AVTEX FIBERS FRONT ROYAL INC. AVTEX FIBERS SITE

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APPENDIX A
PERSONNEL RESUMES

ADMINISTRATIVE ORDER
Docket No. III-90-01-DC

Prepared for U.S. Environmental Protection Agency Hazardous Waste Management Division

Region III

November 7, 1989

AVTEX FIBERS FRONT ROYAL INC.

Kendrick Lane
P.O. Box 1169

Front Royal, Virginia 22630

APPENDIX A

PERSONNEL RESUMES

This appendix contains resumes of personnel assigned to this project from the following companies:

Avtex Fibers Front Royal, Inc.
Alliance Technologies Corporation (Resumes included in Statement of Qualifications
S.D. Myers, Inc.
Conco
Chemical Waste Management, Inc.



AYTEX FIBERS SITE

AVTEX FIBERS FRONT ROYAL INC. PERSONNEL AND QUALIFICATIONS

ADMINISTRATIVE ORDER Docket III-90-010-DC

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Region III

November 1989

AVTEX FIBERS FRONT ROYAL INC. Kendrick Line P. O. Box 1169 Front Royal, Virginia 22630

C. KENNETH WAGNER 11 Portsmouth Road Front Royal, VA 22630 Home phone (703) 636-2109 Office phone (703) 635-2141, Ext. 110

OBJECTIVE

Management responsibility in a position where my skills will be utilized; where commitment to my employer is required; and where there is an opportunity to make a meaningful contribution to the success of the operation.

SUMMARY:

I am an experienced professional with a solid record of promotion in the management of a large multi-product synthetic fibers producing corporation. Have training in maintenance management, project management, budget management, and a proven record of an ability to work well with people, supervisors, peers, and subordinates.

EXPERIENCE:

All experience has been with American Viscose Corporation and its successors, FMC Corporation and Avtex Fibers Inc. except for a two-year tour of duty in the U. S. Air Force.

1/87 - Present

AVTEX FIBERS FRONT ROYAL INC., Front Royal, VA Vice President - Engineering

Bottom line responsibility for all design, funding, procurement and cost control of capital projects and all maintenance functions in the Plant. Member of the Corporate operating Extensive experience in negotiation with state committee. and federal agencies, contractor firms, vendors and suppliers, and union negotiations both corporate and local. purchase of capital and repair material with purchasing staffs to control cash flow and at the same time meet project deadlines. Develop and coordinate priority systems for allocation of personnel and equipment to maintain and operate the plant facilities within funds available. Develop and initiate cost reduction projects to provide additional capital upgrade plant facilities. Responsible for directing activities of approximately 35 salary and 300 hourly employees and an annual budget of approximately \$20,000,000.

8/79 - 1/87

Assistant Plant Manager - Engineering
Basically the same job description and functions as described above. Job title changed with reorganization of overall corporate structure making the Front Royal plant a separate corporation. During the past 6 years as either V.P. of Engineering or Assistant Plant Manager - engineering budgets were met to within ± 0.1% annually.

12/77 - 8/79

Reported to Assistant Plant Manager - Engineering. Responsible for all maintenance functions within the Front Royal plant. Assisted in developing a meaningful work order system for the plant so as to determine priority, scope of work, cost estimating, plant and corporate approvals, and then overseeing material procurement and directing the implementation of the scope of work. Develop and administer a planning and scheduling function with the Engineering Department to coordinate interest in the assignment of personnel to most efficiently execute the scope of work with minimum lost time and unnecessary expense. Direct responsibility for approximately 25 salary and 300 hourly employees.

32

*1*9/75 - 12/77

Chief Plant Engineer

This assignment was at our Radford, Virginia plant. entailed establishing an engineering department in a relatively new plant. Planned and implemented preventative maintenance program, developed and implemented a job training program for hourly craftsmen, prepared and administered budgets and budget control systems. Developed and implemented training programs for foremen and supervisors to enhance their ability to lead and motivate personnel. During the period I served at the Radford plant, the maintenance costs were reduced by 50% and the machine running efficiency was increased by about 75%. It was during this period that FMC sold their fibers operations to Avtex Fibers Inc.

8/72 - 9/75

Project Manager

This assignment was at our FMC Fibers Division, Central Engineering group in Media, PA. Responsibilities covered aspects of Project management from conception fulfillment. Develop engineering scopes from manufacturing scopes, supervise all phases of the project design. Select equipment vendors and contractors, prepare bid requests, analyze bid returns and select successful vendors and prepare purchase requisitions. Develop critical path charts and develop project Develop follow-up procedures to insure project completion on schedule and within budget limitations. Project budgets ranged from \$60,000 to \$10,000,000 and up to 15 projects were being supervised simultaneously at several of our plants. All projects supervised were completed on schedule and within budget limits. to be stored

2/63 - 8/72

Plant Engineer

This position was at our Lewistown, PA plant. Duties were much the same as the Assistant Plant Manager - Engineering the Front Royal plant as described above. responsibility for approximately 40 salary and 550 hourly personnel including approximately 6 graduate engineers. this period, FMC Corporation purchased all physical assets of The American Viscose Corporation.

Loni is

1/62 - 2/63

Maintenance Engineer

This position was at the Lewistown, PA plant. Duties included direct supervision of 2 Maintenance Supervisors, 1 Utility Supervisor, 5 office personnel and indirect supervision of 700 hourly personnel approximately and 25 Responsibilities included the manning distribution for all maintenance functions of the operating and service departments and all capital projects assigned by the Plant Engineer to Acted as liason between plant personnel and plant forces. contractor supervision on all capital projects assigned for contractor completion.

8/56 - 1/62

Staff Engineer

This position was at our Lewistown, PA plant. Duties included scoping and estimating both capital and maintenance work Coordinate originations with plant staff members and/or department heads. Design with drafting department Select, procure and expedite materials required and coordinate with the maintenance engineer to insure efficient execution of the job or projects. Individual projects varied from budgets of \$5,000 to \$1,000,000. Up to 100 projects 183 ongoing simultaneously.

(Continued)

8/54 - 8/56

United States Air Force Aircraft Maintenance Officer

Responsible for total maintenance of seventeen B-47 aircraft and supervision of staff of approximately 74 non-commissioned officers and airmen. Attained the rank of 1st Lieutenant. This was one of three squadrons in the wing and I was successful in attaining the highest percentages of successful missions both routine and max efforts on unscheduled alerts of the three squadrons.

6/53 - 8/54

Junior Engineer
This position was at our Lewistown, PA plant. This was entry level from college and my primary assignment was that of pipefitter foreman. Responsible for the day to day supervision of approximately 50 hourly personnel. This position gave me the opportunity to develop my managerial skills and my ability to work with other people successfully.

EDUCATION:

Massachusetts Institute of Technology BS - Mechanical Engineering - 1953

U. S. Air Force Maintenance Officer School Chanute AFB, Rantoul, IL - 1955

REFERENCES:

David A. Tousignant, President Avtex Fibers Front Royal Inc. P. O. Box 1874 Middleburg, VA 22117 (703) 687-5359

John N. Gregg President & CEO Avtex Fibers Inc. 221 South Aberdeen Avenue St. David's, PA 19087 (215) 687-2348

John G. Knight
Vice President (Retired)
Avtex Fibers Front Royal Inc.
501 Ross Avenue
Front Royal, VA 22630
(703) 636-2702

C. Ray Enicks
Plant Manager (Retired)
139 Gloucester Road
Front Royal, VA 22630
(703) 635-7310

Eldon E. Campbell Plant Manager (Retired) 1005 Horseshoe Drive Front Royal, VA 22630 (703) 735-8176

Charles M. Huber, MD 315 West 10th Street Front Royal, VA 22630 (703) 736-6131

Ralph S. Markee Executive Vice President Avtex Fibers Front Royal Inc. Route 1, Box 3483 Front Royal, VA 22630 (703) 635-5714 Paul J. Halina Jr.

RIDUCATION:

BSME 1974, New Jersey Institute of Technology (NCE) Society of Professional Advancement, Brunswick, NJ. Pnuematic Conveying of Bulk Solids, Polymer Extrusion Hercules Inc., Management School

EXPERIUENCE:

5/89- Avtex Fibers Front Royal, Inc.

Present <u>Utilities Engineer:</u>

Duties include all facets of Powerhouse Dept. Head for Steam Generation & Turbine operation. Proj. Mgr. EPA regulatory compliance on Underground Storage Tanks and PCB detection and clean-up. (Supervise 5 Sal. & 39 Hrly).

2/89- Callaghan Consultants, Inc.

Present Owner:

Consulting Engineering work for local and national Industry.

Continuing growth.

9/88- Murray Machinery, Inc.

2/89 Plant Manager:

Duties included total Plant management of 9.5 million dollars active fabrication work (pulp & paper machinery, chip mill equipment) Accountable for 40 wage-roll/salary personnel. Position consolidated and eliminated due to Corporate Take-over.

9/84- Hi-Line Machine, Inc.

7/88 Plant Engineer:

Accountable for all phases of manufacture (fabrication & machine shops). Design, Building modifications, Government estimating/contract bidding/contract administration (familiar with QAR, FAR, & MIL standards) Personnel relations (hiring, terminations/policy). Operating procedures, Corporate Safety, OSHA enforcement, R&D. Accountable for 40 wage-roll and salary personnel.

Lost employment due to Total Corporate lay-off and eventual

101185

Company closure.

7/74- Hercules Inc.

8/84 <u>Multi-Plant supervising Project Engineer:</u> \$40,000/yr.
Accountable for capital expenditures for 3 plants (\$6.5 million)
Supervised 11 Engineers/3 Draftsmen
(1/82-8/84)

Plant Engineer:

Accountable for Engineering and Maintenance for an Ammonium Nitrate and Nitric Acid Plant. (\$1.5 million maintenance/\$3.0 million capital) Accountable for 15 wage-roll /salary personnel.

11/80-1/82

Promoted

Project Engineer/Senior Design Engineer:

Project work \$1k-38.5 Million for polypropolene Fiber/Film Plant (Field engineer on construction of \$38.5 million Film Plant, Equipment setting/start-up/trouble shoot, piping. HVAC, Structural installation. 2.5 yr. project)
7/74-11/80 Promoted.

74-75 Jackson River Vocational Center
Night School Automotive Instructor
85-86 Apprentice Blue Print Reading Instruc

85-86 Apprentice Blue Print Reading Instructor

PERSONAL:

Married, seven children Purchasing home

SKILLS:

Custom Paint work (conventional-electro static)
Welding (MIG/Stick, FLuxcore, Sub-arc)
NDT (dye-penetant, mag-particle, X-ray)
Machine operation (Mills,Lathes,Punch presses,Brake press)
Drafting & Design
Woodworking/cabinet making
Government DOD Contracting
Affiliated with ASME & NSPE
EPA, PCB, and RCRA Project Management

REFERENCES UPON REQUEST

AVTEX FIBERS FRONT ROYAL INC. AVTEX FIBERS SITE

ALLIANCE

Technologies Corporation

Contractor qualifications and personnel resumes for ALLIANCE Technologies Corporation are included in APPENDIX F of this WORK PLAN.

ADMINISTRATIVE ORDER

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U. S. Environmental Protection Agency

Region III

November 1989

AVIEX FIBERS FRONT ROYAL INC.

Kendick Lane
P. O. Box 1169

Front Royal, Virginia 22630

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S. D. MYERS / TRANSFORMER CONSULTANTS PERSONNEL AND QUALIFICATIONS

SECTION 8.2

ADMINISTRATIVE ORDER

Docket III-90-010-DC

Prepared for

U. S. Environmental Protection Agency

Region III

Hovember 1989

AVTEX FIBERS FRONT ROYAL INC.

Kendrick Lane
P. O. Box 1169

Front Royal, Virginia 22630

RESUME OF

LYNN A. PRITZ

Mr. Fritz has twelve years of diversified experience in handling, labeling and transportation of hazardous materials for S.D. Myers, Inc. He is authorized by the state of Maryland to conduct Controlled Hazardous Substance Drivers Training Programs.

WORK EXPERIENCE

S.D. Myers, Inc. 180 South Ave. Tallmadge, OH 44278

FIELD SERVICE MANAGER (7/87 - Present)

Responsibilities:

Interactions and negotiations with federal, state and local regulatory agencies. Regulatory compliance with DOT and TSCA.

Development and implementation of hazardous waste handling and drivers training programs.

Inspections of outside carriers for compliance to regulations.

Semi-annual updating sessions with all drivers and crew to keep all practices in line with law changes.

FIELD SERVICE PRODUCTION SUPERVISOR (1/86 - 7/87)

Responsibilities:

Directing the movement of all hazardous waste material by the Field Service Division throughout the United States. Monitor driver and jobsite personnel for compliance to all regulations. Insure that all vehicles are maintained according to federal and state standards.

FIELD SERVICE CREW LEADER (1/80 - 1/86)

Responsibilities:

Direction of all ensite activities prior to and during the handling of hazardous waste.

Inspection of finished loads for proper labeling, loading and manifesting.



DAVID P. BICHSEL

AUGUST 8, 1982

Experience
Six years experience in fluid handling and PCB removal. David has supervised all types of PCB cleanup work in more than feven states. His responsibilities include labeling, manifesting, packaging, supervising of crews, and evaluating needs of the customer for compliance. He is also certified by the state of Maryland to haul hazardous waste.

MARK ROBERTS

JULY 28, 1986

Experience
Mark has completed all of the S. D. Myers safety and environmental training.
He has supervised crews on jobs in Texas, Tennessee, New Jersey, Ohio, and
Michigan. His responsibilities include all aspects of compliance as well
as development of grid samples to determine the extent of customer contamination.

AVTEX FIBERS FRONT ROYAL INC AVTEX FIBERS SITE

STEAM KAT HAZ MAT of VA

PERSONNEL AND QUALIFICATIONS

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U. S. Environmental Protection Agency

Region III

November 1989

AVTEX FIBERS FRONT ROYAL INC.

Kendrick Lene
P. O. Box 1169

Front Royal, Virginia 22630

Corporate Summary:

STEAM KAT HAZ MAT OF VIRGINIA

Steam Kat Haz Mat of Virginia is one of three operational divisions of Clean America, Inc, of Baltimone, MD. As such it is has only one year existance but key personnel and total coporate history include five years environmental compliance contracting work. The corporate predecessor organization to Steam Kat Haz Mat completed projects in five states. These projects included compliance work under the Clean Water Act, Resource Conservation and Recovery Act, Toxic Substances Control Act, Comprehensive Environmental Response, Compensation and Liability Act and Superfund Amendment and Reauthorization Act. Field crews of up to twelve men have worked on a 24-hour basis under all types of weather and terrain Crews have operated as far away from the corporate conditions. office in Richmond, VA, as Philadelphia and San Francisco. Compliance, recovery and clean up work has typically involved coordinating strategies and tactics with the client, various state and federal regulatory agencies and disposal facilities. Technical abilities include preparing a delisting petition under the Resouce Conservation and Recovery Act and drafting an environmental the under California Department assessment polychlorinated biphenyl clean up standards.

W. BRYANT BARNES

Service Services

Carlot West

EDUCATION:

J.R. Tucker High School. 1969

EXPERIENCE:

Eight years experience in all aspects of corporate environmental compliance from sales to project management to personal supervision of up to 40-man work crews involved in all aspects of compliance with Clean Water Act, Resource Conservation and Recovery Act, Toxic Substances Control Act and Comprehensive Environmental Response, Compensation and Liability Act. Projects and response actions include emergency response to oil spills, pipeline ruptures, train derailments, truck accidents, in-plant hazardous materials and waste spills; underground recovery and remediation and delisting of RCRA-regulated wastes. Over one dozen polychlorinated biphenyl (PCB) decontamination projects from Virginia and Maryland to California.

GEORGE C. WALTON

EDUCATION:

Penn State University. MS - Biology. 1974

U S Army Explosive Ordnance Disposal School. 1976

U S Environmental Protection Agency Response Manager Operations Course. 1985.

CERTIFICATIONS:

Certified Hazardous Materials Manager (Master Level) Certified Safety Executive Fellow, American Institute of Chemists

EXPERIENCE:

Fourteen years experience in all phases of emergency response and environmental compliance from recovery of military and commercial explosives to commercial hazardous materials and wastes. Served as part of an EPA Regional Response Team and worked on sixteen Superfund sites and over three hundred emergency response and hazardous waste disposal projects in 26 states. Conducted hazardous waste operation and emergency response (HazWOPER) training programs as well as compliance programs for the Virginia Emergency Management Association and the Virginia Environmental Health Association.

DONNIE B. BARNES

EDUCATION:

Randolph Henry. 1985 CFR 1910.120). 1988

EXPERIENCE:

Five years operational experience in oil and hazardous waste clean up and disposal. One years experience as office manager of full service environmental response company. Specific duties included hands-on recovery of oil, hazardous chemical materials and polychlorinated biphenyls (PCBs). In addition, supervision of small field crews involved in all types of environmental operations under a wide variety of conditions and circumstances to include adverse access and weather.

JACKIE MC ALLISTER

EDUCATION:

Prince Edward Academy. 1960 OSHA HazWOPER Training (40 CFR 1910.120). 1988.

EXPERIENCE:

Five years experience managing field crews involved in hazardous waste and emergency response operations. Specific projects included recovery, identification, transportation and disposal of hazardous waste in accordance with Resource Conservation and Recovery Act (RCRA; 40 CFR 260-267). In addition, supervised crew decontaminating polychlorinated biphenyl's (PCBs) form a transformer facility in accordance with the Toxic Substance Control Act (TSCA; 40 CFR 760) and California health standards.

ERIC M. BANE

EDUCATION:

Fishburne Military School, Waynesboro, VA. 1982 Ferrum College, Ferrum, VA. 1987. BS - Envuironmental Science OSHA Hazwoper Training (40 CFR 1910.120). 1988 Chlorine Safety Seminar. 1988

LICENSE:

Commonwealth of Virginia Class III Water/Wastewater Treatment Plant Operator.

EXPERIENCE:

Two and one-half years experience in environmental compliance. Experience includes operation of a 7 MGD (million gallons per day) wastewater treatment plant and independent operation of a 2 MGD drinking water filtration plant serving approximately 20,000 residents. Additional experience includes Resource Conservation and Recovery Act (RCRA) recovery, identification, transportation and disposal of hazardous waste and emergency response. Field duties included monitoring and sampling of air and water, preparing hazardous waste for transportation and supervision of small work crews. Supervision includes daily management of remediation crew decontaminating polychlorinated biphenyl's (PCBs) from an operational factory in accordance with federal (TSCA; 40 CFR 760) and California standards

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CONCO

PERSONNEL AND QUALIFICATIONS

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AVTEX FIBERS FRONT ROYAL INC.

Kendrick Lane
P. O. Box 1169

From Royal, Virginia 22630

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ROB INSON PIPE CLEANING COMPANY PERSONNEL AND QUALIFICATIONS

SECTION 8.

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AVTEX FIBERS FRONT ROYAL INC.

Kendrick Lane
P. O. Box 1169

Front Royal, Virginia 22630

HAZARDOUS WASTE CLEANING

Robinson Pipe Cleaning Company has cleaned approximately 60,000' of 6" - 72" storm and sanitary sewers, removing Dioxin and other hazardous chemicals. This project covered the Love Canal area of Niagara Falls, New York, and took approximately four months to complete. All of our equipment had to be decontaminated before returning to our home base.

Robinson Pips Cleaning Company is one of the most experienced environmental contractors in the nation.

OCT 18 '89 12:42 ROBINSON PIPE CLEANING CO. 84 PA ROBINSON PIPE CLEANING CO.

10/18/89 Post-It* brand fax transmittel r	merno 7671 Par pages > 2
"Tom Malina	From BILI Burchell
co. Autex Fibers	ROBINSON P.pe
Dept.	Phone Cleaning Co.
1416-529-80141	1-412-228-5624

RESUME OF ROBERT J. MCMILLEN

1

Started with Robinson Pipe Cleaning Company as a laborer in 1972 and worked his way up to Assistant Superintendent for all of our various services, specializing in closed-circuit television inspection. Bob McMillen spent several months supervising and working with the New York State Department of Environmental Conservation in the cleaning of storm and sanitary sewers in the Love Canal area of Niagara Falls, New York.

RESUME OF WILLIAM A. BURCHELL

Started with Robinson Pipe Cleaning Company in 1986. 12 years prior experience in Coke Plant, By-Product Steel Making Facilities, Chemcial Plants and Power Stations at different levels of management - Foreman, Superintendent, Manager and Vice-President.

RESUME OF MICHAEL J. LONG

Started with Robinson Pipe Cleaning Company in 1976. His capacity with Robinson Pipe Cleaning Company is supervisory at this time, promoted to general manager in January, 1979. Mr. Long is our safety co-ordinator; is involved in our sales and bid responsibilities.

RESUME OF EVELYN N. FUNKA

Started with Robinson Pipe Cleaning Company as a secretary in 1958, Mrs. Funka is now Secretary-Tressurer of the Corporation. She also handles the duties of Controller and Office Manager.

RESUME OF CLARENCE JONES

Has 13 years of experience in the field of storm and sanitary sewer ... cleaning as a working foreman. He also has years of experience in the rodding of conduit and placing of fiber optic cable for the telephone companies.

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AVTEX FIBERS FRONT ROYAL INC. AVTEX FIBERS SITE

CONCO

PERSONNEL AND QUALIFICATIONS

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U.S. Environmental Protection Agency

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November 1989

AVTEX FIBERS FRONT ROYAL INC.

