. The coordinator must immediately notify the Southeast District FDER, 3301 Gun Club Road, West Palm Beach, FL 33402, 305/689-5800; the South Florida Water Management District, 305/686-8800; and the National Response Center 800/424-8802, by telephone.

The report must include:

- (1) name and telephone number of notifier;
- (2) name and address of facility;
- (3) time and type of incident (e.g., release, fire);
- (4) name and quantity of material(s) involved, to the extent known;
- (5) the extent of injuries, if any; and
- (6) the possible hazards to human health, or the environment outside the facility.

Assistance in assessing and responding to an emergency can be obtained by calling the 24-hour emergency number of Safety-Kleen's Environmental Affairs Department (312/888-4660).

During an emergency, the emergency coordinator must take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous waste management areas at the facility. These measures must include, where applicable, stopping processes and operations, collecting and containing released waste, and removing or isolating containers.

If the facility stops operations in response to a fire, explosion, or release, the emergency coordinator must monitor for leaks, pressure buildup, gas generation, and ruptures in valves, pipes, or other equipment, wherever this is appropriate.

Immediately after an emergency, the emergency coordinator must provide for the treatment, storage, or disposal of recovered waste, contaminated soil or surface water, or any other material that results from a release, fire, or explosion at the facility.

The emergency coordinator must ensure that, in the affected area(s) of the facility:

- a. no waste that may be incompatible with the released material is treated or stored until cleanup procedures are completed; and
- b. all emergency equipment listed in the contingency plan is cleaned and fit for its intended use before operations are resumed.

The owner or operator must notify the appropriate state and local authorities that the facility is in compliance with the above paragraph before operations are resumed in the affected area(s) of the facility.

The operator must note the time, date, and details of any incident that requires implementation of the contingency plan. Within 15

days of the incident, he must submit a written report to the Southeast District, Florida DER, West Palm Beach, FL. The report must include:

- a. name, address, and telephone number of the owner or operator;
- b. name, address, and telephone number of the facility;
- c. date, time, and type of incident (e.g., fire, explosion);
- d. name and quantity of material(s) involved;
- e. the extent of injuries, if any;
- f. an assessment of actual or potential hazards to human health or the environment, where this is applicable; and
- g. estimated quantity and disposition of recovered material that resulted from the incident.

POTENTIAL SPILL SOURCES

The following is a list of activities that have the potential for a small scale (one for which clean up assistance is not required) pollution incident.

- a. Moving of drums Every time a drum is moved, a chance exists that it may tip over or be dropped. To minimize the possibility of spillage of solvent, all drums must be covered before being moved.
- b. Delivery truck drum transfer Individual delivery drums contain from 5 to 18 gallons of waste, a quantity which can be contained by sorbent clay or pads and each vehicle is equipped with a hoist and hand cart to ease the movement of solvent on and off the truck. Clamp type lids are on drums

- during movement to prevent spills and each truck contains a shovel and enough sorbent material to contain a minor spill. The cargo must be secured with tie-down straps before transport.
- c. Spills Inside Buildings In the event of a spill indoors, the doors and windows should be opened to improve the ventilation in the area. Then, following the instructions on the Material Safety Data Sheet (Exhibits I.E.2-4 through I.E.2-7), the worker will enter the area wearing rubber gloves, boots, and/or respirator, collect the liquid and return it to storage. The cleanup is completed only when the workers have cleaned themselves and the emergency equipment with soap and water.
- d. Spills on Concrete Pads Concrete pads in loading and unloading areas are equipped with secondary containment. Under most spill conditions, the spill can be totally contained on the concrete surface and in the containment system. Upon containment, arrangements must immediately be undertaken to recover the material. Any soil that may be involved must be removed and treated as a hazardous waste.
- a concrete slab and surrounded by a 36" high concrete dike to contain any spilled or leaked solvent. The containment system has been sized in accordance with the regulations, and under most spill conditions, the solvent will be totally contained. Should a spill occur, arrangements must

be immediately undertaken to recover the material. In the event of a leak, tank repair or replacement will be initiated. Any soil that may be involved must be removed and treated as hazardous waste.

SPILL CONTROL PROCEDURES

If a harmful discharge occurs:

- a. Stop the discharge from a drum, if possible, by immediately transferring the liquid to a good drum. It may be possible to stop discharges from tanks by manually closing valves.
- possible, by diking with sorbent material or dirt.

 (Appropriate personal protective equipment should be worn). Pump and mop up the liquid from the floor into a good drum, and return the drum to storage. The area and equipment that comes in contact with the spill must be decontaminated with soap and water. All residues resulting from decontamination will be collected for proper disposal at licensed facilities.
- the emergency response team that specializes in spill cleanup (Exhibit I.E.2-1). Record the date, time and name of person taking the message. Call the primary emergency coordinator, if he is absent.
- d. Immediately recover spilled solvent to reduce property and environmental damage using the equipment stored on site for such situations (Exhibit I.E.4-2) or call in emergency

- response contractors (Exhibit I.E.2-1). Start recovery operations immediately.
- e. After recovery of the spilled solvent, wash all contaminated impervious surfaces and equipment with soap and water. The residue, contaminated soils and waste waters must be removed and disposed of at licensed facilities. The recovered solvent will be sent to a Safety-Kleen recycle center for reclamation. Any equipment which cannot be decontaminated, and all rinse water, will be disposed of as hazardous waste.
- F. Report any incident as soon as possible to Safety-Kleen's Environmental Affairs Department using the 24-hour telephone number: (312) 888-4660. If the Department does not respond within thirty minutes, call the National Response Center (telephone: (800) 424-8802); Southeast District, Florida DER, West Palm Beach, FL (305) 689-5800; and South Florida Water Management District (305) 686-8800.

The person reporting a spill should be prepared to give his name, position, company name, address and telephone number. The person reporting should also give the nature of the material spilled (e.g. immersion cleaner) and, if possible, some estimate of the amount, and whether it is near a stream or could enter a stream by flowing through ditches or storm sewers.

If assistance is needed, the emergency coordinator should describe the containment status and specify any additional equipment needed. When reporting a spill, record the data and time of the call and the name of the person answering the call at the above number.

Spill prevention plans are reviewed with facility personnel every year and records of the training are kept at the facility.

Every spill must be recorded on the spill report telephone log and reviewed with facility personnel to prevent similar spills in the future. A copy of this report is sent to the Environmental Affairs Department.

Reports of emergency incidents will be reported to the Northwest District, FDER, 3301 Gun Club Road, West Palm Beach, FL 32501, telephone 305/689-5800. The report shall include:

- (a) name, address, and telephone number of the owner of operator;
- (b) name, address, and telephone number of the facility;
- (c) date, time, and type of incident (for example, fire explosion);
- (d) name and quantity of materials involved;
- (e) the extent of injuries, if any;
- (f) an assessment of actual or potential hazards to human health or the environment, where this is applicable; and
- (g) estimated quantity and disposition of recovered material that resulted from the incident.

FIRE CONTROL PROCEDURES

In case of a fire, immediately call the Fire Department. Immersion cleaner (which is a mixture of chlorinated solvents and water) and dry cleaning wastes are not ignitable, but produce toxic gases (phosgene) and hydrochloric acid at elevated temperatures (about 1200° F).

Center aisles must be available in drum storage areas to permit firemen to pass with firefighting equipment. Act quickly with a fire extinguisher to put out a small fire before it spreads. Call the police department and local hospital (Exhibit I.F.2-1) should an injury occur and/or order of on-lookers and traffic is to be maintained.

AVAILABILITY AND REVISION OF THE CONTINGENCY PLAN

This plan and all revisions to the plan are kept at the facility and regularly updated throughout the operating life of the facility. Copies of this document are provided to local authorities and organizations which may be called upon to provide emergency services. This plan and all revisions to the plan are made readily available to employees working at the facility. The plan is reviewed and updated, if necessary, whenever:

- the facility license is modified to allow new process wastes to be stored or treated, or applicable regulations are revised;
- b. the list or location of emergency equipment changes;
- c. the facility changes in its design, construction, operation
 maintenance, or other circumstances in a way that

- materially increase the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or
- (2) changes the response necessary in an emergency;
- d. the names, addresses, or phone numbers of emergency coordinators change;
- e. the employee assigned to each emergency task changes; or
- f. the plan fails when implemented in an emergency.

ARRANGEMENTS WITH LOCAL AUTHORITIES

Arrangements have been made to familiarize the police department, fire department and local emergency response teams with the layout of the facility, properties of hazardous materials handled at the facility, their associated hazards, places where facility personnel normally work, entrances to and roads inside the facility, and possible evacuation routes.

A spill control contractor is identified in Exhibit 2-1.

Arrangements have been made to familiarize the local hospital with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which would result from fires, explosions, or releases at the facility.

The following exhibits include copies of letters which have been

transmitted to local authorities for emergency response in the event of an incident where public health or environment is threatened:

Exhibit I.E.2-8 Letter to Local Police Department

Exhibit I.E.2-9 Letter to Local Fire Department

Exhibit I.E.2-10 Letter to Local Hospital

EVACUATION PLAN

In an emergency, all persons are to be evacuated from the area by means of a verbal cry and they are to assemble across from the entrance drive to the facility. The emergency coordinator must insure that all personnel are accounted for and out of the area. Primary and alternate evacuation routes are shown in Exhibit I.E.2-11. Clearly marked exits exist in the warehouse and office area.

The fire deparment must be notified at the time of evacuation either from a safe on-site building or from a neighboring facility.

REQUIRED REPORTS

Copies of all reports of spills must be kept onsite until closure.

EXHIBIT I.E.2-1

EMERGENCY NOTIFICATION

Alternate:

Emergency Coordinators

Primary: Thomas H. Sands

Sherry Warner

827 N.W. 9th Street

907 N.W. 9th Street

Boynton Beach, FL 33435 Home: (407) 576-9458

Boynton Beach, FL 33426 Home: (407) 736-6729

Office: (To Be Assigned)

Office: (To Be Assigned)

Emergency Notification Phone Numbers

Safety-Kleen Environmental Affairs Department Telephone (312) 888-4660 (24-hour number)

National Response Center Telephone (800) 424-8802

Florida Dept. of Environmental Regulation, Southeast District, (305) 689-5800 South Florida Water Management District, West Palm Beach (305) 686-8800

Emergency Team to be Notified

Boynton Beach Fire Department 150 E. Boynton Beach Blvd. Boynton Beach, FL 33435 (407) 738-7430

Boynton Beach Police Department 135 N.E. 1st Avenue Boynton Beach, FL 33435 (407) 732-8132

Bethesda Memorial Hospital 2815 S. Seacrest Blvd. Boynton Beach, FL 33435 (407) 737-7733 or 278-7733

Industrial Waste, Inc. Ellyson Industrial Park, Box 34 Pensacola, FL 32514 (904) 479-1788

SAFETY-KLEEN CORP. Field Spill Report Form

Report all spills to the Safety-Kleen Environment, Health and Safety Dept, immediately

| 2. | Date of spill | | Time | | 2 1 | n /n m | | |
|---------------------------------|--|---|--------------------------|--|---------------------------------|---------------------------------------|---------|------------------|
| | | | | | | | | |
| 4. | Location of | spill: | | | | 1 me | | |
| | | led: | | | | | | |
| | | or property damage? | | | | | | |
| 7. | | ill | | | | | | |
| 8. | | led material contained? earby surface water or se | | or No stance to th | If yes, how? | If no, d | escribe | the scene in det |
| | | | | | | | | |
| 9. | Describe cle | an-up action taken | | | | | | |
| | | | | | | | | |
| 10. | Person invol | ved in incident. | | | | | | |
| 10. 11. | Person involvenicle # | ved in incident. | Company | | | | | |
| 10. 11. 12. | Person involvenicle # | ved in incident. | Company | | | | - | |
| 10. 11. 12. 13. | Person involvenicle # List any eme | ved in incident | Company ne by? Yes | or No Nat'l. Res | | | - | State |
| 10. 11. 12. 13. | Person involvenicle # List any eme | rgency agencies at scer mes or businesses near S-K Environment Dept. 1-800-323-5740 | Company ne by? Yes | or No Nat'l. Res | Distance? | | | |
| 10. 11. 12. 13. 14. | Person involved the second sec | rgency agencies at scer mes or businesses near S-K Environment Dept. 1-800-323-5740 | Company ne by? Yes | or No Nat'l. Res _i 1-800- | Distance? ponse Center 424-8802 | , | | |
| 10. 11. 12. 13. 14. Date/ | Person involved in the second involved in the second involved in the second involved in the second i | rgency agencies at scer mes or businesses near S-K Environment Dept. 1-800-323-5740 1-312-888-4660 (24 hr.) | Company | or No Nat'l. Res 1-800- | Distance? ponse Center 424-8802 | · · · · · · · · · · · · · · · · · · · | 1- | State |

Afte the

500-08-06

Received by EHS _____

EXHIBIT I.E.2-3

EMPLOYEES' FUNCTIONS DURING AN EMERGENCY

| | Title | | Emergency | Function |
|-----------------|-------------|------------|---|--------------------------------|
| Thomas H. Sands | Branch Mana | ager | Notify Engineer: Apply First Notify Em | |
| Sherry Warner | Branch Seci | retary | Coordina | Emergency tor Evacuation |
| John Ahr | Sales Repre | esentative | Retain, co slow the solvent Shut off | |
| Robert Uzzell | 11 | 11 | ** | 11 |
| Richard Colvin | 11 | 11 | 11 | 11 |
| Frede Scherr | 11 | " | 11 | 11 |
| Mark Williams | ,, | 11 | 11 | 11 |
| John Byers | 11 | " | 11 | 11 |
| Vern Eckles | 11 | " | *** | |
| Mike Hodde | Warehousem | an | 11 | 11 |
| Janet Sands | Secretary | | . 11 | 11 |
| Joan Uzzell | Secretary | | 11 | 11 |

SAFETY-KLEEN CORP.

777 Big Timber Rd. Elgin, IL 60120

I.E.2-4



| DENTITY (As Used on Label and List) Safety-Kleen 105 Solvent-MS | | | | i. If any nem is not ap ace must be marked to | |
|--|----------------------------|--|------------------------------|--|---------------------|
| | art #6617 | | | | |
| Manufacturer's Name Safety-Kleen Corp. | | Emergency Tele | | | |
| Address (Number, Street, City, State, and ZIP Cod | | 312/697- | -8460 per for Information | | |
| 777 Big Timber Road | | 312/697- | -8460 | | |
| Elgin, Illinois 60120 | _ | 11/6/85 | | | |
| | | Signature of Pre | perer (options) | | |
| Section II — Hazardous Ingredients/Id | lentity information | n | | | |
| lezardous Components (Specific Chemical Identif | ly; Common Neme(s)) | OSHA PEL | ACGIH TLY | Other Limits Recommended | % (aptions |
| Mineral Spirits | | 500 ppm | 100 ppm | - | 99.9+ |
| Dye | | Unk. | Unk. | - | 0.003 |
| Anti-Static Agent | | Unk. | Unk. | 100 est. | 1 ppm |
| | | | | | |
| Section III — Physical/Chemical Chara | | | | | |
| Section III — Physical/Chemical Chara | acteristics 310- 400°F | Specific Gravity | H ₈ O = 1) | | 0.775- 0.795 |
| lailing Paint | 310- | Specific Gravity (| H ₂ O = 1) | | |
| lailing Paint (apar Freenure (mm Hg.) @ 68°F | 310- 400 ^o F | Melting Point Eveporation Rate | | | 0.795 |
| Capar Pressure (mm Hg.) (apar Density (AIR = 1) (alubility in Water | 310- 400°F | Melting Point | | | 0.795 N/A |
| looling Point (apar Pressure (mm Hg.) (apar Cenery (AIR = 1) clubility in Water Negligible. | 310- 400°F 2 4.9 | Metting Point Eveporation Rate (Toluene • | 1) | lor. | 0.795 N/A |
| Capar Freezure (mm Hg.) (apar Density (AIR = 1) (alubility in Water | 310- 400°F 2 4.9 | Metting Point Eveporation Rate (Toluene • | 1) | lor. | 0.795 N/A |
| looing Point (appr Freenure (mm Hg.) (2 68°F (appr Density (AIR = 1) (blubility in Water Negligible. (clear green liquidection IV — Fire and Explosion Hazz | 310- 400°F 2 4.9 | Metting Point Eveporation Rate (Toluene • | n) ydrocarbon od | TUEL | 0.795 N/A |
| looing Point (appr Freenure (mm Hg.) (2 68°F (appr Cereny (AIR = 1) (clubility in Water Negligible. (clear green liquidection IV — Fire and Explosion Hazz (appreciate (Method Used) 105°F TCC | 310- 400°F 2 4.9 | Metting Point Eveporation Rate (Toluene - cteristic hy | n) ydrocarbon od | | 0.795 N/A 0.2 |
| looing Point (apar Freedure (mm Hg.) (a 68°F (apar Density (AIR = 1) (a 68°F (apar Density (AIR = 1) (a 68°F (a 6 | 310- 400°F 2 4.9 | Metting Point Eveporation Rate (Toluene - cteristic hy | n) ydrocarbon od | TUEL | 0.795 N/A 0.2 |
| looing Point (apar Freedure (mm Hg.) (apar Density (AIR = 1) (blobility in Water Negligible. (cpearance and Odor Clear green liquidection IV — Fire and Explosion Hazz (ash Point (Method Used) 105°F TCC (ctinguishing Media CO2, foam, dry c! | 310- 400°F 2 4.9 | Metting Point Eveporation Rate (Toluene - cteristic hy | n) ydrocarbon od | TUEL | 0.795 N/A 0.2 |

| Section v — | Reactivity Data | _ | A | | |
|--------------------------|--|----------------|-------------------------------------|------------------|--------------------------------|
| tability | Unstable | | Conditions to Avoid | | |
| | Stable | х | Heat, sparks, fla | ame and fire. | |
| competability (M | ferencis to Avoid) | C+ | | | |
| ezentous Occor | nposition or Byprod | ucts | g oxidizing agent | | |
| Normally n | one: howeve | r. ir | complete burning | may yield carbor | n monoxide. |
| ezardous olymenzation | May Occur | | Conditions to Avoid | | |
| | Will Not Occur | Х | | | |
| iection VI — | Heelth Hezard | Deta | | | |
| oute(s) of Entry: | inh y | elabon? 'es | | Skin? 110 | ingeston? yes |
| Skin - can | Acuse and Chronic) i cause dryi | ng of | skin. Eyes - se | vere irritant. | Inhalation - excessive |
| inhalation | n can cause | heada | che, dizziness an | d nausea. Inges | stion - harmful or fatal if |
| swallowed. | | | | | |
| arcinogenicity: | NT | P? | | ARC Monographs? | OSHA Regulated? |
| | wn or potent | ial | carcinogen. | | |
| Drying of | skin, eve i | rrit | ation, headache, d | izziness, nausea | a. |
| orying or | one of the original of the ori | | | | |
| Aedical Condition | ns _ | 77. | | | |
| merelly Aggrey | eed by Exposure | Un | known. | | |
| | | | | | |
| Skin - Was | sh with soap | and | water. Eyes - Irr | igate with water | r. Inhalation - Remove to fres |
| air source | e and call a | phy | sician. Ingestion | - DO NOT induce | vomiting. Call a physician. |
| Section VII - | - Precautions | for Sa | fe Handling and Use | | |
| Catch and | on in Case Material collect for | s Rele | med or Spiled overy as soon as p | ossible. Avoid | exposure to sparks, fire, |
| flame, hot | t surfaces. | | | | |
| | | | | | |
| Neste Disposal N | Method f in eccord: | 2200 | with company loca | 1 state and fe | deral regulations. |
| Dispose 0 | TH SCCOLUS | HILE | with company, roca | a, ocure and re- | |
| receptions to Bu | e Taken in Hendlin | and S | loring | | |
| Combustib | le. Keep at | way f | rom heat, sparks, | | h adequate ventilation. Avoid |
| | | | | | ertently saturated with solven |
| DO NOT SM | OKE- keep a | way f | rom ignition source | es. Keep out o | f reach of children. |
| | | | | | |
| Section VIII - | - Control Mea | sures | | | |
| | | | apparatus for conc | entrations abov | e TLV limits. |
| Vendation Seli-cont | Local Exhaust | | | Special Non | |
| | Normal room | | tilation. | Other | |
| | | | | 1 N | |
| | None. | • | longed contact | | e. |
| | In cases o wear rubbe | f pro | longed contact, ves. | Fig. Projection | ses, safety glasses. |
| | In cases o | f pro | | Fig. Projection | |

SAFETY-KLEEN CORP. 777 Big Timber Rd.

I.E.2-5



Elgin, IL 60120 IDENTITY (As Used on Label and List) Immersion Cleaner Note: Blank spaces are not permitted. If any nem is not applicable, or no and Carburetor and Cold Parts Cleaner 609 information is evaluable, the space must be marked to indicate that. Part #6631 Section I **Emergency Telephone Number** Manufacturer's Name Safety-Kleen Corp. 312/697-8460 Address (Number, Street, City, State, and ZIP Code) Telephone Number for Information 312/697-8460 777 Big Timber Road Date Prepared Elgin, Illinois 60120 11/6/85 Signature of Preparer (optional) Section II - Hezardous Ingredients/Identity Information Other Limi ACGIH TLV Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL % (optional) Cresylic Acids 5 ppm (skin) 5 ppm 11.9 Petroleum Sulfonate Unk. 7.4 Unk. Methylene Chloride 500 ppm 31.7 100 ppm 50 ppm 31.3 Ortho-di-chlorobenzene 50 ppm 0.4 Complex Amines Unk. Unk. 0.4 Triethanolamine 16.8 Water Section III - Physical/Chemical Characteristics **Boiling Point** 102-Specific Gravity (HgO - 1) 395°F 1.19 Vapor Pressure (mm Hg.) Moiting Paint N/A ~ water Vapor Density (AIR - 1) THE BOAT STATE OF THE PARTY OF ~ water ~ water water Solubility in Wester Completely miscible in all proportions. Appearance and Odor Clear, dark amber liquid-aromatic odor. Two distinct layers comprise the product. Section IV — Fire and Explosion Hazard Data ush Paint (Method Used) UEL منصنا عاده N/A Non-flammable Exinguishing Media N/A Special Fire Fighting Procedures Although product is non-flammable, flames, welding arcs or other high temperature sources can cause decomposition. This decomposition can yield corrosive and toxic fumes. Unusual Fire and Explosion Hezards

| Section V - | - Reactivity Dat | 4 | | | | | |
|------------------------------|---|------------------|---|---------------------|---------------------------------------|---|----------------|
| Stability | Unstable | | Conditions to Avoid Avoid smoke fro | m any combus | ition produ | ct. | |
| | Stable | X | Ju Smoke 110 | GILY COMDUS | eron broad | | · |
| incompetability | (Meternels to Avoid) | <u> </u> | <u> </u> | | | | |
| Strong of | xidizing age | | | | | | |
| Normally | none; howev | er, f | lames and welding | arcs can pr | oduce corr | osive and toxi | c fumes. |
| Hezardous Polymenzation | May Occur | | Conditions to Avoid | <u> </u> | | | |
| , | Will Not Occur | x | | | | | |
| Section VI | - Heelth Hezan | | | <u> </u> | · · · · · · · · · · · · · · · · · · · | | |
| Rouse(s) of Ent | ry: Int | velebon? | | Skin? | | Ingestion? | |
| Heath Hazarda This mate | (Agus and Chronic) | yes rosiv | e to living tissu | yes e. Excessive | inhalation | yes n can cause he | adache, |
| | s and nausea | | | | | | |
| | *************************************** | | | | - | | |
| Carcinogenicity: | זא ח | P? 0 | | WRC Monographs? | | OSHA Regulated? | |
| | | as be | en found to cause | tumors in 1 | aboratory | test animals. | |
| Burning of | of eyes and | skin. | headache, nausea | • | | | |
| | | 7 | -, | | | | |
| plain wat | ter. DO NOT | INDUC | S - Irrigate with tion - Remove to E VOMITING. Call | a physician. | | Mark the supposed programme of the | |
| hone to Se Tel | en in Cose Mesenel | le Beleau | Handling and Use | | | and a financial communication of the second | en engar enwis |
| Absorb s | oill with sav | wdust | or oil absorbent | | | | |
| | | | ner flushing and | | | | |
| ash, baki | | ustic | soda) will aid i | n neutralizi | ng cresylic | acid from the | e spill. |
| Dispose o | of in accord | ance v | with company, loc | al, state an | d federal | regulations. | |
| e di se | | | | | | | |
| Keep away | e Taken in Hending y from heat, | spar | ring cs and open flame | . Use adequa | te ventilat | ion. Avoid cor | ıtact |
| | and eyes. | | - | | | | a de la j |
| ther Precaution avoid pos | If cleaners | irrita | acts clothing, clation. Although p | roduct is no | n-flammable | e, open flames, | , welding |
| arcs or c | ther high to corrosive | empera and to | iture sources can exic fumes. | cause produ | cr decompo: | sition. This di | ecomposit. |
| ection VIII | - Control Mees | ures | | | · · · · · · · · · · · · · · · · · · · | | |
| Self-cont | coon (Specify Type) | hino = | apparatus for conc | centrations | above TIV 1 | imits. | |
| entilation | Local Exhaust | | -ppdracao ror con | Social | | | |
| | Yes Mechanical (General | 19 | | Other | None. | | |
| Grecine Grad | None. | | | | None. | | |
| Rubber gl | Loves. | | | Chemical fa | ace shield; | goggles. | |
| | | ect si | cin and clothing. | | | | |
| Do not si | noke around | this r | roduct. | | ··· | | |

SAFETY-KLEEN CORP. 777 Big Timber Rd. Elgin, IL 60120

I.E.2-6



| DENTITY (As used on Leon and Les) Safety-Kleen Perchloroethylene | e | | is ere not permitted. Is evenione, the spec | | |
|--|---|--|--|--------------|------------------|
| Section Dry Cleaning Grade | Part #778 | | | | - |
| Asmutamurer's Name | • | Emergency Teep | none Number | | |
| Safety-Kleen Corp. | | 312/697-84 | 60 | | |
| Nacress (Number, Street, City, State, and ZIP Cook |) | Terephone Number | | | |
| 777 Big Timber Road | | 312/697-84 | +60 | | |
| Elgin, Illinois 60120 | | 11/25/85 | | | |
| | | Signature of Preci | 44 (2224) | | |
| Paralle Hammitan Innerdicted | | | · | <u></u> | |
| Section II — Hazardous Ingredients/Ide | | | - | Other Limits | |
| Hazargous Components (Specific Chemical Identif) | r: Common Neme(s)) | CSHA PEL | ACSIH TLY | Recommended | % (000001 |
| Perchloroethylene | | 100 ppm | 50 ppm | · | |
| | | | | | |
| Section III — Physical/Chemical Chara | carlstics | | | | |
| Section III — Physical/Chemical Chara | | Specific Gravity (F | I ₂ O - 1) | | 1.6 |
| Soving Point (spor Pressure (mm Hg.) | 250°F. | Specific Gravity (F | I ₂ O - 1) | | 1.6 N/A |
| lating Park (spor Pressure (mm Hg.) | 250°F. | Meting Point Evaporation Rate | | | N/A |
| losing Point (appr Pressure (mm Hg.) | 250°F. | Metang Point | | | 1 |
| losing Point (appr Pressure (mm Hg.) (appr Censity (AIR = 1) (outsity in Water | 250°F. | Meting Point Evaporation Rate | | | N/A |
| losing Point (appr Pressure (min Hg.) (appr Censity (AIR = 1) (appr Censity on Water Negligible. | 250°F. | Meting Point Evaporation Rate | | | N/A |
| appr Pressure (mm Hg.) appr Censity (AIR = 1) cludity in Water Negligible. ppearance and Odor | 250°F. | Meting Point Evaporation Rate | | | N/A |
| coing Fort (acor Pressure (mm Hg.) (a 20°C. (acor Censky (AFR = 1)) cluckty or Water Negligible. opearance and Odor Colorless, clear liquid, mild | 250°F. 13 5.8 | Meting Point Evaporation Rate | | | N/A |
| losing Forst (appr Pressure (mm Hg.) (appr Censity (AIR = 1) (appr C | 250°F. 13 5.8 | Heing Point Evaporation Assa (toluene - 1 |) | | N/A |
| Jacor Pressure (mm Hg.) (acor Pressure (mm Hg.) (acor Censity (AIR = 1) Counsity in Water Negligible. Operance and Odor Colorless, clear liquid, mild Section IV — Fire and Explosion Haza Resn Port (Method Used) | 250°F. 13 5.8 | Meting Point Evaporation Rate |) | N/A | N/A 0.09 |
| Jacor Pressure (mm Hg.) (a 20°C. (accor Censity (AIR = 1) (a 20°C. (a 20°C | 250°F. 13 5.8 | Metang Point Evaporation Rate (toluene - 1 |) | | N/A 0.09 |
| coing Port (appr Pressure (mm Hg.) (a 20°C. (appr Censity (AIR = 1) (cupity in Water Negligible. (operands and Odor Colorless, clear liquid, mild (cection IV — Fire and Explosion Haza lean Port (Method Used) None (tag closed cup) (conguering Media N/A | 250°F. 13 5.8 Lly sweet. | Metang Point Evaporation Rate (toluene - 1 | 2 | N/A | N/A 0.09 |
| Accor Pressure (mm Hg.) (accor Pressure (mm Hg.) (accor Censity (AIR = 1) (accor Censity (AIR = 1) (accor Censity (AIR = 1) (because and Coor Colorless, clear liquid, mild (acction IV — Fire and Explosion Haza (acction IV — Fire acction IV — IV | 250°F. 13 5.8 Lly sweet. | Metang Point Evaporation Rate (toluene - 1 | 2 | N/A | N/A 0.09 |
| Good Pressure (mm Hg.) (20°C. (20°C. | 250°F. 13 5.8 Ly sweet. Ind Data | Heang Point Evaporation Rate (toluene - 1 Flammacie Limits N/A be used by f | 2 | N/A | N/A 0.09 |
| coing Point appr Pressure (mm Hg.) appr Censity (AIR = 1) country on Wester Negligible. posserance and Odor Colorless, clear liquid, mild action IV — Fire and Explosion Haza ann Point (Method Used) None (tag closed cup) xonquering Media N/A count Fire Figuring Procedures Self-contained breathing equi | 250°F. 13 5.8 Ly sweet. Ind Data Ipment should Keep contain | Heang Point Evaporation Rate (toluene - 1 Flammatic Limits N/A be used by f er cool. | iremen in bu | N/A | N/A 0.09 |

Protective headgear and apron when splashing is a problem.

no not smoke when using this arminet.