Kendrick Lane
P. O. Box 1169

Front Royal, Virginia 22630

CONCO CORP. LAWNSIDE, N.I.

Prime contractor employed to install hydraulic cement in sump inverts throughout the sewer system. See detailed sketch. This firm is employed on the plant site for many typical construction projects in the concrete, insulation, and masonary areas.

The work plan consists of thirty (30) manholes locations from A-44 thru outfall 003. Two 12 hour shifts will be utilized until the scope of work is completed. Air monitoring and proper entry safety precautions will be utilized at all times. Pnuematic membranes will be used to plug flow into and out of the sumps until the concrete installation is complete.

Personnel and Qualifications

E. Fletcher - Superintendent
22 yrs. military service
20 yrs. construction, brick mason, concrete finisher, coatings specialist, foreman, and superintendent.

E. Noffsinger - Brick mason
15 yrs. concrete finisher and foreman

J. Lutek - Brick mason

5 yrs concrete finisher and foreman

AYTEX FIBERS FRONT ROYAL INC. AYTEX FIBERS SITE

CHEMICAL WASTE MANAGEMENT INC. PERSONNEL AND QUALIFICATIONS

SECTION 8.2

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Region III

November 1989

AVTEX FIBERS FRONT ROYAL INC.

Kendrick Lane
P. O. Box 1169

Front Royal, Virginia, 22630



TECHNICAL SERVICES JOB POSITION TRAINING REQUIREMENTS LIST

Position Title: Field Analyst/Project Leader			
Prep	ared By:	JOHN BAKER	
		(Name/Title/Signature)	
Appr	ovals:		
1.	General M	ing such that it is a second of the second o	
- •		Amager: (Name/Signature/Date)	
2.		. Services	
	Operation	s Manager:	
		(Name/Signature/Date)	
A.	GENERAL I	RAINING	
•••	<u> </u>		
	1.000 1.10 1.20 1.30 1.40	New Employee Orientation (mandatory for all new employees) Introduction Welcome to the Company CWM's Environmental Policy Regulation Compliance CERCLA Overview	
	2.000 2.10 2.20 2.21 2.22 2.23 2.24 2.25	Basic Safety Training(1) Environmental and Chemical Hazard Recognition Hazardous Waste Characteristics and Basic Control Methods Chemical Properties of Hazardous Materials Basic Toxicology TLVs and PELs Hazard Communication Standards and Information Sources (2)(3) Medical Surveillance Overview(2)	
	2.26 2.30 2.31 2.32	Employee and Environmental Monitoring Personnel Protective Equipment(3) Fundamentals of PPE(3) Fundamentals of Respiratory Protection(3)	
	2.33	Air Purifying Respirators(3) Basic Protective Equipment (Level C) Inspection, Donning and Removal(3)	
	2.35 2.36 2.40 2.50 2.60 2.70	Supplied Air Respirators(3) Advanced Protective Equipment (Level B)(3) Heat Stress and Dermatitis Hearing Conservation Orientation Generic Site Safety Plan Review Site Control and Decontamination	
*	2.80	Site Evaluation and Preparation Overview	

Technical Services Job Position Training Requirements List Page 2

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- (1) Mandatory for employees who will work at project sites full or part-time.

 (2) Must be completed by office employees.

 (3) Armual refresher training is required.

 (4) Refresher training is required every 3 years.

B. JOB-SPECIFIC TRAINING

Record in the space provided the course descriptions from the Master List that are required for job position duties (attach additional pages listing these courses if necessary).

1.000	Waste Analysis Plan
1.20	Analysis Requirements
1.30	Sample Collection Procedures
1.40	Sample Analysis Methods
1.50	Container Marking
2.000	Materials Handling
2.10	Lifting Techniques .
2.20	Drum Handling Safety
2.30	Drum Sampling, Classification, Staging and/or
	Transport
2.40	Liquids Pumping and Bulking
2.70	Lab-Pack Preparation and Shipment
2.80	Explosives Handling
2.90	Radioactive Materials Identification and Containment
2.100	Compressed Gas Cylinder Handling
2.110	Tockout (1) Tweeth Tolerand
2.140	Grounding and Bonding (2)
2.150	Confined Space Entry (3)
2.160	Operation of Hand and Power Tools
2.170	Air Compressor Care, Use and Limitations
2.200	On-Site Storage
	The state of the s
3.000	Equipment/Vehicle Inspection, Operation of Forklifts
	Over-the-Road Vehicles (Forklifts, Trucks, Fume Hood
3.20	On-Site Storage Area (Forklifts)
3.50	Off-Site Transport Vehicles (Trucks)
4.000	Equipment/Vehicle Corrective Maintenance Including
	Inspection of (Forklifts, Trucks, Fume Hood)
4.20	On-Site Storage (Forklifts, Trucks, Fume Hood)
4.40	Off-Site Transport Vehicles (Trucks)
6,000	Phase I Regulatory Compliance Procedure Training (1)
6.20	On-Site Storage
	PAP
	*Vehicle/Container Inspection RCRA
	*TSDF Waste Acceptance Standards
ALC: NO SERVICE	*Lab-Pack Manual
	°EPA Standards
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B. JOB-SPECIFIC TRAINING - (CONTINUED)

Record in the space provided the course descriptions from the Master List that are required for job position duties (attach additional pages listing these courses if necessary).

6.40	Off-Site Transport
	*DOT Hazardous Materials Shipment
	PAP
	*Vehicle/Container Inspection RCRA
	*TSDF Waste Acceptance Standards
	*Lab-Pack Manual
6.50	Laboratory
	PAP
	*Lab-Pack Manual
 _	
8.000	Project Management Procedures
8.15	Personnel Travel Arrangements
8.16	Project-Specific Contingency Plan Development
8.17	Operations Plan Review
8.20	Mobilization
8.25	Site Preparation
8.30	Project Activation and Completion According to
	Plans and Contracts
8.40	
8.47	Site Shutdown
10.000	Hazard Assessment (4)
10.10	Explosimeter Capabilities, Calibration, Use.
-3-2-2-	Limitations, Routine Maintenance
10.20	Toxic Gas Testing Instruments Capabilities,
	Calibration, Use Limitations, Routine Maintenance

Technical Services Job Position Training Requirements List Page 4

(1) Complete before working under reduced supervision.(2) Complete before transferring flammable liquids under reduced

supervision.

(3) Complete before entering a confined space.

(4) Complete before using test equipment under reduced supervision of qualified employee.

Technical Services Job Position Training Requirements List Page 5

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C.	SPECIAL	SKILLS	TRAINING

(Reserved for listing unique skills training based upon employee's assignment to special duties such as contingency plan emergency coordinator).

1.000	Contingency Plan Team Member Training
4.000	Defensive Driving*
5.000	Fingerprint Testing
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	a tarte de la companya del companya del companya de la companya d
	。 A 以中国教会学的
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*Within o	ne year of hire.

D. MANAGEMENT TRAINING

(Reserved for Technical Services management down to the first-line supervisor to teach them personnel management and hazardous waste management skills).

1.000	Phase II Regulatory Compliance Training
4.000	Effective Supervision Program, if applicable.
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PROJECT-SPECIFIC TRAINING E.

1.000	Operating Plan and Site Layout Review
2.000	Project-Specific Hazard Communication
3.000	Project-Specific Regulatory Review
6.000	Contingency Plan Review
8.000	Project-Specific On-the-Job Training

DO NOT LEAVE BLANKS. PUT N/A IF NOT APPLICABLE.



	POSITION TITLE	Project	Leader / Field Analyst	
DIVISION / I	LOCATION Technica	l Services	REPORTS TO	Operations Manager
INCUMBENT	Various Fie	ld Analysts	APPROVAL	(Signature of Immediate Supervisor)
		•		Osto

1) Basic Function (Briefly summarize the overall function and objective of the position omitting specific duties.)

Responsible for running jobs, supervising field technicians and analysts and contact with customers on a regular basis. Performs the manual and technical tasks necessary to safely handle hazardous waste through all phases of labpacking, sampling, and removal of waste material from each project site.

- 2) Specific Duties and Responsibilities (List each significant duty and responsibility, attach additional sheet if necessary.)
 - 1. Classifies, segregates and packages hazardous wastes.

Performs analytical testing on unknown chemicals.
 Maintains accurate, legible records.

4. Prepares labpacks and non-labpack drums for shipment. Preparation includes packaging, labeling, marking, and placarding according to DOT. Preparation also includes loading, blocking and bracing containers in vehicle.

Completes manifests for shipment.

- Collects representative samples according to the Waste Analysis Plan. Delivers samples to Technical Manager.
- 7. Overpacks non-labpack containers in poor condition so they can be shipped.
- 8. Has working knowledge of safety equipment and requirements for use of equipment.

Drives trucks and forklifts.

10. Responsible for performing work to meet contract specifications.

11. Supervision of field analysts and technicians.

12.

Responsible for enforcing safety policies.
Responsible for remaining in compliance with PAP and 13. Regulatory Agencies.

3) Skills, Education and Qualifications Required (Indicate the skills, education, experience and qualifications required for this position.)

Strain Strain

Education: B.S. in one of the sciences.

Experience: College chemistry background. Minimum one years experience as a field analyst.

The following skills are preferred:

a. Good verbal and written skills.

b. Ability to supervise other workers.

c. Valid drivers license.

WASTE MANAGEMENT INCORPORATED PHYSICAL EXAMINATION AUTHORIZATION AND REPORT

Eage / UL 47

101213

lack	John Baker	185-58-2823	Field_Analyst
•	Name	SS Number	Job Title
	Date and Time of Appo	intment March 21, 1989 (Date)	11:00 A.M. (Time)
	Examination Type	(circle one) A B C	(D) E
AA AE DAIDIN	us Avenue Return	nation: Pre-place to Duty Terminati	
Newark, N	3 U/ 104	ched In Medical Provide	r Guide Not Required
	Job Description: Exposure Data: PPE Required:	or	or
	Previous Medical Data prior to scheduled	Location: Note: Do not es	t or drink twelve(12) hours
	Site Designate	y / Sick Lero _	3/14/89 Dete
		}	**************
	FROM: Dr. <u>IAMES</u> (Examin	E. BELLAMY, D.O.	
49 ,	this person of the ex	mined John Bakel amination results and any c and treatment in writing.	and have informed onditions requiring
	required personal pro	ersonally evaluated the des tective equipment (includin ed ancillary studies and I	g a respirator), the
	respirator and pe Is NOT medically	ified for the job described rsonal protective equipment qualified for the job described	ibed.
,	IIMICSCIOUS:		
	Limitations effective	until:	
	PHYSICIAN NAMEJames ADDRESS:EnviroCar	a Maalila Camilana	3-21-89
ילאיי	TELEPHONE NUMBER	M Center Parkway	Ellamu A. Tysician's Signature)
	WH-HR03	Chemical Waste	Mgmt.
	5/87	 Technical Services 41-85 Doremus 	Division Avenue
		Newark, NJ 07	

	CERTIFICATION OF ROAD TEST
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Berro	This is to certify that the shove-named driver was given a road test under my supervision on
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1 3344 8 4-5 31 10 31 6-34 8 8 8 8 9 9 14 14	Signature of examinar Sunt 41-85 Dennus Ave Round Wignerization and address of examinar Fine
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EXAMINATION see signature ampeats from under my superior 19135 of the federal Date of search April 2 A	CHEMICAL WASTE MANAGEMENT MEDICAL EXAMINER'S CERTIFICATE COSTITY THAT I NAVE SEMBLES
THE FEBRUARY OF THE PROPERTY O	JOHN BAKER (DRIVER'S NAME - Print) In apparatures with the Paderal Meter Corrier Solvily Regulations (49 CFR 301.41 - 301.49) and with
	bayerladge of No Suites, I find him qualified under the regulations. Could like only when usering a tearrier is expected. Suitified only when usering a tearing aid. Suitified only unauting a tearing aid.
1 16 3 bo	135 RARITAN CTR PKY EDSION NJ
2.001	3-21-89 DR BELLAMY DAYE of EXAMINATIONS DIVIDE OF EXAMINING DOCTOR - Prints
	CHATURE OF SAVINGS DOG FORM
Inc.	523 CROWNWOOD CT EDGEWOOD MD
	(ADDRESS of DRIVER) (Copyright 1979 & Published by: J. J. Keller & Associates, Inc Heansh, Wiscons in \$4956
SSOCIATES That MAZARDOUS MID NEW JEI	ASTAIL OF MARYLAND
	AT CHS VEHICLE OPERATOR'S CERTIFICATE
	Certificate 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Keller & Honeby Certific JOHN BAK JOHN BAK	Driver License No. 82604429 792 VI99 MD)
J. J. Tkeller & Horeby Certification Bay	Expiration Date 2 10 10 10 10 10 10 10 10 10 10 10 10 10
J. J	Driver's Signature
2 2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3	DEPARTMENT OF THE ENVIRONMENT
	Vanalel Director, WMA

CHEMICAL WASTE MANAGEMENT EASTERN REGION TECHNICAL SERVICES DIVISION RESPIRATOR FIT TEST RECORD

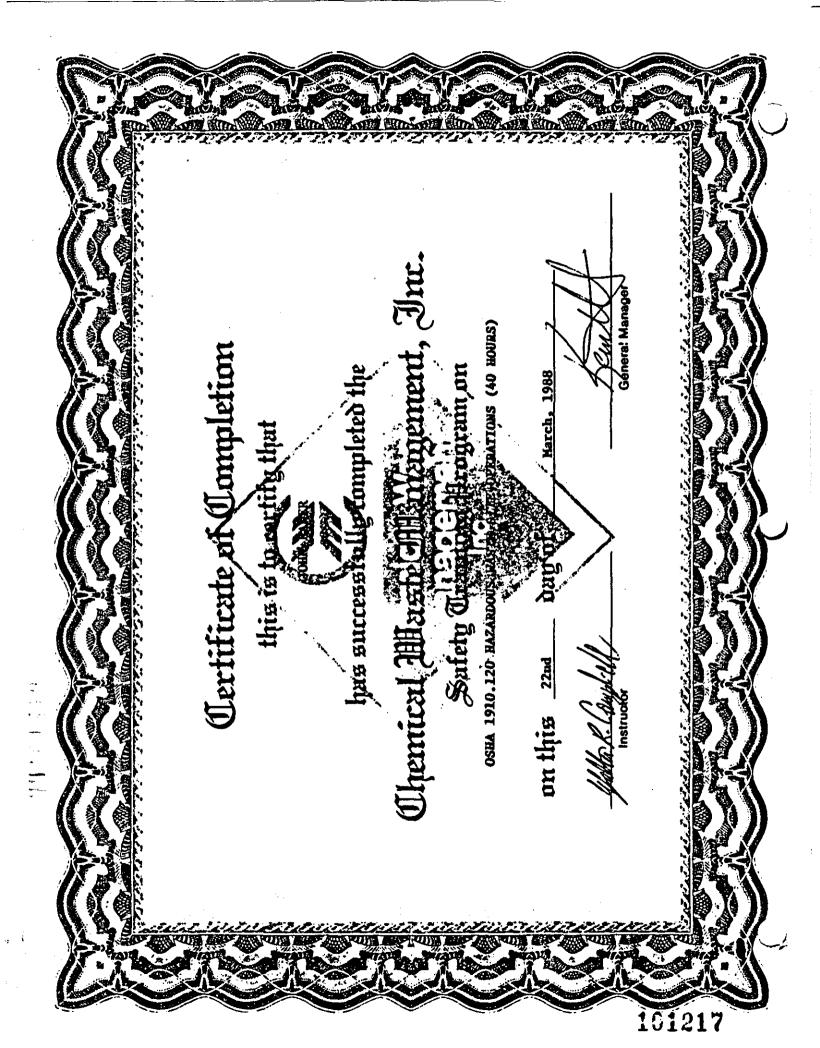
Date of Test: June 7, 19	289			
Name of Employee: <u>John Baker</u>				
Location of Fit Test: Nowark, NS.				
	Respirator Selection			
	. 1	2	3	
Manufacturer	MSA	<u> </u>		
Face Piece (half or full)	Half	<u> </u>	i i 	
Size	Medium			
Cartridge Used	GMC-H			
Positive/Negative Pressure	Yes			
Isoamyl Acetate	Yes			
Irritant Smoke				
Other (Explain)		<u> </u>		
EMPLOYEE ACKNOWLEDGE AND DO	CUMENTATION:			
1) I have been informed about the nature of respiratory hazards and the reasons for using the respirator. Yes [] No				
2) I have been instructed inspection and mainten				
Person Tested: Jan 7.	Below L	Analy.	<u>st</u>	
Signature/Title Fit Test Performed By: ### Signature/Title Signature/Title				
COMMENTS:		 ·		
TEST EXERCISES: Breath normally, breath deeply. Move head in all directions (side to side, up and down) inhaling when full range of motion is achieved. Talking. Jogging in place.				

we, the undersigned, have attended an informal training session addressing and discussing the following topics: Customer Relations, Vehicle Inspection Reports, Trip Reports, waste Profiles, Special Waste Profiles, and Profile Recertifications. Session conducted at the Cwh office located at the Aberdeen Proving Ground, Friday November 11, 1988.

Jer H. Love, Je South C. Sham Sany K. Stand Keth Sonsse Martyn Soldberg Engine A. Jane Eric Revolume

Trainers Signature

James Love 100 1/14/88





ATTENDANCE RECORD

DATE: 3/2	LOCATION:	NEWARK, N.J.
INSTRUCTOR	- ORIENTATION & IN	NEWARK, N.J.
LE PRINTED	SIGNATURE SIGNATURE	AFFILIATION
LAINE, BRAKOWSKI	France Prakowski	EMPLOYEE- RECOUNTING
Enice RANCET!		Employee · Clerical
John Baker	John Bela	Field Analyst
DAURD FANCHER	Sheel (huhw)	EMPLOYER - ACCOUNTANT
	2	
		·
	Sept. 19	
	1 Ta 1 .	
		



DATE: March 21, 1988

ORIENTATION

LOCATION/TIME NounK N.L 2:00 pm

The people were shown general Chemic	n orientation of Chemical Waste Management. al Waste Management policies as related how to properly don and remove Level C
The employees understand their responses outlined in the seminar, and will	nsibilities in regard to company policies, practive these on the job.
PRINT YOUR NAME	SIGNATURE
John BAKER	for T. Balen of
	· · · · · · · · · · · · · · · · · · ·
	·

TRAINER'S SIGNATURE Halla Planglah



DATE: March 21, 1988

EAZARD COMMUNICATION STANDARDS AND INFORMATION SOURCES

The following employees successfully completed this course. The course covered employees Right-to-Know as per OSHA Hazard Communication Standard, information on labels, MSDS's (Material Safety Data Sheets), routes of entry and types of

LOCATION/TIME: Nework, N.J./10:00 RM

		•
PRINT YOUR NAME	The state of the s	SIQUATURE
	2 to 10 to 1	11 01 /
John BAKE		John T. Boler, L.
		·
		And the second second
		The second secon

TRAINER'S SIGNATURE HALLS & CANYLAND



DATE: March 22, 1988

RESPIRATORY PROTECTION

LOCATION/TIME: Nework/N.J. 2:30 pm

Protection (Filtered Air and Si will wear appropriate breathing required and will maintain, sa	ined on both Level B and Level C Breathing Supplied Air). All the following people ng protection on the job site that is anitize and store their respiratory equipment with Safety Policies as instructed.	
John T. Brken	SIGNATURE John T. Below,	J
		_ _ _
		<u></u>
		_
	<u> </u>	

TRAINER'S SIGNATURE JAMES R. Conylell



SPILL RESPONSE/FIRE FIGHTING

	A Company of the Comp
DATE: March 22, 1988	LOCATION/TIME: Novork, NUL 3:00 pm
de.	- 1997年 - 1998年 - 1997年 - 19
and fire fighting. The couto do in a spill or fire si	re been instructed on the basis of spill response area gave the employees a basic knowledge of what ituation. Employees were told that in a spill or response, by them, cannot control the situation, they up.
The employees understand th	ne basic types of spill response and fire fighting that
they are required to perform	
PRINT YOUR NAME	SIGNATURE
Joh. J. BAKER	loter T. Baler, A.
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CRAINING SIGN.	3			
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		•	DATE: M	reh 22,1988
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STICKLET: Proper	procedures for open and velometers.	etion of parted	e funt	4
VISUAL AIDS US	20 Partable Sume h	lood, relometer		
PASSOUTS	4	<u> </u>		
•	ATT	ENDERS	•	
John T.		John	Televino	£,
		— , —		_
				· ·
-			<u> </u>	

COMMENTS: 15 minutes of training

TMSTRUCTOR'S SIGNATURE(S)

Method By lell



STATE AND LOCAL REGULATORY AWARENESS

DATE: March 22, 1988

LOCATION PORTS: Nework, N.S. 11:00

The following people were made aware of state and local laws and regulations which control hazardous waste management and the protection of people and the environment.

PRINT YOUR NAME

John T. Baker

Pho T. Beler, L.

TRAINER'S SIGNATURE Jollak Cany Laff



INTRODUCTION TO REGULATION AWARENESS

DATE: March 22 1988

LOCATIONITOE: NEWSTR ATT 10:00 M

T. Belev. L.

The following people successfully completed this Compliance Awareness course. This course gave an overview of key federal environmental laws such as the Clean Water Act, RCRA and TSCA. Employees learned the purpose and structure of each law; the difference between rules and permits; and the responsibility of each person, as well as the corporation to comply with federal, state and local laws and regulations (as well as WMI/CWM policies) related to hazardous waste management and the protection of people and the environment.

PRINT YOUR NAME

John T. Baker, Ja.

SIGNATURE

RCRA OVERVIEW AND FACILITY COMPLIANCE ACTIONS

11.4 %

DATE: March 22, 1988

LOCATION/TIME: Newart, NJ/9:Wan

The following people successfully completed this RCRA orientation. This orientation included: RCRA Interim Status standards for a TSDF; the status of our Part B application; overview of the site's layout and waste handling processes; a review of our internal waste management control system, PAP B-900 and our Waste Analysis Plan; site security measures; the site inspection system; alarm systems and emergency equipment; our contingency plan and evacuation routes; the purpose of hazardous waste manifests; and the responsibilities of employees in helping to comply with the RCRA standards.

PRINT YOUR NAME

John T. Baker

SIGNATURE

TRAINER'S SIGNATURE JAMES CANELLY



FUNDAMENTAL CHEMISTRY

DATE: March 22, 1988 LOCA	TION/TIME: Abwark, N.S./8:00 MM
---------------------------	---------------------------------

The following employees were given a seminar in fundamental chemistry dealing with properties and hazard of different classes of chemicals. Each employee understands their responsibility to use their knowledge of chemical properties and hazards when working with chemicals on their job.

PRINT YOUR NAME	SIQUATURE
John T. Baker	John T. Blu, A

TRAINER'S SIGNATURE # MARKE CAMPUSED

HAZARDOUS WASTE CHARACTERISTICS AND BASIC CONTROL METHODS

DATE: March 21, 1988

LOCATION/TIME: NAWAYK NJ-/1:00 PM

The following people successfully completed this Hazardous Waste Characteristics and Basic Control Methods course. The course gave the employees an awareness of the hazardous properties of wastes such as flammability, explosivity, corrosivity, and oxidation. Employees were also made aware of two common hazard warning labeling systems: the National Fire Protection Association (NFPA) and the Department of Transportation (DOT) systems. Finally, employees learned the dose/response concept concerning exposure to potentially harmful substances, the routes of exposure, the difference between acute and chronic effects, basic personal hygiene methods and how to research information on MSDS's and our own Waste Profile sheets.

PRINT YOUR NAME

John T. BAKER

L. T. Bl., L

TRAINER'S SIGNATURE

ffoliol Canydell



TECHNICAL SERVICES JOB POSITION TRAINING REQUIREMENTS LIST

Posi	ition Title	e: Field Analyst/Project Leader	
Pret	ared By:	PHILLIP LAWHON	
		(Name/Title/Signature)	
Appr	ovals:		
•			•
1.	General 1	Manager:(Name/Signature/Date)	
		(none) Diginetite) Date)	
2.		1 Services	-
	Operation	ns Manager:	
		(Name/Signature/Date)	
A.	GENERAL T	IRAINING	
	1.000	New Employee Orientation (mandatory for all new employees)	
	1.10	Introduction	
	1.20	Welcome to the Company	
	1.30	CWM's Environmental Policy	
	1.40	Regulation Compliance	
	1.50	CERCLA Overview	
	2,000	Basia Cafotte Tesining/1)	
	2.10	Basic Safety Training(1) Environmental and Chemical Hazard Recognition	
	2.20	Hazardous Waste Characteristics and Basic Control Methods	
	2.21	Chemical Properties of Hazardous Materials	
	2.22	Basic Toxicology	
	2.23	TLVs and PELs	
	2.24	Hazard Communication Standards and Information Sources (2)(31
	2,25	Medical Surveillance Overview(2)	
	2.26	Employee and Environmental Monitoring	
	2.30	Personnel Protective Equipment(3)	
	2.31	Fundamentals of PPE(3)	
	2.32	Fundamentals of Respiratory Protection(3)	
	2.33	Air Purifying Respirators(3)	
	2.34	Basic Protective Equipment (Level C) Inspection, Domning an	nd
		Removal(3)	
	2.35	Supplied Air Respirators(3)	
	2.36	Advanced Protective Equipment (Level B)(3)	
	2.40	Heat Stress and Dermatitis	
	2.50	Hearing Conservation Orientation	
	2.60	Generic Site Safety Plan Review	
	2.70	Site Control and Decontamination	
	2.80	Site Evaluation and Preparation Overview	119

-Technical Services Job Position Training Requirements List Page 2

2.90	Site Security	
2.100	Communication Systems	
2.110	General Safe Work Practices	

3.000	Basic Emergency Response and Preparedness	
3.10	Contingency Plan Review and Incident Reporting	ng(3)
3.20	Fire/Explosion Prevention and Protection	
3.21	Fire Extinguisher Practice(3)	
3.30	First Aid(4)	
3.40	CPR(3)	
3.50	Emergency Medical Procedures	-
3.60	Basic Spill Response	

- (1) Mandatory for employees who will work at project sites full or part-time.

 (2) Must be completed by office employees.

 (3) Annual refresher training is required.

 (4) Refresher training is required every 3 years.

B. JOB-SPECIFIC TRAINING

Record in the space provided the course descriptions from the Master List that are required for job position duties (attach additional pages listing these courses if necessary).

1.000	Waste Analysis Plan
1.20	Analysis Requirements
1.30	Sample Collection Procedures
1.40	Sample Analysis Methods
1.50	Container Marking
1.30	COMPARINCE MALAZING
2.000	Materials Handling
2.10	Lifting Techniques .
2.20	Drum Handling Safety
2.30	Drum Sampling, Classification, Staging and/or
	Transport
2.40	Liquids Pumping and Bulking
2.70	Lab-Pack Preparation and Shipment
2.80	Explosives Handling
2.90	Radioactive Materials Identification and Containment
2.100	Compressed Gas Cylinder Handling
2.110	Lockout (1)
2.140	Grounding and Bonding (2)
2.150	Confined Space Entry (3)
2.160	Operation of Hand and Power Tools
2.170	Air Compressor Care, Use and Limitations
2.200	On-Site Storage
3.000	Equipment/Vehicle Inspection, Operation of Forklifts,
3.000	Over-the-Road Vehicles (Forklifts, Trucks, Fume Hood)
3.20	On-Site Storage Area (Forklifts)
3.50	Off-Site Transport Vehicles (Trucks)
3.30	OTT-SICE IT ANSPORT VEHICLES TITUCKS
4.000	Equipment/Vehicle Corrective Maintenance Including
	Inspection of (Forklifts, Trucks, Fume Hood)
4.20	On-Site Storage (Forklifts, Trucks, Fume Hood)
4.40	Off-Site Transport Vehicles (Trucks)
	VALUE TECHNOLOGIC VOIDO LA
6,000	Phase I Regulatory Compliance Procedure Training (1)
6.20	On-Site Storage
	*PAP
	*Vehicle/Container Inspection RCRA
	*TSDF Waste Acceptance Standards
	*Lab-Pack Manual
	*EPA Standards
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 Technical Services Job Position Training Requirements List
 Page 3

B. JOB-SPECIFIC TRAINING - (CONTINUED)

Record in the space provided the course descriptions from the Master List that are required for job position duties (attach additional pages listing these courses if necessary).

6.40	Off-Site Transport
	*DOT Hazardous Materials Shipment
	PAP
	*Vehicle/Container Inspection RCRA
	*TSDF Waste Acceptance Standards
	*Lab-Pack Manual
6.50	Laboratory
0.50	
	PAP
· ····································	*Lab-Pack Manual
9 000	Duniagh Managamanh Dunnadawa
8.000	Project Management Procedures
8.15	Personnel Travel Arrangements
8.16	Project-Specific Contingency Plan Development
8.17	Operations Plan Review
8.20	Mobilization
8.25	Site Preparation
8.30	Project Activation and Completion According to
	Plans and Contracts
8.40	<u> Démobilization</u>
8.47	Site Shutdown
10.000	Hazard Assessment (4)
10.10	Explosimeter Capabilities, Calibration, Use.
	Limitations, Routine Maintenance
10.20	Toxic Gas Testing Instruments Capabilities,
	Calibration, Use Limitations, Routine Maintenance
	e special i
······································	

• Technical Services Job Position Training Requirements List Page 4

Complete before working under reduced supervision.
 Complete before transferring flammable liquids under reduced

supervision.

(3) Complete before entering a confined space.

(4) Complete before using test equipment under reduced supervision of qualified employee.

Technical Services Job Position Training Requirements List Page 5

	C.	SPECIAL	SKILLS	TRAINING
--	----	---------	---------------	----------

(Reserved for listing unique skills training based upon employee's assignment to special duties such as contingency plan emergency coordinator).

TENOTEDO.

1.000	Contingency Plan Team Member Training
4.000	Defensive Driving*
5.000	Fingerprint Testing
	・ HM によって、最初業等機能では多
	, 1965年 1966年 1
	• •
	e de la regional de la companya della companya de la companya della companya dell
*Within o	ne year of hire.

D. MANAGEMENT TRAINING

(Reserved for Technical Services management down to the first-line supervisor to teach them personnel management and hazardous waste management skills).

1.000	Phase II Regulatory Compliance Training
4.000	Effective Supervision Program, if applicable.
	1987 - 1987年 - 1989年 - 1987年 -

E. PROJECT-SPECIFIC TRAINING

1.000	Operating Plan and Site Layout Review
2.000	Project-Specific Hazard Communication
3.000	Project-Specific Regulatory Review
6.000	Contingency Plan Review
8.000	Project-Specific On-the-Job Training

DO NOT LEAVE BLANKS. PUT N/A IF NOT APPLICABLE.



POSITION TITLE Project Leader	/ Field Analyst	
DIVISION / LOCATION Technical Services-	REPORTS TO	Operations Manager (Title)
INCUMBENT Various Field Analysts	. APPROVAL	(Signature of Immediate Supervisor)
· ·		Oate

1) Basic Function (Briefly summarize the overall function and objective of the position omitting specific duties.)

Responsible for running jobs, supervising field technicians and analysts and contact with customers on a regular basis. Performs the manual and technical tasks necessary to safely handle hazardous waste through all phases of labpacking, sampling, and removal of waste material from each project site.

- Specific Duties and Responsibilities (List each significant duty and responsibility, attach additional sheet if necessary.)
 - 1. Classifies, segregates and packages hazardous wastes.
 - 2. Performs analytical testing on unknown chemicals.
 - 3. Maintains accurate, legible records.
 - 4. Prepares labpacks and non-labpack drums for shipment. Preparation includes packaging, labeling, marking, and placarding according to DOT. Preparation also includes loading, blocking and bracing containers in vehicle.
 - 5. Completes manifests for shipment.
 - 6. Collects representative samples according to the Waste Analysis Plan. Delivers samples to Technical Manager.
 - 7. Overpacks non-labpack containers in poor condition so they can be shipped.
 - 8. Has working knowledge of safety equipment and requirements for use of equipment.
 - 9. Drives trucks and forklifts.
 - 10. Responsible for performing work to meet contract specifications.

- 11. Supervision of field analysts and technicians.
- 12.
- Responsible for enforcing safety policies.
 Responsible for remaining in compliance with PAP and 13. Regulatory Agencies.

- Skills, Education and Qualifications Required (Indicate the skills, education, experience and qualifications required for this position.)
 - Education: B.S. in one of the sciences. 1.
 - Experience: College chemistry background. Minimum one years experience as a field analyst.
 - The following skills are preferred:
 - a. Good verbal and written skills.
 - b. Ability to supervise other workers.
 - c. Valid drivers license.

STATE OF MARYLAND

CHS VEHICLE OPERATOR'S CERTIFICATE

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Certificate 🗲 💆	367	4	1150		
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. 10	Terre	Čc	ntrál No.		



Philip Lawhon - Chemical Waste Management. Inc.

HAS SUCCESSFULLY COMPLETED A
HAZARDOUS WASTE (CHS) TRANSPORTERS
TRAINING PROGRAM ADMINISTERED BY
BOGERT CONSULTING SERVICES AND
APPROVED BY THE MARYLAND DEPARTMENT
OF THE ENVIRONMENT.



March 26, 1988

the show	HUZUVAN	MATERIALS 4. WASTE
TITLE OF	OURSE: (CHS) TRA	INSPORTATION COURSE
· A1101 /	3/2/0/88	
	. Oha la P Bras	et - Bojart Consulting
		988 HARADOUS MATERIALS,
Su BSTA	nes gwaste Guide	J.J. Kella HAZARDOUS
MATE	RIALS DRIVERS POCKE	T GUIDE : PEDERIX MOTOR
ATTENDANCE RECORD CARR	IER SAfety Regul	lations. Copies of MANIfeT, bewere SIGNATURE
NAME (PRINT PLEASE)	JOB TITLE	SIGNATURE
G. Thomas Peery Jr	Project Mar	& Thomas Reens ?
SARNEST L TAYLOR	V V	Ennest 2 Layle
	TECH. SERVICE	Tameois Demit
Philip Lawhon.	Tech Services	Philip Keruln
Earl Roy	DRIVER	Earl Roy
Charles A Beamer	Driver -	Charles C. Beans.
BOB BROWN.	Field Analyst	Bob Brown
Bruce Lawrayniat	Field Technician	Bun herry
Kerneth Webb	Operations Mar	freuvotate!
Liebelader	Field Treh.	Lee Richardson
	-	
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	•	181239



Chemical Waste Management, Inc. Technical Services Division

Technical Services Division PO. Box 96 Sealston, Virginia 22547 703/775-9000

PROTECTIVE BREATHING EQUIPMENT FIT TEST RECORD

DATE: Jan. 5, 1989	LOCATION: King George
NAME: Philip Lawhon	DEPART .: Field Analyst
BREATEING APPARATUS:	•
BRAND MSA MODEL	size Mdm
HALF FACE COMPOTT	PULL PACE Ultra Tusin
TEST METHOD:	rose de la companya
POSITIVE/NEGATIVE PRESSURE TES	ST
ISOMAYL ACETATE V	
SMORE NA	
OTHER(Explain) NA	
OTHER(EXPLAIN) / // / / / / / / / / / / / / / / / /	
	·
and care of this unit? YES v	
Was written instructions for types YES 1	
TESTED BY: Philip	Signature
PERSON TESTED: awa	a. Patan.
DATE: (an. 5 1989	Signature
)	
TURN IN UNIT:	
REASON(Explain)	· ·
SAFETY OFFICER: Luna	A. Paton. Signature
NOTE: This record will be fi	•

This certificate expires 3 years from date and is renewable only through enrollment in and completion of another Multimedia Standard First Aid Course.

Chapter Control Via CINIA

Chapter Representative

Instructor

Holder a Signature

Cort. 1730 (Rev. 6-81)



American Red Cross

This certifies that

PHILLIP A. LAWBON

has completed the MULTIMEDIA STANDARD FIRST AID course of instruction

CHESAPEAKE, VIRGINIA

OCT. 18, 1988

Date course completed

Charmen .dmenum Red Cross

CERTIFICATE OF TRAINING

In Accordance with Federal & State
HAZARD COMMUNICATION LAWS

This is to certify that

PHILIP LAWHON

has attended a training session on the pertinent right-to-know law and the hazardous materials used at the facility and date shown below.

	dated	. •	facility	
	SEPTEMBE	٠		•.
	1		C.W.M.	
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REFRESHER TRAINING

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American Red Cross

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American Red Cross

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Charles M. Bias

has come the ADULT CPR

course of instruction

Chemical Caste Mgmt

Chesabears; Va.

Oct. 17 1988

Date cours ordered

Chairman, American Red Cross



This certifies that

Daniel J. Duncan
has completed the ADULT CPR
course of instructor
at Chemical Waste Mgmt
Chesapeake Va.
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Chairman, American Red Cross



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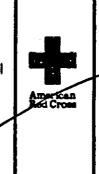
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François D. Gomot
has completed the ADULT CPR
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at Chemical Waste Mgmt.
Chesabeake Virginia
Oct. 17, 1988
Date course complete the Chairman, American Red Cross



This certifies that

Philip A. Lawhon

has competed the ADULT CPR

course of instruction

at Chemical Waste Momt

Chesapeake, Va.

Oct. 17, 1988

Date course completed

Chairman, American Red Cross

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REPRESHER TRAINING

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Ed Vanden Bosela HNU SYSTEMS



REPRESHER TRAINING

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3) John Garst	John I
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INSTRUCTOR(S): Luna a. Patton



INSTRUCTOR(S):

REPRESER TRAINING

The following have attended the <u>nespiratory Trotection</u> refresher training class for <u>8 hours</u> (length of time) on <u>Jan. 5, 1989</u>.

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2) Philip Lawhon	Philip Souther
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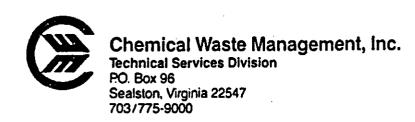
PROCEDURES FOR SENDING SAMPLES TO DISPOSAL FACILITIES

DATE: 11-27-67	LOCATION:
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ATTENDED BY:	
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TRAINER'S SIGNATURE:	ne E. Spaulding



SITE SAFETY RULES

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Philip Lowbon
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BASIC PERSONAL PROTECTIVE EQUIPMENT

DATE: 1/- 23-87	LOCATION:
Training includes donning and tective equipment.	removal of basic personal pro-
ATTENDED BY:	• •
Printed Name	Signature
Philip Lauhan	Philip Lamba
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TRAINER'S SIGNATURE: (1.A.17)	ESpaulding



TECHNICAL SERVICES DIVISION SAFETY MEETING/TRAINING

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TECHNICAL SERVICES DIVISION SAFETY MEETING/TRAINING

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HEALTH & ENVIRONMENTAL AWARENESS

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SITE SAFETY RULES

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BASIC PERSONAL PROTECTIVE EQUIPMENT

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ATTENDED BY:	
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HAZARDOUS WASTE CLASSIFICATION

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PROCEDURES FOR SENDING SAMPLES TO DISPOSAL FACILITIES

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LABPACK GUIDELINES

DATE: 12-/- 8)	LOCATION: Seulsten	
Training and discussion to provide a brief overview of the methods and regulations which apply to labpacking. Subjects include Model City and Emelle landfill packing requirements, TWI incineration packing requirements, marking and labeling of containers, and handling of reactives. Some specific considerations for discussion include picric acid, short-chaine ethers and other potentially explosive compounds, aerosols, and gas cylinders, biologicals, radioactives, and dioxin containing compounds.		
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AVTEX FIBERS FRONT ROYAL INC. AVTEX FIBERS SITE

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APPENDIX B SCOPE AND HISTORY

ADMINISTRATIVE ORDER Docket No. III-90-01-DC

Prepared for U.S. Environmental Protection Agency Hazardous Waste Management Division

Region III

November 7, 1989

AVTEX FIBERS FRONT ROYAL INC.

Kendrick Lane
P.O. Box 1169

Front Royal, Virginia 22630

APPENDIX B

SCOPE AND HISTORY

This appendix contains a chronological summary of activities undertaken by Avtex Fibers Front Royal, Inc. aimed at clean up of sites within the facility potentially contaminated with PCBs. In addition a copy of the Administrative Order addressed by this work plan and relevant correspondence including previous Administrative Orders by Consent are included as references.

SCOPE OF WORK:

Avtex Fibers is a rayon fibers manufacturing plant located in Front Royal, Virginia. The plant site is approximately 440 acres, with 55-60 acres under roof. Much of the original process capacity is now abandoned. This PCB clean-up project was initiated by the Engineering Department of Avtex Fibers. The project was assigned to P. J. Malina Jr. on 22 JUNE 89. The following is a summary of the progress of project work. A daily log has not been kept to date, however; upon approval of EPA docket No. 111-90-01-DC Administrative Consent Order (ACO) a detailed log will be maintained.

26 JUNE 89:

Joe Burza, of S.D. Myers, Inc., was contacted to make a site visit to discuss the possibility of PCB clean-up on Plant site. S. D. Myers, Inc. has been on the plant site since 1972 monitoring all transformers for maintenance and PCB levels. P.O. isssued today FR9-10992. Joe Burza to be on plant site 28 JUNE 89.

28 JUNE 89:

Joe Burza on plant site to walk thru possible PCB areas and retrieve soil samples from R. H. Hughes, Avtex Executive Vice President.

5 JULY 89:

Joe Burza returned call with data on soil samples. No. 2 - 320 ppm and No. 5 2 ppm. The number two sample is from the Polyester dock area. S. D. Myers scheduled to take samples from the "Box Shop" roof transformers (75) and the polyester dock areas along with Sub 1 A and Compressor room roof.

Catellio Books

18 JULY 89:

Joe Burza called to notify Avtex of sample testing. Data due 21 JULY 89 after QA approval.

21 JULY 89:

Rick Barret called to discuss test results. Power House roof confirmed high PCB presence. Sub 1A pure askarel, therefore, high PCB concentration. Polyester dock area positive. "Box Shop" roof transformers 101260 clean, as tested in DEC 82.

1 AUG 89:

Rick Barret confirmed the sending of a crew to begin clean-up in areas of PCB detection. Mark Roberts and Leroy Franklin due on plant.

15 AUG 89:

Manifest document No. 89294 documents the removal of one Askarel transformer and one mineral oil transformer from Sub 1A.