Workhypenic Practices

SAFETY-KLEEN CORP.

77 Big Timber Rd.

Elgin, IL 60120

I.E.2-7



| DOTELATION | n Leod and USI) Lacquer Thinner | | | eces are not permitted on is evaluable, the spa | | |
|--|--|---|---|--|----------------------------|---------------------------------------|
| Section I | Part #6782 | *** | , · · | | | |
| Manufacturer's Name | | | | ephone Number | | |
| Safety-Kleen | | | 312/697-8 | | | |
| Address (Number, Sire 777 Big Timbe | er Road | | 312/697-8 | toer for information 4.60 | | |
| | | | Date Prepared | | | |
| Elgin, Illino | ois 60120 | | 12/13/85 | | | |
| | | | Signature of Pri | | | |
| Section II — Hazz | ardous ingredients/ident | ity information |) | _ | | |
| Hazardous Component | s (Specific Chemical Identity; Co | ommon Name(s)) | OSHA PEL | ACGIH TLY | Other Limes Recommended | % (00000n |
| Toluene | | - | 200 ppm | 100 ppm | • | |
| Xylene | | | 100 ppm | 100 ppm | • | |
| Methyl Ethyl | Ketone | | 200 ppm | 200 ppm | • | |
| Methyl Iso Bu | | | 100 ppm | 50 ppm | 4 | · · · · · · · · · · · · · · · · · · · |
| Acetone | | | 1000 ppm | 750 ppm | - | |
| Isopropanol | • | | 400 ppm | 400 ppm | • | |
| Methanol | | • | 200 ppm | 200 ppm | • | |
| Ethanol · | • | | 1000 ppm | 1000 ppm | • | |
| Normal Butyl | Acetate | | 150 ppm | 150 ppm | • | |
| Iso Butyl Ace | tate | | 200 ppm | 200 ppm | ~ | · · · · · · · · · · · · · · · · · · · |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Section III — Phys | sical/Chemical Character | ristics | | | | |
| Section III Phyloling Point | sical/Chemical Character | 131- | Specific Gravity | (H ₂ O = 1) | | ~ ∕0.8/0 |
| | 2) | | | (H ₂ O = 1) | | ~0.840 |
| loiling Point | e 68°F. | 131- | Metting Point | | | N/A |
| lailing Paint | e 68°F. | 131- 347°F. | Meting Point Evaporation Rate | | | N/A slower |
| apor Pressure (mm He apor Density (AIR = 1) olubility in Water | e 68°F. | 131- 347°F. | Meting Point Evaporation Rate | | | N/A |
| coling Point apor Pressure (mm H apor Density (AIR = 1) clubility in Water Appreciable. | e 68°F. | 131- 347°F. | Meting Point Evaporation Rate | | | N/A slower |
| apor Pressure (mm He apor Density (AIR = 1) olucitity in Water Appreciable. | e 68°F. | 131- 347°F. 185 2.0 | Metting Point Evaporation Ran (Ether • | 1) | | N/A slower |
| apor Pressure (mm He apor Density (AIR = 1) olubility in Water Appreciable. ppearance and Odor Clear colorle | @ 68 ⁰ F. | 131- 347°F. 185 2.0 | Metting Point Evaporation Ran (Ether • | 1) | | N/A slower |
| apor Pressure (mm He apor Density (AIR = 1) olucitity in Water Appreciable. ppearance and Odor Clear colorle section IV — Fire | @ 68°F. ess liquid with char and Explosion Hazard [| 131- 347°F. 185 2.0 | Metting Point Evaporation Ran (Ether • | or. | | N/A slower than eth |
| apor Pressure (mm He apor Density (AIR = 1) olucitity in Water Appreciable. ppearance and Odor Clear colorle | @ 68°F. ess liquid with char and Explosion Hazard [| 131- 347°F. 185 2.0 | Meting Point Evaporation Rate (Ether • | or. | 1.1 | N/A slower than eth |
| apor Pressure (mm Higher Pressure Pres | e 68°F. g 68°F. ess liquid with char and Explosion Hazard [ed) y chemical, water (| 131- 347°F. 185 2.0 | Meting Point Evaporation Rate (Ether • | or. | | N/A slower than eth |
| apor Pressure (mm Higher Pressure (mm Higher Pressure Pressure (mm Higher Higher Higher Higher Pressure (mm Higher Hight Higher Hight Higher Hight Higher Hight Hight Higher Higher Hight Higher Higher Higher Higher Higher | e 68°F. g 68°F. ess liquid with char and Explosion Hazard [ed) y chemical, water (| 131- 347°F. 185 2.0 acteristic Data mist only) | Meting Point Evaporation Rate (Ether - solvent odd | or. | 1.1 | N/A slower than eth |
| apor Pressure (mm Higher Pressure Pressure (mm Higher Pressure | g 68°F. g 68°F. gs liquid with char and Explosion Hazard [ed) y chemical, water (conductors | 131- 347°F. 185 2.0 acteristic mist only) containers | Evaporation Range (Ether solvent odd) Flammable Limits and firef: | or. | ver, due to d | N/A slower than eth |

| Cition VIII — Control Measures Crition VIII — Control Measures Crition VIII — Control Measures Critic Protection (Specify Type) Espirator as recommended by NIOSH for concentrations above TLV limits. Local Estatest Sufficient to keep concentrations above TLV limits. Local Estatest Sufficient to keep concentrations above TLV limits. None. Mechanical (General) None. Const. None. Const. None. Const. None. Const. None. Protective Closing or Equations Yes - eyeglasses, safety glasses. | Santias V | Reactivity Date | | | | P/N 6782 |
|--|---|--|------------------|--|--|--|
| Same X Heat, sparks, flame and fire. **Commonstations** (Memoriss to Accol)** **Strong Oxidizing agents.** **Commonstations** (Memoriss to Accol)** **Strong Oxidizing agents.** **Commonstations** (Memoriss to Accol)** **Commonstations | | | s | I Canadiana in Anni | | |
| X Heat, sparks, flame and fire. | neurii y | | | Conditions to Avoid | - | |
| Controlled Fig. 1 And Procedure Types and Type | | Stable | x | Heat sparks | flows and fire | |
| Control v none; however, incomplete burning may vield carbon monoxide. Application of the process of Accessors to Accesso | compatability | (Meterials to Avoid) | <u> </u> | , sparks, 1 | tame and tire. | |
| Normally none: however, incomplete burning may vield carbon monoxide. Approximation May Occar X action VI - Health Hazard Data More of Enry. Ves Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes | | | | | | |
| May Occur May Occur X | Normally | none: however | | complete burning | mon mield | |
| will Not Coou X section VI — Health Hazard Data Outsing of Error: Innamazor? Yes | lezerdous | | | Conditions to Avoid | a may vieid carbon | i monoxide. |
| Accident VI — Health Hazard Data Courses of Error: Inchespoor? Yes Sun? Yes Yes Yes Yes Sun? Yes Yes Yes Yes Sun? Yes Sun? Yes Yes Sun? Sun? Yes Sun? Yes Sun? Sun? Yes Sun? Sun? Yes Sun? Sun? Yes Sun? Yes Sun? Sun? Yes Sun? Yes Sun? Yes Sun? Sun? Yes Sun. Yes Sun? Yes Yes Sun? Yes Sun? Yes Sun? Yes Yes Yes Yes Yes Yes Yes Ye | ·,·.·· | Will Not Occur | | | | |
| Consts) of Every: Present Hands Access of Croncy Yes | | | 1 1 | | | |
| west research record for second record recor | | | Data | | | |
| wash washed Acceptance of Series and water. Eyes - Irrigate with water. Inhalation - Remove to from the source and call a physician. Ingestion - DO NOT INDUCE VOMITING. Call a physician. Calculate for recovery as soon as possible. Avoid exposure to sparks, fire, lame, but surfaces. Subscript Series of in accordance with company, local, state and federal regulations. Subscript Series of in accordance with company, local, state and federal regulations. Subscript Series of a state of the surfaces of the surfaces of the surfaces. Subscript Series of the surfaces. Subscript Series of the surfaces wash from heat, sparks, flame. Use with adequate ventilation. Subscript Series of the surfaces of | oute(s) of Entry | | | | | |
| AND MACROS AND | esiti Hazarda | (Acute and Chronic) | | | | |
| AND MACROS AND | okin – ca | n cause dryin | ig of | skin. Eyes - Se | evere irritant. In | halation - Excessive |
| wallowed. NTP? NO NTP? NO NTP? NO NO NO NO NO NO NO NO NO N | nhalation | n can cause h | eada | che, dizziness a | nd nausea. Ingest | ion - Harmful or fatal if |
| one of the ingredients are known or suspected carcinogens. The series of Exposure of Exposure rying of skin, eye irritation, headache, dizziness, and nausea. Conditions | wallowed | • | | | | |
| one of the ingredients are known or suspected carcinogens. The word Symptoms of Exposure Trying of skin, eye irritation, headache, dizziness, and nausea. Which conditions Which conditions Which is a process of the process of the conditions of | renogenicity; | | ? | | IARC Monographs? | OSHA Requisited? |
| Typing of Skin, eye irritation, headache, dizziness, and nausea. School Conditions Serpency and First Aid Procedures Kin - Wash with soap and water. Eyes - Irrigate with water. Inhalation - Remove to from the source and call a physician. Ingestion - DO NOT INDUCE VOMITING. Call a physician. Cition VII - Precautions for Safe Handling and Use per to be Taxon in Case Managers is Released or Science atch and collect for recovery as soon as possible. Avoid exposure to sparks, fire, Lame, hot surfaces. The Disposal Macroca Ispose of in accordance with company, local, state and federal regulations. The Disposal Macroca Ispose of in accordance with company, local, state and federal regulations. The Case of Safe in Handling and Storing tremely flammable. Keep away from heat, sparks, flame. Use with adequate ventilation, oid long and repeated contact with skin. If clothes are inadvertently saturated with processors. The Control Measures The Processor None. The Processor The Processor | one of +1 | | | · · | | no |
| disa Conditions New York Aggreement by Exposure Unknown. Use Manual in Amelation - Remove to fr in Special and physician. Use Manual in Amelation. Unknown. Use Manual in Handing and Soring tremely flammable. Keep away from heat, sparks, flame. Use with adequate ventilation. Unknown. Unkn | ne and Sweet | ne ingredient | s are | known or suspe | cted carcinogens. | |
| The Control of the state of the | rying of | skin, eye ir | ritat | ion, headache, | dizziness, and na | usea. |
| wearney Aggressed by Exposure Unknown. Wash with soap and water. Eyes - Irrigate with water. Inhalation - Remove to from the source and call a physician. Ingestion - DO NOT INDUCE VOMITING. Call a physician. Cition VII — Precautions for Safe Handling and Use To de Taken in Case Manager is Released or Spried tich and collect for recovery as soon as possible. Avoid exposure to sparks, fire, Lame, hot surfaces. The Disposal Memod Spose of in accordance with company, local, state and federal regulations. The Disposal Memod Spose of in accordance with company, local, state and federal regulations. The Disposal Memod Spose of in accordance with company, local, state and federal regulations. The Disposal Memod Spose of in accordance with company, local, state and federal regulations. The Disposal Memod Spose of in accordance with company, local, state and federal regulations. The Disposal Memod Spose of in accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with accordance with skin. If clothes are inadvertently saturated with a | | | | | | |
| expensy and First Aid Procedures Ain - Wash with soap and water. Eyes - Irrigate with water. Inhalation - Remove to fr ir source and call a physician. Ingestion - DO NOT INDUCE VOMITING. Call a physician. Cition VII - Precautions for Safe Handling and Use DE to Be Taken in Case Meanual is Released or Spised atch and collect for recovery as soon as possible. Avoid exposure to sparks, fire, Lame, hot surfaces. DESCRIPTION OF THE AID PROCESSION OF SPISED OF S | | | • | | | |
| ir source and call a physician. Ingestion - DO NOT INDUCE VOMITING. Call a physician. ction VII — Precautions for Safe Handling and Use po to Be Taken in Case Mannel is Released or Sciled atch and collect for recovery as soon as possible. Avoid exposure to sparks, fire, lame, hot surfaces. The Disposed Method Ispose of in accordance with company, local, state and federal regulations. The Disposed Method Ispose of in accordance with company, local, state and federal regulations. The Disposed Method Ispose of in accordance with company, local, state and federal regulations. The Disposed Method Ispose of in accordance with company, local, state and federal regulations. The Disposed Method Isposed | nerally Aggrey | ated by Exposure | Unkno | wn. | | • |
| kin - Wash with soap and water. Eyes - Irrigate with water. Inhalation - Remove to fr ir source and call a physician. Ingestion - DO NOT INDUCE VOMITING. Call a physician. citon VII - Precautions for Safe Handling and Use po to Be Taxon in Case Manaral is Remarked or Spiked atch and collect for recovery as soon as possible. Avoid exposure to sparks, fire, lame, hot surfaces. The Disposal Memod Is possed of in accordance with company, local, state and federal regulations. The Disposal Memod Is possed of in accordance with company, local, state and federal regulations. The Disposal Memod Is possed of in accordance with company, local, state and federal regulations. The Disposal Memod Is possed of in accordance with company, local, state and federal regulations. The Disposal Memod Is possed of in accordance with company, local, state and federal regulations. The Disposal Memod Is possed of in accordance with company, local, state and federal regulations. The Disposal Memod Is possed of in accordance with company, local, state and federal regulations. The Disposal Memod Is possed of in accordance with company, local, state and federal regulations. The Disposal Memod Is possed of in accordance with company, local, state and federal regulations. The Disposal Memod Is possed of in accordance with company, local, state and federal regulations. The Disposal Memod Is possed of in accordance with company, local, state and federal regulations. The Disposal Memod Is possed of Spiker Is possed in accordance with state and federal regulations. The Disposal Memod Is possed of Spiker Is possed in accordance with state and federal regulations. The Disposal Memod Is possed of Spiker Is possed in accordance with state and federal regulations. The Disposal Memod Is possed of Spiker Is possed in accordance with state and federal regulations. The Disposal Memod Is possed of Spiker Is possed in accordance with state and federal regulations. The Disposal Memod Is possed in accordance with state and federal regulations. | | • | | | | |
| The source and call a physician. Ingestion - DO NOT INDUCE VOMITING. Call a physician. Cotion VII - Precautions for Safe Handling and Use per to Be Taxon in Case Mineral is Released or Scried atch and collect for recovery as soon as possible. Avoid exposure to sparks, fire, Lame, hot surfaces. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with company, local, state and federal regulations. The Disposal Method Ispose of in accordance with state and federal regulations. The Disposal Meth | ergency and F | rat Aid Procedures | | | | |
| ction VII — Precautions for Safe Handling and Use parts Be Taxon in Case Mineral is Released or Scried atch and collect for recovery as soon as possible. Avoid exposure to sparks, fire, lame, hot surfaces. Lame, hot surfaces. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Ispose of in accordance with company, local, state and federal regulations. The Disposal Memod Isposal Memod Is | kin - was | n with soap | and w | ater. Eyes - Iri | rigate with water | . Inhalation - Remove to fr |
| part of a favor in Case Memorial is Released or Spied atch and collect for recovery as soon as possible. Avoid exposure to sparks, fire, lame, hot surfaces. Indeed, hot surfaces, hot sur | ir source | and call a | physi | cian. Ingestion | - DO NOT INDUCE | TOMITTING Call a physician |
| The Description of Be Taken in Case Management is Released or Spiled atch and collect for recovery as soon as possible. Avoid exposure to sparks, fire, lame, hot surfaces. See Disposal Memod Lispose of in accordance with company, local, state and federal regulations. Sections to Be Taken in Handling and Storing tremely flammable. Keep away from heat, sparks, flame. Use with adequate ventilation, roid long and repeated contact with skin. If clothes are inadvertently saturated with precautions. Section VIII — Control Measures Thion VIII — Control Measures Thion VIII — Control Measures Thion Local Expanse Sufficient to keep concentrations above TLV limits. Licon Licon Expanse Sufficient to keep concentrations above TLV limits. Licon Licon Expanse Sufficient to keep concentrations above TLV limits. Licon Licon Licon Licon (General) None. Check Glober In cases of prolonged contact, wear rubber gloves. Approximate Cooling or Equipment | COOK 111 — | LIACERTOUR 10 | 2416 | mandling and Use | | out a physician. |
| Librored Memoral Lispose of in accordance with company, local, state and federal regulations. Cautions to Be Taken in Hending and Storing Circemely flammable. Keep away from heat, sparks, flame. Use with adequate ventilation. Coid long and repeated contact with skin. If clothes are inadvertently saturated with shivent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. Keep out of reach of children clovent - DO NOT SMOKE - Keep away from ignition sources. | OS 10 Be Take | n in Case Material le | Balance | d as Cailland | | |
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Certified Mail-Return Receipt Requested

June 21, 1988

Police Chief Boynton Beach Police Department 135 N.E. 1st Avenue Boynton Beach, FL 33435

Subject: Safety-Kleen Corp. (3-097-01) 1855 SW 4th Ave. Bldg B Bay 30 Delray Beach, FL 33444

Dear Sir:

Under terms of U.S. EPA Regulations 40 CFR 265, Safety-Kleen Corp. must make arrangements to familiarize local authorities with the layout of the facility, places where facility personnel work, entrances to the facility and possible evacuation routes.

A copy of the Contingency Plan is enclosed for your files. It includes Material Safety Data Sheets for the solvents handled at the subject site: mineral spirits, carburetor cleaner, dry cleaning solvents and paint thinners. These documents describe the properties and associated hazards of the materials at the facility. A facility layout plan is also included to show where facility personnel normally work, entrances to the facility and possible evacuation routes.

If you have any questions or desire to visit our facility, please contact Mr. Thomas Sands at 407/276-8886.

Sincerely,

11en J. Hrczak, P.E.

Permits Manager

cc: T. Sands, Br. Mgr. (3-097-01)



Certified Mail-Return Receipt Requested

June 21, 1988

Fire Chief
Boynton Beach Fire Department
150 E. Boynton Beach Blvd.
Boynton Beach, FL 33435

Subject: Safety-Kleen Corp. (3-097-01)

1855 SW 4th Ave. Bldg B Bay 30

Delray Beach, FL 33444

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Sincerely,

Elle J. Jurczak, P.E.

Permits Manager

EJJ/dfs

cc: T. Sands, Br. Mgr. (3-097-01)



Certified Mail-Return Receipt Requested

Jume 21, 1988

Hospital Administrator Bethesda Memorial Hospital 2815 S. Seacrest Blvd. Boynton Beach, FL 33435

Subject: Safety-Kleen Corp. (3-097-01)

1855 SW 4th Ave. Bldg B Bay 30

Delray Beach, FL 33444

Dear Sir or Madam:

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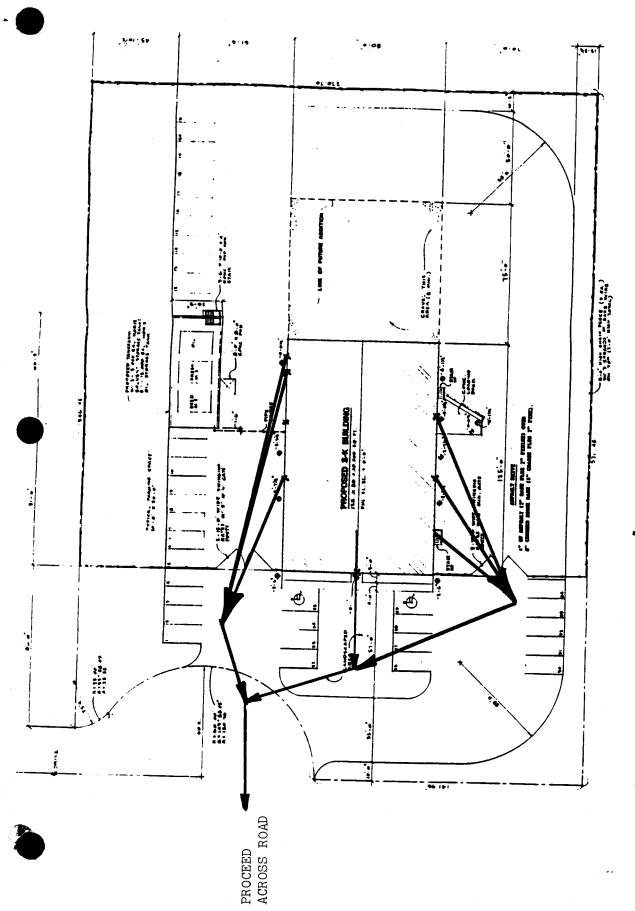
If you have any questions or desire to visit our facility, please contact Mr. Thomas Sands at 407/276-8886.

Sincerely,

Ellen Jurczak, P.E.

F.IJ: de s

cc: T. Sands, Br. Mgr. (3-097-01)



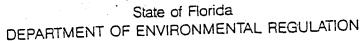
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EXHIBIT 2-11
EVACUATION PLAN

State of Florida Department of Environmental Regulation

District Routing Slip

| Pensacola | | cc |
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| | Northwest District | |
| Panama City | Northwest District Branch Office | |
| Tallahassee | Northwest District Branch Office | 1 |
| Apalachicola | Northwest District Satellite Office | |
| Tampa | Southwest District | |
| Bartow | Southwest District Satellite Office | + |
| Venice | Southwest District Satellite Office | |
| Orlando | Central District | _ |
| Melbourne | Central District Satellite Office | |
| Jacksonville | Northeast District | +- |
| Gainesville | Northeast District Branch Office | 1 |
| Fort Myers | South District | 1- |
| Punta Gorda | South District Branch Office | - |
| Marathon | South District Branch Office | 1- |
| West Palm Beach | Southeast District | + |
| Port St. Lucie | Southeast District Branch Office | |
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| | Dept. of Environmenta West Palm Beach | |
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Interoffice Memorandum

TO:

Beth Knauss

THRU:

Victor San Agustin, P.E.

Bill CrawfordVSA for 7/3

FROM:

Lynne R. Milanian Mnne 7/3

DATE:

June 22, 1990

SUBJECT:

Safety-Kleen Corp., FLD 980 847 271

Permit Application HO29-158820

Tampa, Florida Service Center

On June 19, 1990 the RCRA permitting staff conducted an inspection to verify completion of construction of the Safety-Kleen Tampa Service Center. After careful examination of the facility, in comparison with the application submitted, it was determined that the nature of the discrepancies warranted enforcement action.

Attached is a description of each deviation.

LRM/ab Attachment

Satish Kastury, DER/Tallahassee

James Scarbrough, EPA/Atlanta Region IV

RECEIVED MAY 1 3 1991 Dept. of Environmental Reg. West Palm Beach

Noted Discrepancies

North Building

1. Hazardous waste storage area described via calculations, diagrams and narrative to possess 2 containment trenches, thus able to support a storage capacity of 6,192 gallons of liquid hazardous waste.

Actual storage area has 1 containment trench, in field measurements were approximately 93 inches X 20.5 inches X 23 inches, therefore actual containment capacity is roughly 189 gallons. As such, liquid hazardous waste storage capacity is only 1,890 gallons.

See attached Diagram.

Regulatory Reference

- a. 40 CFR 264.175(b)(3) A containment system having sufficient capacity to contain 10% of the volume of containers or the volume of the largest container, whichever is greater, has not been provided.
- b. Section 403.161(1)(c), F.S. Applicant has willingly submitted false documentation (i.e. calculations, diagrams and narrative) which was utilized to support the permit application.
- 2. A grated manhole adjacent to the hazardous waste storage area and a floor drain at the base of the stair well were noted in the north building. It was originally believed that these 2 drainage systems tied into the city sewer system, however, facility contacts indicated that each system transfers any collected liquids to the on-site septic-system.

Regulatory Reference

a. 40 CFR 264.31 Facility must be designed to minimize unplanned sudden or non-sudden releases of hazardous waste or hazardous waste constituents to air, soil or waters which could threaten human health or the environment.

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Solvent Return/Fill Area

1. Transfer of liquid hazardous wastes (spent mineral spirits), product dispensing area (Mineral spirits) and drum washing area. Again diagrams, calculations and narrative submitted documenting 6 containment sumps and a larger concrete curb containment area.

Actual containment provided included only 2 sumps and the area defined by concrete curbing was smaller - thus reducing available containment capacity. In-field measurements were not taken as it became evident that it would be necessary to re-survey the entire facility. Also sloping (to facilitate drainage to collection sumps and trenches) is questionable.

V

See attached Diagram.

Regulatory Reference

- a. Section 403.161(1)(c), F.S. Applicant has willingly submitted false documentation (i.e., calculations, diagrams and narrative) which was utilized to support the permit application.
- b. 40 CFR 264.193(e)(1)(i) Applicant originally stated that a containment volume of 1,120 gallons would be provided by the 4 outer sumps. As the 4 outer sumps do not exist and the curbing present is providing containment for a much smaller area, containment able to hold 100 percent of the capacity of the largest tank (dumpster) within the containment boundary may not have been constructed.
- 2. The three dumpsters receiving the hazardous waste for transfer to the storage tank contained the wastes (both liquid and sludge) and were serving as storage units which contradicts narrative stating that the dumpsters would not be utilized for storage. The three dumpsters are part of the ancillary equipment of the tank system and they are being utilized as storage units.

Regulatory Reference

- a. 40 CFR 264.192(a)(1) A written assessment, reviewed and occurrified by an independent professional engineer detailing the integrity of the ancillary equipment has not been submitted.
- b. 40 CFR 264.192(a)(5) Design considerations detailing the $\bigcirc \mathcal{K}$ ancillary equipment have not been provided.
- c. 40 CFR 264.192(b) A report detailing proper installation of ancillary equipment was not submitted.
- d. 40 CFR 264.192(d) A report establishing tightness was not ok submitted for the ancillary equipment.
- e. 40 CFR 264.192(g) Written statements certifying the design of the entire tank system were not on file at the facility.

CHECK_ THES

South Building

- 1. One available containment trench in this area was not even presented on the diagram.
- 2. Two outlets from the building are provided in the event that the system's containment capacity is exceeded. Overflow will not directly proceed to the retention pond but will flow in a disorderly fashion down the parking lot to the drainage ditch to the pond. Excess run-off will cause backflow in the ditch which will enter a concrete spillway and flow off-site.

See attached diagram.

Regulatory Reference

- a. Section 403.161(1)(c), F.S. Applicant has willingly submitted false documentation (i.e., calculations, diagrams and narrative) which was utilized to support the permit application.
- b. 40 CFR 264.31 Facility has not been designed to minimize unplanned sudden or non-sudden releases of hazardous waste or hazardous waste constituents to air, soil or waters which could threaten human health or the environment.

Conclusion

- 1. An independent, certified, surveyor should perform the in-field measurements pertaining to all sumps, trenches, curbing and sloping. Results and diagrams should be submitted to the Department.
- 2. A warning should be issued to the P.E. who certified the application.
- 3. Tightness tests should be performed on the piping conveying material from the manhole in the north building to the septic system as well as the piping from the floor drain in the stair well. If testing verifies the integrity of the piping, soil sampling will only need to be secured at the discharge point. Groundwater sampling may also be advisable. The pipes should then be removed or filled with concrete and sealed.
- 4. A complete assessment of the ancillary equipment which supports the storage tank must be provided.

- 5. Facility should not be authorized to utilize the pond for storage of liquids which exceed the containment system's capacity. Pond overflow will allow waste waters to proceed off-site and enter the county drainage ditch. Also, an assessment of the ponds drawdown rate, average and seasonal high groundwater levels, groundwater quality, etc., would be necessary.
- 6. Consider denial of this permit I have drafted 3 NOD's to Safety, each time I repeatedly requested diagrams for the same areas (i.e., solvent/fill return area, service center storage area particularly for containment, and the accumulation center storage area also for containment). Further, I clearly stated that all calculations and diagrams must be signed and sealed. Safety-Kleen only managed to seal the first set of documents (in a response to my first NOD) and that occurred because the original application was not signed or sealed.