17 AUG 89:

Manifest document No. 89295 documents the removal of capacitors and drummed askarel oil.

28 AUG 89:

State Water Control Board personnel on plant site along with the State Police. See memo dated 28 AUG 89 P.J. Malina to C. K. Wagner.

1 SEPT 89:

Manifest No. 89340 documents the further removal of capacitors and solid waste.

See memo to F.L. Wickham dated 1 Sept 89.

21-23 SEPT 89:

Construct temporary wood roof over the Compressor room roof to facilitate PCB clean-up.

25 SEPT 89:

S.D. Myers begins concentrated effort to remove Compressor room roof. See S.D. Myers project progress chart. Began clean-up in Polyester area.

26 SEPT 89:

EPA personnel on plant site, see memo to R. G. Histing dated 26 SEPT 89.

27 SEPT 89:

28 SEPT 89:

See memo to C. K. Wagner dated 28 SEPT 89.
Initial load of waste from Compressor room roof, manifest No.89381.
Installed Silt fence at Polyester site.

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29 SEPT 89:

See memo to C. K. Wagner dated 29 SEPT 89.

<u>30 SEPT 89:</u>

Manifest No. 89395 load of waste from Compressor room roof.

2 OCT 89:

Manifest No. 89381 load of waste from Compressor room roof.

5 OCT 89:

Manifest No. 89394 load of waste from Compressor room roof. S.D. Myers begins cleaning process of sewers at A-44. Robinson Pipe Cleaning Co. videos sewer lines. See drawing number FR-41361-5 as marked to test data and dates of progress.

7 OCT 89:

Manifest number 89388 load of waste from Compressor room roof.

9 OCT 89:

Began Drum sampling and consolidation through out plant.

10 OCT 89:

S. D. Myers begins removal of soils at Sub 1A. Begins sampling procedure for manhole testing. Tested roof for effectiveness of clean-up.

11 OCT 89:

Manifest No. 89407 last load of waste from Compressor room roof. Test transformer storage area outside of Sub 2A. Data received on roof shows that two (2) spots still "hot" at 173 and 41 ppm. All other sample points on the grid were ND (non-detect) and or below 10 ppm. The two hot

spots will be recleaned. Administrative Consent Order (ACO) received.

12 OCT 89:

Manifest numbers 89410 and 89411 removal of soils at Sub 1A. Drained transformer 4C on Power House roof. Test (3) transformers at the old Allied Chemical plant.

13 OCT 89:

Test data from transformers at the Allied plant shows a reading of 4.2 ppm in each. A clean-up will be done of the area and surrounding soils. Repair of the leaking transformers is scheduled for 20 OCT 89.

17 OCT 89:

Recleaned roof over Compressor room. Samples sent out.

18 OCT 89:

Retest soils at Sub 1A and the Compressor room dumpster site. Begin cleaning of Process sewers from manhole MHI to waste treatment. Conco begins encapsulating manholes as discussed with the Judge and EPA. See sketch detailing process of encapsulation.

19 OCT 89:

Re-sample roof areas that were cleaned, and clean concrete walkway. Begin the process of removing Thermonal from the Abbey dryer system in Polyester and cleaning of all equipment.

20 OCT 89:

Prep transformers from spare storage area and 2A/5A units for disposal. Partially drained the Abbey dryer system in Polyester area. All areas of project progress hindered by weather (excessive rain).

21 OCT 89:

Drained two (2) askarell units (2A & 5A) for disposal. Removed earth from the sub station at the old Allied Chem plant. Steam Kat began clean-up of process sewer from MHI to waste treatment. Loosened manhole covers and unplugged sewers.

22 OCT 89:

Began draining holding tank in fenced in area of Polyester dock, and cleaned a small portion of the fenced in area. Steam Kat consolidated waste materials.

23 OCT 89:

Loaded truck with transformers from the storage area plus 2A and 5A units. Material manifested and sent out for disposal. Drained askarel oil from unit 4A on Power House roof. Cleaned some in the ployester area. Steam Kat assisted Conco in the encapsulation process for manholes A-44 thru NA-11 including A-31, A-28, and A-26.

EPA and State personnel on plant for tour, see memo to C.K. Wagner dated 23 OCT 89.

24 OCT 89:

The EPA team toured the CS₂ ponds for structural integrity of concrete, piping, and sampled water. See memo to C. K. Wagner dated 24 OCT 89. OSHA rep on plant today, see above referenced memo.

S. D. Myers began repairs on transformers in the "old Allied" plant today. The condition of the internal windings is such that the units should be abandoned (entirely too much rust). These transformers will be prepared for disposal. A capacitor bank within the confines of the sub station will also be disposed of. Mr. Histing and Mr. Snipes will notify Bill Knepp of the condition and remediation. S. D. Myers will research the availability of a 3-phase unit 2300 > 480v. Mr. Histing will research the possibility of having the power company run direct.

N&W and USPCI reps. were on plant site today to review loading of gondola cars. It was realized that the present gondola cars are not unloadable at the USPCI site in Utah, due to a high bulk head at each end. Four new type gondola cars will be sent in within 2-3 days. One car loaded and covered with plastic and sand bags. RANT continued to scrape and stockpile earth.

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Steam Kat transported waste slurry from waste treatment. The cleaning of MHI to MHJ continued. CONCO was assisted by Steam Kat personnel in the process of sewer floor encapsulation. A-45, A-46, A-30, and A-32 manholes were completed on daylight. A-21, A-22, A-16, and 101270 A-50 will be completed tonight. Na-11 to A-39 will be handled 25 OCT 89.

25 OCT 89:

Prepared transformers at the spare storage area for transport. S. D. Myers cleaned Polyester area, packed sand bags for rail service, and covered railcar with plastic. Steam Kat assisted Conco in encapsulating manhole number 39, and retrieved 7 samples and one removed brick sample wipe. Encapsulated A-39, A-40, and A-42 manholes.

26 OCT 89:

Failure of ASH pump system in power house caused delay in encapsulation process due to excess water. Encapsulated A-41 and sump, along with A-8. S. D. Myers continued to prepare transformers for shippment. Sampled at sub IA area.

27 OCT 89:

S.D. Myers continued to drain Abbey dryer system in polyester. Cleaned in the polyester area. No rail cars to date, therefore contractor sent home for weekend. A-55 encapsulated. Steam Kat assisted with encapsulation process and hauled water for waste treatment.

28 OCT 89:

S. D. Myers continued to drain Abbey dryer system.

29 OCT 89:

S. D. Myers continued to drain Abbey system and transformers for shippment. Eighteen (18) capacitors at Allied plant will be shipped in cabinet as one unit. Steam Kat continued to clean manholes I through Q in the process sewer.

<u>30 OCT 89:</u>

S. D. Myers shipped four (4) transformers from the spare storage area. The area is now ready for soil excavation down twelve inches. Steam Kat continued cleaning in the process sewers. A-33 and A-9 encapsulated today. Soil consolidated at the polyester area in preparation for the four railcars received. Steam Kat continued cleaning effort in the process sewers.

"old Allied Plant" to a staging area for disposal shipment. One rail car loaded for shipment. This excavation work held up due to rain. Continued removal of oil from Abbe dryer system. New EPA personnel on plant today. Roger Class and Brian Hillis of SAIC (Science Applications International Corp.) were given a tour of the plant and all project work. Removal of the sour roof drain pipes at the Compressor room roof was detailed and scheduled work to begin 1 NOV 89. Conco completed A-11 manhole encapsulation. Steam Kat continues cleaning of process sewers. Waste is being drummed.

1 NOV 89:

S. D. Myers loaded one railcar. Ron Sharp of the N&W railroad was on plantsite to witness loading cars. Steam Kat continued cleaning in the process sewer line. Final wipe samples were initiated in the storm sewer lines begining at A-44. Conco encapsulated A-10. S. D. Myers relocated the transformers from the "old Allied plant". Riggs continued removal of roof drain lines in the compressor room.

The consent order became effective today.

2 NOV 89:

Conco encapsulated A-23, all manholes except A-51 and A-54 are presently encapsulated. The aforementioned are N.D. and on "hold". S.D. Myers began cleaning of the compressor room walkway, in preparation for total encapsulation. The encapsulation process will entail an airless applied concrete sealer coat, an intermediate coat of "red" paint and a "top" coat of gray. All coatings will be applied by the "airless" process to eliminate any possibility of propagating contamination. One additional rail car has been filled. This is a total of four (4), the fifth car is "unacceptable" due to lack of integrity in the bulkhead. Ten additional railcars are scheduled to arrive on plantsite within three to four days. A tour of the "project" areas was conducted for Mr. Harry Daw; EPA project coordinator.

3 NOV 89:

S. D. Myers began final clean-up of Compressor room roof concrete walkway. A silt fence was put up around the excavated transformer storage area. The dumpster site at the compressor room was filled in with "N.D. fill". The roof drains from the "transformer" side of the compressor room roof are being removed and rerouted to eliminate the possibility of further contamination.

4 NOV 89:

S. D. Myers completed final clean of Compressor room walkway and wipe sampled per grid pattern. The first "sealer coat" of encapsulation was applied to the walkway. Removed ramp from compressor room roof.

Intermediate "red" coat applied on second shift. Sampled sub 5A per grid pattern.

5 NOV 89:

S. D. Myers continued application of final coat of encapsulation of Compressor room roof walkway. Cleaned the "old Allied" transformer site and removed (18) capacitors.

Sample data revealed a need to continue cleaning the sewer lines in the storm sewer system. Steam Kat actively involved in the recleaning process, samples taken as work progresses.

6 NOV 89:

S. D. Myers completed encapsulation of Compressor room roof walkway. Steam Kat continues recleaning of storm sewer lines. The cleaning process will follow the original cleaning procedure as detailed in the WP, along with a "sandblasting" of joint areas and cracks. The etched areas will then be cleaned and sealed with a grout. Final cleaning and wipe samples will be done as work progresses.

The shipment of anything from the plant site has been stopped by the EPA until the WP is approved. This will obviously impact detrimentally on the progress of work as it now exists. Schedules can not be met during this aimless period of "limbo".

The Work Plan Administrative Order manual is complete and will be submitted for review and approval per the requirement of the Order, on 7 NOV 89, exactly within the required time span for submission.

Let it be noted that the delay caused by the verbal restraint of oil/water shipments issued by the EPA Project Coordinator will result in a cost increase as follows. Avtex will be charged \$845/day demurage per tank trailer and \$2128/tractor return trip. At present this will result in \$2535/day for trailer demurage starting 6 NOV 89 and continuing untill EPA approval of WP. A one time charge of \$4256 will result in the return trip for the two tractors. S. D. Myers has also turned away one trailer which 101273 was to have picked up surplus transformers not included in the AO.



AVTEX FIBERS FRONT ROYAL INC.

Box 1169, Kendrick Lane, Front Royal, VA 22630-1169 (703) 635-2141

CERTIFIED

FAXED 11/6/89

November 6, 1989

Mr. Harry T. Daw
Enforcement Project Manager
U. S. Environmental Protection Agency
Enforcement and Title III Section (3HW33)
841 Chestnut Building
Philadelphia, PA 19107

Dear Mr. Daw:

Paul Malina

Pat Hughes

Ralph Markee - "

- Avtex

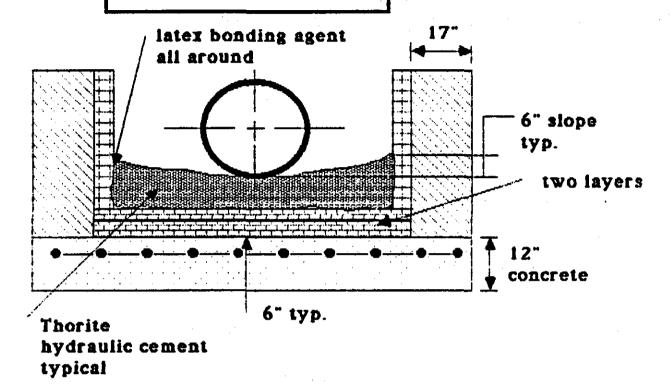
During your visit to Front Royal last week, you asked that we not ship out anything for disposal until you had received our Workplan. However, when Mr. Caron was on site, he specifically told us not to hold up any clean up activity awaiting either an Administrative Order or a Court Order.

Therefore, we contracted with Chem Waste Management Inc. to dispose of certain empty drums and a quantity of drums of used oil and water. Today, they brought in two (2) trucks to begin removal of the oil and water. If these trucks are not permitted to leave, the cost to Avtex will be excessive.

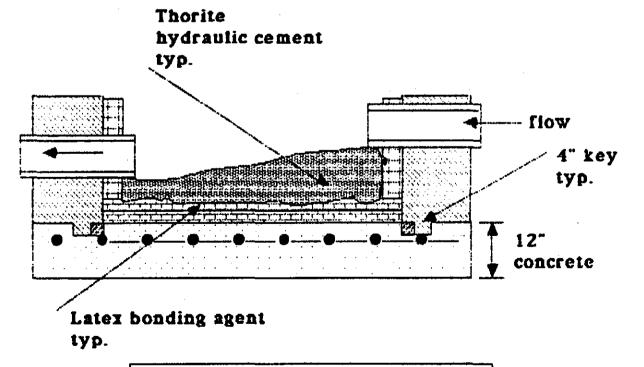
I have tried since early this morning to contact either you or Karen Walper concerning the need to release these trucks and since oil and water mixtures are not considered hazardous material, we plan to release this shipment as of 2:00 p.m. today (11/6/89).

C. Kenneth Wagner Executive Vice President - Engineer Avtex Fibers Front Royal Inc. Front Royal, VA 22630	
CKW/ms	Title: Ex. Vice President - Engineering

TYPICAL SUMP DETAILS Total 30 sumps



Section view parallel to Sewer



Typical section view perpendicular

30 AUG 89

Virginia Water Control Board 2107 N. Hamilton St. P.O. Box 11143 Richmond, Virginia 23230

Attn: Mr. Thomas M. Felvey-Program Manager

Dear Sir:

This letter is being written to inform you of the answers obtained by Avtex personnel, to the questions posed by William G. Maddox during his site visit 28 AUG 89.

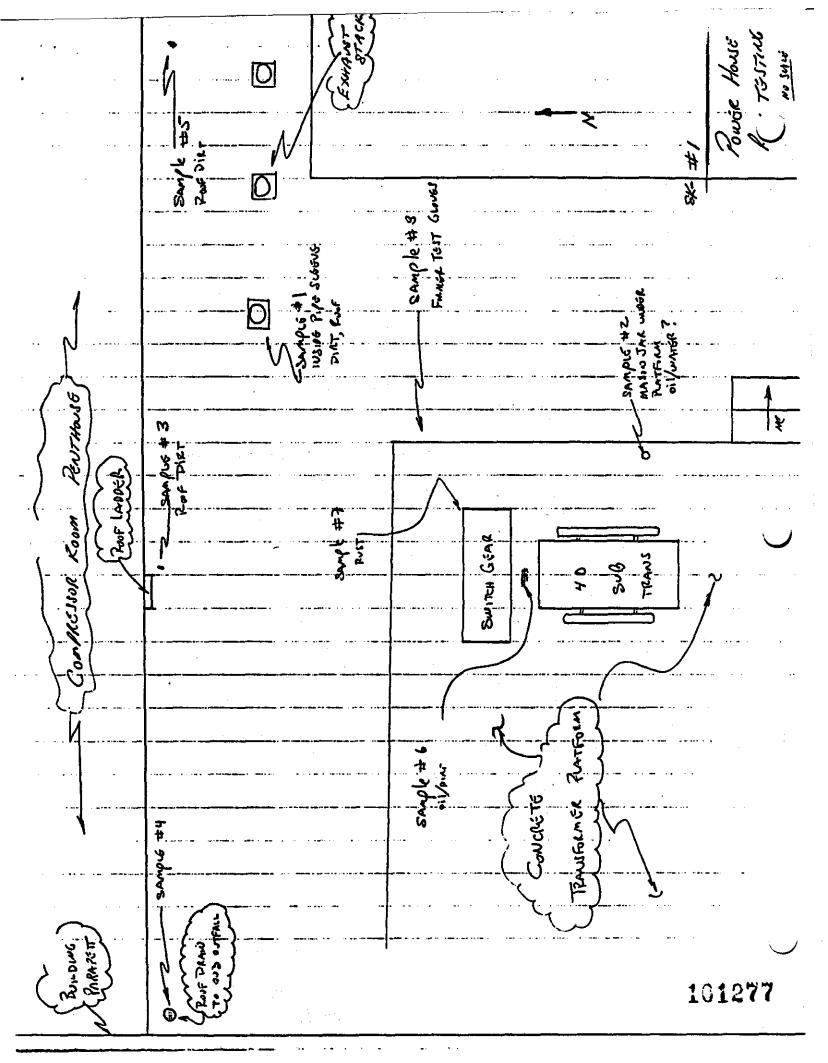
During his visit Mr. Maddox stated that Avtex had recently (within the past few weeks) received a PCB laden transformer from our former Nitro, W. Va. plant. This statement is erroneous and is easily proven by records now in the possession of your board. Transformer Consultants Number 57 is a Kulman (s/n 2-40661) 1000 KVA/468 gal. transformer originally tested on plant site 12/82 and determined to be Non-PCB.

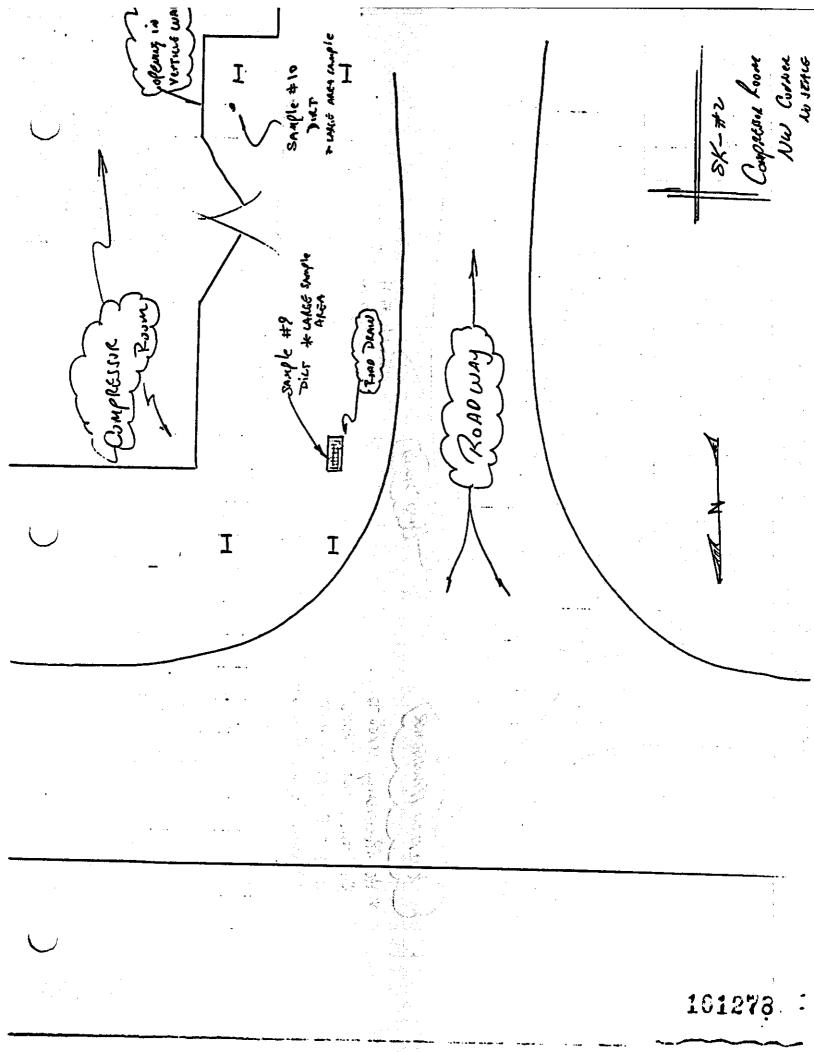
The second point is relative to the test site at the polyester dock and two (2) "sump pits" and accompanying piping. The piping has been unearthed and determined that it empties into a "process sewer" which is directed to the Waste Treatment area of the Plant. Based on data from testing previously initiated by Avtex, the area is a PCB contaminated area and clean-up per EPA approved measures is in progress now. The pipe will be removed during the removal process of contaminated soils and the access to the sewer blanked off. Further testing and clean-up will continue.