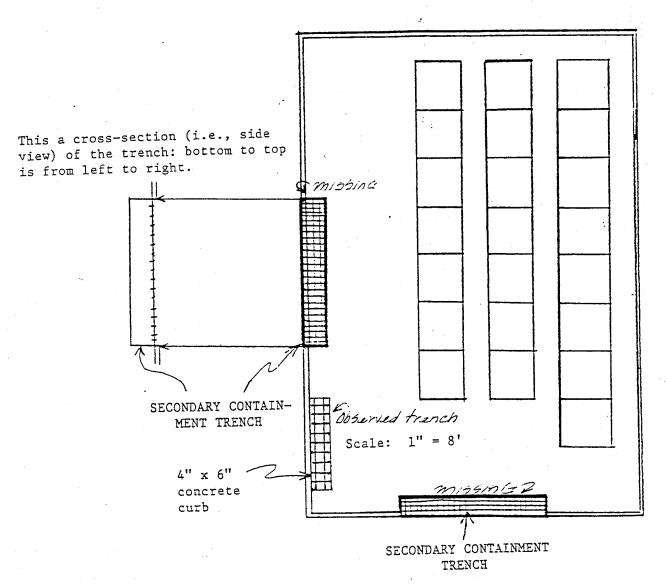
The final diagram Safety submitted was still incorrect (for the fourth time) so I finally called and told them to correct the diagram which was revised and faxed. The problem had to do with reported containment capacities.

Safety-Kleen has not displayed a professional attitude in presenting their application nor in providing additional information. They have exhibited a nonchalant behavior and the Department is justified in assessing penalties and fines as well as denying the operating permit.

SAFETY-KLEEN CORPORATION

TAMPA, FLORIDA FACILITY

SECONDARY CONTAINMENT CALCULATIONS



The secondary containment system is closed; no piping is associated with it. There is no slope to the floor. All containers will be stored on pallets.

Service Center Container Storage Area:

Two Trenches:

 $2 \times 11' 9 1/4" L \times 19" W \times 2' D \times 7.481 gal./cf = 623.7 gallons$

Amount to Be Stored:

43 single or double stacked pallets x 9 drums/pallet x 16 gallons/drum = 6.192 gallons. While the volume of each type of waste stored may vary, the total volume stored will never exceed 6.912 gallons.

Accumulation Center
Schematic

Revised 4/25/90

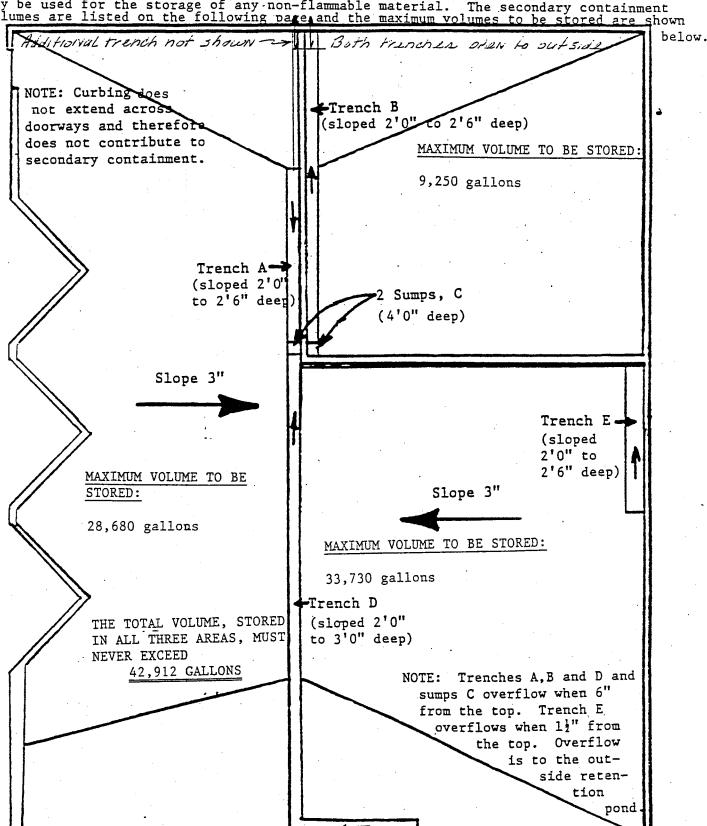
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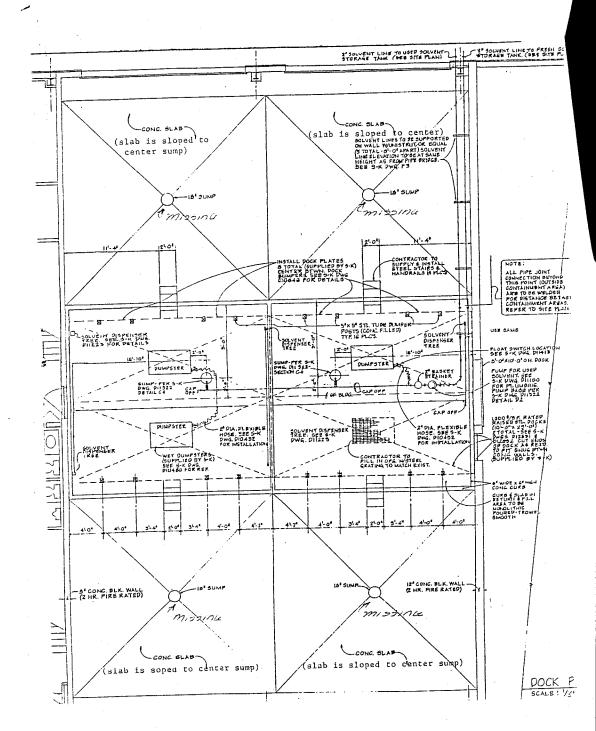
Revised 2/8/90

Page 2 of 3

Scale: 1" = 12'

The trenches delineate three separate areas in this building. The square room in the upper sht corner is designed to hold flammable material; flammable material may not be stored any area but this room. The remaining two areas are actually one L-shaped room which by be used for the storage of any non-flammable material. The secondary containment plumes are listed on the following page and the maximum volumes to be stored are shown





An anticipated closure schedule can be seen in Exhibit H-1. Revised 4/25/90 anticipated maximum waste inventory for the facility is presented in the following section.

I.F.1.b FACILITY DATA

- 1. Waste Management Facility Descriptions
 - a. Aboveground Storage Tanks

A 15,000-gallon steel tank, 10'6" diameter x 23'3" high, for used mineral spirits storage.

Drum Storage Areas

In the service center: A 40'x 30' area with 6" wide by 4" high continuous curbing and collector sumps. It has a capacity for 387 16-gallon drums (6,192 gallons), or the equivalent, of mineral spirits dumpster mud drums, dry cleaner wastes and/or spent immersion cleaner.

In the accumulation center: An 80' x 100' area with 6" wide by 4" high concrete curbing, sloped floors, collection trenches, and sumps. It has a capacity for 2,682 16-gallon drums (42,912 gallons) or the equivalent. Various halogenated and nonhalogenated solvents will be stored in this area.

Solvent Return/Fill Shelter: A 50' x 80' structure between the the service and accumulation centers. It contains three dumpsters which facilitate the flow of solvent to the tank. These dumpsters are not intended for storage but can hold a maximum of 1,125 gallons.





UN. ORM COMPLAINT FORM

,ase return to: DPR Consumer Complaints
Northwood Centre, 1940 North Monroe Street
Tallahassee, FL 32399-0782

| | Type or print | Contact (other than yourself | F\ |
|---------------------------------------|--|--|---------------|
| | Bill Crawford | Name Lynne R. Milanian | <i>J</i> |
| ddressFL 1 | Dept. of Environmental | Reg. Address FE Dept. of Environmental R | eg. |
| 4520 | O Oak Fiar Boulevard | 4520 Cak Fair Boulevard | |
| Tamp | ca, Florida 33610-7347 | Tampa, Florida 33610-7347 | |
| elephone (813) Our Occupation | 623-5561 (388) N/A Business Facineer | Telephone (813) 623-5561 (200) | |
| ime Harold J | | CT OF COMPLAINT | |
| | Farchmin representati | ng Safety-Kleen Corp. | |
| 01885 345 Nor | th 95th Street | Telephone (414) 259-1500 | |
| | | Occupation Professional Engineer | |
| y <u>Milwauke</u> | e | State Wisconsin | |
| 53226 | | License # (if known) 37817 | |
| v e you contac see Attachme | cted subject concerning | complaint? [X] Yes [] No Date 6-20-90 | |
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i/REG 001 (1/90)

I.E.3.a PROCEDURE TO MITIGATE EQUIPMENT FAILURE AND POWER OUTAGES

Equipment failure will be mitigated using the procedure described in the contingency plan, should a release occur. Otherwise, use of failed equipment will be immediately discontinued and the equipment replaced.

In case of a power failure, all activities requiring the use of electricity must cease.

I.E.3.b UNLOADING OPERATIONS - DRUM STORAGE AREA

The immersion cleaner, dumpster sediment, dry cleaner wastes and paint wastes are always held in covered containers. Unless a drum is leaking, the drummed solvent is never transferred to another container. The drums containing the used solvents are returned to the service center and stored in a designated area before shipment to a reclaimer.

The unloading/loading area and drum storage area are shown on Exhibit I.B.3-7. They occupy portions of the building which have sloped concrete floors, and interceptor trenches which form a spill containment system. The system is free of cracks and gaps. Spills are removed by a hand-held, portable electric pump (the COMS pump), wet-dry vacuum cleaner, or sorbent materials. The capacity of the containment system is designed to be greater than 10% of the total liquid storage capacity.

All drums are transported, moved, and stored in upright positions. The route trucks are equipped with an electric hoist to assist loading/unloading. In the warehouse area, the drums are moved with 2-wheel hand trucks or a pallet jack, and stacked. All drums are elevated on pallets to eliminate the possiblity of drums standing in spilled solvent.

The drums are designed and constructed to be compatible with the stored material and to minimize the possibility of breakage and leaking, in accordance with the specifications shown in Exhibits I.E.3-1 to I.E.3-5.

The drum storage facility has been designed to handle 6,912 gallons waste. Spill containment in the drum storage area has a secondary containment capacity of 2,775 gallons. This is significantly greater than 10% of total liquid storage in the area.

UNLOADING OPERATIONS - STORAGE TANK

The facility consists of two 12,000-gallon capacity aboveground steel tanks. Drummed mineral spirits are transferred via the wet dumpster into one of these two storage tanks. The other 12,000-gallon tank is used to store mineral spirits product.

The tanks are designed and constructed to be compatible with the materials stored in them. Typical construction and installation standards for the aboveground tanks are shown in Exhibits I.E.3-5 and I.E.3-6, respectively. All tanks are vented in accordance with N.F.P.A. Standards and the tanks are equipped with high level

alarms. The design and installation of the tank alarm system are shown in Exhibits I.E.3-8 and I.E.3-9.

The aboveground tanks are protected by a 3' high concrete retaining dike. Therefore, no run-on or runoff will occur and no runoff collection management system is deemed necessary. Equipment used in the operation of the aboveground tanks for used mineral spirits will be liquid level gauges and automatic high level alarms. A suction pump on the tanker truck is used to withdraw the content from the tank. No other equipment or standby equipment are used in the operation of the aboveground tanks.

I.E.3.c PERSONAL PROTECTIVE EQUIPMENT

All personnel must wear the following when handling hazardous materials:

- a. steel-toed boots
- b. safety glasses
- c. protective gloves
- d. protective aprons

In addition, the following equipment must be readily available:

- a. fire extinguisher
- b. eyewash
- c. first aid kit
- d. sorbent material
- e. shovel
- f. hand-held pump

IE3-3

I.E.3.d-e PROTECTION OF WATER SUPPLIES

All waste handling and storage units are aboveground and have secondary containment. In addition, the drum storage area and loading area are enclosed to prevent rain water from coming in contact with them. Therefore, surface and ground waters will be protected from run on, run off and other releases.

I.E.3.f IGNITABLE WASTE HANDLING METHODS

The following is a list of fire prevention and minimization measures:

I. All wastes and products are kept away from ignitable sources—
Personnel must confine smoking and open flames to remote areas, separate from any solvent (e.g., the office or locker room).

The mineral spirits return and fill station and storage tanks are separate from the warehouse building area to minimize the potential for a fire to spread or injury to personnel to occur.

II. Ignitable wastes are handled so that they do not:

A. become subject to extreme heat or pressure, fire or explosion, or a violent reaction—The mineral spirits waste is stored in a tank or in drums, none of which are near sources of extreme heat, fire, potential explosion sources or subject to violent reactions. The tanks are vented and the drums kept at room temperature to minimize the potential for pressure build—up.

- B. produce uncontrolled toxic mists, fumes, dusts or gases in quantities sufficient to threaten human health—The vapor pressure of mineral spirits is low (2 mm) and it is reactive with strong oxidizers only. Toxic mists, fumes, dusts or gases will not form in quantities sufficient to threaten human health since strong oxidizers are not handled at this facility and the solvent vaporization will be minimal under normal working conditions.
- C. produce uncontrolled fires or gases in quantities

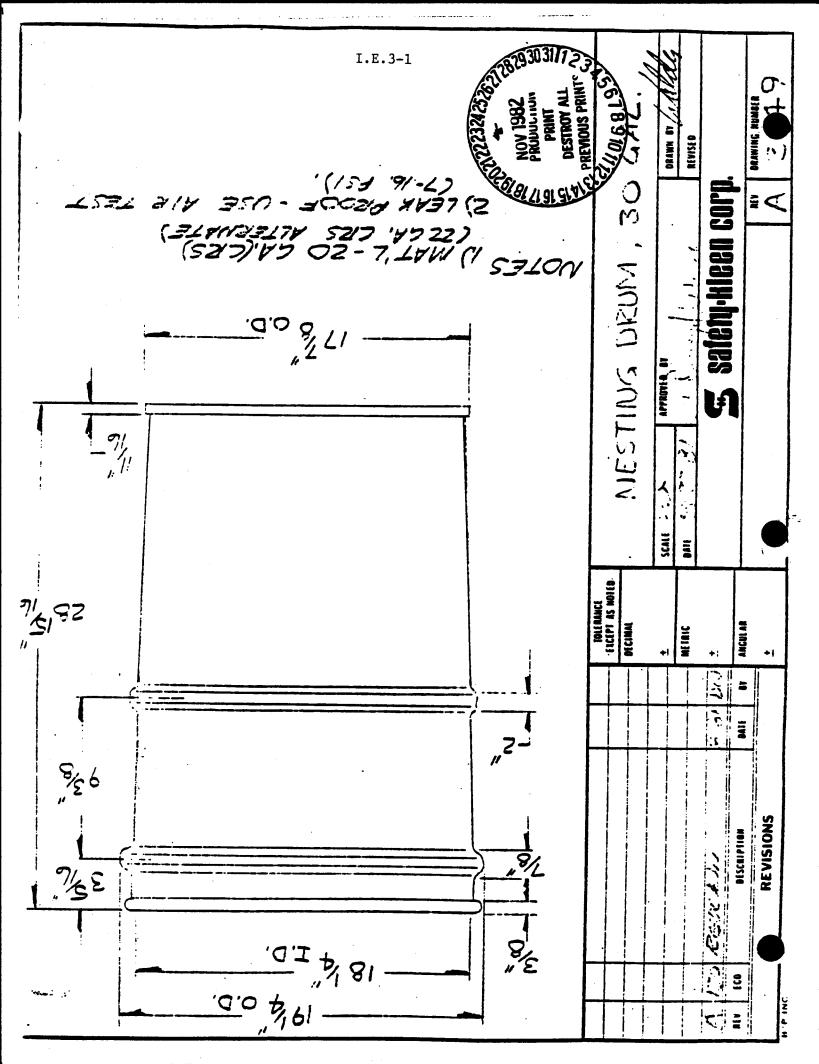
 sufficient to pose a risk of fire or explosion--See 'a'

 above and 'c' below.
- D. damage the structural integrity of the Safety-Kleen

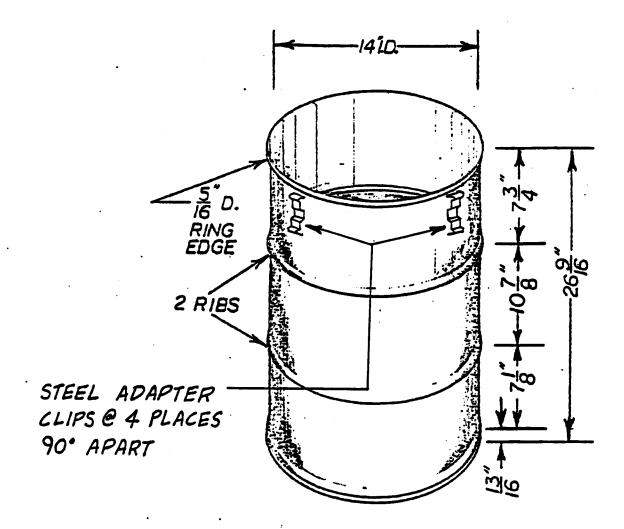
 facility--The mineral spirits and paint wastes will not

 cause deterioration of the tank, drums or other structural

 components of the facility.
- III. Adequate aisle space is maintained to allow the unobstructed movement of personnel, fire protection equipment, and decontamination equipment to any area of the facility operation in an emergency.
- IV. "No Smoking" signs are posted in areas where solvents are handled or stored.
- V. <u>Fire extinguishers must be checked</u> once per week and tested by the fire extinguisher company once per year.



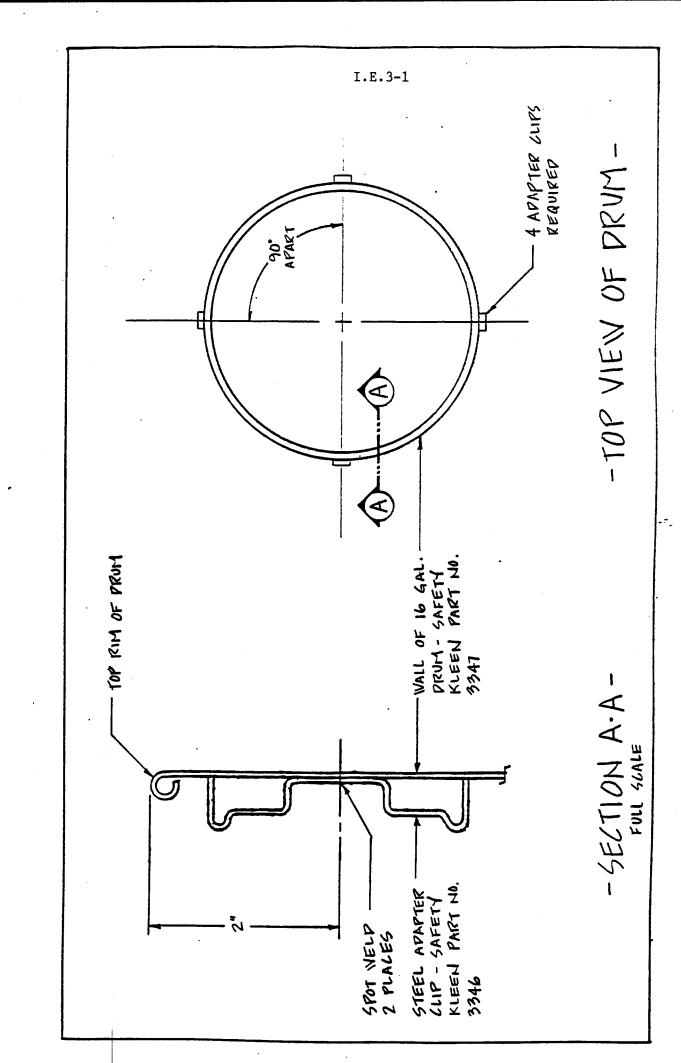
CONSTRUCTION SPECIFICATIONS 16 GALLON STEEL BARREL PART NO. 3317

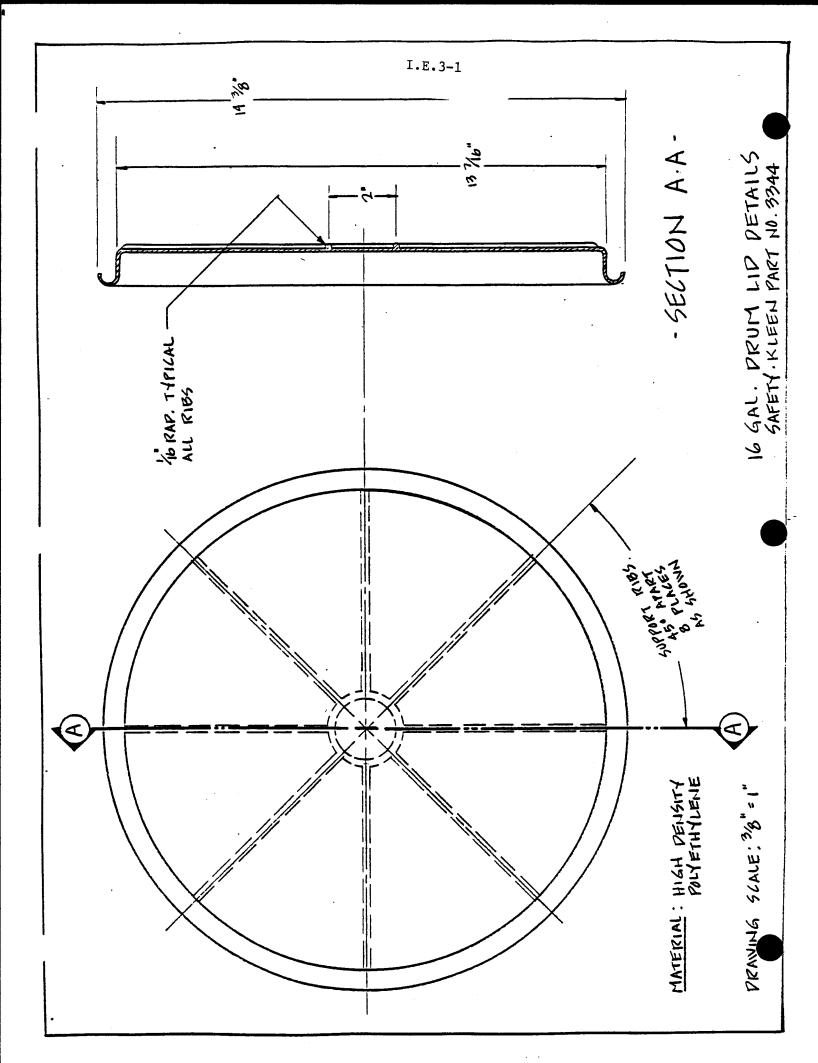


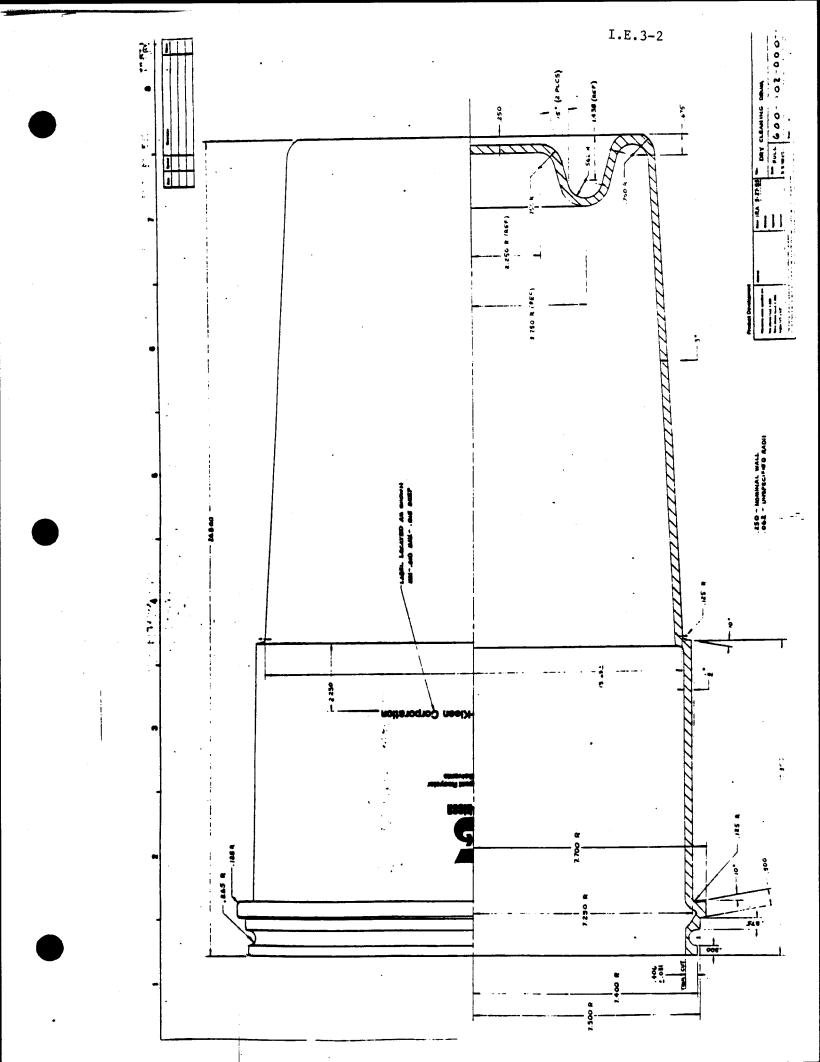
ADDITIONAL SPECIFICATIONS

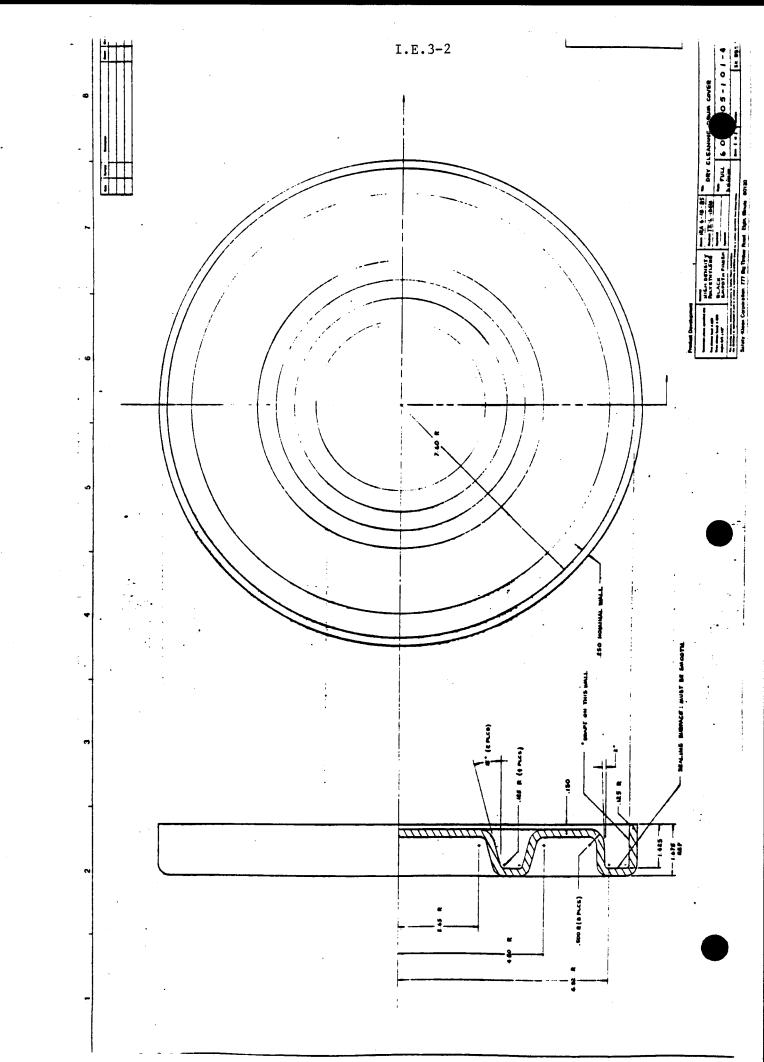
- 1. No Bungs or Bungholes
- 2. Rust Preventive Coating Interior
- 3. Without Top Cover or Locking Ring
- 4. Open Head Top
- 5. Leak Proof Airtest (7 Lb. pressure)
- 6. 20 Gauge Steel

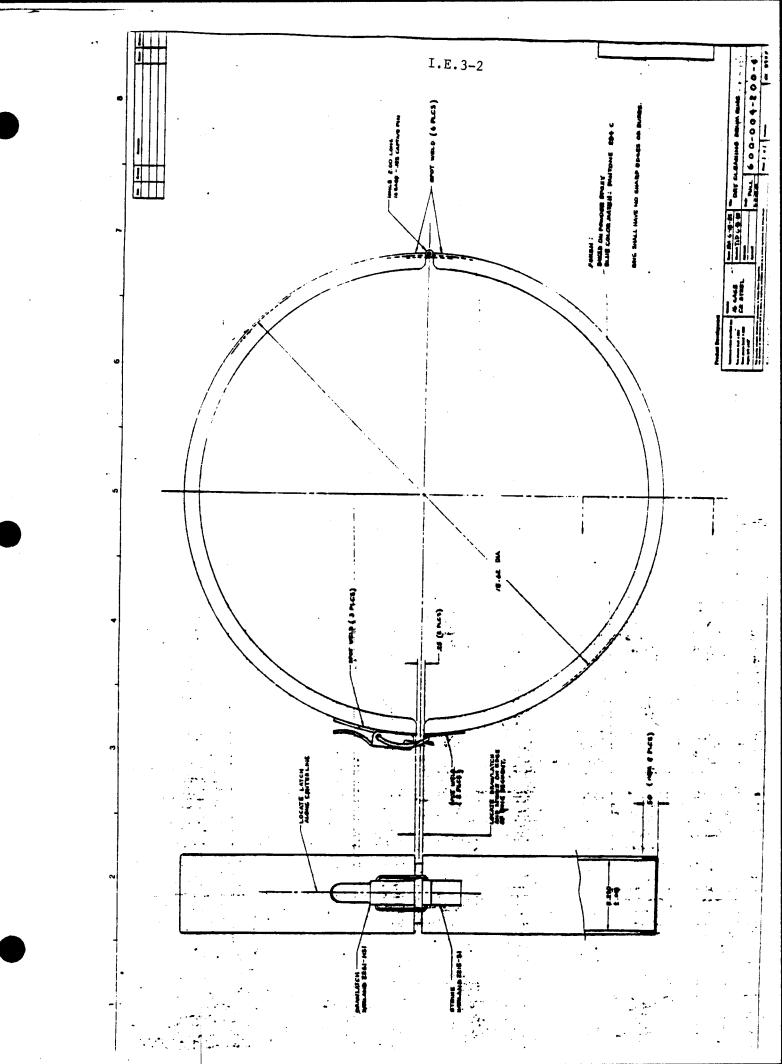
· CLAMP RING FOR 16 GALLON DRUIT DETAILS . SAFETY . KIEEN PART NO. 3319











SAFETY KLEEN CURP.