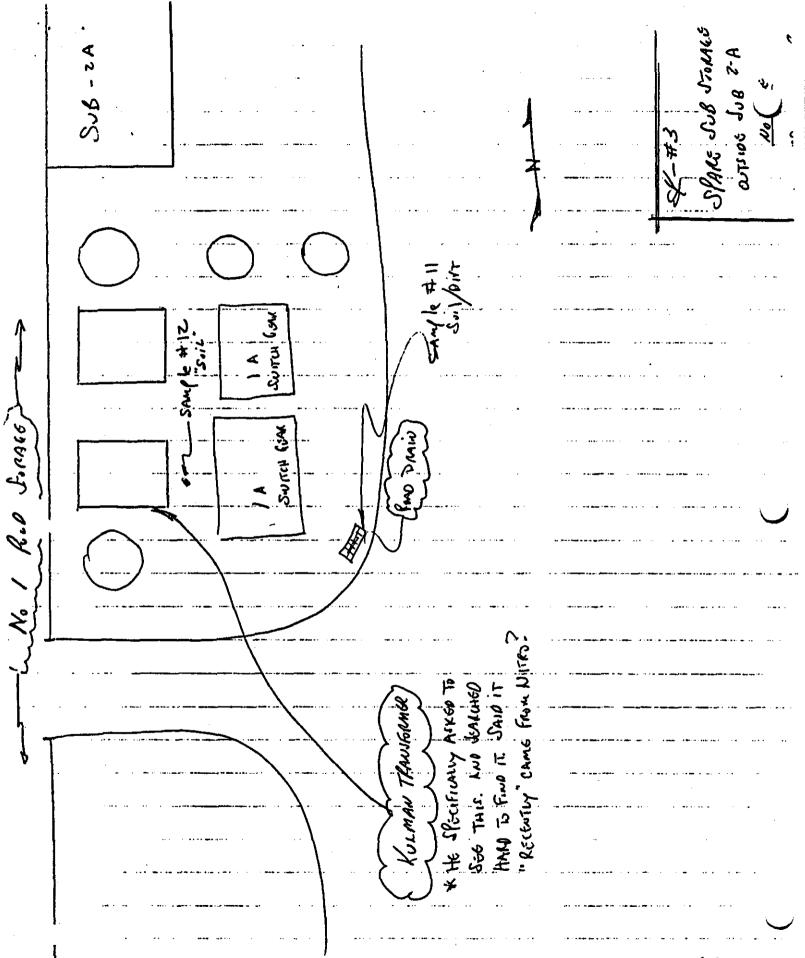
We trust this information is acceptable. Should there be any further information required please contact the writer.

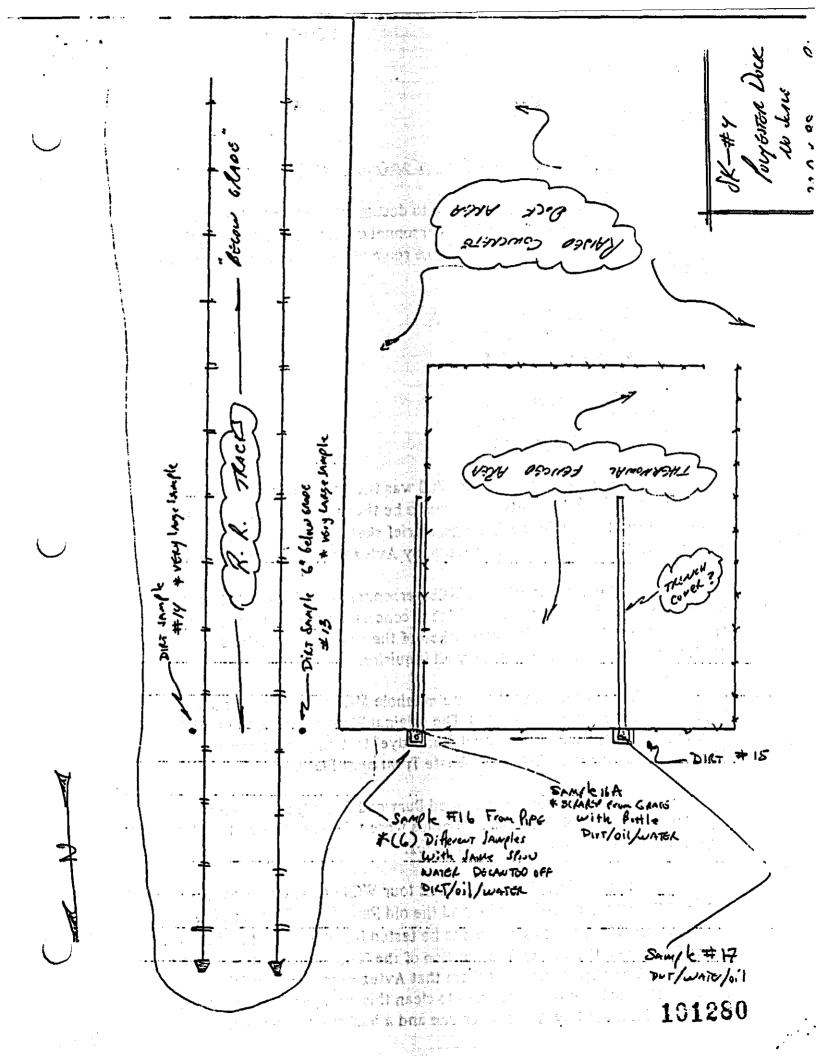
Respectfully yours;

Paul J. Malina Jr. Utilities Engineer









To: F. L. Wickham

From: P. J. Malina Jr.

Subject:VirginiaWaterControBoardVisit

This letter is being written to document the transactions of today, concerning the (8) eight WCB personnel on the Plant site. A brief meeting was had in the Main conference room with the following personnel in attendance:

William G. Maddox - VWCB
Durwood Willus - VWCB
Anne Field - VHWM

F. L. Wickham- Avtex

R. E. Licklider - Avtex

P. J. Malina Jr.- Avtex

The main concern of the WCB was the Avtex activity at the Polyester dock area. Curiosity appeared to be the main concern. A plant map was used to explain the findings, a brief sketch was drawn to show the area, and a brief verbal explanation by Avtex personnel was presented.

This did not satisfy the WCB personnel and a formal site visit was given. Questions from Audrey Weber concerning the procedures and findings at the Polyester site were asked of the writer. The writer's explanation was sufficient to satisfy all inquiries.

At the request of the State manhole MHI was opened and a "dye" test run to determine outfall. The original Plant drawing, the initial meeting explanation, and the actual State "dye" test all proved the same. The outfall of manhole MHI is the Waste Treatment Plant.

Roger Licklider accompanied Durwood Willus in the taking of samples at MH A8. Soil and water samples were taken at MHH and MHI. Duplicate soil samples were given to Avtex.

At some time during the Plant tour WCB personnel discovered the "empty drum storage" area behind the old Paint Shop. This area has been identified by Avtex as an area to be tested for PCB content and then properly cleaned thereafter. The position of the WCB was that this must be cleaned up. The writer informed them that Avtex personnel are fully aware of this fact and that measures to clean this area per EPA regulations have been instituted by Avtex, over one and a half months ago. This information came as a surprise to the State

The writer informed them of Chemical Waste Management Inc.'s involvement in this portion of our clean-up efforts and they were satisfied. A request was made by the writer, as to any further information being needed at this time. The reply of the State was a thank you, however; no further information was needed.

The VWCB people left the Plant approximately 5:00 PM.

cc: C. K. Wagner

P. Hughes

R. G. Histing

23 OCT 89 cc: R. H. Hughes F. L. Wickham T. Allen

To: C. K. Wagner

From: P. J. Malina Jr.

Subject: EPA / State Water Control Board Visit

This letter is being written to document the activities of today (23 OCT 89), relative to the visitors on plant site. The following were n attendance:

EPA

R. E. Caron

W. F. Lee.Ph.D- Enforcement Officer

T. Naquin- TAT

M. Kaarlela-TAT

State

T. M. Felvey-Program Manager

M. G. Ferguson-Permits Program Manager

J. V. Roland- Assistant Direct of Operations (Office of

Enforcement)

Derwood Willus
Suzanne Bambacus
Melanie Donahue

Avtex

M. Carrol

B. Zawatowski

P. J. Malina Jr.

The tour was conducted in two locations simultaneously. Kaarlela, Naquin, and Lee walked the Allied Chemical plant unattended for the most part. It was explained to the writer that they were to walk through and video the plant site.

The remainder of the group was directed by R. E. Caron, and intercepted by the writer, at the Polyester dock area. Ferguson, from the WCB, was armed with a video camera and Donahue with a 35mm. The excavation site at polyester was videod and photographed. A duplicate sample was taken at MHI, sampling the effluent coming in from the CS₂ No.

² basin. The sample was handed over to T. Allen by the writer.

The tour continued to the drum storage area behind the "old paint shop". Again video and photos were taken of this area. A brief explaination of the Chemical Waste Management work was discussed.

Next we reviewed and documented on cellulose the "hazardous waste" storage area. A point was made by Mr. Caron concerning the proper labeling of PCB drum waste and photos taken.

The excursion continued to the Power House where the parapet wall outfall was noted and photos taken. The dumpster site was reviewed and photos taken also. Next we proceeded to the roof area and once again captured it all on film.

The final step in the tour was to peer down into A-44 manhole to observe the encapsualtion of the sump floor. The tour ended with the group returning to F.L. Wickham and the waste treatment plant.

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27 SEPT 89

To: C. K. Wagner

From: P. J. Malina Jr.

Subject: EPA Visit 27 SEPT 89

This letter is being written to document the visit of EPA and Virginia State Waste Management personnel. The team took samples and reviewed "in house" progress on PCB clean-up, and reviewed the Chemical Waste Management clean-up effort. Those in attendance were:

Robert E. Caron EPA - Region III

John Fellinger - CCJM (EPA consultant)

Chris Zuiebel - RAI (EPA consultant)

Rosann Park-Jones - ICF (EPA consultant)

Randolph P. Lathrop - Va. Dept. of Waste Management

Avter

- E. Zawistowski
- P. Ehlers
- P. J. Malina Jr.

The day commenced with a brief meeting in the Engineering Conference room to discuss the day's agenda. Initial points were made, based on the tour of 26 SEPT 89. It was confirmed the effort and committment of Avtex, in this clean-up, is clearly apparent and should continue. More aggressiveness must be put forth in the handling of the contractor, S. D. Myers; to provide the needed data and manpower to complete this clean-up in a timely fashion.

Three key points were made:

- 1.- the area of contamination must be contained
- 2.- the affected area must be surveyed to determine the impact to the environment (Example: Storm sewer contamination over the years & Waste Treatment contamination, therefore possible river outfall:)
 - 3.- Schedule in detail for total project control

It was noted that point one is clearly defined, however; in the Polyester area a "silt fence" must be installed around the perimeter. This was relayed to S. D. Myers and it will be accomplished no later than Friday of this week.

The other two points were relayed to S. D. Myers and are being addressed. A detail schedule of all work must be completed and submitted

detailed follow up of clean-up work. Robert Caron of the EPA will over see the work on plant site until Harold Daws takes responsibility as Project Manager.

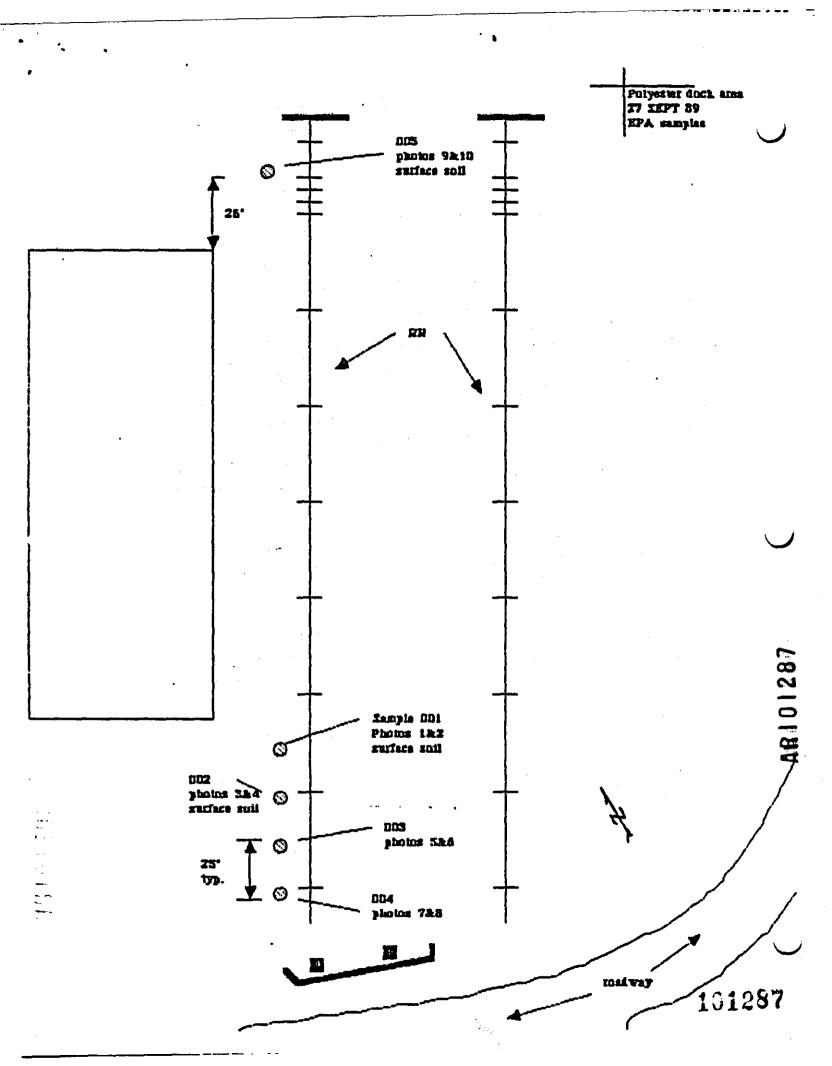
A tour was had to investigate the "bulk" storage areas for CS₂ storage, Soda storage, and Acid storage. Points were made of the eventual requirement for sufficient dike measures around the storage tanks.

The remediation procedures for CS₂-1 and AR-2 areas were discussed at the site and received a positive response from both the EPA and The State Waste Management personnel. R. Lathrope is the contact on all the clean-up slated for the Chemical Waste Management contract. The present approach taken by Avtex appears to be satisfactory in the opinion of Mr. Lathrope. He will forward, to the writer ,the Virginia Hazardous Waste regulations tomorrow. Written approval of clean-up plans is recommended, however; not required to initiate the clean-up effort. Turn around times on written authorization is 2-4 weeks. Should a "hazardous" condition be discovered during clean-up it MUST be reported to the State and EPA and the proper clean-up effected.

The new "waste storage" area was reviewed in detail and deemed acceptable by both the EPA and the State. A recommendation was made that any "hazardous waste" NOT be stacked.

Five samples in the Polyester area were taken in duplicate with one set going to the EPA and the other to Avtex. Ms. Zawatowski accepted the samples. The attached sketch details location, ten photos were taken at the sample sites.

It the impression of the writer that the last two days have been positive and Avtex can "work" with the EPA and State regulatory commissions to effect a resolution.



Prom: P. J. Malina Jr.

Subject: EPA and State Plant Visit 29 SEPT 89

This letter is being written to document the activities of the EPA and State personnel on plant site today. Those in attendance for site tours were as follows:

R. E. Caron - EPA

P. E. Herrera - TAT

S. Guille - TAT

M. Kaarlela - TAT

G. J. McCoy - Va. Dept. of Waste Management

L. Fritz - S. D. Myers

Avter

P. J. Malina Jr.

The tour consisted of a familiarity with the areas of clean-up for S. D. Myers and a brief review of the Chem Waste scope. A meeting was held to discuss the required scope of work necessary to satisfy EPA. Lynn Fritz was present to better understand EPA requirements in this particular clean-up.

The scope of work for the manhole clean-up and the sewer piping requirement was reviewed. Clean-up will be to 1 ppm. Wipe samples of pipe internals are sufficient to prove 1 ppm in piping.

The Clean-up will be proposed as "manual", with options ranging upto the use of "suction" equipment and "sewer rats" to brush internals. S. D. Myers will supply the necessary paperwork the week of 2 OCT 89.

The TAT personnel will be on plant during the weekend and return Monday 2 OCT 89. Gerould McCoy, State waste management, will return Monday 2 OCT 89. Bruce McGlauglin, Chem Waste manager, will be on plant site Monday, 2 OCT 89. R. E. Caron, EPA, will return to the plant site Tuesday, 3 OCT 89.

Chem Waste will "tank tightness" test UST's Tuesday and Wednesday of next week. The State Boiler inspector will be on plant site to check #2 Boiler 4 OCT 89 and review pressure vessels due

AR 10128

161283

To: C. K. Wagner

From: P. J. Malina Jr.

Subject: EPA / VWCB visit 28 SEPT 89

This letter is being written to document today's activities with the EPA and State personnel. Those present were as follows:

R. E. Caron - EPA

M. W. Kaarleia - EPA TAT (independent consultant)

P. E. Herrera - EPA TAT (independent consultant)

S. Guilles - EPA TAT (independent consultant)

W. G. Maddox - VWCB

J. Hartman - VWCB

Avter

C. K. Wagner

P. J. Malina Jr.

The State Water Control personnel were shown the three areas of process water repiping. The three areas being Soda Cooling water, Soft water backwash, and Power House process water. Other areas of investigation were presented by R. Lichliter. The State people did have a brief conversation with Mr. Caron of the EPA (content unknown).

The EPA personnel were concerned with sample taking in the old drum storage area. A sketch is attached detailing location of the four samples. Avtex received a duplicate soil sample of each. It should be noted that these samples, as was the case yesterday, are going to be sampled not only for PCB content, but the complete array of "hazardous waste" requirements. Should Avtex also sample for the same? This would require split samples to S. D. Myers and Chem Waste. Please advise.

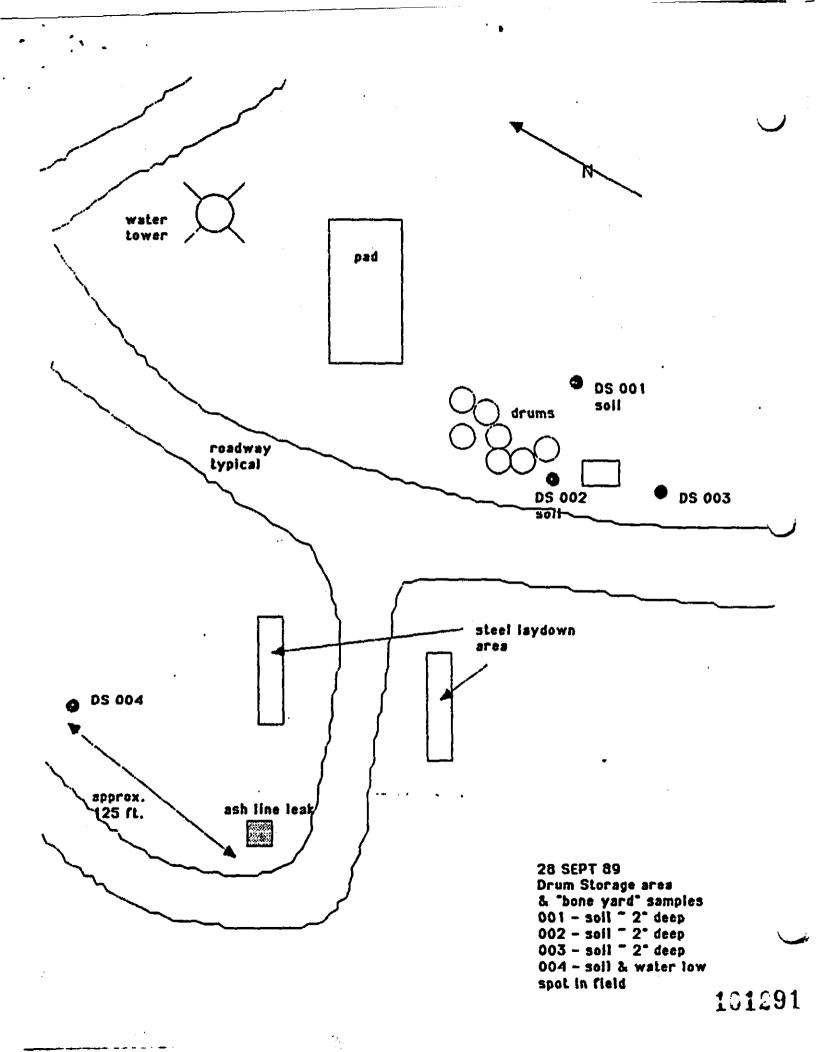
R. Caron and the writer reviewed all process areas of clean-up on plantsite. He approves of the S. D. Myers and Chem Waste work in progress and has commented ..."things look good". He suggested that the "hydrocarbon waste" in areas of spills could be handled more economically in a biological manner. This remediation process is satisfactory with the EPA, however; it must be approved by the State. The writer feels this approach should at least be investigated.

101289

AR 101289

oil" drums are unsuitable for shippment. This is an acknowledged fact and Chem Waste will either re-drum or bulk load out after sampling. It should also be noted that during the relocation process a pallet failed and one drum "burst" spilling its contents. The EPA was present and sampled at the location.

The EPA will return tomorrow to further sample, observe, and investigate outfalls 003 & 004. The EPA TAT personnel will be on plantsite during the weekend to observe the S. D. Myers work. Lynn Fritz, R. E. Caron, and the writer will meet tomorrow to firm up a schedule for completion of the S. D. Myers work.



24 OCT 89 cc: R. H. Hughes F. L. Wickham T. Allen J. Cosgrove

To: C. K. Wagner

From: P. J. Malina Jr.

Subject EPA and OSHA site visit 24 OCT 89

This letter is being written to document the EPA and OSHA tours on plant site. Those in attendance:

BPA is the second of the sec

R. E. Caron

M. Kaarlela

T. Naguin

W. F. Lee and the marking and the control of the co

R. E. Class-Science Applications International Corp. (new TAT)

P. J. Hawes, Jr.- OSHA a sale in the

Avtex

D. Clark

N. Reed and the state of the st

C. Hinson

P. J. Malina Jr.

The tour began at No. 2 CS₂ pond, with R. E. Caron absent. Walter Lee brought up points about "violations" such as leaking valves, improper/illegable signs, severly washed out rail sections, concrete spalling and cracks in the pond walls. Mr. Lee feels the ponds are going to fall under RCRA laws and thereby require eventual remediation. His justification is the "possible" CS₂ laden water which is recycled back to the ponds during normal operation. This point would put Avtex in violation of Virginia law for operating a RCRA impoundment without a permit.