ENGINEERING CHANGE ORDER

E.C.O. NO:____402

DATE: __4/18/86

PAGE: _1 OF_

| REQUEST | D BY: | | | DISTRIBUTION CH | ART | | | |
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| John Luck | LS | John Paul Kusz | John Paul Kusz | DESTINATION | ECO | B.O.M. | DWG | TC 1 |
| 251501 | 500 0 | | | PRODUCTION | X | ΙX | ΙX | T X |
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| New produ | ct to | replace steel drum | | Q.C. | X | | | 1 x |
| | | | • | PRODUCT DEV. | X | X | Y · | Ìχ |
| | | • | | PURCHASING | X | | X | X |
| | | | | MARKETING | X | | , | X |
| | | | | PRODUCT, SUPPORT | X | | | X |
| DESCRIPT | ION: | | | | | | <u></u> | |
| 3302 | R | 603-001-100-11 Box, St | d DC Filt | sheet 1 of 3 | | | | |
| | | | g Layout | sheet 2 of 3 | | | | |
| | | | y Instructions | sheet 3 of 3 | | | | |
| | | | | | | | | |
| 3303 | R | 603-002-100-1 Bag, St | d DC Filr Bx | | | | | |
| | | | | | | | | |
| 3307 | R | 603-003-100-1 Tray, S | td DC Filt Bx | | | • | | |
| | | | | | | | | |
| 3305 | R | 603-004-100-1 Tape, S | td DC Filt Bx | | | | | |
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| 3310 | R | 603-005-100-1 Disp. F | ilt Bx Tape | | | | | |
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| | | | | |

BOX -- STANDARD DRY-CLEANING FILTER

Configuration: Die-cut, turkey-fold lock container requiring no taping.

Material: 275-pound-test, double-wall craft glued cartons with Michelman coating for water resistancy.

Size: Inside dimensions to be 16 9/16" x 16 9/16" x 15" deep.

Other Required Features: Container to have instructions for proper assembly on two upper flaps as indicated in Safety-Kleen drawing # 603-001-100-32 (sheet 2) and # 603-001-100-33 (sheet 3).

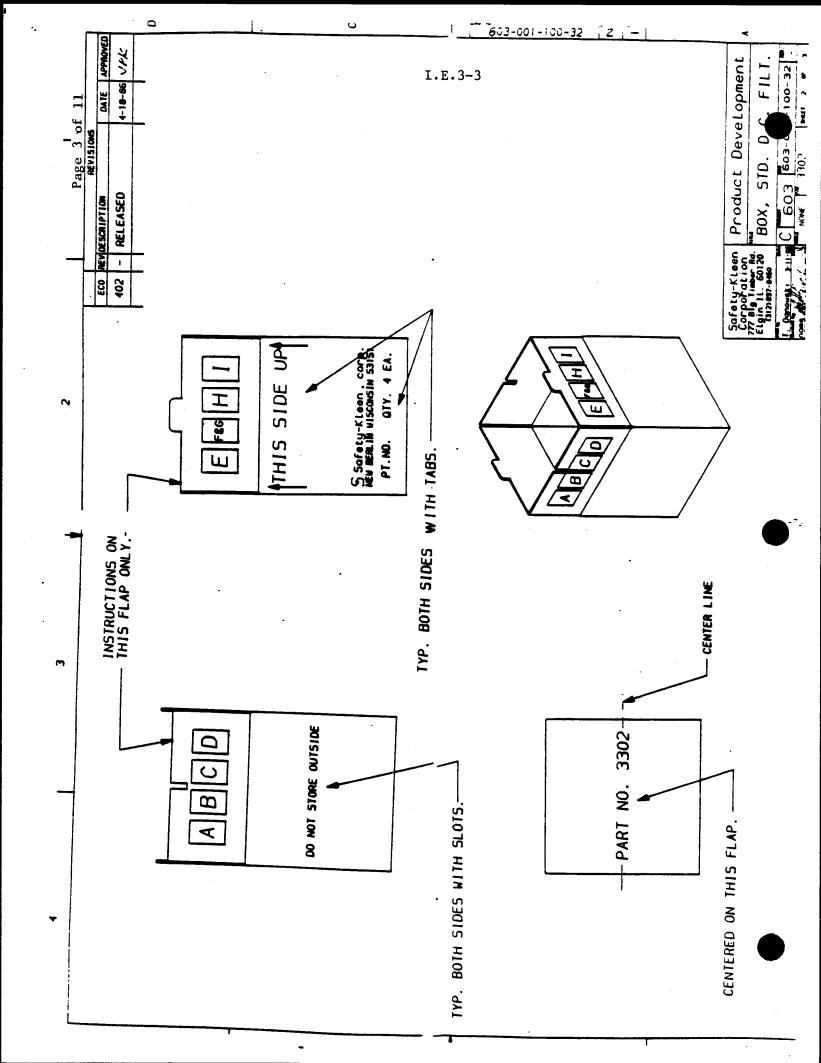
Qualified Vendor(s): Mack Chicago Container Corp., Chicago, Illinois.

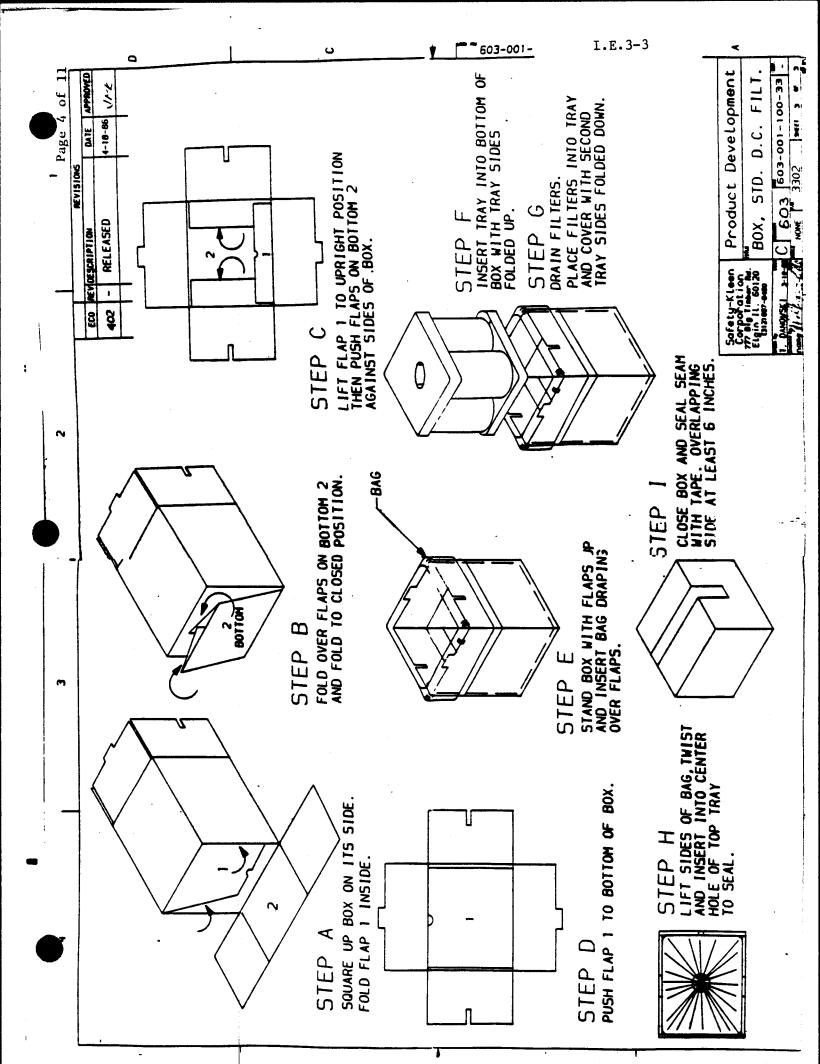
I.E.3-3

Product Development

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| Three places (AAA) 2.005 | | Approved: JPK | Hoboley | . Scale: | | | • | |
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60120 Safety-Kleen Corporation, 777 Big Timber Road, Elgin, Illinois





| 4/18/85 Released ECO 402 | Dete | Symbol | Description | Drawn | Checked |
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BAG -- STANDARD DRY CLEANING FILTER BOX

Bottom of bag is to be triple-seamed Configuration: Bags to be made of extruded material with seamless sides. Material: Tri-extruded polyethylene-nylon-polyethylene. 1 3/4 mill polyethylene and 1 mill nylon and 1 3/4 mill polyethy lene.

Outside dimensions of the bag shall be 35" wide x 45" long. Size:

Other Required Features: Seaming in the bottom of the bag should be in an area covering the last 14" of the bag. There shall be three bar seals in this space covering the entire width of the bag. I.E.3-3

Qualified Vendor(s): Vonco Products, Lake Villa, Illinois.

Product Development

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Checked DAI. Page 6 of 11 Drawn JPK ECO 402 Description Released /81/5

TRAY -- STANDARD DRY CLEANING FILTER BOX

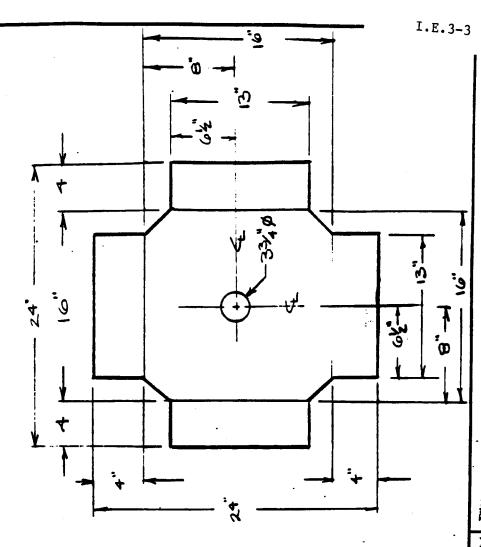
when folded into position, with a 3/34" diameter hole Configuration: A flat scored tray with broken corners in the center of the tray.

Material: 275-pound-test, C-fluted corrugated.

Size: 16" x 16" x 4" deep.

Other Required Features: Corners of the tray shall be broken so as not to tear the poly-nylon-poly bag into which the tray is inserted.

Qualified Vendor(s): Mack Chicago Container Corp., Chicago, Illinois.



Product Development

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Page 7 of 11

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TAPE -- STANDARD DRY CLEANER FILTER BOX

Materials: Filament tape

2" wide x 110 yards long/roll, 2.1 mil. thick. Size:

Qualified Vendor(s): Elgin Paper Co., Elgin, Illinois. (Vendor's product # 701)

Product Development

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Safety-Kleen Corporation, 777 Big Timber Road, Elgin, Illinois

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P/N 3305

Revision:

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4/18/

DISPENSER -- FOR TAPE FOR STANDARD DRY CLEANER BOX

Configuration: 2" tape dispenser

Qualified Vendor(s): Elgin Paper Co., Elgin, Illinois. (Vendor's product # H180)

I.E.3-3

Product Development

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Safety-Kleen Corporation, 777 Big Timber Road, Elgin, Illinois 60120

7-2 1 ...

GAYNES

TESTING LABORATORIES, INC.

Page 9 of 11

1642-52 West Fulton Street • Chicago, Illinois 60612 • Area Code 312/421-5257 Member: American Council of Independent Laboratories

March 7, 1986

Safety-Kleen Corporation 777 Big Tiber Road Elgin, Illinois 60120

Attention: Mr. J.P. Kusz

RE: Transporation Tests on Shipping Container

Our Job No. 86211

Dear Mr. Kusz:

This is to verify the results of Drop and Vibration Tests conducted on Shipping Containers used for Metal Filters.

MATERIAL SUBMITTED:

Six (6) corrugated fibreboard shipping containers, with inside top and bottom trays, and "Plastic" bags.

CONTAINER INFORMATION -

All six (6) identical containers were marked from 1 thru 6.

Size (approximately) - 17 $1/2 \times 17 \times 15 3/4$ inches

Style - Special Designed type of container, with a

interlocking & reinforcing type of bottom

flaps, and locking top flaps.

Manufacturer's Joint - Glued

Closures - Top Flaps Taped

Inner Packing - Corrugated Fibreboard Material top and bottom

trays, and a "Plastic" bag.

Contents - Four (4) Metal Filters

SAFETY-KLEEN CORPORATION Job No. 86211 Page 10 of 11

GAYNES TESTING LABORATORIES, INC.

Container Set-Up:

- 1. Four (4) Filters drained for 1 hour
- One (1) assemble container
- 3. One (1) Plastic Bag placed in the container
- 4. A bottom tray was placed in the plastic bag
- 5. The four (4) filters were placed in the bag and in the tray
- 6. The top tray was placed over the four (4) filters
- 7. The plastic bag was closed and the twisted end was stuffed in a center hole of the top tray
- 8. The top flaps of the container were closed and taped with 2" plastic tape.

Test Procedure & Results:

Drop Test -

Using a Gaynes Free Fall Drop Tester, each container was subjected to three (3) drops from a height of 12 inches as follows:

1st. Drop flat on the Bottom, 2nd. Drop on a Bottom edge and 3rd. Drop on a Bottom corner.

Results - All containers ok; no immediate indication of leakage.

All six (6) containers were stored for 48 hours to determine if leaking would develop during that period.

Inspection after 48 hours indicated that containers no. 4 and no. 5 were leaking. This leakage in each package was caused by a small tear in the plastic bag. (See Photo no. 1).

Rotary Motion Vibration -

The four (4) remaining containers were placed in their normal upright shipping positions on the table of a Gaynes Rotary Motion Vibration Tester having a table displacement of 1.0 inch (See Photo no. 2). With the containers side by side and one end against the back stop, the machine was activated and the speed was increased until it was possible to move a 1/16 inch steel shim about 4 inches between the bottom of the container and the table surface. This occurred at a frequency of 220 rpm. After 15 minutes, the machine was stopped and the packages were inspected, and then were rotated 90° for a 2nd. 15 minutes of vibration at 220 rpm.

Results - All containers ok; no indication of leaking.

SAFETY-KLEEN CORPORATION JOB NO. 86211 Page 11 of 11

GAYNES TESTING LABORATORIES, INC.

Vertical Linear Vibration-High Displacement

The four (4) containers were placed in their normal up-right shipping positions on the table of a Gaynes Vertical Linear Vibration Machine having a table displacement of 1.0 inch (See Photo No. 3). The machine was activated and the speed was increased until it was possible to move a 1/16 inch thick steel shim 4 inches between the bottom of the container and the table surface. This occurred at 278 rpm. The containers were vibrated for 30 minutes.

Results - All containers ok; no indication of leaking.

<u>Vertical Linear Vibration - Low Displacement</u>

The containers were moved to a L.A.B. Vibration machine and were positioned in their normal upright positions on the table. The table displacement was set for 0.1 inch. (See Photo no. 4). The machine was activated and the speed was increased until a resonant frequency was reached. This occurred at 840 rpm (14 Hz.) The containers were vibrated for 30 minutes at this speed.

Results - All containers ok; no indication of leaking

Drop Test -

The containers were moved to the Drop Tester and subjected to six (6) additional drops from a height of 12 inches in the following order: (See Photos no. 5,6, & 7).

1st. Drop on a Top Corner, 2nd. Drop on a edge radiating from the dropped corner, 3rd. on a 2nd. edge radiating from the dropped corner, 4th. drop on a end, 5th. on a side, and 6th. on the top.

Results - All containers ok; no indication of leaking

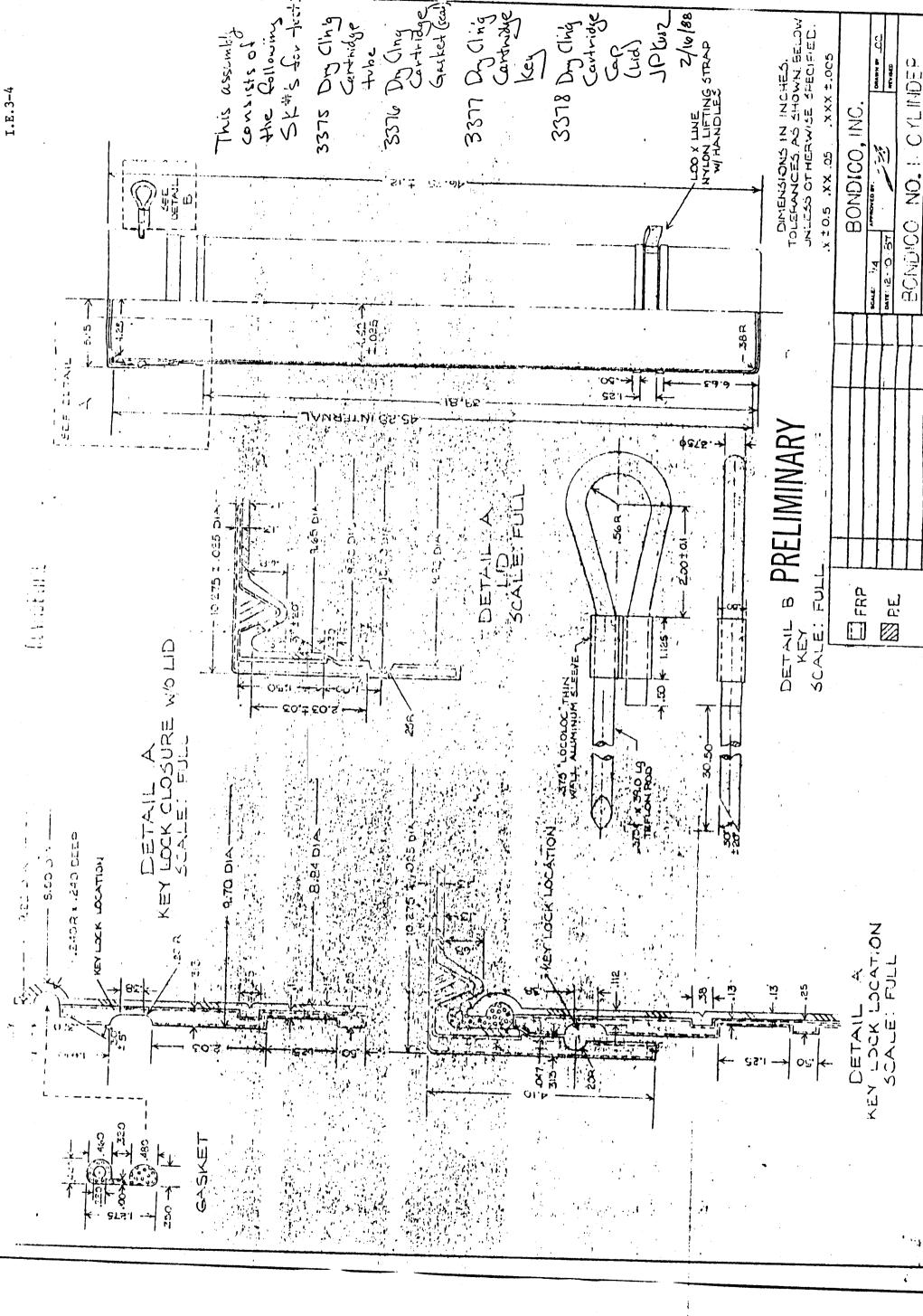
It should be noted that video tape recordings were made of the entire test and the tapes were submitted to Safety-Kleen, Inc.

Should you have any questions regarding the testing conducted, please contact us.

Very truly yours,

GAYNES TESTING LABORATORIES, II

F.T. Wittenrood



I.E.3-4

February 17,1988

Mr. John Kusz Safety-Kleen Corp. 777 Big Timber Road Elgin, IL 60120

Dear John,

As requested, enclosed is a summary of the testing performed on the dry cleaning cartridge tube. A copy of the March 1987 letter from the DOT is included as well.

Please let me know if any additional information is needed.

Sincerely Yours,

BONDICO, INC.

JU H

J. Tad Heyman National Sales Manager

DRY CLEANING CARTRIDGE CONTAINER Test Result Summary

| <u>RESULTS</u> | No damage. No leakage. <u>Passed</u> . | No damage. No leakage. Passed. | No damage. No measurable deflection of lid/container assembly. No leakage upon impact. Three units experienced slight loss of liquid after initial impact. | No damage. No measurable deflection of lid/container assembly. No leakage. | No measurable deflection of top to bottom dimension. Passed. | No damage. No leakage. <u>Passed</u> . | No damage. No leakage. <u>Passed</u> . |
|----------------|---|-----------------------------------|--|--|--|---|--|
| TOTAL # TESTS | 12 | 12 | 12 | 10 | ; m | 6 | 26 |
| | 1986 | 1986 | 1986 | 1987 | 1986 | 1986 | Sept. 1986 |
| DATE | Sept. 1986 | Sept. | Sept. 1986 | Sept. 1987 | Sept. | Sept. | |
| DESCRIPTION | Fully loaded (95 lb. gross wt.)container; free fall drop onto 6" concrete slab. | Same as above. | Same as above. Original poly- ethylene gasket used. | Same as above. S-K gasket used. | Compression load of 1000 lbs. is applied vertically to empty container for 24 hrs. | 16 lb. steel bar is dropped from 3.3' to impact weakest point of container. | Fully loaded unit is permitted to fall onto its side from vertical position onto concrete Polyethylene gasket. |
| TEST | 4' Flat Bottom Drop | 4' Bottom Edge Drop | 4' Closure Edge Drop | | Static Compression | Penetration | ' Impact |
| DOT SPEC. | Spec. 35 | Spec. 35 | Spec. 35 | | Spec. 35 | Spec. 7A | "Tip Over" Impact |
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U.S. Department of Transportation

Research and Special Programs Administration 400 Seventh Street, S.W. Washington, D.C. 20590

MAR | 6 1987

Mr. Mark D. Shaw Vice President Bondico, Inc. 2410 Silver Street Jacksonville, Florida 32206

Dear Mr. Shaw:

This is in response to your letter dated February 6, 1987, regarding the acceptability of your "strong, tight" container.

Based on the information you have provided, your container appears adequate to satisfy the requirements of 49 CFR 173.24 and may be used as a packaging for Perchloroethylene (Tetrachloroethylene), UN 1897. We apologize for the delay of our reply.

Sincerely,

·Thomas J. Charlton

Chief, Standards Division Office of Hazardous Materials

Transportation

PAINT WASTE CONTAINER

SPECIFICATIONS

The empty 5 gallon pail is ordered under Safety-Kleen part number 9986, per the following specification:

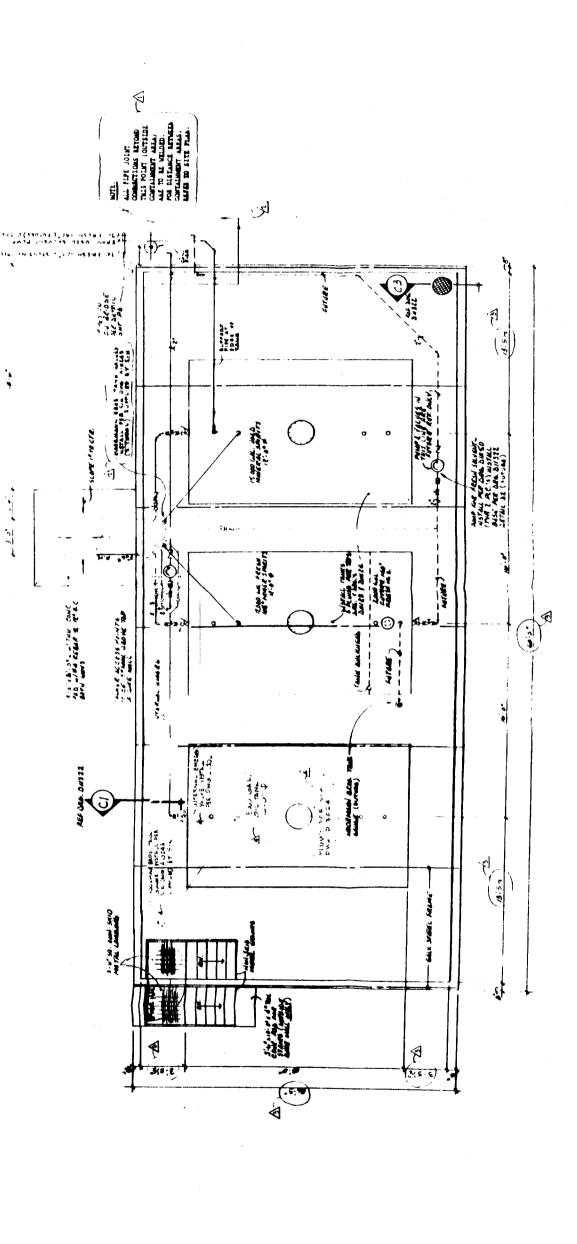
5 gallon, 24 gage steel tighthead pail, black exterior, rust inhibited interior, DOT17E, with handle and 2" flange and plug.

11" outer diameter x 13-19/32" high

The current empty 16 gallon drum is ordered under Safety-Kleen part number 3362, per the following specification:

16 gallon, 19 gage steel closed head drum, with 2" bung and 3/4" bung, per DOT17E

14-7/8" outer diameter x 26-7/8" high



TALLENGERS SELVE

DIKE VOLUME 25'2' x 56'6' x 3:0"

ARTHELY 1 56'6' x 3:0"

ARTHEL 33, 30 GALE.

AREA OF THE SEGWENT (A) X LENGTH OF TANK (G-C*)

R G-C*

R G-C*

A 1037 (G-C*) x 2'G*

A 1037 (C-C*) x 3'G*

C-C*

A 1037 (C-C*) x 3'G*

A 1037 (C-C*) x 3'G*

R G-C*

A 1037 (C-C*) x 3'G*

A 1037 (C-C*) x 3'

DIKE VOLUME TALCULATION

NOTE CONTRACTOR CONTRA

31

PIKE DUTAINMENT VOLUME STIBO GALS.
DISPACIANTY VOLUME 189 180 GALS.
VOLUME LANGET TANK - 15,000
TOTAL EKGESS 13,944 GALS.

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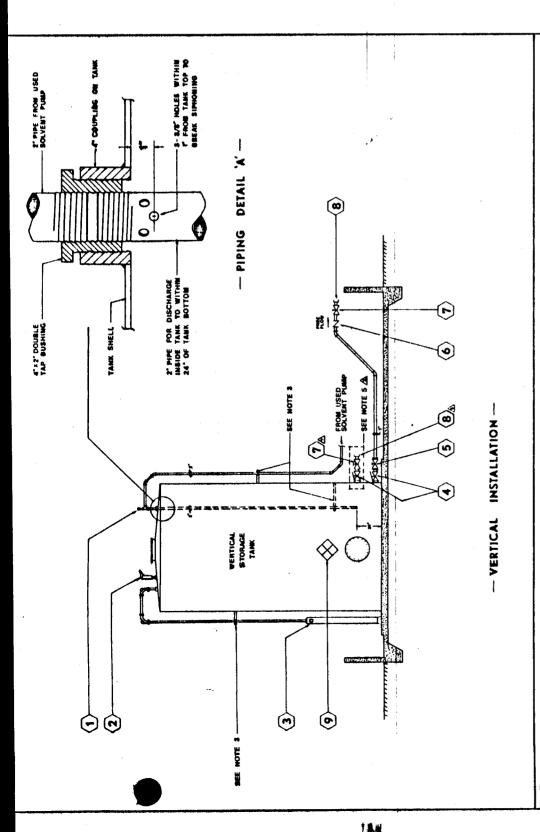
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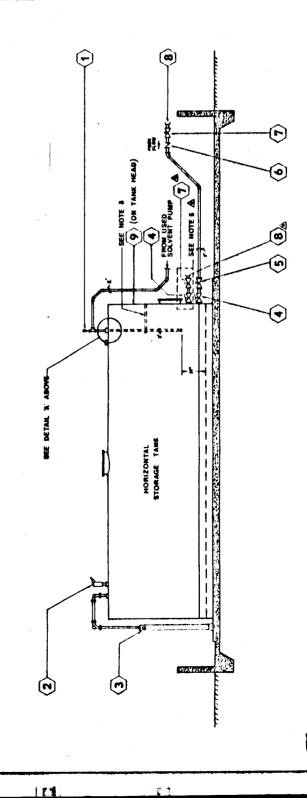
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BOTTON BEING LENTER BRANCH : 514095





- HORIZONTAL INSTALLATION -

| | | | — EQUIPMENT / FIXTURE | SCHEDULE | ULE — |
|----------------------------|--------------|-----|---|---------------|---|
| _ =_ | W S | 32% | DESCRIPTION | SK PAART NO. | REMANKS |
| - | \odot | 3/8 | 3/8" AUTOMATIC VACUUM BREAKERS MORRISON BROS. FIG. 134-Å | ħ <i>LZ</i> S | 1 |
| <u>~</u> | ② | 7 | 2" SCRENED PRESSURE/YACUMN VENT MORRISON BROS, FIG. 548 (2 02. PRESSURE - 1 02. VACUUM) | \$223 | |
| <u> </u> | ⊙ | | TANK GAUGE - MOGRMAN BROS. MODEL NO. 7-5 | 5277 | SEE INSTALLATION DETAILS ON SAFETY- KLEEN DMG. ALO243 |
| \sim | 0 | | | | |
| <u> </u> | • | 3. | 3" INTERNAL EMERGENCY VALVE NORRISON BROS. FIG. 272-HO M/212"F FUSIBLE LINK | 2567 | SEE INSTALLATION DETAILS ON SAFETY- ' KLEEN DWG. CI1302 |
| <u> </u> | ⑤ | 3. | 3^* ductile iron gate valve w/round flanged fnds - morrison bros. Fig. $234-0]$ | 5276 | SEE INSTALLATION DETAILS ON SAFETY- KLEEN DMG C11302 |
| \sim | (9) | 3* | 3° BRONZE CHĘCK VALVE - MORRISOM BROS, FIG. 245-A | 99¢5 | 1 |
| \sim | (<u>C</u>) | 3. | 3" BRONZE GATE VALVE - MORRISON RROS. FIG. 235-6 LOCKING TYPE | 3365 | |
| \sim | ® | 3. | 2" ALUMINUM CAMLOCK QUICK COUPLING - MORRISON BROS, MALE ADATER PART F W/DUST CAP & CHAIN | 5264 | COUPLING TO BE INSTALLED SIX '6) INCHES ABOVE & SIX (6) INCHES INSIDE TOP OF DIKE WALL. |
| $\overline{\triangleleft}$ | 0 | _ | NPA INIERIAL IDENTIFICATION PLACARD | 2452 | DISPLAY IN PLAIN SIGHT ABOVE DIKE WALL |
| 1 | | | | | |
| | | | | | |

- GENERAL NOTES -

- THIS DRAWING SUPERCEDES SAFETY-KLEEN CORP. DRAWINGS (10235 & C10236.
- SEE INDIVIDUAL SERVICE CENTER SITE PLANS FOR DIKE DIMENSIONS AND RELATED INFORMATION AND ALSO LOCATION AND ARRANGEMENT OF THESE PIPING DETAILS. \bigcirc
- ALL PIPIME TO BE SCHEDULE 40 GALVANIZED AND BE SUPPORTED EVERY EIGHT (8) RUMRING FEET COMPRACIPS TO SUPPORTING PIPE ALL EXPOSED THREADS AT JOINTS TO BE PAINTED WITH A RUST RESISTANT EXTERIOR GRADE PAINT. PIPING SUPPORT HARDMARE TO BE UNISTRUT SRAND OF APPROVED EQUIVALENT.
 - ALL DIRECTION CHANGES IN DIRTY SOLVENT LINES TO BE MADE USING A COMBINATION OF 45° ELBOMS OR LONG SNEEP 90° ELBOMS.

•

- THIS INSTALLATION TO BE MADE WHERE HEN TANKS ARE TO BE INSTALLED AT AMY LOCATIONS PRONE TO FREEZING.SEE INSTALLATION DETAILS ON SAFETY-KLEEN DWG, CII302
 - ALL ITEMS WITH SAFETY-KLEEN PART NO. REFERENCES WILL BE SUPPLIED TO CONTRACTOR.

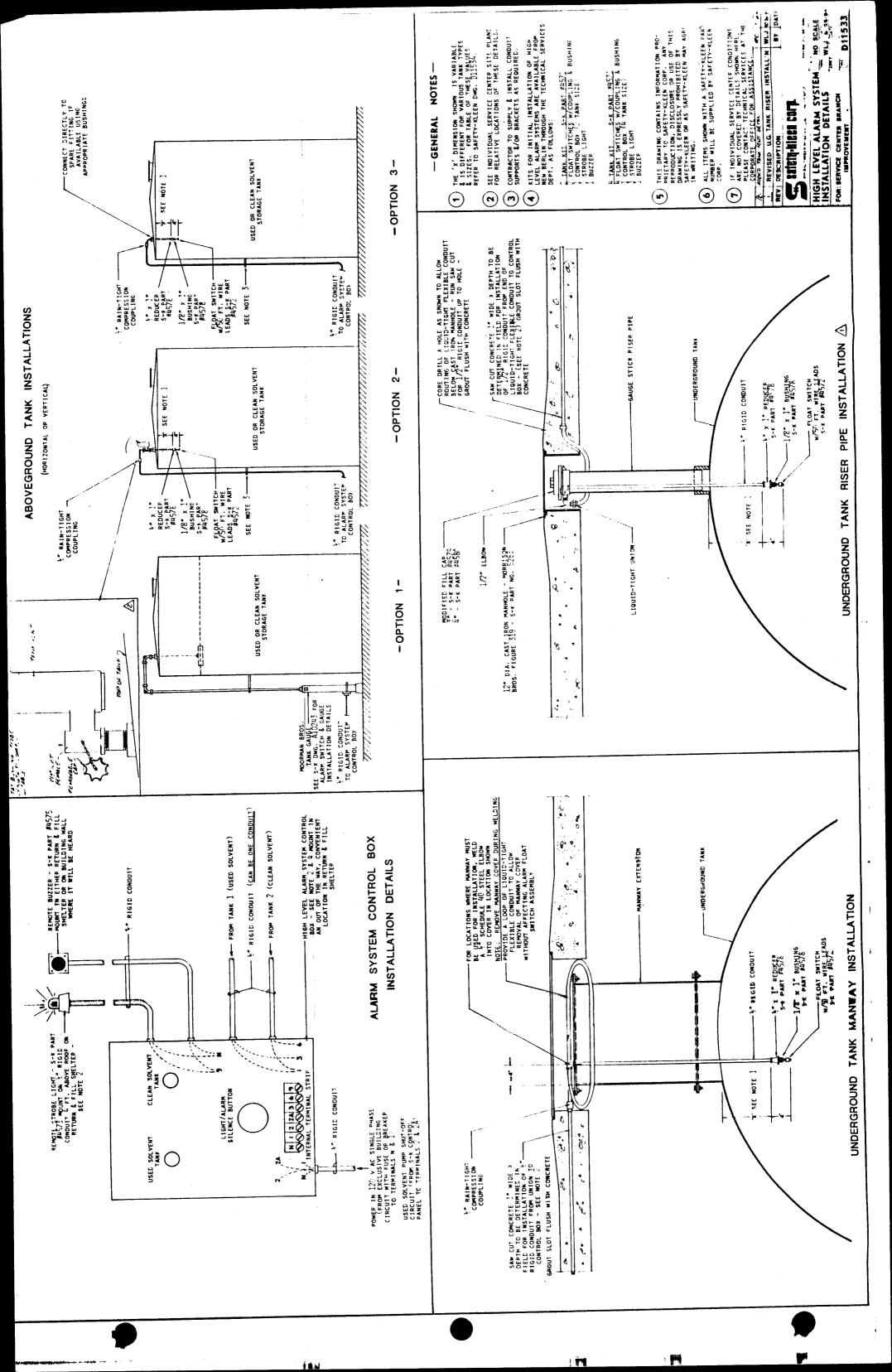
| <u>-</u> | RESPONDED 3" PLUIC - ADDED VALVE/CAMBOCK | W.L. | WLJ S. D.A. |
|----------|--|----------|---------------|
| ব | ADDED ITEM 9 TO SCHEDULE & DRAWING | WLJ | MLJ 11:5 84 |
| 4 | ADDED NOTE 6 | 3 | WLJ 10 3 st |
| ব | REVISED DETAIL IN NOTE 5 SHOWN ON DWG. | WLJ | WLJ FRE BS |
| 4 | ADDED MOTE 5 TO MOTES & TO DRAWING | M | MLJ 12 20:83: |
| ğ | REVISION DESCRIPTION | Ē | DATE |
| U | ESTETE-HIER COLF. EXHIBIT 2-7 | - | - |
| • | The state of the s | | 1 |

USED SOLVENT STORAGE TIME SCALE
TANK INSTALLATION DIL'S WILL BY BE

- D11124

FOR: SERVICE CENTER BRANCE INPROVEMENTS & OR CONSTRUCTION

THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-KLEEN CORP. ANY REPRODUCTION, DISCLOSUME OR USE OF THIS DRAWING IS EXPRESSLY PROHIBITED EXCEPT BY SAFETY-KLEEN OR AS SAFETY-KLEEN MAY AGREE IN WRITING.



| | | | -TABLE | LE OF | | VARIABLE | ķ | DIMENSION | INC | | ! | | |
|--|--------|-------------|-------------|------------|------------|----------------|------------|-----------|---------|----------|---------|---------|--------------|
| | ¥ : | ABOVEGROUND | ROUNE | | HORIZONTAL | | CLEAN 8 | SOLVENT | | TANKS | 8 | | |
| | GND | UNDERGROUND | | HORIZONTAL | NTAL | CLEAN | • | USED | SOLVENT | | TANKS | | |
| | | | | | DIA | DIAMETER (FT. | 1 | | | | | | |
| CAPACITY (GAL.) | ď, | 5, | 9, | | .8 | 9, | 10, | 10,6 | 111 | 12. | 13. | 14. | 15, |
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| 14000 | | | | | | | نو | | | | | | |
| 1500n | | | | | | | ‰ | .3 | 1, | | | | |
| | | ABOY | ABOVEGROUND | | VERTICAL | | CLEAN | SOLVENT | | TANKS | | | |
| 'X' DIMENSION | | | | | DIA | DIAMETER (FT.) | я.) | | | | | | |
| (REGARDLESS OF CAPACITY) | . 7 | 5. | 9, | 7. | .8 | ٥, | 10. | 16.6 | 11, | 15. | 13. | 14, | 15, |
| | | | | | .21 | .48 | •a | 2. | 45. | * | 2. | - | ** |
| ¥ | BOVE | ABOVEGROUND | | VERTICAL | Ö | HORIZ(| HORIZONTAL | USED | SOLVENT | 1 | TANKS |]_ | |
| NOTE: THE 'X' DIMENSION SHOWN ON S-K DRAWING P11533 FOR ALL ABOVEGROUND VERTICAL OR HORIZONTAL | I WENS | MONS NO | -S #5 = | K DRAWI | € P115 | 33 FOR 1 | ALL ABO | FEROUND | VERTIC | AL 098 H | DRIZOMT | AL USED | USED SOLVENT |
| JIM CYMPI | ין אַנ | | | | | | | | | | | | |

- GENERAL NOTES-

- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR REVIEWING DRAWINGS & SCOPE OF WORK TO INSURE COMPLIANCE MITH ALL LOCAL, STATE & MATIONAL CODES ANY ALTERATIONS &/OR ADDITIONS WIST BE RELAYED TO & APPROVED BY TECHNICAL SERVICES AT CORPORATE OFFICE PRIOR TO &/OR DURING INSTALLATION. FAILURE TO COMPLY WITH THE ABOVE WILL RELIEVE SAFETY-KLEEN CORP. OF ANY & ALL RESPONSIBILITIES.

 WORK THIS DRAWING WITH SAFETY-KLEEN DRAWING DIJ533 FOR TYPICAL INSTALLATION DETAILS IF INDIVIDUAL SERVICE CENTER CONDITIONS ARE NOT COVERD. HEREIN OR OR DRAWING DIJ533 PLEASE CONTACT TECHNICAL Θ
 - •
- MORK THIS DRAMING WITH SAFETY-KLEEN DRAMINGS BELOW FOR ELECTRICAL SCHEMATICS OF VARIOUS SYSTEMS AS FOLLOMS:

D11579 - ALARM SYSTEM ELECTRICAL SCHEMATIC FOR TWO TANKS D11559 - ALARM SYSTEM ELECTRICAL SCHEMATIC FOR FOUR TANKS

•

- LIGUID-TIGHT COMPRESSION OR FLEXIBLE COMDUIT COUPLINGS ARE USED AT COMDUIT CONNECTION TO TANK TYPICAL SEE S-K DNG. []][553. THESE ARE REQUIRED FOR SERVICING &/OR REPLACEMENT OF FLOAT SMITCH UNITS AFTER INITIAL INSTALLATION.
- TO REPLACE A FLOAT SWITCH, THE CONTRACTOR SHOULD DISCOMMECT THE COMDUIT COUPLING & CUT THE 2 WIRE LEADS. HAS WILL ALLOW REMOVAL OF ALMANAY-COYER, MODIFIED FILL CAP, COUPLING ADAPTER, ETC. (BEFENDING ON THE THE OF INSTALL NEW SWITCH. THE NEW 50 FT LEADS WILL BE PULLED THROUGH TO THE COUPLING BACK TO THE STATCH & INSTALL NEW SWITCH. THE NEW 50 FT POINT THAT OLD WIRE LEADS FROW THE COUPLING BACK TO THE CONTROL BOX SHOULD BE TIED TO THE ENDS OF THE NEW WIRE LEADS THE OLD WIRES WILL SERVE AS PULL WIRES FOR PULLING THE NEW LEADS THROUGH THE CONDUIT TO THE BOX WHERE THEY WILL BE ATTACHED TO THE APPROPRIATE TERMINALS.
 - TESTING OF THE FLOAT SWITCH & SYSTEM IS MANDATORY FOLLOWING INSTALLATION.ACTIVATING THE FLOAT SWITCH DEVICE MAY BE ACCOMPLISHED AS FOLLOWS: UNDERGROUND TANKS A) PRIOR TO INSTALLING MANNAY COVER ON MANNAY INSTALLATIONS.

 B) BY DRIVING A MAIL OF APPROPRIATE LENGTH CROSSHISE THROUGH THE END OF THE GAUGE
 STICK OR SIMILAR PROBE AND REACHING DOWN UNDER FLOAT SMITCH ON RISER PIPE
 INSTALLATIONS.

(v)

- ABOVEGROUMD TANKS A) REACH IN THROUGH MANMAY ON TOP OF TANKS. OTHER METHODS MAY BE USED AT THE DISCRETION OF THE ELECTRICAL CONTRACTOR.
- THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SAFETY-MLEEN CORP. ANY REPRODUCTION, DISCLOSURE OR USE OF THIS DRAWING IS EXPRESSLY PROWIBITED BY SAFETY-MLEEN OR AS SAFETY-MLEEN MAY AGREE IN WRITING,

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I.E.4 INSPECTION OF WASTE MANAGEMENT FACILITIES

The purpose of the inspection plan is to establish a procedure and schedule for the systematic monitoring and inspection of hazardous waste management areas and other material management facilities to insure proper operation and maintain compliance. The branch manager or his designate is responsible for carrying out the inspections of all hazardous waste management facilities in accordance with the following procedure and schedule.

Daily inspections of containers consist of the following:

- a. Physically examine the container (drum) storage area to verify that there have been no leaks which have occurred since the last inspection.
- b. Verify that there are no drums that have been damaged or rusted to the point of near leakage.
- c. Replace or adjust damaged, missing or loose fasteners.
- d. Examine and verify that all container identification, dates, loading data, hazardous waste labels are attached and current.
- e. Inspect containment areas to detect signs of deterioration and failure of the containment system such as cracks, breakage, settlement, spillage.

IE4-1

f. Check container placement and stacking such as aisle space, height and stability of stacks.

Daily inspections of aboveground tanks consist of the following:

- a. Check the automatic high level alarm. In addition, measure the liquid level of the solvent in the aboveground tanks in inches to double checking the proper functioning of the automatic alarm system and to determine any unexpected deviation in data or a sudden drop in the liquid level.
- b. Inspect solvent dispensing hoses, connections and valves for any leaks, damage or wear that could cause a leak to develop.
- c. The hose and unloading pipe should be drained so that all of the solvent is returned to storage.
- d. Valves should be inspected for proper seat. Stem leaks from worn glands and warped valve bodies should be repaired. If the valve cannot be repaired, replace the unit.
- e. Pumps should be inspected for packing leaks and cool, quiet operation.
- f. The inspection of solvent return receptacle (wet dumpster) consists of the inspection for leaks and excess dumpster mud build-up.

The tanks will be periodically inspected and tested. This inspection and testing will involve withdrawal of contents, a squeegie cleaning,

visual inspection, and performance of a leak detection test.

Frequency and method of future inspection and testing will be determined based upon results of prior evaluations.

INSPECTION OF EMERGENCY AND SPILL CONTROL EQUIPMENT

A weekly inspection of fire extinguishers must be performed to insure that the tag date has not expired and the units are properly charged and accessible. The unit must be inspected by a fire extinguisher supplier on a yearly basis.

Weekly inspection of eye wash stand must be performed to assure accessibility and operation. The inventory of first aid kit must be checked on a weekly basis.

There must be a weekly check of the supply of spill control equipment (absorbent material) and the conditions and inventory of other emergency equipment (gloves, aprons, goggles, respirators and other personal protective equipment).

INSPECTION OF TRANSPORTATION EQUIPMENT

The purpose of this inspection plan is to establish a procedure and schedule for the systematic monitoring and inspection of the route trucks to insure proper operation and safety of the equipment.

The branch manager or his designate is responsible for the daily

inspection of each route vehicle to insure the proper operation of brakes, lights, turn signals, emergency flashers and wipers. Trucks dispatched from recycle center should also be noted for their operation.

Daily inspection of safety equipment such as sorbent, eyewash, fire extinguisher, first aid kit, and reflector kits on the route vehicles must be performed.

Any equipment that is inoperative or unavailable shall be immediately repaired or replaced.

VERIFICATION OF THE SITE SECURITY AND INSPECTION RECORDS

The facility security (gates, locks) is inspected weekly for any evidence of sticking, corrosion, or uncommon activity. The fence itself is checked for deterioration, gaps under it and broken wire ties.

The facility inspection plan described in the earlier sub-sections of this chapter are summarized in Exhibit I.E.4-1. This exhibit provides a record for the inspection-related activities. These records verify that the facility inspection is properly carried out and corrective actions, when necessary, are taken.

CORRECTIVE ACTION

Any discrepancies or deficiencies found during the facility

inspection must be corrected expediently to insure that the problem does not lead to an environmental or human health hazard. Where a hazard is imminent or an accident has already occurred, remedial action must be taken immediately. The branch manager of the service center has the overall responsibility for remedying any discrepancies found during the facility inspection.

AVAILABLE EQUIPMENT AND COMMUNICATION

Due to the small size of the facility, routine communication is usually accomplished by voice; however, an intercom is also available. Telephones are used in case of a spill or fire emergency to summon assistance. Emergency telephone numbers are posted by each phone in the office. Included with these phone numbers is the 24hour emergency number which connects to the Corporate Environmental Affairs Department in Elgin, Illinois. See Exhibit I.B.3-7 for locations of telephones, fire extinguishers, the first aid kit, and the emergency eyewash. Other emergency response equipment is kept in a small storage area inside the warehouse near the return and fill dock; the equipment includes mops and bucket, soap, shovels, and spill sorbent pads. Rubber gloves, boots, pumps, and wet/dry vacuum cleaner are stored in an emergency supply area near the drum storage area. Exhibit I.E.4-2 summarizes the type, quantity, storage location, and capabilities of all the emergency equipment available at this service center. The city of Boynton Beach water supply is accessible for domestic use, decontamination, and fire fighting. Adequate aisle space is provided in the drum storage area for ease of movement in an emergency situation.

The equipment available at the service center for emergency situations has shown to be adequate for most cases. Emergency situations may require the assistance of local or special emergency response teams or cleanup contractors. The facility is constructed and operated in accordance with National Fire Protection Association (NFPA) standards and applicable local ordinances. Applicable health and safety standards are also observed at the service center. Air quality surveys conducted by independent industrial hygienists at various service centers have shown that the air quality is within Threshold Limit Values (TLV) as specified by OSHA and no respirator or special protection unit is required.

RESPONSIBILITY FOR PREPAREDNESS AND PREVENTION PLAN

The training of employees for this plan's implementation is the responsibility of the branch manager and the corporate staff. The training program is described in the Personnel Training Plan (Section I.E.5)

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^{*}A = ACCEPTABLE

N = NOT ACCEPTABLE

INSPECTION LOG SHEET FOR: Daily Inspection of STORAGE TANK SYSTEM I.E.4-1 INSPECTOR'S NAME/TITLE: INSPECTOR'S SIGNATURE: THURS MON TUES TRANSFER PUMPS AND HOSES A N A N A N A N A* N Pump Seals If N', circle appropriate problem: leaks, other: A N A N A N A N Motors If 'N', circle appropriate problem: overheating, other: _ A N A N A N A N A N Fittings If 'N', circle appropriate problem: leaks, other: ___ A N A N A N Valves If 'N', circle appropriate problem: leaks, sticking, other: __ A N A N A N A N Hose Connections and Fittings If 'N', circle appropriate problem: cracked, loose, leaks, other: A N A N A N A N A N Hose Body If'N', circle appropriate problem: crushed, cracked, thin spots, leaks, other: RETURN AND FILL STATION A N A N Wet Dumpster If 'N', circle appropriate problem: excess sediment buildup, leaks, rust, split seams, distortion, deterioration, excess debris, other: A N A N A N A N Secondary Containment If 'N', circle appropriate problem: excess sediment/liquid, leaks, deterioration, distortion, excess debris, other: A N A N A N A N A N Loading/Unloading Area If 'N', circle appropriate problem: cracks, ponding/wet spots, deterioration, other: ___ OBSERVATIONS, COMMENTS, DATE AND NATURE OF ANY REPAIRS: _

N = NOT ACCEPTABLE

^{*}A = ACCEPTABLE

| DESCRIPTION OF AREA (e.g., metal shelter, | | | | I.E.4 | |
|--|--------------------|----------------|---------------|---------------------------|-------------|
| PERMITTED STORAGE VOLUME: | | | • | | _ |
| INSPECTOR'S NAME/TITLE: | <u> </u> | | • | | |
| INSPECTOR'S SIGNATURE: | MON | TUES | WED | THURS | FRI |
| DATE: (M/D/Y) | | | _ | | |
| TIME: | | | | | |
| CONTAINERS: | | | | | |
| Number/Volume of M.S. Waste Drums: | | | | | |
| Number/Volume of I.C. Waste Drums: | ļ | | | | |
| Number/Volume of Dry Cleaning Waste Drums: | | <u> </u> | | | |
| Number/Volume of Dry Cleaning Waste Boxes: | - | | | | |
| Number/Volume of Paint Waste Drums: | | | | | |
| Number/Volume of Paint Waste Pails: | + | | | | |
| TOTAL VOLUME (IN GALLONS): | A**N | A N | A N | A 8 | A |
| If 'N', circle appropriate problem: is permitted, other: | Total volu | ume exceeds th | e amount for | which the fa | cility |
| Condition of Drums/Boxes | A N | A N | A N | A N | A |
| If 'N', circle appropriate problem: labels, rust, leaks, distortion, oth | missing or ner: | loose lids, m | issing, inco | rrect or inco | mplete |
| Stacking/Placement/Aisle Space | A N | A N | A N | $\mathbf{A} = \mathbf{N}$ | A |
| If 'N', circle appropriate problem: pallets, unstable stacks, other: | different | from Part B F1 | oor Plan, co | ntainers not | on |
| CONTAINMENT: | | | | | |
| Curbing, Floor and Sump(s) | A N | A N | И. А | A N | A |
| If 'N', circle appropriate problem: displacement, leaks, other: | ponding/we | t spots, deter | ioration (cr | racks, gaps, e | tc.), |
| Loading/Unloading Area | A N | A N | A N | A N | A |
| If 'N', circle appropriate problem: other: | cracks, de | terioration, p | onding/wet s | pots, | |
| OBSERVATIONS, COMMENTS, DATE AND NATURE OF | F ANY REPAIR | S: | | | |
| | | | | | |

N = NOT ACCEPTABLE

| INSPE | CTION LOG SHEET FOR: Weekly Inspection of SAFETY AND EM SECURITY DEVICES AND MISCELLANEOUS | | .E.4-1 |
|--------|---|---|--------------|
| INSPE | CTOR'S NAME/TITLE: | | |
| INSPE | CTOR'S SIGNATURE: | | |
| DATE | OF INSPECTION (Month/Day/Year): | | |
| TIME | OF INSPECTION: | · | |
| SAFET | Y AND EMERGENCY EQUIPMENT | | |
| Fire : | Extinguishers: | A* N | |
| | If 'N', circle appropriate problem: overdue inspection, charged, inaccessible, other: | inadequately | |
| Eyewa | sh and Shower: | A N | |
| | If 'N', circle appropriate problem: disconnected malfunctioning drain leaking, other malfunctioning drain leaking, other malfunctions of the control of the | | · |
| First | Aid Kit: | A N | |
| | If 'N', circle appropriate problem: inadequate inventory | other: | |
| Spil1 | Cleanup Equipment: | A N | |
| | If 'N', circle appropriate problem: inadequate supply of inadequate supply of shovels, mops, empty drums, wet/dry | sorbent, towels and/or clay, vacuum, other: | |
| Person | nal Protection Equipment: | A N | |
| | If 'N', circle appropriate problem: inadequate supply of other: | aprons, gloves, glasses, resp | irator, |
| SECURI | TY DEVICES: | | |
| Gates | and Locks: | A N | |
| | If 'N', circle appropriate problem: sticking, corrosion, other: | lack of warning signs, fit, | |
| Fence: | | A N | |
| | If 'N', circle appropriate problem: broken ties, corrosi | on, holes, distortion, other: | |
| MISCEL | LANEOUS EQUIPMENT: | | |
| Dry Du | mpster: | A N | |
| | If 'N', circle appropriate problem: rust, corrosion, spl: deterioration, excess debris, liquids in unit, other: | | |
| OBSERV | ATIONS, COMMENTS, DATE AND NATURE OF ANY REPAIRS: | | |
| | | | |
| | 72 | i. | |
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^{*}A = ACCEPTABLE

ATTACHMENT I.E.4-2

EMERGENCY RESPONSE EQUIPMENT

| Description | Type/Capacity | Location | Quantities |
|---------------------|---------------------------|--------------------------|------------|
| Fire Extinguisher | ABC (10 1b.) | Warehouse | 3 |
| Eyewash | Fountain | Warehouse | 1 |
| First Aid | | Warehouse | 1 |
| Telephone | Standard | Managers Office | 1 |
| Telephone | Standard | Secretary's Desk | 1 |
| Telephones | Standard | Warehouse | 2 |
| Gloves | Rubber | Emergency Equip. Area | l pr. |
| Boots (optional) | Rubber | Emergency Equip. Area | l pr. |
| Protective Clothing | Apron | Emergency Equip. Area | 1/employee |
| Eye Protection | Goggles/Safety Glasses | Emergency Equip. Area | 1 pr. |
| Sorbent Material | Oil Absorbing | Emergency Equip. Area | l bale |
| Shovel | Standard | Emergency Equip. Area | 1 |
| Mop & Bucket | Standard | Emergency Equip. Area | 1 |
| Pump | Handheld, Electric | Emergency Equip. Area | 1 |
| Wet/Dry Vacuum | Portable,Electric | Emergency Equip. Area | 1 |
| Water | For Firefighting | Office & Warehous | e N/A |

I.E.5 OUTLINE OF TRAINING PROGRAM

Employees are trained to be able to operate or maintain the facility safely, and to give instructions with respect to hazards unique to the employee's job assignment. New employees must complete a introductory training program within six months, with an annual review and update thereafter.

Exhibit I.E.5-1 presents the training program outline which provides the basic training for employees who work with hazardous waste. The same outline is used for both the introductory and the continuing training programs.

I.E.5.b JOB TITLES, QUALIFICATIONS AND DUTIES OF EMPLOYEES

The titles of employees and descriptions of their qualifications and duties are provided in Exhibit I.E.5-2.

Records of type and amount of training received for all personnel are kept until closure. Exhibit 1.E.5-3 the Record of Personnel Training is used to record the training provided for each individual employee. The employee must sign the training form each time training is provided. Signing of the training "record" indicates that the employee has been adequately trained and all questions have been satisfactorily answered.

IE5-1

Signing of the training record by the employee certifies that the employee has been properly trained. This creates an obligation on the part of the employee to comply with the rules and regulations applicable to his activities. Failure of the employee to discharge his duties in accordance with the applicable regulations may result in civil and criminal penalties against the employee.

DESCRIPTION OF THE TRAINING PROGRAM

Type of Training:

Employee training is implemented in two forms: on-the-job and classroom training. Initially the new employee accompanies an experienced employee in his daily activities. This ensures that the new employee is exposed to daily operating procedures and conditions. Classroom training is undertaken by the branch manager with the assistance of Environmental Affairs Department.

Content of Training:

Because of the small size of the facility and limited functions of personnel, all personnel are trained with the same program content, as detailed in the following subsections.

Amount of Training:

a. Introductory Training

Branch Manager - At least eight hours of training at his branch.

IE5-2

Secretaries, Sales Representatives and Warehousemen - On-the-job training for one week. Two hour classroom training by branch manager.

b. Continuing Training

Branch Manager - Two hour classroom training provided by the corporate environmental staff.

Alternate Emergency Coordinator, Secretaries, Sales

Representatives and Warehousemen - One day of classroom training provided by the corporate environmental staff.