Matt Kaarlela and Troy Naquin sampled water at the outfall (staircase trough). A total of four samples were taken Avtex received two. Matt and Troy also videod and photographed sample points and points of contention; such as concrete spalling and hoses draining to the ground. At the outfall of these hoses definite signs of "stressed vegetation" exists.

We proceeded to the No. 1 pond where samples, video footage and photographs were taken. A "biased sample" was taken of and oil slick

and debris floating atop the pond pool. The writer received a second set of samples for a total of four. These samples were turned over to Dr. Allen immediately after receipt.

It was noted and logged on film, that the west side of the pond wall is severely decayed and spalled to the point, several large gaps exist in the concrete. One is leaking profusely. A sample was taken here also.

R. E. Caron was present for this tour and stressed Mr. Lee's opinion of a RCRA violation. He stated, should the samples prove high in CS₂ content remediation will have to be according to RCRA laws and it will become part of the consent order. He suggested both ponds be eliminated and an above ground storage be set up with "state of the art" storage / handling facilities provided.

An OSHA representitive was on plant site due to a "complaint" that asbestos was present and posing a danger during the removal of the compressor room roof. A site visit proved this not to be the case. He apologized, photograhed an encapsulated pipe, and stated there "was no problem". He continued to harass Plant and contractor personnel through his own apparent ignorance, for several hours after this visit. The ordeal was settled to his satisfaction when Conco personnel supplied him with copies of sample data proving beyond a doubt that no asbestos was present in the "cork insulation" and its wrappings.

A new person from the EPA TAT team was on plant today to follow the TAT personnel around and become familiar with the scope of work past, present, and future. He, or someone from his firm will be on plant daily as soon as the ACO is signed and the present TAT personnel leave.

S. D. Myers found the transformers at the Allied plant to be unrepairable. They are being readied for disposal along with the capacitor bank within the sub station fence.

R. Markee (Cary

AYTEX FIBERS FRONT ROYAL INC.

October 26, 1989

Memo to: Guards

cc: Staff & Dept. Heads

L. Osborne M. Schryver

From:

Dave Clark

Subject: Procedure for Handling Plant Visitors

Due to the plant's recent downsizing and subsequent reduction in force, it is necessary to re-emphasize the Plant's Visitor Policy.

The following procedures will be in force.

- 1. The names of those individuals requesting entry to the plant must be submitted to either Ms. Schryver (Ext. 179) or Ms. Osborne (Ext. 112) along with the following information:
 - a. Name of company/agency they are representing;
 - b. date and time of visit;
 - c. Avtex contact person; and
 - d. nature of visit.
- 2. Guards will be responsible for:
 - a. Stopping and logging in all visitors;
 - b. notifying Avtex contact person of their visitor's arrival and clearance;
 - c. issue plant visitors pass with Visitor's name, date, time issued so indicated;
 - d. Avtex contact person should either go to the gate to pick up their visitor or make arrangements to meet them at a central location;

visitor should return their pass to the Guard on leaving the plant; and

f. visitor's log sheet should continue to show time of arrival and departure for each visitor.

- 3. Visitor protocol for regulatory agencies as follows:
 - a. GSX (consultants for Commonwealth of Virginia) to be handled per memo T.C. Allen dated 10/23/89.

RPA and their contractors are to be allowed into the P. plant, but upon exiting the plant need to state when they will be returning or who will be taking their placé.

State regulatory agencies will be kept at the Guard house until an Avtex employee or their consultant arrives to escort them into the plant. C:

- Visitor protocol for Avtex consultants as follows:
 - Avtex consultants are requested to submit the names of À. their personnel who will be on site to Ms. Schryver (Ext. 179) or Ms. Osborn (Ext. 112) for notification to the Guards.

baily passes are to be issued and returned for all b tonsultant personnel with drive-in privileges.

If questions arise, please contact the writer.

Maria B. Clark

Vice President of Manufacturing and Human Resources

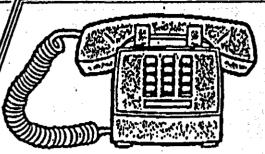
Distribution: Hicks, W.T. (Ship.) Ahlers, E.W. (40) Hinson, C. (Safety) Allen, T.C. (R&D) Histing, R. (40) Hughes, P. (Corp.) Knepp, W.H. (Purch) Bowen, L.B. (40) Brinklow, T. (40) Clark, D.E. (Visc.) Licklider, R. (PrdSe) Markes, R.S. (Corp.) Cooper, R.A. (Visc.) Mills, D.W. (PP) Coverston, J.J. (40) Reed, A.K. (E.R.) Lhlers. P.W. (Mdr's)

Smith, C.H. (Acid) Shapp, H.A. (Tech.) Stevens, R. (Accnt) Toothman, D. (Stores) Tousignant, D. (Corp) Wägher, C.K. (Corp.) Wickham, F. (Corp.) Woodson, L. (D/D)Radomsky, S Tech.

Brinklow-ACTWU Guards Beulke, M. (Tech) Jackson, R. (Spin.

AVTEX FIBERS FRONT ROYAL INC.

Box 1169, Kendrick Lane, Front Royal, VA 22630-1169 (703) 635-2141



DATE:

23 Oct 89

TO:

I'm Mock

FROM:

P. J. MAUNA JR.

PAGES:

2 INCLU

INCLUDING COVER SHEET

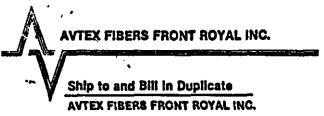
IF THERE ARE ANY PROBLEMS AND/OR QUESTIONS, CALL 703/635-2141 AND ASK FOR THE SENDER.

HAVE A GOOD DAY!

TELECOPIER COVER SHEE

PURCHASE ORDER

PORM 154 REV. 9/84



PJ BOX 1169 KENDAICK LANE FROST REYAL. VA. 22630

TO: CHEMICAL WASTE MANAGEMENT INC. 100 NASSAU PARK BLVD

PRINCETON NJ

08546

Important—All shipping papers, involces and bills of lading mus Order Number and be sent direct to Consignee at destination.

PURCHASE ORDER NO.FR9-10998 RELEASE NO.000

Purchase Order Date

Vendor Number

9/00/89 08277 01

Terms of Payment

AS ARRANGED

F.O.B.

DELD

Ship Via Shipping terms

N/A

YOUR ACCOUNT PREPAIG

ARTICLE **QUANTITY & UNIT** UNIT PRICE TOTAL 1 LÚT CONTRACT TO PERFORM NECESSARY .00 .00 ENVIRONMENTAL CLEAN-UP & UNDEKGROURD STORAGE TARK CEMPLIANCE TO EPA REGULATIONS. FACH PHASE WILL MOT BEGIN UNTIL 2 BUDGET ESTIHATE SUBMITTED AND APPROVED BY AVIEX FIBERS. W/D 08343 7-8842-50100-070 SYMAOL> k5-04-7090 **CELIVERY DATE:** 1999 für MALINA USE: WIDE

M COMPINAING TU: MULLY CLARK 8/31/89

INVOICE EVERY TWO (2) WEEKS DIRECTLY TO: C. K. WAGNER hote:

applicable

exempt

300-996301-5

Exemption certificate number

Address all correspondence relating to this order to:

.o address Aft. Purchasing Department

The Equal Opportunity clause in Section 202 of Executive Order 11246, or as may be amended, relative to equal employment opportunity and such implementing Rules and Regulations as may be issued by the Secretary of Labor are incorporated herein by specific reference.

P/U TOTAL

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Purchasing 2

Please read the reverse side hereof carefully. By shipping the above goods or by acknowledging receipt of this order or by performing the above work you agree to the terms and conditions of sale set forth on the reverse side hereof as well as those set forth on the face hereof. These terms and conditions constitute an offer by the buyer and may only be accepted on the exact terms set forth and no other terms and conditions shall be controlling; and these terms and conditions supersede the terms and conditions of your proposal or acknowledgment form, if any.

STEAM KAT HAZ MAT OF VIRGINIA

1 1

STORM SEWER CLEANING PROJECT Interim Report

AVTEX FIBERS

Sent Post Royal, VA

AND CARE
FRONT ROYAL

AND CARE

Andrew Community Communi

Storm Sewer Cleaning Project

Interim Report

1. Purpose:

The purpose of this interim report is to describe the operations of Steam Kat during the storm sewer cleaning at Avtex Fibers, Front Royal, VA, from October 5 through October 18, 1989.

2. Description of Operations:

Storm sewer cleaning operations were coordinated closely with inplant maintenance personnel to block storm sewers, divert water and provide support such as water and electricity. Water was diverted primarily by blocking specific storm sewers with air bags and pumping water to other sewer systems.

Personnel and equipment were mobilized on October 5 and 6. Beginning on October 6, manholes were checked with a combined gas monitor (oxygen level, toxic gases and explosive atmospheres) and an H Nu photoionization trace gas analyzer then entered for Work crews wore EPA/OSHA Level C or Level B personal protective equipment (PPE) depending on the task to be completed. High pressure hydro cleaning equipment was used to clean manholes and connecting storm sewers. Removal of water and debris was done All surfaces were triple rinsed with with vacuum trucks. commercial cleaning products designed to remove oils, greases and other hydrocarbons from concrete and brick surfaces. removed from manholes and storm sewers were bulked and staged in a contaminated area on-site for later disposal with other materials. Water removed from the system was placed in an on-site storage tank for later treatment or disposal as appropriate. Twenty-four hour operations began at 8:00 AM Friday, October 6, and continued until all storm sewers and manholes between the plant and the outfall at the river were cleaned. The outfall was reached at approximately 6:00 AM, Thursday, October 12. Sampling was completed as cleaning progressed. Originally, one sample was taken from the center of each manhole. If contamination was found, the manhole was recleaned and sampled on a seven point hexagonal grid in accordance with EPA guidance documents. Samples were delivered to S.D. Myers personnel on-site for shipment and analysis.

Designated areas were recleaned with both high pressure and hand scrubbing. Contamination in some manholes was reduced to below detectable levels. Other manholes have residual contamination as of the date of this report. Work continues.

One section, approximately 700 feet long, in the coal yard on the east side of the power plant was cleaned by Jet Blast of Hopewell, VA, to remove the bulk of the coal dust and calcium deposits prior to chemical cleaning by Steam Kat.

Before being demobilized from the site, all vacuum trucks, pumps

and any other equipment that had been used to handle contaminated or suspect-contaminated debris or water from the storm sewers was decontaminated by high pressure equipment or hand cleaning. Residues from this decontamination as well as used PPE was staged for later disposal.

AVTEX FIBERS FRONT ROYAL INC. AVTEX FIBERS SITE

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APPENDIX C MANIFESTS/WASTE MATERIAL REMOVAL STATEMENTS AND MATERIAL SAFETY DATA SHEETS

14 0 E 1

ADMINISTRATIVE ORDER Docket No. III-90-01-DC

Prepared for U.S. Environmental Protection Agency Hazardous Waste Management Division

Region III

November 7, 1989

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AVTEX FIBERS FRONT ROYAL INC.

Kendrick Lane
P.O. Box 1169

Front Royal, Virginia 22630

AVTEX FIBERS FRONT ROYALINC. AVTEX FIBERS SITE

WORK PLAN

WASTE REMOVAL STATEMENT

Section 8.13

Avtex will not remove any waste materials from the Site except in conformance with the terms of this order and any applicable Federal, state or local laws or regulations.

ADMINISTRATIVE ORDER

Docket III-90-010-DC

Prepared for

U. S. Environmental Protection Agency

Region III

November 1989

AVIEX FIBERS FRONT ROYAL INC.

Kendick Lane
P. O. Box 1169

Front Royal, Virginia 22630

MATERIAL SAFETY DATA

Polychlorinated Biphenyls (PCBs)

Polychlorinated
Biphenyls (PCBs)

MONSANTO COMPANY 800 N. LINDBERGH BLVD. ST. LOUIS, MO 63167 Emergency Phone No. (Call Collect)

314-694-1000

PRODUCT IDENTIFICATION

The following materials contain 99.9% or greater PCBs. For information about other ingredients in formulations containing PCBs, contact the manufacturer of those ingredients.

Synonyms:

PCBs

Chlorodiphenyl (_% Cl)
Chlorinated biphenyl
Polychlorinated biphenyl
Chlorinated biphenyls
(approx.__% Cl)

Trade Names

Askarei**

(Commonly used Monsanto products)

Aroclor* Series 1016, 1221, 1232, 1242, 1248, 1254, 1260

Therminoi* FR Series

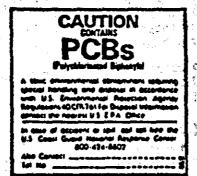
CAS No.:

001336363, 053469219, 012672296, 011097691, 011096825 and

others

WARNING STATEMENTS

Federal regulations under the Toxic Substances Control Act require PCBs and PCB items to be marked. (Check regulations for details.)





PRECAUTIONARY MEASURES

Care should be taken to prevent entry into the environment through spills, leakage, use, vaporization, or disposal of liquid or containers. Avoid prolonged breathing of vapors or mists. Avoid contact with eyes or prolonged contact with skin. If skin contact occurs, remove by washing with soap and water. Following eye contact, flush with water. In case of spillage onto clothing, the clothing should be removed as soon as practical, skin washed, and clothing laundered. Comply with all federal, state, and local regulations.

101303 6-4048 /883

PHYSICIAN—If large amounts are ingested, gastric lavage is suggested.

Skin: If liquid or solid PCBs are splashed or spilled on skin, contaminated clothing should be removed and the skin washed thoroughly with soap and water. NOTE TO

PHYSICIAN—Hot PCBs may cause thermal burns.

Eyes should be irrigated immediately with copious quantities of running water for at

least 15 minutes if liquid or solid PCBs get into them. A petrolatum-based ophthalmic ointment may be applied to the eye to relieve the irritating effects of PCBs.

Inhalation: Remove to fresh air. If skin rash or respiratory irritation persists, consult a physician.

NOTE TO PHYSICIAN—If electrical equipment arcs over, PCBs or other chlorinated hydrocarbon dielectric fluids may decompose to produce HCl, hydrochloric acid, a

respiratory irritant.

OCCUPATIONAL CONTROL PROCEDURES

Eye Protection: Wear chemical splash goggles and have eye baths available where there is

significant potential for eye contact.

Skin Protection: Wear appropriate protective gloves and protective clothing that provide a barrier

to prevent skin contact. Consult glove manufacturer to determine appropriate type glove for given application. Wear chemical safety goggles and a face shield and a protective apron that provides a barrier when splashing is likely. Wash immediately if skin is contaminated. Remove contaminated clothing promptly and launder before reuse. Clean protective equipment before reuse. Provide a

safety shower at any location where skin contact can occur. Wash thorogatter handling.

ATTENTION: Repeated or prolonged contact may cause chloracne in some people.

Respiratory Protection:

Eyes:

Avoid breathing vapor or mist. Use NIOSH/MSHA approved equipment when airborne exposure limits are exceeded. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical splash goggles. Consult respirator manufacturer to determine type equipment for given application. The respirator use limitations specified by NIOSH/MSHA or the manufacturer must be observed. High airborne concentrations may require use of self-contained breathing apparatus or supplied air respirator. Respiratory protection programs

must be in compliance with 29 CFR Part 1910.134.

Ventilation: Provide ventilation to control exposure levels below airborne exposure limits.

Use local mechanical exhaust ventilation at sources of air contamination such

as open process equipment.

Airborne

Exposure Limits: Chlorinated biphenyl (approximately 42% chlorine)

OSHA PEL: 1 mg/m³ 8-hour time-weighted average - Skin³ ACGIH TLV9: 1 mg/m³ 8-hour time-weighted average - Skin³

2 mg/m³ short-term exposure limit - Skin*

Chlorinated biphenyl (approximately 54% chlorine)

OSHA PEL: 0.5 mg/m³ 8-hour time-weighted average - Skin³

ACGIH TLV*: 0.5 mg/m³ 8-hour time-weighted average - Skin³

1 mg/m² short-term exposure limit - Skin*

Skin notation means that skin absorption of this material may add to the overall exposure. Avoid skin contact.

Monsanto Material SAFETY DATA

FIRE PROTECTION INFORMATION

Fire and Explosion:

PCBs are lire-resistant compounds. They may decompose to form CO, CO2, HCI, phenolics, aldehydes and other toxic combustion products under severe conditions such as exposure to flame or hot surfaces.

At temperatures in the range of 600-650°C in the presence of excess oxygen PCBs may form polychlorinated dibenzofurans (PCDFs). Laboratory studies under similar conditions have demonstrated that PCBs do not produce polychlorinated dibenzo-pdioxins (PCDDs).

PCBs in electrical equipment have been reported to produce both chlorinated dioxins (PCDDs) and furans (PCDFs) during fire situations. These combustion products may result all, or in part, from non-PCB components of the dielectric fluids or other combusted materials. Consult the equipment manufacturer for information regarding composition of the dielectric fluids in electrical apparatus.

Standard fire fighting wearing apparel and self-contained breathing apparatus should be worn when fighting fires that involve possible exposure to chemical combustion products. Fire fighting equipment should be thoroughly cleaned and decontaminated after use.

If a PCB transformer is involved in fire-related incident, the owner of the transformer may be required to report the incident. Consult and follow appropriate federal, state, and local regulations.

REACTIVITY DATA

PCBs are very stable, fire-resistant compounds.

HEALTH EFFECTS SUMMARY

Skin Contact: PCBs can be absorbed through intact skin. Local action on skin is similar to that of common organic solvents where contact leads to removal of natural fats and oils with subsequent drying and cracking of the skin. A potential exists for the contracting of chloracne.

Eye Contact:

The liquid products and their vapors are moderately irritating to eye tissues.

Ingestion:

The acute oral toxicities of the undiluted compounds are: LD₅₀ rats-8.65 gm/kg for 42% chlorinated, and 11.9 gm/kg for 54% chlorinated-"slightly toxic."

Inhalation:

Animal experiments of varying duration and at different air concentrations show that for similar exposure conditions, the 54% chlorinated material produces more liver injury than the 42% chlorinated material.

Other:

There are literature reports that PCBs can impair reproductive functions in monkeys. A study reported in the literature with female rats using Aroclor® 1260 stated that Aroclor 1260 caused liver cancers. Monsanto sponsored animal feeding studies of Aroclor 1242, 1254 and 1260. These compounds, fed to both sexes of rats, did not produce cancers. The National Cancer institute performed a study in 1977 using Aroclor 1254 with both sexes of rats. NCI stated that the PCB, Aroclor 1254, was not carcinogenic under the conditions of their bloassay.

(Health Effects Summary Continued On Next Page)

HEALTH EFFECTS SUMMARY (Continued)

The consistent finding in animal studies with PCBs is that they produce liver injulously lowing prolonged and repeated exposure by any route, if the exposure is of sufficient degree and duration. Liver injury is produced first, and by exposures that are less than those reported to cause cancer in rodents. Therefore, exposure by all routes should be kept sufficiently low to prevent liver injury.

Numerous epidemiological studies of humans, both occupationally exposed and non-worker environmentally exposed populations, have not demonstrated any statistically significant causal relationship between PCB exposures and chronic human illnesses such as cancer or neurological or cardiovascular effects. Nor was there any increase in overall cancer mortality as a result of PCB exposure. PCBs can cause dermatological symptoms; however, these are reversible upon removal of exposure source.

PCBs are identified as hazardous chemicals under criteria of the OSHA Hazard Communication Standard (29 CFR Part 1910.1200). The Standard requires that this document mention that PCBs have been listed in the International Agency for Research on Cancer (IARC) Monographs (1982)-Group 2B and in the National Toxicology Program (NTP) Annual Report on Carcinogens (Third).

PHYSICAL DATA

Properties of Selected Arcciors*								
Property	1016	1221	1232	1242	1248	1254	1260	_
Color (APHA)	40	100	100	100	100	100	150	
Physical state	mobile oil	mobile oil	mobile oil	mobile oil	mobile oil	viscous liquid	sticky resin	_/
Stability	inert	inert	inert	inert	inert	inert	inert	
Density (lb/gal 25°C)	11.40	9.85	10.55	11.50	12,04	12.82	13.50	
Specific gravity x/15.5°C	1.36-1.37 x-25°	1.18-1.19 x-25*	1.27-1.28 x-25°	1.30-1.39 x-25°	1.40-1.41 x-65°	1.49-1.50 x-65°	1.55-1.56 x-90°	3
Distillation range (°C)	323-358	275-320	290-325	325-366	340-375	365-390	385-420	
Acidity mg KOH/g, maximum	.010	.014	.014	.015	.010	.010	.014	
Fire point (°C)	none to boiling point	176	238	none to boiling point	none to boiling point	none to boiling point	none to boiling point	30
Flash point (°C)	170	141-150	152-154	176-180	193-196	none	none	210
Vapor pressure (mm Hg @ 100°F)	NA	NA	0.005	0.001	0.00037	0.00006	NA	
Viscosity (Saybolt Univ.	71-81	38-41	44-51	82-92	185-240	1800-2500	~	•

NA - Not Available

Sec. (a 100°F)

MATERIAL SAFETY DATA Polychlorinated Biphenyls (PCBs)

Monsanto MATERIAL SAFETY DATA

Page 5 of 6

SPILL, LEAK & DISPOSAL INFORMATION

Disposal of liquid PCBs and other PCB Items is strictly regulated by the federal government. The regulations are found at 40 CFR Part 761. Consult these regulations as well as applicable state and local regulations prior to any disposal of PCBs, PCB items, or PCB-contaminated items.