TRAINING DIRECTOR AND STAFF

Safety-Kleen Corp. provides numerous training activities to its personnel under the direction of the Environmental Affairs

Department. Training specific to hazardous waste management is assisted by staff from the Corporate Environmental Affairs Department who are trained in hazardous waste management procedures and familiar with hazardous waste and other environmental regulations.

Qualifications of the key personnel carrying out the actual hazardous waste management training activities are attached herewith as Exhibit I.E.5-4.

RELEVANCE OF TRAINING TO JOB POSITION

Employees have available a chemical description and a Material Safety

Data Sheet (OSHA Form 20) for each of the solvents they handle. The

information on these sheets is also important in case of a release.

If additional solvents and chemicals are added, Product Bulletins and Material Safety Data Sheets are available from the Technical Services Department and are provided to employees.

Personnel are to be made aware of the hazards associated with each waste and taught proper response actions for spills, fires, or accidents. Applicable personnel are familiarized with non-compatible materials, inspection procedures, required recordkeeping (training records, manifests, inspections records, etc.), required reports and pre-packaging and labeling of containers.

PREPAREDNESS, PREVENTION, AND CONTINGENCY PLAN AND EMERGENCY PROCEDURES

Personnel are instructed in the classroom and on-the-job in:

- a. contingency plan and emergency response procedure;
- b. using, inspecting, repairing, and maintaining emergency and monitoring equipment;
- c. key parameters for feed shut-off, facility valving and segregation of tanks;
- d. communication and alarm systems;
- e. response to surface water and ground water contamination incidents;
- f. response to fires, spills, or explosions, and notification procedures;
- g. shutdown of operations; and
- h. normal operating responsibilities.

The training program includes training in preparedness and prevention. This includes:

- a. importance of safety on the job and the use of safety equipment;
- b. routine inspections as a prevention tool;
- c. separation of ignitable waste from other waste; and
- d. use of the manifest system.

The training program includes instructions which teach facility personnel hazardous waste management procedures. Personnel are instructed in general first aid and in procedures for handling products and waste. Personnel receive on-the-job training concerning the storage equipment.

The plant manager is kept informed of current regulations by the Safety-Kleen Environmental Affairs Department. Applicable regulatory information on hazardous waste handling, processing and storage are explained to personnel. Personnel are to be informed of safe operating and correct procedures before handling hazardous materials and wastes.

OTHER SPECIFIC TRAINING ITEMS

Measurement of the volume of solvent in aboveground tanks is done at least once a day to insure timely scheduling of tanker truck deliveries.

Personnel must also inspect solvent dispensing and collecting equipment for leaks, and damage or wear that could cause a leak to develop. If spent solvent tanks are 85% full, a pickup must be immediately scheduled. Any fault observed during inspection must be repaired as soon as possible. Order replacement parts as soon as deterioration or wear is detected.

All personnel must be able to carry out the branch manager's responsibility of the notification procedure for a spill and they must make sure that a spill is cleaned up properly. For assistance in spill cleanup a list of cleanup contractors is supplied in Exhibit I.E.2-1.

The branch manager should also make sure that the facility is generally clean and well ordered; he should see that all spills are cleaned up promptly and that all refuse is placed in the refuse container. No open drums of solvent should ever be left unattended inside or outside.

The branch manager should also inform all of his employees of their anti-pollution responsibilities. These include:

- a. Prompt reporting and clean up of any spill.
- b. Prompt reporting of any situation which could lead to a spill.
- c. Exercise of care in any action during which a spill could occur.

d. The contingency plan must be reviewed with employees every year and records of the training kept at the facility.

Transport drivers will be instructed by the Transportation Manager in the proper handling of the trucks, unloading lines and valves.

All employees are trained to be aware of all potential escape routes during an emergency.

The branch manager and his designate are trained to use the inspection form.

IMPLEMENTATION OF THE TRAINING PROGRAM

New employees must complete a training course within six months of his initial date of employment with annual reviews and updates thereafter. Until they successfully complete training, facility personnel will work only in supervised positions.

NEW BRANCH MANAGER TRAINING

Program for Regional Engineer branch visit -

Review of Environmental Notebook/Part B Permit
Part A Application
Waste Analysis Plan
Contingency Plan
Financial Requirements
Training Plan
Transportation Licensing

Review of Environmental Compliance Guidance and Corporate Policy Manual Tranship Labels
Land Ban Notifications
Spill Reporting
Preparation for Agency Inspections

Conduct Detailed Facility Inspection with Branch Manager
Identify deficiencies requiring branch attention
Identify problems requiring Technical Services assistance
Review actual vs. permitted waste storage capacities

File Review

Manifests and Land Ban Notices Training Files Spill Report File Community Right-to-Know Files Inspection Records

Contingency Plan Training Session with Branch Manager and All Alternate Emergency Coordinators

- Include Spill Simulation and Response
- Update the Emergency Information and Local Authority Notifications

Health and Safety
OSHA 200 Reporting
Hazard Communication Program

Review Branch Specific Manifesting Procedures and Customer ID # Compliance

Review of Past Agency Inspections and Other Past Branch Compliance-related "History"

Environmental Training for Branch Personnel

- Recordkeeping
- Conducting Training Sessions

Notes to Regional Engineers:

- Be prepared with examples and extra copies of all forms in case the branch is missing them.
- Spend time at the beginning of visit reviewing Environmental files for potential missing information or problems.
- Use several short quizzes covering the major topics as a review and documentation of the training session. A training record form should also be completed.
- Provide copies of your recent memos concerning environmental compliance at the branch or in the state. Branch copies may be missing.
- Provide Safety-Kleen part numbers for equipment (sorbents, signs, etc.) that may be missing at the branch.

ANNUAL TRAINING FOR BRANCH EMPLOYEES

Facility Operation: Interim Status

- A. Environmental Regulation Update
- B. Part A Application
- C. Waste Analysis Plan
- D. Preparedness and Prevention Plan
- E. Contingency Plan and Emergency Procedure
- F. Training
- G. Closure
- H. Inspections
- I. Manifesting
- J. Spill Simulation and Spill Reports

JOB DESCRIPTIONS

REGIONAL MANAGER

JOB DESCRIPTION

The Regional Manager has overall responsibility for the branch operations within a certain geographic area defined by the Corporate Marketing Department. He is responsible for the proper operations and profitability of several (six to eight) service centers in his region.

REPORTS TO:

Divisional Vice President of Sales

QUALIFICATION:

Minimum high school graduate with Safety-Kleen management experience.

- 1. Plan, direct, and monitor activities of branch managers.
- Training of branch managers and branch secretaries.
- Assist branch managers with their administrative and sales activities, when necessary.
- 4. Monitor sales and inventory figures and report them to the corporate offices.
- 5. Insure that the facility and equipment are inspected regularly, and necessary repairs or remedial actions are implemented.
- 6. Represent Safety-Kleen Corp. in local community affairs and public relation activities.
- 7. Coordinate with corporate Technical Services and Environmental Engineering Departments and implement necessary actions or plans for regulatory compliance.

BRANCH MANAGER

JOB DESCRIPTION

The Branch Manager has overall responsibility for the facility operations and maintenance, and directs sales activities within a certain geographic area defined by the Corporate Marketing Department. He is responsible for the proper operations and profitability of the service center.

REPORTS TO:

Regional Manager of Sales

QUALIFICATION:

Minimum high school graduate with Safety-Kleen sales experience.

- 1. Plan, direct, and monitor activities of Sales Representatives.
- 2. Training of sales representatives and other branch personnel.
- 3. Assist or accompany sales representatives during their sales activities, when necessary.
- 4. Tabulate daily sales and inventory figures and report them to the corporate offices.
- 5. Maintain adequate inventory of solvents, allied products, and equipment.
- 6. Carry out corporate policies and standards regarding facilities, equipment operation and maintenance.
- 7. Inspect facility and equipment regularly, and implement necessary repairs or initiate remedial actions.
- 8. Represent Safety-Kleen Corp. in local community affairs and public relation activities.
- 9. Coordinate with corporate Technical Services and Environmental Engineering Departments and implement necessary actions or plans for regulatory compliance.

BRANCH SECRETARY

JOB DESCRIPTION

Performs duties to assist the branch manager, sales representatives, and customers with billing, scheduling and recordkeeping. Performs secretarial duties at the branch.

REPORTS TO:

Branch Manager

QUALIFICATION:

Attended high school

- 1. Maintain records in an orderly manner.
- 2. Assist sales representatives in scheduling services.
- Insure that all hazardous waste manifests are complete, and manage distribution and filing of copies.
- 4. Maintain Personnel Training Record files.
- 5. Maintain Facility Inspection Records.
- 6. Answer customer inquiries.
- 7. Manage customer billing.
- 8. Perform other related duties as assigned.

SALES REPRESENTATIVE

JOB DESCRIPTION

The Sales Representative is charged with the responsibility of generating new business and servicing established accounts within a certain defined geographic area.

REPORTS TO:

Branch Manager

QUALIFICATION:

Minimum high school graduate

- 1. Maintain his route truck and replenish his products on the truck before beginning his route sales.
- 2. Contact potential customers for the purpose of selling Safety-Kleen services and allied products.
- 3. Exchange used solvents with fresh solvent and replenish the inventory of Safety-Kleen's products for existing customers.
- 4. Make minor repairs of Safety-Kleen's parts washer equipment or lease new equipment to the customer.
- 5. Prepare the necessary paper work for each service, and bill or credit the customer, as necessary.
- 6. At the end of each day, return the truck to the branch for cleaning and maintenance, and summarize the day's activities so the branch manager can tabulate the daily figures and forward them to the corporate office.

WAREHOUSEMAN

JOB DESCRIPTION

Performs duties to assist the sales representatives in loading and unloading the trucks. Performs janitorial duties at the warehouse.

REPORTS TO:

Branch Manager

QUALIFICATION:

Attended high school.

- 1. Maintain warehouse in clean and orderly manner.
- 2. Assist sales representatives in loading trucks and replacing solvent.
- 3. Refurbish drums as needed.
- 4. Park or move trucks as needed.
- 5. Stock inventory.
- 6. Replenish trucks with inventory.
- 7. Perform other related duties as assigned.



PROTECTING YOU AND THE ENVIRONMENT

Training Record for New Employees

| Branch Number// | | |
|--|-------------|---|
| Branch Manager | | |
| New Sales Representative | Date | Hired |
| Module Title | Initials | Date Seen |
| Accidental Product Releases-Transportation & Customer Related | | *************************************** |
| 2. Accidental Product Releases at the Branch | | |
| 3. Material Safety Data Sheets - Overview | | |
| 4. Material Safety Data Sheets - Safety & Health Related Information | | • |
| 5. The Manifest | | |
| | | |
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Certification by the employee that training has been received obligates the employee to discharge his duties in accordance with the training provided. Failure to comply with the requirements established during the training program may result in civil or criminal penalties against the employee.

White Copy - Branch Files
Yellow Copy - Regional Files
Pink Copy - Sales Training and Development



PROTECTING YOU AND THE ENVIRONMENT

Training Record

| Module | Title | | |
|----------------------|-------|-------------|-----------|
| Branch Number/_ | | | |
| Branch Manager | | | |
| Sales Representative | | • | |
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| Print Name Clearly | | Initials | Date Seen |
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White Copy - Branch Files Yellow Copy - Regional Files
Pink Copy - Sales Training and Development

Printed in U.S.A. @1985

Certification by the employee that training has been received obligates the employee to discharge his duties in accordance with the training provided. Failure to comply with the requirements established during the training program may result in civil or criminal penalties against the employee.

RECORD OF PERSONNEL TRAINING

Certification by the employee that training has been received obligates the employee to discharge his duties in accordance with the training provided. Failure to comply with the requirements established during the training program may result in civil or criminal penalties against the employee.

| EMPLOYEE SIGNATURE | | | | | | |
|-------------------------|---|--|--|--|--|--|
| EMPLOYEE NAME | | | | | | |
| JOB TITLE | | | | | | |
| DESCRIPTION OF TRAINING | - | | | | | |
| DATE | | | | | | |

THOMAS R. HEATON

<u>Position</u>: Environmental Engineer

Environmental Affairs Department - Safety-Kleen Corp.

Education: M.S., Department of Technology & Human Affairs, Sever

Institute of Technology, Washington University, St.

Louis, MO (1978).

B.S., Zoology & Environmental Affairs, Butler University,

Indianapolis, IN (1976).

Employment Experience:

Senior Environmental Specialist, Borden Inc., Columbus, OH, Nov. 1980 - Sept. 1986

Environmental Scientist, Ohio Environmental Protection Agency, Nov. 1978 - Nov. 1980

Additional Training:

Underground Storage Tank Management, Ohio Petroleum Council, Worthington, OH, 1986

Groundwater Contamination Seminar, Center for Energy and Environmental Management (CEEM), Schaumburg, IL, 1984

Uncontrolled Waste Site Workshop, Vanderbilt University continuing education, Indianapolis, IN, 1981

Various seminars on RCRA and Superfund

Publications:

"Public Participation in the National Pollutant Discharge Elimination System in Missouri", M.S. Degree Thesis, Washington University, 1978

"Brine Disposal from the Oil and Gas Industry in Ohio", Ohio EPA, 1980

ELLEN J. JURCZAK

<u>Position</u>: Environmental Engineer - Permits Manager

Safety-Kleen Corp.

Education: Master of Business Administration, Loyola University

(1984)

B.S. Environmental Engineering, Northwestern University (1979)

Employment Experience:

Environmental Engineer Safety-Kleen Corp. July, 1984 - Present

Senior Project Engineer Ecology and Environment, Inc., Chicago September, 1980 - July, 1984

Assistant Project Engineer U.S. EPA National Enforcement Investigation Center Denver, Colorado July, 1979 - September, 1980

Student-In-Training U.S. EPA, Chicago August, 1977 - July 7, 1979

Professional Affiliations:

Professional Engineer, Registered in the State of Illinois

Member of the American Chemical Society

Member of the American Society of Civil Engineers

Additional Training:

Attended the National Conference on Environmental Engineering in 1982 and 1983

Completed an ASCE course on Hazardous Waste Management, 1982

Trained in methods of air, surface water, groundwater and soil sampling

Attended various seminars on RCRA and Superfund

Conducted training of branch personnel: Kansas City Region, Chicago Region, Detroit Region, and San Francisco Region in September - October, 1985

Participated in training of regional managers, May 1985

Conducted training of Minnesota branch personnel, July 1985

Conducted training of Missouri branch personnel, February, 1985

Conducted training of Hebron Recycle Center personnel, March, 1985

Conducted training of Elgin Recycle Center personnel, November, 1984

SUZANNE A. RYAN

Position: Regional Environmental Engineer - North Central Region

Safety-Kleen Corp.

Education: B.S. Chemical Engineering, University of Michigan (1981)

Employment Experience:

Environmental Engineer Safety-Kleen Corp. December 1985 - Present

Project Engineer Ecology and Environment, Inc., Chicago August, 1981 - December 1985

Associate Chemist Atlantic Richfield Co., Harvey, Illinois Summer 1979 and Summer 1980

Professional Affiliations:

Member of the American Institute of Chemical Engineers

Engineer-in-Training; in the State of Illinois

Additional Training:

Attended annual meeting of the American Institute of Chemical Engineers

Attended seminars on underground storage tank regulations in 1984 and 1986

Trained in methods of air, surface water, groundwater, and soil sampling

Attended various EPA seminars on Superfund programs

Conducted training of Regional Managers, August, 1986

JEFFREY E. SIMPSON

Position: Regional Environmental Engineer - South Central Region

Safety-Kleen Corp.

Education: B.S. Engineering and Public Policy (B.S. EPP)

Washington University, St. Louis, Missouri, School of Engineering

and Applied Science. (May, 1980)

Curriculum Focus: Environmental Engineering and Policy Analysis.

Employment Experience:

Environmental Engineer Safety-Kleen Corp., May, 1980 - Present

Employed as an Environmental Engineer with responsibility for handling Environmental Affairs in 8 states. Includes training of employees, preparation of contingency plans and regulatory affairs.

Professional Organizations:

Government Refuse Collection and Disposal Association

Additional Training:

Conducted training of Regional Managers, August, 1986

Hazardous Waste Incineration Today, sponsored by Georgia Institute of Technology, February 13-14, 1986

1984 Hazardous Material Spills Conference, sponsored by Association of American Railroads/Bureau of Explosives, Chemical Manufacturers Association, U.S. Coast Guard, U.S. EPA, April 9-12, 1984

1983 Source Reduction Conference, sponsored by Massachusetts Department of Environmental Management, October 13, 1983

1983 Hazmat Conference, sponsored by Pollution Engineering Magazine, July 12-14, 1983

Northeast Conference on Hazardous Waste, sponsored by Environmental Hazards Management Institute, November 9-12, 1982

1982 Hazardous Material Spills Conference, sponsored by Bureau of Explosives, Chemical Manufacturers Association, U.S. Coast Guard, U.S. EPA, April 19-22, 1982

Hazardous Waste Management Technologies and Practices, sponsored by Government Refuse Collection and Disposal Association, March 29-31, 1982

A Review of the Resource Conservation and Recovery Act, sponsored by DOW Chemical Company, October, 1980

Research Experience:

Trash-to-Energy Project - Bi-State Development Agency, St. Louis, Missouri (1979-1980). Involved with project to prepare and implement a trash-to-energy plan for the Bi-State area of Illinois and Missouri.

Center for Technology Assessment and Policy Studies - Rose-Hulman Institute of Technology, Terre Haute, Indiana (1978). Awarded a fellowship to participate in a summer program in Technology Assessment. Studied the tools and methods of technology assessment. A Technology Assessment entitled, "The Impact of the Surface Mining Control and Reclamation Act of 1977 Upon the State of Indiana: An Assessment", was prepared and presented to coal company officials and state and federal officials.

Public Policy Decision-making Under the Delaney Amendment (1978). Compiled and analyzed data relating incidence of carcinogenesis to treatment of laboratory animals with saccarin. Estimated probabilities of carcinogenesis using techniques of Bayesian statistics.

St. Louis County Ambulance Study (1978). Responsible for collecting and analyzing data for a cost-effectiveness study of ambulance service in St. Louis County for the Greater St. Louis Health Systems Agency.

<u>Publications</u>:

The Impact of the Surface Mining Control and Reclamation Act of 1977 Upon the State of Indiana: An Assessment, Center for Technology Assessment and Policy Studies, August 11, 1978. Coauthor.

ROBERT WACHSMUTH

Position: Regional Environmental Engineer - Western Region

Safety-Kleen Corp.

Education: B.S. Civil Environmental Engineering,

Michigan Technological University (1976)

Employment Experience:

Environmental Engineer, Safety-Kleen Corp., January 18, 1982 - Present

Senior Environmental Engineer, Ecology and Environment June 1, 1980 - January 15, 1982

Project Engineer, Aquatechnics, Inc. September, 1978 - June, 1980

Project Engineer, RJN Environmental Associates, Inc. March, 1978 - September, 1978

Designer, Illinois Central Gulf Railroad November, 1976 - March, 1978

Junior Engineer, Dames & Moore April, 1976 - November, 1976

Registrations and Memberships:

American Society of Civil Engineers Water Pollution Control Federation

Training Experience:

Underground Tank Storage of Hazardous Materials Sacramento, California in August, 1984

Seminar on Hazardous Waste Management in Phoenix, Arizona February, 1983

Hazardous Materials Workshop & Exposition, Cincinnati, Ohio October, 1982

Hazardous Materials Spill Conference, Milwaukee, Wisconsin April, 1982

RCRA Training Course, U.S. EPA Region V, Chicago, Illinois February, 1981

Generators & Transporters Training Course (New England Research), Chicago, Illinois, February, 1981

EPA Field Investigation Team Training Program Ecology and Environment, Chicago, Illinois, July, 1980

Safety and Health in EPA Field Activities, U.S. EPA Region V (Norman Steare and Assoc.), June, 1980

Conducted Recycle Center Manager Training, April, 1986

Conducted Branch Manager and Secretary Hazardous Waste Training in Western Division, September, 1985

Conducted Branch Personnel Training at three (3) branches in Southern California, March, 1984

Conducted Branch Personnel Training in Oregon and Washington, October, 1983

Conducted training of Regional Managers, August, 1986

STANLEY A. WALCZYNSKI

Position: Regional Environmental Engineer - Atlantic Region

Safety-Kleen Corp.

Education: Masters in Business Administration, University of Chicago

B.S. Civil Engineering, Bradley University

Employment Experience:

Environmental Engineer, Safety-Kleen Corp., July, 1985 - Present

Regional Engineer - Environmental Management Waste Management, Inc., 1982 - July, 1985

Project Engineer Donohue & Associates, Inc./Warren & Van Praag, 1978 - 1982

Project Engineer/Associate Engineer PRC - Consoer Townsend, 1974 - 1978

Professional Affiliations:

Registered Professional Engineer in Illinois, Indiana and Kansas American Society of Civil Engineers (Education Committee Chairman) American Public Works Association

Additional Training/Seminars:

Hazardous Waste Regulations Course, Government Institutes, 1983
Wetlands Preservation & Conservation Planning, 1980
Hazardous Materials Conference, 1984

Alternate Hazardous Waste Management Conference, 1985

Training Experience:

Conducted training of Branch Managers and Secretaries - Safety-Kleen Corp., August-October, 1985

Conducted environmental training of compliance officers - Waste Management, Inc., 1983 - 1984

Conducted training in public works engineering including emergency response management, 1982 - 1984

Conducted training of Regional Managers, August, 1986

ATTACHMENT I.F

CLOSURE AND FINANCIAL RESPONSIBILITY INFORMATION

I.F.1 INTRODUCTION

The Safety-Kleen Corp. has constructed each service center with the intent that it will be a long term facility for the distribution of Safety-Kleen products. There is no onsite disposal activity at any plant and hence there is no disposal capacity to be exhausted that will necessitate closure of a facility. Based on current business and facility conditions, this facility is expected to remain in operation beyond the year of 2000.

In the event that some presently unforseen circumstance(s) would result in the termination of operations and permanent closure or sale of the facility, the following closure plan is designed to identify the steps necessary to completely close the facility at any point during its intended life, and should be used for the tank, drum storage area and ancillary equipment.

It is intended that all closures will be complete and final with removal of waste and decontamination of the facility and associated equipment, in order to eliminate need for maintenance after closure and chance of escape of hazardous waste constituents into the environment.

Procedures described in this closure plan are also applicable to the cleaning up of spills and repair/decontamination of the facility or equipment.

An anticipated closure schedule is in Exhibit I.F.1-1. An anticipated maximum waste inventory for the facility is presented in the following section.

MAXIMUM INVENTORIES OF WASTES

- a. Aboveground Storage Tank
 A 12,000-gallon steel tank for the storage of used mineral spirits solvent (D001, D006, D008).
- b. Drum Storage Area:
 One 38'x 78' area with a sloped floor and collection sump. The maximum volume stored is 6,912 gallons (432 16-gallon drums).
- c. Solvent Return and Fill Shelter:
 One 45' x 44' structure, with three solvent return receptacles
 (wet dumpsters) and other ancillary equipment. Each dumpster
 can hold 275 gallons of waste.

CLOSURE PROCEDURE

- 1. Drum Storage Area
 - a. The drum storage area contains drums of used immersion cleaner, mineral spirits dumpster mud, dry cleaning wastes and paint wastes.
 - b. At closure all the drums will be removed and shipped to a reclaimer, implementing proper packaging, labeling and manifesting procedures. The used solvents will be reclaimed and the drums will be cleaned for reuse.

- c. The concrete floor and spill containment areas will be cleaned with detergent solution.
- d. The wash water and all other wastes generated in the closure process, after testing whether it is hazardous, will be properly disposed of.

2. Solvent Return and Fill Shelter Area

- a. This area is used to return the used mineral spirits to the storage tank.
- b. Closure of the solvent return receptacle (wet dumpster) will be made prior to the cleaning and removal of the storage tank.
- c. At closure, the sediment in the dumpster ("dumpster mud") will be cleaned out and drummed, labeled, and manifested for proper disposal at permitted facilities.
- d. The dumpster and the dock area will be thoroughly rinsed with clean mineral spirits followed by detergent solution.
- e. The rinsing fluids are discharged through the appurtenant piping system into the storage tank, which will be subjected to a separate closure procedure as described below.
- f. The cleansed dumpster and dock structure will be reused by Safety-Kleen, or scrapped.

3. Aboveground Tank and Associated Piping

- a. OUTLINE To safely clean and decommission aboveground storage tank:
 - (1) Expose doorways or cut openings to provide access to each tank.
 - (2) Remove remaining material from tanks and ship the materials to a reclaimer.
 - (3) Rinse, scrape and squeegee tank interiors.
 - (4) Disconnect and cap all appurtenant piping.
 - (5) Disconnect and cap all appurtenant pumping equipment.
 - (6) Remove tanks and appurtenant equipment for final disposition.
 - (7) Transport and dispose of all other waste material generated during the project.

b. PHASE I - OPEN THE TANK

- (1) Access to aboveground tanks is obtained by opening manways.
- (2) Prior to opening the tanks the personnel should have full face respiratory protection and protective clothing. Once the tanks have been opened they will be provided with positive ventilation. The tanks will then be inspected to determine the approximate quantity and physical conditions of the remaining material.

c. PHASE II - REMOVING WASTE AND CLEANING TANK

- (1) Before removing the waste from the tank, all piping and appurtenant equipment will be flushed first with clean mineral spirits followed by detergent solution.
- (2) The method to remove the waste material from the tanks will depend on the physical properties and quantities of that material. Prior to any person entering the tank, an effort will be made to remove as much liquid and sludge as possible.
- (3) Subsequent to vacuuming the majority of the material from the tanks, it may be necessary to use a high pressure wash system using clean solvent and detergent solution to rinse residual material from the walls and bottom of the tanks. The evacuated material and the rinse solution will be returned to the Recycle Center for reclamation. The quantity of wash fluid used will be kept to a minimum in order to limit the amount of unnecessary material.
- (4) Storage tanks are considered confined spaces (i.e., spaces open or closed having a limited means of egress in which poisonous gases or flammable vapors might accumulate or an oxygen deficiency might occur).

- (5) Confined space entry requires special operating procedures:
 - (a) Tanks are to be washed, neutralized and/or purged (where flammable atmosphere is present) prior to being entered.
 - (b) Supply valves must be closed and "tagged" and bleeder valves left open; or supply piping should be disconnected.
 - (c) Pumps or motors normally activiated by automatic controls shall be operated manually to be sure they have been disconnected. Instrument power switches should be tagged "Off".
 - (d) In tanks where flammable vapors may be present, all sources of ignition must be removed.
 - (e) All tanks must be tested for flammable vapors, toxic gases or oxygen deficiency in that order as applicable. The results of such tests should be displayed on the job site.
 - [1] In all tank entering situations, an oxygen deficiency test shall be performed prior tank entry.

- [2] Under circumstances where "hot work" (welding, burning, grinding, etc.) is to be performed in or on the vessel, a test for combustible gases shall be taken. This is referred to as a "flash test".
- [3] In most circumstances, flash tests and oxygen deficiency tests will be performed by the supervisor of the area in which the work is being done.
- [4] Under any conditions where there exists a possibility (no matter how remote) of toxic vapors being present in the tank to be entered, the supervisor will arrange to have the air tested.
- (f) There must be a set of wristlets or a rescue
 harness and sufficient rope at the job site to
 effect a rescue. Any other rescue equipment
 considered necessary must also be on the job site.
- (g) Workers should wear a rescue harness if entering a tank with a large enough opening to easily effect a rescue. In tanks with small openings, only wristlets may be used. (However, in cases where there are agitator shafts, drums or other hazards in which the man's life-line would be entangled and

the supervisor in charge feels that wearing the lifeline may entrap a man and increase the hazard, the wearing of a harness or wristlets may be eliminated.)

- (h) A constant source of fresh air must be provided to insure a complete change of air every few minutes. In cases of <u>short term entry</u> for inspection or removal of objects, an air mask is recommended. In cases of <u>long term entry</u> (generally for repair) the use of an air mover should be considered.
- (i) When a ladder is required to enter a tank, the ladder must be secured and not removed while anyone is in the vessel. In cases where a rigid ladder could become an obstacle, a chain ladder may be used.
- (j) Adequate illumination must be provided.
 - [1] A flashlight or other battery operated light must also be on hand to provide illumination for safety exit in the event of an electrical power failure.
 - [2] In any tank used to store flammable liquids, explosion-proof lighting must be used.

- (k) All electrical equipment to be used inside the tank
 must be in good repair and grounded.
- (1) Others working in the immediate area shall be informed of the work being done; and they shall inform the watcher or supervisor immediately of any unusual occurrence which may make it necessary to evacuate the tank.
- (6) The "Buddy" (Watcher of Standby Observer) System:
 - (a) Men working inside a confined space must be under the constant observation of a fully instructed watcher.
 - (b) Before anyone enters the tank, the watcher will be instructed by the person in charge of the entry that:
 - [1] An entry authorization must be obtained from the person in charge by anyone entering the tank.
 - [2] A rescue harness or wristlets must be on the job.

- [3] He (the watcher) must know the location of the nearest:
 - [a] Telephone (with emergency numbers posted).
 - [b] Safety Eyewash/Shower.
 - [c] Fire Extinguisher.
 - [d] Oxygen Inhalator.
- [4] For all "hot work" inside a tank, the watcher must be instructed how to shut down welding/burning equipment.
- [5] As long as anyone is inside the vessel, the watcher must remain in continuous contact with the worker. HE IS NOT TO LEAVE THE JOB SITE EXCEPT TO REPORT AN EMERGENCY.
- [6] UNDER NO CIRCUMSTANCES SHOULD THE WATCHER

 ENTER THE VESSEL. If the worker(s) in the
 tank becomes ill or injured, the watcher is to
 put in effect the emergency plan described in
 the attached Standard Operating Procedure.
- [7] The watcher still DOES NOT ENTER THE TANK until help is available.