If PCBs leak or are spilled, the following steps should be taken immediately:

All non-essential personnel should leave the leak or spill area.

The area should be adequately ventilated to prevent the accumulation of vapors.

The spill/leak should be contained. Loss to sewer systems, navigable waterways and streams should be prevented. Spills/leaks should be removed promptly by means of absorptive material, such as sawdust, vermiculite, dry sand, clay, dirt or other similar materials, or trapped and removed by pumping or other suitable means (traps, drip-pans, trays, etc.).

Personnel entering the spill or leak area should be furnished with appropriate personal protective equipment and clothing as needed. See Occupational Control Procedures section of this MSDS.

Personnel trained in the emergency procedures and protected against the attendant hazards should shut off sources of PCBs, clean up spills, control and repair leaks and fight fires in PCB areas.

All wastes and residues containing PCBs (e.g., wiping cloths, absorbent material, used disposable protective gloves, clothing, etc.) should be collected, placed in proper containers, marked and disposed of in the manner prescribed by EPA regulations (40 CFR Part 761) and applicable state and local regulations.

Various federal, state, and local regulations may require reporting of PCB spills and may also define spill clean-up levels. Consult your attorney or appropriate regulatory officials for information relating to spill reporting and spill clean-up.

ADDITIONAL COMMENTS

Polychlorinated Biphenyls

For regulatory purposes, under the Toxic Substances Control Act the term "PCBs" refers to a chemical substance limited to the biphenyl molecule that has been chlorinated to varying degrees or any combination of substances which contain such substance (40 CFR Part 761).

Chemically, commercial PCBs are defined as a series of technical mixtures, consisting of many isomers and compounds that vary from mobile oily liquids to white crystalline solids and hard non-crystalline resins. Technical products vary in composition, in the degree of chlorination and possibly according to batch.

The mixtures generally used contain an average of 3 atoms of chlorine per molecule (42% chlorine) to 5 atoms of chlorine per molecule (54% chlorine). They are used as components of dielectric fluids in transformers and capacitors. Prior to 1972, PCB applications included heat transfer media, hydraulic and other industrial fluids, plasticizers, carbonless paper, paints, inks and adhesives. Federal regulations specify that non-totally enclosed PCB activities are permitted only if specifically exempted or authorized. (40 CFR Part 761).

CAS No. 001336363: For general class of compounds

(Additional Comments Continued On Next Page)

101307

ADDITIONAL COMMENTS (Continued)

Trade Names/Common Names

**ASKAREL-Generic name for a broad class of fire-resistant synthetic chlorinated hydrocarbons and mixtures used as dielectric fluids that commonly contained about 30-70% PCBs. Some ASKAREL fluids contained 99% or greater PCBs.

PYRANOL²² and INERTEEN²³ are trademarks for commonly used dielectric fluids that may have contained varying ratios of PCBs as well as other components including chlorinated benzenes.

- P'Registered trademark of Monsanto Company
- ■Registered trademark of General Electric Company
- ²⁴Registered trademark of Westinghouse Electric Corporation

This list of trade names is representative of several commonly used Monsanto products (or formulated with Monsanto products). Other trademarked PCB products were marketed by Monsanto and other manufacturers. PCBs were also manufactured and sold by several European and Japanese companies. Contact the manufacturer of the trademarked product directly, if not in this listing, to determine if the formulation contained PCBs and its composition.

DATE: 10/15/85

REVISED:

SUPERSEDES: All prior to 10/15/85

MSDS NO.: <u>G 4048</u>

FOR ADDITIONAL NON-EMERGENCY INFORMATION, CONTACT:

John H. Craddock

Product & Environmental Safety Director

Robert G. Kaley, II
Product & Environmental Safety Manager

Environmental Policy Staff Monsanto Company 800 North Lindbergh Boulevard St. Louis, Missouri 63167 (314) 694-4764

TERIAL SAFETY DATA Polychlorinated Biphenyls (PCBs)

Although the Information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Monsanto Company makes no representations as to the completeness or accuracy thereof, information is supplied upon the condition that the persons receiving same will make their own determination as to its autability for their purposes prior to use. In no event will Monsanto Company be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.



Material Safety Data Sheet*

Chemical Division

ESODIUM HYDROSULFIDE SOLUTION (45% SOLUTION IN WATER)

This Material Safety Data Sheet (MSDS) meets the requirements of the federal OSHA Hazard Communication Standard (29 1910.1200) CFR and the Canadian Controlled Product Regulation. WHMIS classified; D-1B, D-2B, E.

New Issue 3/89 Supersedes Issue Dated 11/87 MSDS No. 984722/SOD090 PIN: UN2922

EMERGENCY TELEPHONE NUMBERS

Transportation Emergencies:

USA-CHEMTREC: 1-800-424-9300 CANADA-CANUTEC: 613-996-6666

All Other Emergencies Call: 312-906-7054

I. PRODUCT IDENTIFICATION/COMPOSITION

COMPOSITION:

Sodium Hydrosulfide (45%), CAS Registry Number: 16721-80-5, CAS Index Name: Solution Sodium Sulfide (9CI).

Water (55%)

SYNONYMS:

Sodium bisulfide: Sodium hydrogen sulfide; Sodium sulfhydrate; NASH.

FORMULA: NaHS - Aqua

FORMULA WEIGHT: 56.07 - Aqua

II. PHYSICAL/CHEMICAL PROPERTIES

following achresent all available. applicable physical hazard data on product.

PHYSICAL/STATE DESCRIPTION:

Pale yellow liquid at 68°F (20°C) with odor characteristic of rotten eggs.

SPECIFIC GRAVITY (WATER = 1):

1.314 at 60°F (15.6°C)

FREEZING POINT:

63°F (17.2°C)

SOLUBILITY:

Soluble in water and alcohols

pH: 9-12 (45% solution)

III. CHEMICAL REACTIVITY

reacts with · all acids. including weak organic poisonous hydrogen liberating gas. It also with oxidizing reacts precipitate agents to elemental sulfur. Solution can be diluted proportions water in all miscible with alcohols. This is not sensitive to physical impact.

In Canada: Akzo Chemicals Ltd., 100 University Avenue, Ste. 908, Toronto, Ontario M5J 1V6

Also referred to as a Product Safety Information Sheet

101309

All information concerning this product and/or all suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Alzo Chemicals Inc., however, makes no warranty as to the accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Suyer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued bulletins on the subject matter covered.

Akzo Chemicals Inc. 300 S. Riverside Plaza Chicago, filinois 60606 (312) 906-7500

IV. STABILITY

solution, warming the aqueous Upon poisonous hydrogen sulfide gas will with increasing temperature. sodium hydrosulfide Because · solutions : the vapor space of are shipped hot, will contain containers normally hydrogen sulfide gas. Exposure of sodium hydrosulfide solution to air will cause some oxidation.

V. FIRE HAZARD

considered Not flammable: or combustible. However, under fire conditions decomposes to give off poisonous hydrogen sulfide gas. Once liberated, hydrogen sulfide will burn and has an explosive range of 4.3 - 45% in air. It is not sensitive to static discharge.

VI. FIREFIGHTING TECHNIOUES

Vapors from combustion are irritating to the respiratory tract and may cause breathing difficulty and pulmonary edema. Symptoms may be delayed several hours or longer depending upon the extent of exposure.

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential the personnel from fire Firefighters | should wear full-face. breathing self-contained apparatus impervious protective clothing.

Use standard firefighting techniques to extinguish fires involving this material. Use water spray, dry chemicals or carbon dioxide.

If not leaking, use a water spray to keep fire-exposed containers cool to prevent rupture due to excessive heat.

High pressure water hose may spread product from broken containers increasing contamination or fire hazard.

If hydrogen sulfide is evolved and is burning, it should be allowed to burn until the fire causing the decomposition of sodium hydrosulfde solution is extinguished.

Do not allow runoff to enter sewers, public waterway or any area where acids may be present. Diking procedures should be implemented for containment purposes. (See SECTION XI: SPILL HANDLING.)

Contaminated buildings, areas and equipment must not be used until they are properly decontaminated.

VII. TOXICOLOGY

INGESTION:

The acute oral LD50 is 58.4 mg/kg in male rats. A single oral dose of 50 mg/kg produced hyperactivity immediately after dosing followed by a moderate to severe decrease in physical activity and 30 percent mortality in male rats.

SKIN CONTACT:

The acute dermal LD50 is greater than 200 mg/kg in rabbits. A single dermal application of 200 mg/kg did not produce signs of toxicity or mortality in rabbits.

Corrosive to rabbit skin following a 4-hour exposure.

T-1861, T-4054, T-6307

VIII. HUMAN HEALTH

<u>DANGER</u>: Causes burns to skin and eyes. Can cause death if swallowed. Do not breath vapor. Do not get in eyes, on skin or on clothing.

sodium hydrosulfide mist Inhalation of may produce respiratory irritation and coughing. Sodium hydrosulfide " dissociate or be acidified to form poisonous hydrogen sulfide gas which inhaled may cause headache, dizziness, nausea and vomiting. Exposure to high concentrations of hydrogen sulfide may cause loss of consciousness, pulmonary edema, respiratory failure and death. sulfide Although hydrogen has a characteristic odor of rotten eggs. "deaden" concentrations rapidly the sense of smell, thus making odor a very unreliable means of protecting against overexposure.

Contact of the solution with the skin may produce burns. Repeated exposure to low concentrations of the solution or mists may result in dermatitis.

of Splashes solution mist may OT produce eye irritation or burns and tears. Prolonged contact may cause corneal injury. may cause throat and Ingestion of the solution burning of the followed by abdominal digestive tract, and diarrhea. pain, nausea, vomiting In severe cases, loss of consciousness and respiratory paralysis or death may occur.

IX. FIRST AID

CALL A POISON CENTER OR A PHYSICIAN IMMEDIATELY.

If a known exposure occurs OT suspected, immediately initiate the procedures below. recommended Simultaneously contact a Poison Center, nearest hospital. physician or the Inform the person contacted of the type and extent of exposure, describe the victim's symptoms and follow the advice given.

INGESTION:

If swallowed, immediately give several glasses of water, and induce vomiting by gagging the victim with a finger placed on the back of the victim's tongue. Give fluids until vomitus is clear. If victim is unconscious or convulsing, do not induce vomiting or give anything by mouth.

SKIN CONTACT:

Under a safety shower, <u>immediately</u> flush all affected areas with large amounts of running water for at least 15 minutes. Remove contaminated clothing and shoes. Do not attempt to neutralize with chemical agents. Get medical attention immediately. Wash clothing before reuse.

EYE CONTACT:

<u>Immediately</u> flush the eyes quantities of running water for minimum of 15 minutes. Hold the eyelids apart during the flushing ensure rinsing of the entire surface of the eye and lids with water. Do not with attempt neutralize to Obtain agents. medical attention Oils or ointments should immediately. not be used. Continue the flushing for an additional 15 minutes if a physician is not immediately available.

INHALATION:

Remove to fresh air. If not breathing, victim's airway clear and start mouth-to-mouth. artificial respiration which may be supplemented by the use of bag-mask respirator or a manually triggered oxygen supply capable second delivering one liter per more. Once breathing is restored. provide alternately 100% oxygen and Give the amyl nitrate. victim 100% from demand-type oxygen 2 OF inhaler, continuous-flow preferably with a physician's advice. Break an amyl nitrate pearl (ampule) in a cloth and hold it close to a victim's mouth and nose for 15-30 seconds. Remove cloth and let victim breathe oxygen for 30 seconds. Repeat this procedure five times at 30 second intervals for each amyl nitrate pearl. Repeat using a fresh amyl nitrate necessarv pearl every 5 minutes until 3 or 4 additional pearls have been given. victim stops breathing at any time. artificial respiration. Get medical attention immediately.

X. INDUSTRIAL HYGIENE

The recommendations described in this section are provided general 25 minimizing exposure when guidance for handling this Because product. use conditions will vary depending upon customer applications. specific safe handling procedures should be developed by a person knowledgeable of the intended use conditions and equipment. During the development of safe handling consideration procedures. should given to the need for cleaning of equipment and piping systems to render them nonhazardous before maintenance and repair activities performed. 216 resulting from these procedures should be handled in accordance with SECTION XIV: DISPOSAL OF MATERIAL/ CONTAINER.

ENGINEERING CONTROLS:

cases where engineering In those indicated controls are bу the conditions, following the traditional exposure control techniques may be used minimize employee effectively to ventilation. exposure: local exhaust process design enclosed system OL and remote isolation control in combination with appropriate use of personal protective equipment.

INGESTION:

All food should be kept in a separate away from the storage/use Eating, drinking and smoking location. should be prohibited in areas where there is potential for significant 2 exposure to Before this material. eating, hands and face should thoroughly washed.

SKIN CONTACT:

Skin contact with liquid or its aerosol must be prevented through the use of impervious clothing, gloves and footwear selected with regard for use condition exposure potential.

showers. with Safety quick opening valves which stay open, should readily available in all areas material is handled or the stored. Water should . be supplied through insulated and heat-traced lines prevent freeze-ups in cold weather.

EYE CONTACT:

Eye contact with liquid or aerosol must be prevented through the use of chemical safety glasses, goggles os a face shield selected with regard for use condition exposure potential.



Eye wash fountains, or other means of washing the eyes with a gentle flow of tap water, should be readily available in all areas where this material is handled or stored. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather.

1.00

INHALATION:

conditions airborne use generate handle this material only in an ? (e.g., outdoor) or well-ventilated Where adequate ventilation is not available, use NIOSH-approved dust, and fume respirators to reduce Where exposure potential : under the use conditions necessitates a 8 level of protection, use positive-pressure. air-supplied respirator.

half-face Either respirators in chemical goggles or combination with full-face respirators may be required certain usė conditions to prevent eve contact or irritation.

EXPOSURE LIMITS:

No exposure limits have been established for this material. However, the following exposure limits apply for hydrogen sulfide, a decomposition product:

Federal OSHA Permissible Exposure Limit (PEL): Ceiling of 20 ppm and a 50 ppm 10-minute excursion above ceiling. (1).

Recommended Threshold Limit Value (TLV): 10 ppm (14 mg/m³ as an 8-hour, time-weighted average and a Short-Term Exposure Limit (STEL) of 15 ppm (21 mg/m³) (2.)

XI. SPILL HANDLING

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices (refer to SECTION X: INDUSTRIAL HYGIENE).

Any person entering either a significant spill area or an area of unknown concentration of a gas or vapor should use a positive-pressure, self-contained breathing apparatus or a positive-pressure, supplied-air respirator with escape pack.

Soak up pooled liquid with a suitable absorbent clay, such 25 sawdust kitty litter. Sweep up material and place in a chemical waste for disposal container SECTION XIV: DISPOSAL OF MATERIAL/ CONTAINER). Do not use chemical waste container which contains acidic waste. Generously cover contaminated area with hydrated lime to further absorb and minimize odor. When all liquid possible has been absorbed. area thoroughly with water.

Spills should not be allowed to enter a sewer in which acidic waste might be present. This could result in the liberation of poisonous hydrogen sulfide and could be fatal to personnel near catch basins and manholes along the route of the sewer.

Large spills should be handled according to a predetermined plan.

XII. CORROSIVITY TO MATERIALS OF CONSTRUCTION

Solution is slightly corrosive to iron and steel. It is highly corrosive to aluminum, zinc and copper. Corrosion of steel is accelerated if moisture is present.

XIII. STORAGE REQUIREMENTS

Containers should be stored in a cool, well-ventilated area (preferably out of doors) away from flammable materials and sources of Store away from foodstuffs or flame. animal feed. Exercise due caution to prevent damage to or leakage from the container.

tanks built of carbon Storage steel 1, " thick should last at least 20 resin-fiberglass vears. Several reinforced tanks are now in service sodium hydrosulfide solution. Partially full tanks will cause problems corrosion because of the action with moist air: therefore. the use of a number of small tanks is recommended to minimize this problem. Heat is needed to keep the solution from freezing. Its freezing point is 63°F (17°C).

Because sodium hydrosulfide can dissociate to poisonous and flammable hydrogen sulfide, storage tanks should be closed vessels having a vent pipe equipped with a flame arrestor to prevent any flashback or explosion in

case vented hydrogen sulfide is burning. Continuous detectors and alarms in all storage and use areas are recommended to detect the presence of poisonous hydrogen sulfide gas.

XIV. DISPOSAL OF MATERIAL/CONTAINER

that cannot be used Material chemically reprocessed and empty containers should be disposed of facility in accordance approved any applicable regulations. State and local regulations may be more stringent than federal.

XV. PREPARATION INFORMATION

Prepared by: Product Stewardship, Akzo Chemicals Inc., Chicago, Illinois, (312) 906-7500.

REFERENCES CITED:

- (1) 29 CFR 1910:1000
- (2) American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values and Biological Exposure Indices for 1988-89, ACGIH: Cincinnati, OH, 1988.



Material Safety Data Sheet*

Chemical Division

CARBON DISULFIDE

This Material Safety Data Sheet (MSDS) meets the requirements of the federal OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Controlled Product Regulation, WHMIS classified as: B-2, D-2A, D-2B.

New Issue 3/89 Supersedes Issue Dated 9/85 MSDS No 983101/CAR016 PIN: UN1131

EMERGENCY TELEPHONE NUMBERS

Transportation Emergencies:

USA-CHEMTREC: 1-800-424-9300 CANADA-CANUTEC: 613-996-6666

All Other Emergencies Call:

312-906-7054

I. PRODUCT IDENTIFICATION/COMPOSITION

Carbon Disulfide (100%), CAS Registry

Number: 75-15-0.

FORMULA: CS2

MOLECULAR WEIGHT: 76.14

SYNONYM: Carbon bisulfide

CAS INDEX NAME (8CI9CI):

Carbon disulfide

II. PHYSICAL/CHEMICAL PROPERTIES

The following represent all available, applicable physical hazard data on this product.

PHYSICAL STATE/DESCRIPTION:

Clear, colorless to slightly yellow, mobile liquid at 68°F (20°C).

AUTOIGNITION TEMPERATURE:

194°F (90°C)

BOILING POINT:

115°F (46.3°C) at 760 mm Hg

DENSITY:

10.5 lb/gallon at 77°F (25°C)

FLAMMABLE RANGE:

(% by volume in air at 68°F (20°C)

Lower limit 1.3 Upper limit 50

FLASH POINT:

-22°F (-30°C), Closed Cup

In Canada: Akzo Chemicals Ltd., 100 University Avenue, Ste. 908,

Also referred to as a Product Safety Information Sheet

101315

All information concerning this product and/or all suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Alzo Chemicals Inc., however, makes no warranty as to the accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued bulletins on the subject matter covered.

Akzo Chemicals Inc. 300 S. Riverside Plaza Chicago, Illinois 60606 (312) 906-7500

MELTING POINT:

-169.1°F (-111.7°C)

ODOR:

١

Generally disagreeable, slight sulfide odor when pure.

SOLUBILITY:

0.22 g/100 ml water at 72°F (22°C).

Soluble in most organic liquids such as benzene, alcohol, carbon tetrachloride and ether.

SPECIFIC GRAVITY:

1.26 (water = 1)

VAPOR DENSITY:

2.63 (air = 1)

VAPOR PRESSURE:

100 mm Hg at 23°F (-5°C) 200 mm Hg at 51.1°F (10.6°C) 400 mm Hg at 82°F (28°C)

VISCOSITY:

0.36 cps at 73°F (22.8°C)

III. CHEMICAL REACTIVITY

Not considered highly reactive. However. reacts incandescently with chemically active metals such as zinc. sodium and potassium. Contact azides and inorganic amines can be explosive. Not compatible with strong It is not sensitive oxidizing agents. to physical impact.

IV. STABILITY

Stable at ambient temperatures and atmospheric pressure when kept in a closed container.

V. FIRE HAZARD

disulfide is 2 flammable Carbon It gives off flammable vapors. liquid. even at low temperatures -22°F/-30°C. which can form explosive mixtures in confined areas over a wide vapor/air mixtures. range of decomposes under fire material give off conditions to toxic materials sulfur dioxide and carbon such 25 Do welding or monoxide. not use cutting : rch on or near any container of this material, even empty, because an explosion could occur. Do not use, pour, spill or store near heat or open flame.

Tests have shown that carbon disulfide. because of its low ignition temperature and because of the extremely small joint clearance required to arrest its flame, cannot be included in any of the atmospheric groups in Section 500-2 of National Electric Code. Carbon should disulfide never be transferred by means of air. Use pump, water or inert gas to transfer. Do not use spark-producing tools or devices is stored, handled product OF Use wooden measuring stick measuring contents of containers and electrical tanks. No : installations facilities heating should be near storage area. in or Protect against lightning and static electricity (1).