- (c) After being instructed in his responsibilities, the watcher will sign an instruction form indicating his understanding.
- (7) Welding and Burning Within a Tank
 - (a) All welding and burning equipment must be provided with a shutoff under control of the watcher; and the watcher must be shown how to shut off the equipment if it becomes necessary.
 - (b) Welding and burning equipment will only be taken into a tank immediately prior to its use and must be removed from the tank immediately after the job is finished.
 - (c) For all "hot work" inside a tank, a properly executed flame permit if needed, must be displayed at the job site.
 - (d) Standard welding and burning safety precautions will always be followed.
- d. PHASE III REMOVE TANK
 - (1) Disconnect and cap all appurtenant piping.

- (2) Disconnect and decontaminate all appurtenant pumping equipment.
- (3) The vessels shall be removed and reused by Safety-Kleen or cut up and sold as scrap.
- (4) Contaiminated soil surrounding the tank, when it exists, shall be removed and properly disposed of.

e. PHASE IV - BACKFILLING AND REGRADING

- (1) Backfill any excavation with previously excavated material with proper compaction.
- (2) Add additional backfill with proper compaction if necessary. The material must be of clean materials and easily compacted in place.
- (3) Regrade the site to proper topography.
- (4) Remove and dispose of non-useable debris.

FACILITY CLOSURE SCHEDULE AND CERTIFICATION

Safety-Kleen may amend the closure plan at any time during the active life of the facility. (The active life of the facility is that period during which wastes are periodically received.)
Safety-Kleen shall amend the plan any time changes in operating plans or facility design affect the closure plan or whenever

there is a change in the expected year of closure of the facility. The plan must be amended within 60 days of the changes.

- 2. Safety-Kleen shall notify the State authority at least 180 days prior to the date closure is expected to begin, except in cases where the facility's permit is terminated or if the facility is otherwise ordered by judicial decree or compliance order to cease receiving wastes or to close. The date when Safety-Kleen "expects to begin closure" should be within 90 days after the date on which Safety-Kleen expects to receive the final volume of wastes.
- 3. Within 90 days after receiving the final volume of hazardous wastes, or 90 days after approval of the closure plan, if that is later, Safety-Kleen shall remove from the site, all hazardous wastes in accordance with the approved closure plan. The Regional Administrator may approve a longer period if Safety-Kleen demonstrates that:

The activities required to comply with this paragraph will, of necessity, take longer than 90 days to complete; or

The following requirements are met:

 The facility has the capacity to receive additional wastes;

- There is a reasonable likelihood that a person other than Safety-Kleen will recommence operation of the site;
- Closure of the facility would be incompatible with continued operation of the site; and Safety-Kleen has taken and will continue to take all steps to prevent threats to human health and the environment.
- 4. Safety-Kleen shall complete closure activities in accordance with the approved closure plan and within 180 days after receiving the final volume of wastes or 180 days after approval of the closure plan, whichever is later.
- 5. When closure is completed, all facility equipment and structures shall have been properly disposed of, or decontaminated by removing all hazardous waste and residues.
- 6. When closure is completed, Safety-Kleen shall submit to the certification by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan.

BOYNTON BEACH, FLORIDA SERVICE CENTER CLOSURE COST ESTIMATE

1. TANK CLOSURE - Open, remove contents of, clean, remove, and dispose of, a 12,000-gllon aboveground storage tank.

Phase I - Remove Contents and Clean

1. Ship contents to a reclaimer.

| | Crew: | | |
|----|---|---------|--------------|
| | 2 Truck Dr. \$17.56/hr. x 8 hrs. = | \$ 28 | 0.96 |
| | 2 Trucks \$500 lump sum | 50 | 0.00 |
| | Tank size = 12,000 gal. ÷ 7,500 gal/truck = 2 trucks 2 trucks x 80 miles x 1.75/mile = Reclamation cost (\$0.30/gal.) | | 5.00 |
| 2. | Squeegie Clean Tank | | |
| | Crew: 1 Foreman \$18.30/hr. x 24 hrs. = 1 Laborer (\$17.00/hr. & \$3.00/hr. hazard pay) x 24 hrs. = | | 9.20 0.00 |
| 3. | Use of high pressure water for two days | 80 | 0.00 |
| 4. | Disposal and transportation of wash water (1,500 gallons @ \$0.12/gallon) = | 180 | 0.00 |
| 5. | Transportation of wastewater 1,250 miles x \$1.75/mile = | 2,18 | 7.50 |
| 6. | Analysis of rinsate sample | 200 | 0.00 |
| | Total - Phase I | \$8,983 | 3.00 |

IF1-15

Phase II - Remove and Dispose of Tank

1. Disconnect and Remove Appurtenant Equipment

| | Crew: | | | |
|-----|----------------------------|------------------------|-----|---------|
| | 1 Foreman \$18.30/hr. x 8 | | \$ | 146.40 |
| | 2 Laborers \$17.00/hr. x 8 | 3 hrs. = | | 272.00 |
| | | | | |
| 2. | Torch Tank | | | |
| | Crew: | | | |
| | 1 Foreman \$18.30/hr. x 8 | h | | 11110 |
| | 1 Laborer \$17.00/hr. x 8 | | | 146.40 |
| | I Laborer \$17.00/III. X 6 | nrs. = | | 136.00 |
| 3. | Remove Tank | | | |
| | | | | |
| | Crew: | | | |
| | l Foreman | \$18.30/hr. x 2 hrs. = | | 36.60 |
| | 4 Laborers | \$16.80/hr. x 2 hrs. = | | 134.40 |
| | 1 Backhoe | \$28.97/hr. x 2 hrs. = | | 57.94 |
| | l Oiler | \$25.47/hr. x 2 hrs. = | | 50.94 |
| | l Truck Dr. | \$17.56/hr. x 2 hrs. = | | 35.12 |
| | Equipment | \$200 Lump Sum = | _ | 200.00 |
| | | Total Phase II = | ć 1 | 216 00 |
| | | iotai rhase ii - | ŞI, | ,216.00 |
| | | | | |
| Pha | se III - Backfilling, Regr | ading, Soil Testing | | |
| 1. | Test for soil contaminati | | | |
| 1. | Scan soil with a photoion | | | |
| | (1 hour) = | ization detector | ^ | FO 00 |
| | (1 11041) - | | \$ | 50.00 |
| 2. | Regrading | | | |
| | | | | |
| | Cmarra | | | |

| l F.E. Loader Equipment | \$27.38/hr. x 1 hr. = \$ 2.00/c.y. x 10 c.y. = | 27.38 20.00 | |
|----------------------------|---|--------------------|--|
| | | \$ 47.38 | |
| | Total - Phase III = | \$ 97.00 | |

Summary of Closure Cost for 12,000-gallon Tank:

Phase I = 8,983 Phase II = 1,216 Phase III = \$10,296 2. CLOSURE OF DRUM STORAGE AREA - Remove and return drums to a reclaimer, clean the drum storage area, and dispose of wash water generated. a. 3 Truck Dr. \$17.56/hr. x 8 hrs. 421.44 3 Trucks \$750 lump sum 500.00 Hauling cost = 180 miles x \$1.75/mile =31**5.**00 b. Clean drum storage area 1 Foremen $$18.30/hr. \times 10 hrs. =$ 183.00 1 Laborer (\$17.00/hr. & \$3.00/hr. hazard pay) x 10 hrs. = 200.00 c. Dispose of wash water 700 gallons x \$0.12/gallon =84.00 Dispose of used solvents -432 drums x \$30.00/drum 12,960.00 e. Testing for contamination 2 samples x \$75.00/each150.00 Total Drum Closure Cost = \$14,313.00 3. CLOSURE OF DUMPSTER AND DOCK AREA - Remove, package and dispose of sludge, clean the dumpster and dock area, remove dumpster and dock structure for reuse. a. 1 Truck \$250 lump sum \$ 250.00 Hauling Cost = 30 miles x \$1.75/mile52.50 1 Truck Dr. \$17.56/hr. x 8 hrs. = 140.48 Crew: 1 Foreman \$18.30/hr. x 4 hrs. =73.20 1 Laborer (\$17.00/hr. & \$3.00/hr. hazard pay) x 4 hrs. =80.00 b. Clean Dumpster and Dock Area Crew: 1 Foreman \$18.30/hr. x 16 hrs. =292.80 1 Laborer (\$17.00/hr. & \$3.00/hr. hazard pay) x 16 hrs. = 320.00

400.00

12.00

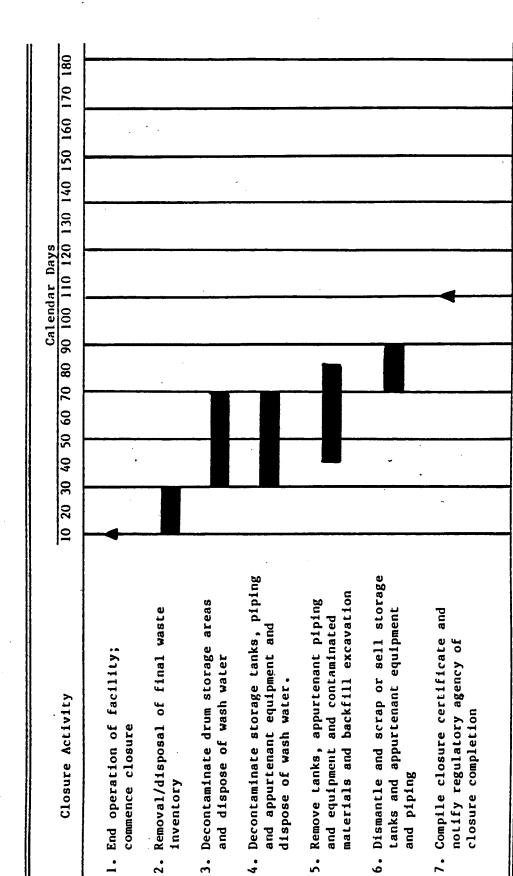
Use of high pressure water for one day =

Disposal of wash water

100 gallons x \$0.12/gallon =

| | d. | Dispose of dumpster mud 16 55-gallon drums x \$300/drum = | 4,800.00 |
|----|------|---|-------------|
| | e. | Testing for contamination 3 samples x \$75 each = | 225.00 |
| | f. | Torch, disassemble, and remove dumpster and dock Crew: | |
| | | 1 Foreman \$18.30/hr. x 16 hrs. = | 292,80 |
| | | 2 Laborers \$17.00/hr. x 16 hrs. = | 578.00 |
| | | Equipment $$5.20/hr. x 8 hrs. =$ | 41.60 |
| | | 1 Truck Dr. \$17.56/hr. x 2 hrs. = | 35.12 |
| | | Total Dock Closure Cost = | \$ 7,594.00 |
| 5. | PE (| CERTIFICATION - \$ 500.00 | |
| 6. | TOTA | AL CLOSURE COST: | |
| | 12,0 | 000-gallon tank = | \$10,296.00 |
| | Dru | n storage area = | 14,313.00 |
| | | and dumpster area = | 7,594.00 |
| | P.E. | certification = | 500.00 |
| | | Total | \$32,703.00 |

CLOSURE SCHEDULE





Administrator
Florida Department of Environmental Regulation
Solid and Hazardous Waste Section
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32301

Dear Sir:

I am the chief financial officer of Safety-Kleen Corp., 777 Big Timber Road, Elgin, Illinois, 60123. This letter is in support of this firm's use of the financial test to demonstrate financial assurance as specified in Subpart H of 40 CFR Parts 264 and 265.

- 1. This firm is the owner or operator of the following facilities for which financial assurance for closure or post-closure care is demonstrated through the financial test specified in Subpart H of 40 CFR Parts 264 and 265. The current closure and/or post-closure costs estimates covered by the test are shown for each facility: total per attached listing - \$1,290,000.
- 2. This firm guarantees, through the corporate guarantee specified in Subpart H of 40 CFR Parts 264 and 265, the closure or post-closure care of the following facilities owned or operated by subsidiaries of this firm. The current cost estimates for the closure or post-closure care so guaranteed are shown for each facility: \$10,000.
- 3. In States where EPA is not administering the financial requirements of Subpart H of 40 CFR Parts 264 or 265, this firm, as owner or operator or guarantor, is demonstrating financial assurance for the closure or post-closure care of the following facilities through the use of a test equivalent or substantially equivalent to the financial test specified in Subpart H of 40 CFR Parts 264 and 265. The current closure and/or post-closure care cost estimates covered by such a test are shown for each facility: total per attached listing \$5,140,000.
- 4. This firm is the owner or operator of the following hazardous waste management facilities for which financial assurance for closure or, if a disposal facility, post-closure care is not demonstrated either to EPA or a State through the financial test or any other financial assurance mechanism specified in Subpart H of 40 CFR Parts 264 and 265 or equivalent or substantially equivalent State mechanisms. The current closure and/or post-closure cost estimates not covered by such financial assurance are shown for each facility: total per attached listing -0-.

(con't)

5. This firm is the owner or operator of the following UIC facilities for which financial assurance for plugging and abandonment is required under Part 144. The current closure cost estimates as required by 40 CFR 144.62 are shown for each facility: -0-.

This firm is required to file a Form 10K with the Securities and Exchange Commission (SEC) for the latest fiscal year.

The fiscal year of this firm ends on the Saturday closest to December 31. The figures for the following items marked with an asterisk are derived from this firm's independently audited, year-end financial statements for the latest completed fiscal year, ended January 3, 1987.

Alternative I

| 1. | Sum of current closure and post-closure costs estimates (total of all costs estimates shown | |
|-------------|---|--------------|
| | in four paragraphs on the previous page) | \$ 6,440,000 |
| *2. | Total liabilities | |
| *3. | | 75,317,000 |
| *4. | | 134,451,000 |
| *5. | • | 137,445,000 |
| | | 79,085,000 |
| | Current liabilities | 37,097,000 |
| *7. | O | 41,988,000 |
| *8. | The sum of net income plus depreciation, | -,···,··· |
| | depletion, and amortization | 43,016,000 |
| *9 . | Total assets in U.S. | |
| | | 195,029,000 |
| | | YES NO |
| 10. | Is line 3 at least \$10 million? | X |
| 11. | Is line 3 at least 6 times line 1? | X |
| l 2 • | Is line 7 at least 6 times line 1? | X |
| *13. | Are at least 90% of firm's assets located | A. |
| | in the U.S.? | v |
| 14- | Is line 9 at least 6 times line 1? | X |
| 15 | To line 2 divided by the / 1 | X |
| 16 | Is line 2 divided by line 4 less than 2.0? | X |
| 10. | Is line 8 divided by line 2 greater than 0.1? | X |
| 1/. | Is line 5 divided by line 6 greater than 1.5? | y . |

I hereby certify that the wording of this letter is identical to the wording specified in 40 CFR 462.151(f) as such regulations were constituted on the date shown immediately below.

Robert W. Willmschen

Vice President - Finance

March 20, 1987

CLOSURE ASSURANCE - FINANCIAL TEST

| CATEGORY #1 | (See | Transmittal | Letter | for | Description) |
|-------------|------|--------------|--------|-----|---------------|
| | | - | | | peacrithriou) |

| STATE OF ALABAMA | | | |
|------------------------------------|------------|--|---------------|
| Dolomite (\$20,000) | (3-019-01) | 1002 Hoke Avenue Dolomite, AL 35061 | ALD 077640001 |
| Gurley (\$20,000) | (3-019-02) | 201 Section Line Street Gurley, AL 35748 | ALD 000776807 |
| Huntsville (\$50,000) | (0-007-49) | Colemont Ind. Site US 72 East, Huntsville, AL | ALD 981028798 |
| Montgomery (\$20,000) | (3-019-21) | 4815 N. Birmingham Montgomery, AL 36308 | ALT 020010997 |
| Whistler (\$20,000) | (6-133-01) | 3023 Dials Street Whistler, AL 36612 | ALD 071951628 |
| STATE OF CALIFORN | <u>[A</u> | | |
| El Monte (\$20,000) | (7-088-06) | 10625 Hickson Street Unit A El Monte, CA 91731 | CAT 000613893 |
| Fresno (\$20,000) | (7-015-01) | 3561 S. Maple Street Fresno, CA 93725 | CAD 066113465 |
| Gardena (\$20,000) | (7-088-04) | 139 E. 157th Street Gardena, CA 90248 | CAT 000613919 |
| Highland (\$20,000) | (7-172-01) | 7979 Palm Ave., Unit E Highland, CA 92346 | CAT 000613927 |
| Los Alamitos (\$20,000) | (7-088-05) | 3876 Florista Street Los Alamitos, CA 90270 | CAD 066177783 |
| Los Angeles (\$20,000) | (7-088-02) | 2918 Worthen Avenue Los Angeles, CA 90039 | CAT 000613935 |
| Oakland (\$20,000) | (7-178-01) | 404 Market Street Oakland, CA 94607 | CAD 053044053 |
| Pomona (\$10,000) | | 2750 Thompson Creek Rd. Pomona, CA 91767 | CAD 980894562 |
| Reedley Recycle Cer (\$100,000) | ter | 1000 South I Street Reedley, CA 93654 | CAD 093459485 |
| Rohnert Park (\$20,000) | (7-178-03) | 5750 Commerce Blvd. Rohnert Park, CA 94928 | CAT 000613943 |
| Rancho Cordova (\$20,000) | (7-157-01) | 2576 Mercantile Drive Rancho Cordova, CA 95670 | CAT 000613950 |

| (\$20,000) | (/-۲07-01) | Salida, CA 95368 | CAT 000613968 |
|--------------------------|------------|--|---------------|
| San Diego (\$20,000) | (7-175-01) | 499 Raven Street San Diego, CA 92114 | CAD 980892475 |
| San Diego (\$20,000) | (7-175-01) | 6306 Federal Blvd. San Diego, CA 92114 | CAD 080916968 |
| Santa Ana (\$20,000) | (7-088-07) | 2120 South Yale Street Santa Ana, CA 92704 | CAT 000613976 |
| Santa Barbara (\$20,000) | (7-177-01) | 214 E. Montecito Street Santa Barbara, CA 93103 | CAT 000613984 |
| Santa Barbara (\$20,000) | (7-177-01) | 5310 Overpass Road Goleta, CA 93103 | CAD 981374077 |
| San Jose (\$20,000) | (7-178-02) | 1147 N. 10th Street San Jose, CA 95112 | CAD 980817159 |
| Sylmar (\$20,000) | (7-088-01) | 13024 Bradley Avenue Sylmar, CA 91342 | CAT 000613992 |
| STATE OF CONNECTIC | <u>ur</u> | | |
| Branford (\$20,000) | (2-112-01) | ll Tipping Drive Branford, CT 06405 | CTD 980667927 |
| West Hartford (\$20,000) | (2-070-01) | 24 Brixton Street West Hartford, CT 06110 | CTD 000845982 |
| STATE OF IDAHO | | | |
| Boise (\$20,000) | (1-183-08) | 514 E. 45th Street Boise, ID 83704 | IDD 000712026 |
| Pocatello (\$20,000) | (1-183-28) | 2610 Garrettway Pocatello, ID 83201 | IDD 991281270 |
| STATE OF IOWA | · | | |
| Davenport (\$20,000) | (5-047-01) | 3035 West 73rd Street Davenport, IA 52806 | IAD 098027592 |
| Grimes (\$20,000) | (5-053-01) | 5318 NW 111 Drive, RR #2 Grimes, IA 50111 | IAD 083489773 |
| Mason City (\$20,000) | (5-093-01) | 16 SW 11th Street Mason City, IA 50401 | IAD 000678326 |
| STATE OF MAINE | | | |
| Leeds (\$20,000) | (2-011-01) | Route 202, RFD 3, Box 1990 Leeds, ME 04263 | MED 980667810 |

| STATE OF OHIO | | | |
|--|---------------|---|---------------|
| Kent (\$50,000) | (4-040-03) | 4341 Mogadore Road Kent, OH 44240 | OHD 981099401 |
| Brunswick (\$20,000) | (4-040-02) | ll69 Industrial Parkway Brunswick, OH 44212 | OHD 000720987 |
| Hamilton (\$20,000) | (4-037-01) | 4579 Port Union Road Hamilton, OH 45011 | OHD 084750579 |
| Heath (\$10,000) | | 2041 James Parkway Heath, OH 43056 | OHD 981188840 |
| Hebron Recycle Cente (\$270,000) | r | 581 Milliken Drive SE Hebron, OH 43025 | OHD 980587364 |
| Groveport (\$20,000) | (4-046-01) | 4465 Marketing Place Groveport, OH 43125 | OHD 981000664 |
| Oregon (\$20,000) | (4-190-01) | 161 North Lallendorf Oregon, OH 43616 | OHD 000721001 |
| Reynoldsburg (\$20,000) | (4-046-01) | 6400 North Taylor Road SW Reynoldsburg, OH 43068 | ОНД 000720995 |
| Tallmadge (\$20,000) | (4-040-03) | 2929 Mogadore Road Tallmadge, OH 44278 | OHD 000720136 |
| Warrensville Heights (\$20,000) | (4-040-01) | 26309 Miles Road, Unit MI Warrensville Heights, OH 44128 | OHD 000810275 |
| Tipp City (\$20,000) | (4-037-02) | 4205 Lisa Drive Tipp City, OH 45371 | OHD 980683155 |
| Toledo (\$20,000) | (4-190-01) | 5148 Tractor Road Toledo, OH 43616 | OHD 981097876 |
| Youngstown (\$20,000) | (4-196-01) | 1171-1/2 N. Meridian Road Youngstown, OH 44509 | OHD 980990162 |
| Sharonville (\$20,000) \$1,290,000 | (4-037-01) | 11919 Tramway Drive Sharonville, OH 45241 | OHD 981187313 |
| CATEGORY #2 (See Tran | Smittal Tarra | for December 1 | |
| Phillips Manufacturing | | ror Description.) | |
| 777/ 15 | ··· | | 77.5 000.5 |

7334 N. Clark Street Chicago, IL 60626 (\$10,000)

ILD 005474143

CATEGORY #3 (See Transmittal Letter for Description)

STATE OF ARIZONA

Phoenix (\$20,000) (7-142-01) 4401 E. University Phoenix, AZ 85034

AZD 089308803

| | Tucson (\$20,000) | (7-142-02) | 4161 E. Tennessee Tucson, AZ 85714 | AZD 980892897 |
|----|----------------------------|------------|--|-----------------|
| ٠. | STATE OF ARKANSAS | | | |
| | Little Rock (\$20,000) | (6-086-01) | 11727 Arch St. Pike Little Rock, AR 72206 | ARD 054575238 |
| | Fort Smith (\$20,000) | (6-063-01) | 2511 Johnson Street Fort Smith, AR 72904 | ARD 000709733 |
| | West Memphis (\$20,000) | (6-094-01) | 309 Mound City Road Between I 55 and 40 West Memphis, AR 72301 | ARD 056855232 |
| | STATE OF COLORADO | | | |
| | Commerce City (\$20,000) | (6-052-01) | 4980 Locust Street Commerce City, CO 80022 | COD 000716613 |
| | Englewood (\$50,000) | (6-052-02) | 2801 S. Tejon Englewood, CO 80110 | COD 000716621 |
| | Grand Junction (\$20,000) | (6-052-21) | 368 Bonny Grand Junction, CO 81501 | · COT 090010851 |
| | Pueblo (\$20,000) | (6-052-04) | 2841 East Fourth Street Pueblo, CO 81001 | COD 000716639 |
| | STATE OF FLORIDA | | · | |
| | Casselberry (\$20,000) | (3-130-01) | 464 A Pulmosa Drive Casselberry, FL 32707 | FLD 097837983 |
| | Delray Beach (\$20,000) | (3-097-01) | 16086 SW 4th Ave., Bldg. B Delray Beach, FL 33444 | FLD 000776757 |
| | Orange Park (\$20,000) | (3-079-01) | 161 Industrual Loop South Orange Park, FL 32073 | FLD 980847214 |
| | Miami (\$20,000) | (3-097-02) | 7875 NW 54th Street Miami, FL 33166 | FLD 980840086 |
| | Port Charlotte (\$20,000) | (3-163-02) | 19200 Peachland Blvd. Bachman Blvd. Port Charlotte, FL 33949 | FLD 000776716 |
| | Tallahassee (\$20,000) | (3-079-02) | 3082 West Tharpe Street (Rear) Tallahassee, FL 32303 | FLD 000776773 |
| | Tam pa (\$20,000) | (3-163-01) | 4701 North Manhattan Tampa, FL 33614 | FLD 049557408 |
| | Tam pa (\$50,000) | (0-007-50) | 5309 24th Avenue South Tampa, FL 33619 | FLD 980847271 |

| STATE OF GEORGIA | - | | |
|----------------------------------|-------------------------|---|---------------|
| Columbus (\$20,000) | (3-106-01) | 5920 Coca Cola Blvd. Columbus, GA 31909 | GAD 000823096 |
| Garden City (\$20,000) | (3-179-01) | 5217 Augusta Road P.O. Box 7036 Garden City, GA 31408 | GAD 000776781 |
| Hapeville (\$20,000) | (3-013-01) | 3440 Lang Avenue Hapeville, GA 30354 | GAD 000823070 |
| Macon (\$20,000) | (3-106-21) | 6850 Hawkinsville Road Macon, GA 31207 | GAD 980709257 |
| Norcross (\$50,000) | (3-013-02) | 480 S. Old Peachtree Road Norcross, GA 30071 | GAD 980842777 |
| Ringgold (\$20,000) | (3-019-22) | RR #5, Dietz Road Ringgold, GA 30736 | GAD 980842835 |
| STATE OF ILLINOIS | | | |
| Arlington Heights (\$20,000) | (5-034-03) | 306 Campus Drive Arlington Heights, IL 60004 | ILD 000805929 |
| Elgin Recycle Center (\$300,000) | | 1500 E. Villa Street Elgin, IL 60120 | ILD 000805911 |
| Caseyville (\$50,000) | (5-1 6 0-02) | 20 Tucker Drive Caseyville, IL 62232 | ILD 981097819 |
| Chicago Plant (\$275,000) | | 1445 W. 42nd Street Chicago, IL 60609 | ILD 005450697 |
| Franklin Park (\$20,000) | (5-034-04) | 412 Domenic Court Franklin Park, IL 60131 | ILD 000665869 |
| Mokena (\$20,000) | (5-034-05) | 9631 West 194th Place Mokena, IL 60448 | ILD 000665851 |
| Pekin (\$20,000) | (5-136-01) | RR #3 Pekin, IL 61554 | ILD 093862811 |
| Schaumburg . (\$20,000) | (5-034-01) | 728 Morse Avenue Schaumburg, IL 60193 | ILD 079749073 |
| Urbana (\$20,000) | (5-033-01) | 500 Anthony Drive Urbana, IL 61801 | ILD 981088388 |
| STATE OF INDIANA | | | |
| Evansville (\$20,000) | (5-060-01) | 4417 St. Joe Street Evansville, IN 47712 | IND 000815894 |
| Fort Wayne (\$20,000) | (5-068-01) | 2112 Production Road Ft. Wayne, IN 46808 | IND 000715466 |

| | Indianapolis-E (\$20,000) | (4-076-02) | 8418-26 Brookville Road Indianapolis, IN 46239 | IND 000815886 |
|---|---------------------------|------------|---|---------------|
| | Portage (\$20,000) | (5-034-06) | 6050 Eagle Drive Portage, IN 46368 | IND 000714428 |
| | South Bend (\$20,000) | (5-082-01) | 2217 Western Avenue South Bend, IN 46628 | IND 000715474 |
| | STATE OF KANSAS | | | |
| | Kansas City (\$20,000) | (5-085-01) | ll565 K-32 Highway Kansas City, KS 66111 | KSD 000687681 |
| | Dodge City (\$20,000) | (6-195-21) | 600 East Trail Dodge City, KS 67801 | KSD 980686844 |
| | Wichita (\$20,000) | (6-195-01) | 1311 South Anna Wichita, KS 67209 | KSD 000809723 |
| | Edwardsville (\$20,000) | (5-085-01) | 9317 Woodend Road Edwardsville, KS 66022 | KSD 980973515 |
| | STATE OF KENTUCKY | | | |
| | Ashland (\$20,000) | (4-075-01) | 1592 Wolohan Drive Ashland, KY 41101 | KYD 000776724 |
| | Ashland (\$20,000) | (4-075-01) | West Virginia & Kevin Aves. Ashland, KY 41105 | KYD 981027451 |
| | Lexington (\$20,000) | (4-090-01) | 264 Big Run Road Lexington, KY 40503 | KYD 020440459 |
| | Lexington (\$20,000) | (4-090-01) | 550 Blue Sky Parkway Lexington, KY 40509 | KYD 981027469 |
| | Louisville (\$20,000) | (4-091-01) | 751 Grade Lane Louisville, KY 40213 | KYD 091514653 |
| | STATE OF LOUISIANA | | | |
| | Pineville (\$20,000) | (6-073-04) | 4200 Shreveport Highway Pineville, LA 71360 | LAD 000757708 |
| | Tioga (\$50,000) | (6-073-04) | 518 Ryder Drive Pineville, LA 71360 | LAD 981057441 |
| | Kenner (\$20,000) | (6-115-01) | 14 26th Street Kenner, LA 70062 | LAD 089841902 |
| | STATE OF MARYLAND | | | |
| • | Baltimore (\$20,000) | (2-016-01) | 1448 Desoto Road Baltimore, MD 21230 | MDD 981034291 |

| (\$20,000) | (4 010 02) | Section G & H Glen Burnie, MD 21061 | 000/3/106 טעש |
|------------------------------------|------------|--|---------------|
| Silver Springs (\$20,000) | (2-058-01) | 12164 Tech Road Silver Springs, MD 20904-1980 | MDD 000737395 |
| STATE OF MASSACHUS | SETTS | | , |
| Bridgewater (\$20,000) | (2-022-03) | 128 Elm Street Bridgewater, MA 02324 | MAD 000846006 |
| Marlborough (\$20,000) | (2-022-02) | 50A Brigham Marlborough, MA 01752 | MAD 088978143 |
| Salisbury (\$20,000) | (2-022-01) | 189A Willow Street Salisbury, MA 01950 | MAD 060095569 |
| West Brookfield (\$20,000) | (2-184-01) | P.O. Box C Route 9 West Brookfield, MA 01585 | MAD 096287354 |
| STATE OF MICHIGAN | | | |
| Dearborn Heights (\$10,000) | | 5316 Cummings Avenue Dearborn Hts., MI 48125 | MID 980792998 |
| Saginaw (\$20,00 0) | (4-059-01) | 3899 Wolf Road Saginaw, MI 48601 | MID 981000607 |
| Grand Rapids (\$20,000) | (5-061-01) | 2700 Mullins Grand Rapids, MI 49505 | MID 981000615 |
| Mt. Clemens (\$20,000) | (4-055-01) | 44043 North Grosebeck Mt. Clemens, MI 48043 | MID 981091838 |
| Pontiac (\$20,000) | (4-055-02) | 751 Orchard Lake Road Pontiac, MI 48053 | MID 000722686 |
| Romulus (\$20,000) | (4-055-03) | 35201 Crane Road Romulus, MI 48174 | MID 000772694 |
| Mason (\$50,000) | (4-010-01) | 700 Zimmerman Road Mason, MI 48854 | MID 981000359 |
| STATE OF MINNESOTA | | | |
| Burnsville (\$20,000) | (5-103-02) | 1401 Cliff Road Burnsville, MN 55337 | MND 000686188 |
| Cloquet (\$20,000) | (5-050-01) | 1302 18th Street Cloquet, MN 55720 | MND 000686170 |
| St. Paul (\$20,000) | (5-103-01) | 180 Ryan Drive St. Paul, MN 55117 | MND 000823823 |
| Eagan (\$20,000) | (5-103-02) | 3227 Terminal Drive Eagan, MN 55121 | MND 981097884 |

| STATE OF MISSISSIPP | | | |
|-------------------------------|------------|---|---------------|
| Jackson (\$20,000) | (6-078-01) | 120 Richardson Drive Jackson, MS 39209 | MSD 000776765 |
| Southhaven (\$50,000) | (0-007-44) | 7217 Airways Avenue Southhaven, MS 38671 | MSD 981030894 |
| STATE OF MISSOURI | | | |
| Blue Springs (\$20,000) | (5-085-02) | 24016 East 40 Highway Blue Springs, MO 64015 | MOD 000669077 |
| Cape Girardeau (\$20,000) | (5-030-01) | Route 2, Box 549-D Cape Girardeau, MO 63701 | MOD 000669051 |
| Columbia (\$20,000) | (5-042-01) | 2405 Highway 63 North Columbia, MO 65201 | MOD 000669085 |
| St. Charles (\$20,000) | (5-160-03) | 4526 Towne Court, Lot #22 Harvestowne Industrial Park St. Charles, MO 63301 | MOD 095486312 |
| Springfield (\$20,000) | (6-193-02) | 734 Northwest Bypass 66 Springfield, MO 65802 | MOD 000669069 |
| Independence (\$50,000) | (5-085-02) | 901 Yuma Independence, MO 64056 | MOD 980973564 |
| STATE OF NEBRASKA | | | |
| Gering (\$20,000) | (6-052-03) | RR 1, Box 15E Gering, NB 69341 | MED 000687178 |
| Grand Island (\$20,000) | (5-065-01) | Highway 281 South Behind Grand Island Dodge Grand Island, NB 68801 | MED 000687186 |
| Omaha (\$20,000) | (5-127-01) | 14564 Grover Street Omaha, NB 68144 | NED 020185138 |
| Omaha (\$50,000) | (5-127-01) | Lamont & 139th St. Omaha, NB 68144 | NED 981495724 |
| STATE OF NEVADA | | | |
| North Las Vegas (\$20,000) | (7-087-01) | l655 Stocker Street North Las Vegas, NV 89030 | NVD 007096761 |
| STATE OF NEW JERSEY | 1 | | |
| Bound Brook (\$20,000) | (2-118-04) | 515 E. Main Street Bound Brook, NJ 08805 | NJD 000768077 |
| Yewark (\$20,000) | (2-118-02) | 32 Tompkins Parkway Newark, NJ 07114 | NJD 000768092 |

| Vincentown (\$20,000) | (2-139-04) | Rd. 4, Red Lion Road Vincentown, NJ 08088 | NJD 000768101 |
|------------------------------|------------|--|---------------|
| Clayton Recycle (\$155,000) | Center | Box 215, Almo Ind. Park Clayton, NJ 08312 | NJD 069039626 |
| Edgewater Park (\$20,000) | | 1520 Village Court Edgewater Park, NJ 08010 | NJD 980773477 |
| STATE OF NEW MEXI | <u>co</u> | | |
| Albuquerque (\$20,000) | (7-008-01) | 2720 Girard NE Albuquerque, NM 87107 | NMD 000804294 |
| Farmington (\$20,000) | (7-008-21) | 4200A Hawkins Road Farmington, NM 87401 | NMD 980698849 |
| STATE OF NEW YORK | | | |
| Avon (\$20,000) | (2-028-02) | 1525 West Henrietta Road Avon, NY 14414 | NYD 980753784 |
| Colonie (\$20,000) | (2-004-01) | Green Mountain Drive Colonie, NY 12110 | APPLIED FOR |
| Congers (\$20,000) | (2-118-01) | 68 North Harrison Avenue Congers, NY 10920 | NYD 000708164 |
| Amityville (\$20,000) | (2-118-08) | 80 Seabro No. Amityville, NY 11701 | NYD 000708198 |
| Latham (\$20,000) | (2-004-01) | 72 Sicker Road Latham, NY 12110 | NYD 000708206 |
| Mattydale (\$20,000) | (2-187-01) | Factory & Mitchell P.O. Box 56 Mattydale, NY 13211 | NYD 000824581 |
| Lackawanna (\$20,000) | (2-028-01) | 75 N. Gates Avenue P.O. Box A Lackawanna, NY 14218 | NYD 981556541 |
| Thornwood (\$20,000) | (2-118-05) | 9 Walnut Place Thornwood, NY 10594 | NYD 000708172 |
| Waverly (\$20,000) | (2-074-01) | Route 34 North Road #1 Waverly, NY 14892 | NYD 000708156 |
| Woodside (\$20,000) | (2-118-06) | 58-05 52nd Avenue Woodside, NY 11377 | NYD 980785760 |
| STATE OF NORTH CARO | LINA | | |
| Charlotte (\$20,000) | (3-031-01) | 2320 Yadkin Avenue Charlotte, NC 28205 | NCD 079060059 |
| | | | |

| Raleigh (\$20,000) | (3-171-01) | Sommerville Industrial Building Route 3, 6225 Old State Road Raleigh, NC 27603 | NCD 000776740 |
|-----------------------------|---------------------------------------|--|---------------|
| High Point (\$50,000) | (3-064-01) | High Point Building, Inc. Mendenhall Road High Point, NC 27263 | NCD 077840148 |
| St. Pauls (\$20,000) | (3-031-02) | Hwy. 301 North St. Pauls, NC 28384 | NCD 980846935 |
| STATE OF NORTH DAKOTA | <u>.</u> | | |
| Fargo (\$20,000) | (1-183-03) | 1537-1/2 First Avenue South Fargo, ND 58103 | NDD 000716738 |
| Bismarck (\$20,000) | (1-183-23) | 3704 Saratoga Bismarck, ND 58501 | NDD 980957070 |
| STATE OF OKLAHOMA | | | |
| Oklahoma City (\$20,000) | (6-124-01) | 7825 State Hwy. 152 Wheatland, OK 73097-0128 | OKD 980878474 |
| Tulsa (\$20,000) | (6-193-01) | 16215 East Marshall Street Tulsa, OK 74138 | OKD 000763821 |
| Oklahoma City (\$10,000) | | 2 NE 9th Street Oklahoma City, OK 73104 | OKD 018115469 |
| STATE OF OREGON | | | |
| Spring field (\$20,000) | (7-054-01) | 550 Shelley Street Space C & D Springfield, OR 97477 | ORD 000712067 |
| Clackamas (\$20,000) | (7-148-01) | 11843 SE Highway 212 Clackamas, OR 97015 | ORD 092895481 |
| Clackamas (\$50,000) | (7-148-01) | 16540 S.E. 130th Street Clackamas, OR 97015 | APPLIED FOR |
| STATE OF PENNSYLVANIA | | | |
| Kuhnsville (\$50,000) | (2-007-01) | SEMA Building, Main Street Kuhnsville, PA 18104 | PAD 980552020 |
| Clairton (\$20,000) | (4-145-02) | 670 Cochran Mill Road Clairton, PA 15025 | PAD 000738815 |
| Erie | (4-057-01) | 1606 Pittsburgh Avenue | DAD 00//70/07 |
| (\$20,000) Malvern | · · · · · · · · · · · · · · · · · · · | Erie, PA 16505 | PAD 086673407 |

| New Kingstown (\$20,000) | (2-067-01) | 10 Eleanor Drive New Kingstown, PA 17072 | PAD 000738823 |
|--------------------------------|-----------------|--|---------------|
| Stoystown (\$20,000) | (4-077-01) | Rt. 30, 1 Mile East of Stoystown Stoystown, PA 15563 | PAD 000738831 |
| Tullytown (\$20,000) | (2-139-01) | Bldg. PP, #9 River Road Tullytown, PA 19007 | PAD 065716813 |
| Westchester (\$20,000) | (2-139-03) | 1142 Greenhill Road Westchester, PA 19380 | PAD 000738849 |
| Wilkes-Barre (\$20,000) | (2-180-01) | 131 Second Street Plains Township Wilkes-Barre, PA 18705 | PAD 084872043 |
| STATE OF SOUTH CARO | OLINA | | |
| Greer (\$20,000) | (3-066-01) | Old Gilreath Road Greer, SC 29651 | SCD 981031040 |
| Lexington Recycle (\$300-,000) | Center & Branch | Route 5, Box 319 A Lexington, SC 29072 | SCD 077995488 |
| Florence (\$20,000) | (3-043-21) | Highway 301 South Florence, SC 29501 | SCD 980842785 |
| Summerville (\$20,000) | (3-179-21) | P.O. Box 2053 Rt. 17 A South Summerville, SC 29483 | SCD 980709299 |
| STATE OF SOUTH DAKO | <u>TA</u> | | |
| Sioux Falls (\$20,000) | : (1-183-05) | 2000 North Westport Avenue Sioux Falls, SD 57107 | SDD 000716696 |
| STATE OF TENNESSEE | | | |
| Dyersburg (\$20,000) | (6-051-01) | 2010 Brewer Rd. Dyersburg, TN 38024 | TND 981027410 |
| Knoxville (\$20,000) | (3-080-01) | 826 Stewart Knoxville, TN 37917 | TND 079025698 |
| Nashville (\$20,000) | (3-109-01) | 215 Whitsett Road Nashville, TN 37210 | TND 981474125 |
| STATE OF TEXAS | | | |
| Abilene (\$20,000) | (6-002-01) | 4234 Oil Belt Lane Abilene, TX 79605 | TXD 062287883 |
| Amarillo (\$20,000) | (6-009-02) | 3811 Interstate 40 East Amarillo, TX 79104 | TXD 000747410 |

| | Corpus Christi (\$20,000) | (6-048-01) | 3820 Bratton Road Corpus Christi, TX 78415 | TXD 000747402 |
|---|-----------------------------------|------------|---|---------------|
| | Denton Recycle Center (\$520,000) | | 1722 Cooper Creek Road Denton, TX 76201 | TXD 077603371 |
| | El Paso (\$20,000) | (6-056-01) | 900A Hawkins Blvd. El Paso, TX 79905 | TXD 000747394 |
| | Haltom City . (\$20,000) | (6-049-02) | 6529 Midway Road Haltom City, TX 76117 | TXD 981053416 |
| | Irving (\$20,000) | (6-049-01) | 2130A East Grauwyler Irving, TX 75061 | TXD 981052061 |
| | Longview (\$20,000) | (6-194-01) | 202 Michael Place Longview, TX 75602 | TXD 000747378 |
| | Lubbock (\$50,000) | (6-009-01) | l Mile East of Loop 289 On Highway 62 & 82 Lubbock, TX 79408 | TXD 000747436 |
| | McAllen (\$20,000) | (6-048-02) | 1/4 Mile North Jackson Road 1/8 Mile West International McAllen, TX 78501 | TXD 083145656 |
| | Midland (\$20,000) | (6-002-02) | 10043-B County Rd. 125-W Midland, TX 79711 | TXD 981054617 |
| _ | Missouri City (\$70,000) | (6-073-02) | l580 Industrial Road Missouri City, TX 77459 | TXD 010803203 |
| | Orange (\$20,000) | (6-073-03) | 3304 Womack Road Orange, TX 77630 | TXD 061290276 |
| | Pasadena (\$20,000) | (6-073-01) | 3333 Federal Road Pasadena, TX 77504 | TXD 000747386 |
| | San Antonio (\$20,000) | (6-169-01) | 5243 Sinclair Road San Antonio, TX 78222 | TXD 000729400 |
| | Waco (\$20,000) | (6-049-03) | Rt. 12, Box 911 Highway 84 West Waco, TX 76710 | TXD 980876015 |
| | Wichita Falls (\$20,000) | (6-049-04) | 1606 Missile Road Wichita Falls, TX 76306 | TXD 000747428 |
| | STATE OF UTAH | | | |
| | Salt Lake City (\$20,000) | (7-166-01) | 394 Ironwood Drive Salt Lake City, UT 84115 | UTD 052430741 |
| | Salt Lake City (\$20,000) | (7-166-01) | 1066 Pioneer Road Salt Lake City, UT 84104 | UTD 980957088 |

| STATE OF VERMONT | | | |
|-------------------------------|------------|--|---------------|
| Barre (\$20,000) | (2-105-01) | 23 West Second Street Barre, VT 05641 | VTD 000791699 |
| STATE OF VIRGINIA | | | (|
| Bristol (\$20,000) | (3-026-01) | 2146 King Mill Road Bristol, VA 24201 | VAD 981042955 |
| Chesapeake (\$20,000) | (3-121-01) | 4545 Bainbridge Blvd. Chesapeake, VA 23320 | VAD 000737346 |
| Chester (\$20,000) | (3-154-01) | 1200 West 100 Road Chester, VA 23831 | VAD 981043011 |
| Vinton (\$20,000) | (3-155-01) | Route 24 East of Vinton at O'Neal Drive Vinton, VA 24179 | VAD 000737361 |
| STATE OF WASHINGTON | | • | |
| Auburn (\$20,000) | (1-181-01) | 3210 C Street NE, Unit G Auburn, WA 98002 | WAD 000712059 |
| Lynwood (\$20,000) | (7-092-01) | 6303 212th Street SW, Suite C Lynwood, WA 98036 | WAD 000712042 |
| Pasco (\$20,000) | (1-183-02) | 814 E. Ainsworth Pasco, WA 99301 | WAD 980978746 |
| Spokane (\$20,000) | (1-183-01) | 9516 East Montgomery, Unit 16 Spokane, WA 99206 | WAD 000712034 |
| STATE OF WEST VIRGIN | IIA. | | |
| Nitro (Charleston) (\$20,000) | (4-075-02) | Rock Branch Industrial Park Nitro, WV 25143 | WVD 000737387 |
| Fairmont (\$20,000) | (4-145-23) | 345 Locust Fairmont, WV 26554 | WVD 980510895 |
| Wheeling (\$20,000) | (4-145-03) | 10 Industrial Park Dr. Wheeling, WV 26003 | WVD 981034101 |
| STATE OF WISCONSIN | | | |
| La Crosse (\$20,000) | (5-150-01) | 2109-1/2 Ward Avenue La Crosse, WI 54601 | WID 980896641 |
| North Prairie (\$20,000) | (5-100-01) | 113 Oakridge Drive, Lot 7 North Prairie, WI 53153 | WID 045130713 |
| Shawano (\$20,000) | (5-176-01) | P.O. Box 266 Shawano, WI 54166 | WID 000668822 |

| Madison (\$20,000) | (5-197-01) | 2325 Daniels Street Madison, WI 53704 | WID 980896633 |
|---------------------------------------|------------|--|---------------|
| New Berlin (\$10,000) | | 16675 W. Glendale Road New Berlin, WI 53151 | WID 066869751 |
| Kaukauna (\$20,000) | (5-176-01) | Kaukauna Ind. Park Kaukauna, WI 54130 | WID 981187297 |
| Waukesha (\$20,000) \$5,140,000 | (5-100-01) | 2200 S. West Avenue Waukesha, WI 53186 | WID 981097769 |

ARTHUR ANDERSEN & Co.

CHICAGO, ILLINOIS

To Safety-Kleen Corp.:

We have examined the consolidated balance sheets of SAFETY-KLEEN CORP. and SUBSIDIARIES (the "Company") as of January 3, 1987, and December 28, 1985, and the related consolidated statements of earnings and changes in financial position for the years then ended and expressed an unqualified opinion on those statements in our report dated February 6, 1987. We have not performed any auditing procedures since that date. Our examinations were made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

At your request, we have read the letter dated March 20, 1987, from your chief financial officer to the various administrators of the Federal and state Environmental Protection Agencies to demonstrate both liability coverage and assurance of closure care required by EPA regulations and have compared the data therein that are specified as having been derived from the audited financial statements for the years ended January 3, 1987, and December 28, 1985, referred to above with the corresponding amounts in those financial statements. In connection with this procedure, no matters came to our attention that caused us to believe that the specified data should be adjusted.

This report relates only to the data specified above and does not extend to the financial statements of the Company, taken as a whole, for the fiscal years ended January 3, 1987 and December 28, 1985. It is furnished solely for the use of the Company and the Company's distribution to the various administrators of the Federal and state Environmental Protection Agencies and is not to be used for any other purpose.

Arther Anderen & Co.

Chicago, Illinois, March 6, 1987.

REPORT OF INDEPENDENT PUBLIC ACCOUNTANTS

To Safety-Kleen Corp.:

We have examined the consolidated balance sheets of Safety-Kleen Corp. (a Wisconsin corporation) and Subsidiaries as of January 3, 1987 and December 28, 1985, and the related consolidated statements of earnings, changes in financial position and shareholders' equity for each of the three fiscal years in the period ended January 3, 1987. Our examinations were made in accordance with generally accepted auditing standards and, accordingly, included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the consolidated financial statements referred to above present fairly the financial position of Safety-Kleen Corp. and Subsidiaries as of January 3, 1987, and December 28, 1985, and the results of their operations and the changes in their financial position for each of the three fiscal years in the period ended January 3, 1987, in conformity with generally accepted accounting principles which, except for the change (with which we concur) in fiscal 1985 in the method of accounting for investment tax credits as discussed in Note 1, were applied on a consistent basis.

Our examinations were made for the purpose of forming an opinion on the basic consolidated financial statements taken as a whole. The supplemental schedules I, V, VI, VIII, and X are presented for purposes of complying with the Securities and Exchange Commission's rules and are not part of the basic consolidated financial statements. The supplemental schedules have been subjected to the auditing procedures applied in the examinations of the basic consolidated financial statements and, in our opinion, fairly state in all material respects the financial data required to be set forth therein in relation to the basic consolidated financial statements taken as a whole.

ARTHUR ANDERSEN & Co.

Chicago, Illinois, February 6, 1987.

I.F.2 FINANCIAL ASSURANCE FOR CLOSURE

Safety-Kleen Corp. is the operator of the Boynton Beach, Florida

Service Center. The cost for closure of the facility as estimated

above is assured through the use of the financial test specified in

Subpart H of 40 CFR Part 264. Exhibit I.F.1-2 shows the letter from

the Chief Financial Officer of Safety-Kleen Corp. to demonstrate the

financial responsibility for closure through the financial test.

I.F.3 LIABILITY INSURANCE

In accordance with the liability requirements of 40 CRF 264.147 and 265.147, Safety-Kleen Corp. has acquired insurance coverage for sudden accidental occurrences arising from operations of the service center facility. Exhibit I.F.3-1 presents the Hazardous Waste Facility Liability Endorsement from the National Union Fire Insurance Company of Pittsburgh, Pennsylvania. The coverage from this insurance policy is in the amount of \$2 million per occurrence with an annual aggregate of \$2 million; this combined coverage exceeds the minimum required in 40 CFR 264.147 and 265.147 for the protection of the environment and the health, safety and welfare of the people of the State of Florida.

HAZARDOUS WASTE FACILITY CERTIFICATE OF LIABILITY INSURANCE

1. National Union Fire Insurance Company (the "Insurer") of Pittsburgh, PA hereby certifies that it has issued liability insurance covering bodily injury and property damage to Safety-Kleen Corp., (the "Insured"), of 777 Big Timber Road, Elgin, Illinois 60120 in connection with the insured's obligation to demonstrate financial responsibility under Florida Administrative Code Rule #17-30.17. The coverage applies at

(SEE ATTACHED LIST) (FLORIDA)

for sudden accidental occurrences. The amounts of liability are \$2 million per each occurrence with annual aggregate of \$2 million, exclusive of legal defense costs. The coverage is provided under policy number GLA1579328 issued on October 1, 1985 to satisfy the requirements of Florida Administrative Code Rule #17-30.17. The effective date of said policy is October 1, 1985 and the ending date of said policy is October 1, 1986.

- 2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:
 - (a) Bankruptcy or insolvency of the Insured shall not relieve the Insurer of its obligations under the policy.
 - (b) The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the Insured for any such payment made by the Insurer.
 - (c) Whenever requested by the Director of the Environmental Resources, the Insurer agrees to furnish to the Department of Environmental Resources a signed duplicate original of the policy and all endorsements.
 - (d) Cancellation of the insurance, whether by the Insurer or the Insured, will be effective only upon written notice and only after the expiration of sixty (60) days after a copy of such written notice is received by the Department of Environmental Resources.
 - (e) Any other termination of the insurance will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Department of Environmental Resources.

I hereby certify that the wording of this instrument is identical to the wording specified in the Florida Administrative Code Rule #17-30.17. as such regulations was constituted on the date first above written, and that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus lines insurer, in one or more states.

John T. Kelly, Senior Vice President

Authorized Representative

National Union Fire Insurance Co.

222 South Riverside Plaza Chicago Illinois 60606

STATE OF FLORIDA

| Safety-Kleen Corporation 161 Industrial Loop South Crange Park, Florida 32073 FID 980 847 214 | 3-079-01 |
|--|----------|
| Safety-Kleen Corporation 3082 West Thorpe Street Tallahassee, Florida 32303 FID 000 776 773 | 3-079-02 |
| Safety-Kleen Corporation 16086 SW 4th Avenue BLDG B, Bay 30 Delray Beach, Florida 33447 FID 000 7776 757 | 3-097-01 |
| Safety-Kleen Corporation 7875 NW 54th Street Miam, Florida 33166 FID 980 840 846 | 3-097-02 |
| Safety-Kleen Corporation 464A Plumosa Drive P. O. Box 835 Casselberry, Florida 32707 | 3-130-01 |

Safety Kleen Corporation 4701 N. Manhattan Tampa, Florida 33614 FLD 049 557 408

FLD 097 837 983

3-163-01 (Old)

Safety-Kleen Corporation 24th Avenue and 54th Street Tampa, Florida 33605 FLD 980 847 271 3-163-0 (New)

3-163-02

Safety-Kleen Corporation 19200 Peachland Boulevard Port Charlotte, Florida 33949 FLD 000 776 716 PART II

CONTAINERS

II.B.1 CONTAINMENT

The immersion cleaner is always contained in partially filled, 16-gallon, covered drums before, during, and after its use. Until receipt at the recycle center, the immersion cleaner is never transferred to another container. The drums containing the used immersion cleaner are returned to the service center and stored in a designated drum storage area before shipment to the recycle center.

The dry cleaning wastes are contained in 30- and 16-gallon drums, in lined boxes and in polyethylene filter tubes. Paint wastes are stored in 5-gallon and 16-gallon drums. These containers are managed similarly to the used immersion cleaner drums and contents within the drums will not be transferred or processed at the service center. They are not removed from the containers until receipt by a reclaimer.

The drum storage area as shown on Exhibit I.B.3-7 occupies a portion of a building area which has a sloped concrete floor and interceptor trench which form a 2,464 gallon spill containment system. The system is free of cracks and gaps. Spills are removed by a hand-held, portable electric pump (the COMS pump), wet-dry vacuum cleaner, or sorbent materials. The capacities of the containment systems are designed to be greater than 10% of the total liquid storage capacity in the drum storage area. Since the characteristics of the stored wastes are known, no quantitative analyses are performed for the materials stored in the containment area.

All containerized wastes are sent to a reclaimer. The materials that can not be effectively reclaimed are sent to a licensed facility for disposal.

All drums are transported, moved, and stored carefully in an upright position. The route trucks are equipped with an electric hoist to assist loading/unloading. In the warehouse area, the immersion cleaner, mineral spirits dumpster sediment drums, dry cleaning and paint waste containers are moved either with 2-wheel hand trucks and stacked by hand or with a pallet jack or forklift. All drums will be elevated on pallets to eliminate the possiblity of drums standing in spilled solvent.

The drums are designed and constructed to be compatible with the stored material and to minimize the possibility of breakage and leaking in accordance with the specifications in Exhibits I.E.3-1 to I.E.3-5.

The drum storage area has adequate secondary containment capacity (2,464 gallons) for handling the 6,912 gallons of waste to be stored.

Since none of the wastes handled by Safety-Kleen react with metal or polyethylene, compatibility is assured. Immersion cleaner, dry cleaning waste, and paint waste containers are never opened at the branch. None of the wastes are incompatible; however, solvents are

segregated for quality assurance purposes. Only mineral spirits is placed in red drums, only immersion cleaner in gray, only perchloroethylene in blue steel or black polyethlene drums, in boxes or in polyethylene filter tubes and only paint waste in black steel containers.

The drum storage areas is located indoors and containment system consists of a sloped concrete floor and a sump which prevent both run-on and run-off.

II.B.2. WASTE COMPATIBILITY

The used mineral spirits immersion cleaner, dry cleaning and paint wastes are not incompatible with each other, or with other materials handled at this facility as far as reactivity is concerned. However, they are the primary source of feed stock for regenerating the clean solvents. Separation of these used solvent and dry cleaning wastes is a standard practice at the service center.

All material stored at the service center is managed in accordance with local fire protection code and fire department recommendation.

Drum storage configurations are shown of Exhibit I.B.3-7.

II.B.3 INCOMPATIBLE WASTES

See above, Section II.B.2., eighth paragraph.

II.B.4 PROCEDURES FOR LEAKING CONTAINERS

Specific procedures for inspection and management of leaking containers are presented in section I.E.4.

II.B.5 INSPECTION PROCEDURES

See Section I.E.4.

II.B.6 CLOSURE PLAN

A closure plan for the entire facility is presented in Section I.F.

PART III

TANK STORAGE

III.A.1 MATERIAL COMPATABILITY

The facility consists of two aboveground steel tanks. Used mineral spirits in drums is transferred into a 12,000-gallon tank via the wet dumpster. The used solvent is transported, by bulk shipment, to the recycle center. Another 12,000-gallon tank is used to store mineral spirits product.

Mineral spirits is compatible with the mild steel tank structure; in fact, mineral spirits is often used as a light hydrocarbon coating to prevent rusting of metal parts. Mineral spirits has a specific gravity less than water (0.8) and any water will accumulate in the bottom of the tank. There is the potential for corrosion of the tank at the mineral spirits/water interface; however, the material is pumped from the bottom of the tank so corrosion is minimized.

III.A.2 TREATMENT PROCESSES

There are no treatment processes at this facility.

III.B.1 TANK DESIGN AND OPERATION PROCEDURES

The tanks are designed and constructed to be compatible with the materials stored in them. Typical construction and installation standards for the aboveground tanks are shown in Exhibits I.E.3-6 and I.E.3-7, respectively. All tanks are vented in accordance with N.F.P.A. Standards, and the tanks are equipped with high level

alarms. The design and installation of the tank alarm system are shown in Exhibits I.E.3-8 and I.E.3-9.

All tanks are aboveground, underlain by a 6" concrete slab, and surrounded by a 36" concrete dike. Therefore, no surface runoff would be in contact with the wastes stored at the site and no runoff collection and management system is deemed necessary.

Gauges are used to measure liquid levels in tanks and automatic high level alarms will signal the tank's being 95% full. A suction pump equipped with the tanker truck is used to withdraw the content from the tank. No other equipment or standby equipment is used in the operation of the aboveground tanks.

III.B.2 INSPECTION PROCEDURES

See Section I.E.4.

III.B.3 CLOSURE PLAN

See Section I.F.