VI. FIREFIGHTING TECHNIOUES

Products of combustion are irritating to the respiratory tract and may cause breathing difficulty and pulmonary edema. Symptoms may be delayed several hours or longer depending upon the extent of exposure.

As in any fire, prevent human exposure to fire, smoke, fumes or products of Evacuate nonessential combustion. personnel from the fire area. full-face, Firefighters | should wear breathing apparatus and self-contained impervious protective clothing.

Large carbon disulfide fires are best extinguished by completely blanketing the fire area with water fog or a water This will help prevent possible of reignition the carbon disulfide. Continue the water fog or water spray fire is completely the area Carbon dioxide (or other cooled off. gases) or dry chemical extinguishing agents may be used on small carbon disulfide fires.

Contaminated buildings, areas and equipment must not be used until they are properly decontaminated.

VII. TOXICOLOGY

INGESTION:

The acute oral LD50 is 3188 mg/kg in rats (2).

INHALATION: "

The acute inhalation LC50 is 2500 mg/m³ in rats following a 2-hour exposure (2).

Citations to original sources of toxicity data are available in RTECS; accession number: FF6650000 (2).

VIII. HUMAN HEALTH

Carbon disulfide can affect the body if it is inhaled, comes in contact with the eyes or skin or is swallowed. It may enter the body through the skin.

Inhalation of carbon disulfide may cause headache, nausea, drop in blood pressure. dizziness. unconsciousness and death. Liquid disulfide and high concentrations of the vapor may cause irritation of The liquid may skin, eyes and nose. burns. Swallowing disulfide may cause loss of conscious-If small amounts ness and convulsions. are swallowed, vomiting, diarrhea headache may occur.

Prolonged or repeated exposure carbon disulfide may damage the nervous and cause muscle weakness, system numbness, unsteady walking difficulty in swallowing. In addition, loss, headache, difficulty memory sleeping, nervousness. fatigue. tendencies suicidal depression, may Increased psychosis occur. arteriosclerosis may occur which cause or increase damage to the heart and other organs. Repeated prolonged exposure of the skin carbon disulfide may cause a rash (3).

There are sufficient human and animal data to indicate that prolonged repeated exposure to high levels carbon disulfide may be toxic to reproductive systems of both the and female, as well as the fetus. available evidence indicates that keeping exposures below the ACGIH TLV (10 ppm, 8-hour TWA) and OSHA PEL (4 ppm, 8-hour TWA and 12 ppm, 15-minute STEL) provides protection against these risks.

There is no convincing evidence that CS_2 is a human mutagen or teratogen at the present TLV/PEL for regular work exposure (4).

There are no data available which address medical conditions that are generally recognized as being aggravated by exposure to this product.

IX. FIRST AID

CALL A POISON CENTER OR A PHYSICIAN IMMEDIATELY.

If a known exposure occurs or if poisoning is suspected, do not wait for symptoms to develop.

Immediately recommended start the simultaneously procedures below and contact a Poison Center, a physician or hospital. Inform person contacted of the type and extent exposure, describe the victim's symptoms and follow the advice given.

INGESTION:

If swallowed, immediately give several glasses of water and induce vomiting by gagging the victim with a finger placed on the back of the victim's tongue. Give fluids until vomitus is clear. If victim is unconscious or convulsing, do not induce vomiting or give anything by mouth.

SKIN CONTACT:

safety Under 2 shower. immediately flush all affected areas with large amounts of running water for at least minutes. Remove contaminated clothing and shoes. Do not attempt to Get neutralize with chemical agents. medical attention immediately. Wash clothing before reuse.

EYE CONTACT:

Immediately flush the eyes with large quantities of running for water minimum of 15 minutes. Hold the apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water. Do not neutralize to with chemical Obtain medical agents. attention soon as possible. Oils or ointments should not be used at this time. Continue the flushing for an additional 15 minutes if a physician is not immediately available.

INHALATION:

inhaled, remove to fresh air. breathing, clear victim's airwav start mouth-to-mouth, artificial respiration, which may be supplemented by the use of a bag-mask respirator or mai, ally triggered oxygen capable of delivering one liter per broose or more. If victim breathing, oxygen may be given from a demand-type or continuous-flow preferably with a physician's Get medical attention immediately.

X. INDUSTRIAL HYGIENE

The recommendations described in section are provided 25 guidance for - minimizing exposure when handling this product. Because use conditions will vary depending upon customer applications. specific handling procedures should be developed by a person knowledgeable of the intended use conditions and equipment. During the development of safe handling consideration procedures. should be given to the need for cleaning of equipment and piping systems to render them nonhazardous before maintenance and repair activities are performed.

ENGINEERING CONTROLS:

where those cases engineering controls are indicated by the conditions, the following exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation. enclosed system design or process isolation and control. remote combination with appropriate of personal protective equipment.

INGESTION:

All food must be kept in a separate full-face respirators may be required area away location. Eating, drinking, smoking eye contact or irritation. and carrying of tobacco products must be prevented in areas where there is a potential for exposure to this material. en vice in the use

Before eating, drinking or smoking. hands and face must be thoroughly as washed.

SKIN CONTACT:

must be prevented through the use of conditions necessitates a higher impervious clothing, gloves and of protection, use a positive-pressure, footwear selected with regard for use air-supplied respirator. condition exposure potential. Footwear should not have exposed nails or metal EXPOSURE LIMITS:

Safety valves readily the material is handled or stored. Water should be supplied we through price insulated and heat-traced lines to prevent freeze-ups in cold weather. Industrial Hygienists (ACGIH)

EYE CONTACT:

Eye contact with liquid or zerosol must see skin notation (6). be prevented through the use of chemical safety glasses, goggles or six PELs and TLVs refer face shield selected with regard for concentrations use condition exposure potential. H

Eye wash fountains, or other means of XI. SPILL HANDLING tap water, should be readily available in all areas where this material is heat-traced lines to prevent freeze-ups INDUSTRIAL HYGIENE). in cold weather.

Either half-face respirators combination with chemical goggles from the storage/use in certain use conditions to prevent

INHALATION:

conditions generate vapor, the material should be handled in an open (e.g., outdoor) or wellventilated area. Where ventilation is not available, NIOSH-approved, organic vapor respirators to reduce exposure.

Skin contact with liquid or its aerosol . Where exposure potential under the use

The federal OSHA Permissible Exposure showers, with quick opening Limit (PEL) is 4 ppm as an 8-hour, which stay open, should be time-weighted average and 12 ppm as a available in all areas where 15-minute short-term exposure limit (STEL) with a skin notation (5).

> The American Conference of Governmental recommended a Threshold Limit Value (TLV) of 10 ppm (30 mg/m^3) as an 8-hour, time-weighted average with a

> > measured breathing zone by appropriate sampling

Make sure all personnel involved in the handled or stored. Water should be spill cleanup follow good industrial supplied through insulated and hygiene practices (refer to SECTION X:

Any person entering either a significant spill area or an area of unknown concentration of a gas or vapor, should use a positive-pressure, self-contained breathing apparatus or a positive-pressure, supplied-air respirator with escape pack.

Small spills can be handled routinely. Use adequate ventilation and/or wear a NIOSH-approved, organic vapor respirator to prevent inhalation exposure. Wear protective clothing to prevent skin and eye contact. Use the following procedures:

nonessential Evacuate all personnel from the spill area a location to upwind of the spill and far enough removed to avoid potential exposure. Use water to flush the spilled carbon disulfide into an impervious trench or other low-lying area from which it can removed via pumping or similar Carbon disulfide is more dense method. it will settle trench will be of the and by a layer of water. This layer serves 25 protective water 2 covering over the carbon disulfide and fire thereby reduces and exposure The collection trench should hazards. sufficiently baffled or blocked retain the carbon disulfide so that it escape from the maintained does not area. Dispose of collected material on-site. if possible. If on-site is disposal not possible. proper regulations shipping should be transporting considered before the material spilled to 2 disposal location.

Large spills should be zoned off and handled according to a predetermined plan which includes proper design and grading of storage and handling areas for spill control. Part of this plan

should include fire fighting techniques.

XII. CORROSIVITY TO MATERIALS OF CONSTRUCTION

Noncorrosive metallic to materials commonly used in the construction of and process equipment storagė shipping containers. Because of action, product's solvency should be used when shipping, storing or processing it in contact plastic material.

XIII. STORAGE REQUIREMENTS

Containers should be stored in a cool, well-ventilated area away from flammable materials, sources of heat or flame and direct sunlight. Store away from foodstuffs or animal Exercise due caution to prevent damage to or leakage from the container. No posted. smoking signs should be Firefighting. equipment should be' immediately available. No electrical installations heating facilities or should be permitted in or near storage Protect against lightning and areas. static electricity.

Storage area should be in an isolated location away from other buildings, preferably in a building of noncombustible construction and equipped with floor level ventilation. During hot weather, spray drums to keep vapor pressure down.

Tanks should be submerged in water or located over concrete basins containing Basins should be of sufficient water. hold ali of the capacity to contents in addition to the Water or inert gas should be provided over the carbon disulfide in all tanks.

CARBON DISULFIDE

Bulk material can be stored in underground tanks, tanks submerged in water or above ground tanks which are diked and have water in the dike. The void above the carbon disulfide must be filled with water, nitrogen or other suitable inert material.

XIV. DISPOSAL OF MATERIAL/ CONTAINER

Material that cannot be used or chemically reprocessed and empty containers should be disposed of at an approved facility in accordance with any applicable regulations. NOTE: State and local regulations may be more stringent than federal.

XV. PREPARATION INFORMATION

Prepared by: Product Stewardship, Akzo Chemicals Inc., Chicago, Illinois, (312)906-7500.

REFERENCES CITED:

(1) National Fire Protection Association (NFPA), Hazardous

<u>Chemicals Data</u>, Standard 49, NFPA: Quincy, MA, 1975.

- (2) National Institute for Occupational Safety and Health (NIOSH), Registry of Toxic Effects of Chemical Substances (RTECS), NIOSH: Cincinnati, OH, 1983.
- (3) National Institute for Occupational Safety and Health (NIOSH), Occupational Health Guideline for Carbon Disulfide-Reproductive System, NIOSH: Cincinnati, OH, 1978.
- (4) American Medical Association, Council on Scientific Affairs, Advisory Panel on Reproductive Hazards in the Workplace, Effects of Toxic Chemicals on the Reproductive System, Chicago, IL, 1985.
- (5) 29 CFR 1910.1000.
- (6) American Conference of Governmental Industrial Hygienists (ACGIH), Threshold Limit Values and Biological Exposure Indices for 1988-89, ACGIH: Cincinnati, OH, 1988.

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	CHE	MICAL	COMPANY	e E		
A GENERALINFORMATI	ONE		·:			
TRADE NAME (COMMON NAME Sulfuric Acid	OR SYNONYM)			1 -	64-93-9	ED PRODUCT COD
CHEMICAL NAME				<u> </u>	· · · · · -	
Sulfuric Acid				÷		
FORMULA 58% to 99% H ₂ SO ₄ in water					MOLECULAR	98.08
COMPANY/PLANT ADDRESS (No Chemicals Company P.O. Box 1139R Morristown, N.J. 07960	., STREET, CITY, STATE AND	ZIP CO	DE)			
CONTACT Director - Technical Service			NUMBER (15) 487-4990	issued Ju	DATE ne 12, 1980	REVISED DATE
B SFIRST AID MEASURES						
Skin or Eyes: Promptly flush	with planty of water for at le	ast 15				PHONE NUMBER 1) 455-2000
minutes. Remove contaminate Ingestion: Drink large amounts Get prompt medical attention Additional procedures are outli	of water (or milk if evailable for ingestion, inhalation, eye	contact	, irritation or burns		omiting.	
FLASH POINT OC		°c	FLAMMABLE LIMI	TS IN AIR (% BY VOL.)	
Not Flammable	NA - Not Applicable		LOWER NA		UPI	PER NA
UNUSUAL FIRE AND EXPLOSIO Flammable and potentially exp Concentrated acid can ignite co	olosive hydrogen gas can be g	jenerate	d inside metal drum	s and store	ge tanks.	
HEALTH	•				•	
INHALATION Inhalation of fumes or acid m system, including nose, mouth						
INGESTION Can cause irritation and corros Can be fatal if swallowed.	ive burns to mouth, throat, a	and ston	nach,		<u> </u>	
SKIN Can cause corrosive burns or in	ritation.					
EYES Can cause irritation, corneal bu	uns and confunctivitie		 	•		
PERMISSIBLE CONCENTRATION		: 1 mg/	m ³ as 100% H ₂ SO ₄		HOLOGICAL	
UNUSUAL CHRONIC TOXICITY	· · · · · · · · · · · · · · · · · · ·		······································		1	61322

DEPRECAUTIONS/PROCEDURES

•	/=	NT	44	ATI	ON.

Sufficient to reduct acid mist below current permissible TLV levels.

Packaging and unloading areas and open processing equipment may require mechanical exhaust systems.

100

NORMAL HANDLING

Use protective equipment outlined in Section E. Procedures are detailed in references listed in Section J. Safety showers and eyewash facilities should be available nearby all H₂SO₄ handling equipment. Do not add water to acid. When diluting, always add acid to water cautiously and with acitation.

STORAGE

Store in cool, well-ventilated area away from combustibles and reactive chemicals. Vent metal containers weekly or more frequently in hot weather to prevent H2 gas build-up. Diking of storage tanks is recommended.

PRECAUTIONARY LABEL

ATTACHED & NOT ATTACHED

Label warning statement(s): "Danger! Liquid is corrosive. Causes severe burns. Vapor may contain explosive hydrogen. Keep sources of ignition away."

SPILL OR LEAK

Dilute small spills or leaks cautiously with pienty of water. Neutralize residue with alkali such as soda ash or lime. Adequate ventilation is required for soda ash due to release of CO₂ gas. (See Section I for disposal methods.)

FIRE EXTINGUISHING AGENTS RECOMMENDED

NA Higher Tribes

SPECIAL FIRE FIGHTING PRECAUTIONS

ph temperatures, H2SO4 mists or SO3 gas can be released from vented or ruptured containers. If water is added to concentrated sulfuric acid, violent spattering can occur, and considerable heat may be evolved. Full protective equipment is recommended.

FIRE EXTINGUISHING AGENTS TO AVOID

NA

SPECIAL PRECAUTIONS/PROCEDURES

To prevent ignition of hydrogen gas generated in metal containers from contact with sulfuric acid, smoking, open flames, and sparks must not be permitted in storage areas,

ES PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

Where required, use a respirator approved by NIOSH for sulfuric acid gas or mists, as applicable. Some exposures may require NIOSH-approved, self-contained breathing apparatus or air-supplied respirator.

EYES AND FACE

As a minimum, wear hard hat, chemical safety goggles, and full-face plastic shield. Do not wear contact lenses.

HANDS, ARMS, AND BODY

As a minimum, wear acid-resistant apron, protective clothing, boots and gauntlet gloves for routine product use. For sed protection, include acid-resistant trousers and jacket.

8

OTHER CLOTHING AND EQUIPMENT

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:.*			
PSE PHYSICAL DATA			
MATERIAL IS (AT NORMAL CONDITIONS):	APPEARANCE AND ODOR Oily, colorless to slightly yellow, clear t	o turbid	liquid. Odorless.
BOILING POINT * a. 136 °C b. 279 °C c. 310 °C	SPECIFIC GRAVITY * a. 1,480 b. 1.835 c. 1.842		APOR DENSITY IR = 1) NA
SOLUBILITY IN WATER (% by weight) complete	рн 1% solution; pH = 0.9		APOR PRESSURE nm H9 at 20° C) negligible
EVAPORATION RATE (Butyl Acetate = 1) Less than 1	% VOLATILES BY VOLUME (At 20° C)		(*) a. 47° Be' = 58% H ₂ SO ₄ b. 66° Be' = 93% H ₂ SO ₄ c. 99% H ₂ SO ₄
G第 ^文 REACTIVITY DATA\$			
STABILITY	CONDITIONS TO AVOID	 -	
UNSTABLE I STABLE			
INCOMPATIBILITY (MATERIALS TO AVOID) Avoid contact with combustible materials, casts or strong reducing agents. Considerable heat container.	arbides, chlorates, nitrates, fulminates, pis evolved, and violent reaction can occur	icrates, r	netallic powders, sulfides, r is added to acid in a
HAZARDOUS DECOMPOSITION PRODUCTS SO3 gas			
HAZARDOUS POLYMERIZATION	CONDITIONS TO AVOID		
☐ MAY OCCUR ☑ WILL NOT OCCUR			
H. THAZARDOUS INGREDIENTS (Mixture	ぎ.Only)営		
MATERIAL OR C	COMPONENT	*	HAZARD DATA (SEE SECT. J)
NA		-	
		-	
		1	
	•		
			101324
1		ı	1 101324

ENVIRONMENTAR

DEGRADABILITY

OCTANOLWATER PARTITION COEFFICIENT

WASTE DISPOSAL METHODS"

Dilute with water, neutralize with alkali and flush to sewer with plenty of water if permitted by applicable disposal regulations. Neutralized waste may have to be disposed of by an approved contractor.

*DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISC. .. RGE LAWS.

REFERENCES

PERMISSIBLE CONCENTRATION REFERENCES

OSHA standard, 29 CFR, Part 1910,1000 (July 1, 1977).

"Criteria for a Recommended Standard . . . Occupational Exposure to Sulfuric Acid, "NIOSH (U.S. Dept. of HEW), 1974.

REGULATORY STANDARDS

DOT Classification - Corrosive; Placard - Corrosive; Label - Corrosive (49 CFR). Designated a hazardous substance spills by EPA (40 CFR, Parts 116 - 117).

GENERAL

"Criteria for a Recommended Standard . . . Occupational Exposure to Sulfuric Acid," NIOSH (U.S. Dept. of HEW) 1974. Also available are Allied Chemical's sulfuric acid wall chart, a Technical Service Report which discusses storage and handling, and a product information bulletin.

K ADDITIONAL INFORMATIONS

Information (hazards, precautions, first aid, etc.) is abbreviated. More detailed information is contained in references found in Section J.

This product is not for food or drug use.

101323

INIS PRODUCT SAFE TO DATA SHEET IS OFFERED SOLELY FOR YOUR INFORMATION CONSIDERATION AND A SUBSTITUTE OF THE PRODUCT OF THE PR

INVESTIGATION IS

ALUED CHEMICAL PROVIDES NO WARRANTIES TITLER EXPRESS OR IMPLIED, AND ASSUMES NO RESPONSIBILITY
FOR THE ACCUMACY OR COMPLETENESS OF THE DATA CONTAINED HEREIN

Paul Chlus

MATERIAL SAFETY DATA SHEET

CAS # 7733-02-0

Zinc Corporation of America 300 Frankfort Road Monaca, Pa. 15061

412-774-1020

Common Name and Synonyms: The State State Common

Zinc Sulfate Solution MSDS #: 926

Date Issued: 11/6/87

Source: Bag Filter Dust Circuit

Date Revised:

HAZARDOUS INGREDIENTS

Section I

Ingredient

×

NTP or IARC Carcinogen 8-hr Exposure Limit (mg/MS)

TLY PEL

Does not contain US EPA defined hazardous substances.

ZnSO,

PHYSICAL DATA

Section II

Appearance: Clear, colorless, odorless liquid. Specific gravity = 1.4, pH=5.

Produces white crystals when evaporated to dryness.

Solubility in Water: Complete.

FIRE AND EXPLOSION HAZARD DATA

Section III

Combustibility: Noncombustible as solution or as dried crystals.

Extinguishing Media and Fire Fighting Procedures: Any suitable for the pupporting fire.

REACTIVITY DATA

Section IV

Stability: Stable. Dry crystals decompose above 1364° F to evolve SD2.

Incompatability (Materials/Conditions to Avoid): None indicated.

Paul Ellers

MATERIAL SAFETY DATA SHEET Cont'd.

HEALTH HAZARD DATA

Section V

3

Effects of Overexposure: Liquid or mist irritating to eye, nose and throat.
Prolonged exposure to skin can cause dryness and irritation.

Emergency and First Aid Procedures: Flush area of contact with water. It is unlikely that overexposure to this material would result in an acute illness. However, if symptoms are present, the individual should be removed from exposure and the plant nurse or physician consulted.

SPILL OR LEAK PROCEDURES

Section VI

teps to take in case of spill or accidental release: Place spilled or contaminated material in drums or other suitable container.

Waste Disposal Method (Location) : Ship to approved chemical disposal site.

TORAN IN Y

SPECIAL PROTECTION INFORMATION

Section VII

Respiratory Protection (Specify Type): NIOSH-approved dust/mist respirator, such as Comfo II, when exposed to mist or dust from dried material.

Ventilation: May be needed to control mist.

Other Protective Equipment: Goggles and water proof gloves.

SPECIAL PRECAUTIONS

Section VIII

<u>Precautions to be taken in handling and storage:</u> No unusual precautions.

Minimize direct contact.

CASTROL INDUSTRIAL EAST INC. 775 Louis Drive Warminster, PA 18974 (215) 443-7080

FECTION IT

PRODUCT MANE OR MUNICIPAL CONST-CLEAN BOS

NAMERACTURES & - EASTE - CARTROL - INDUSTRIAL -----

CRYAT LAXES INCORPORATED

ADDRESS: 1445 McPhesson Park Dr., P.O. Bou 860, Hevell, NI 48844-0860 .

PROPER'SHIPPING MANEGAD GFR 172,1011: Mat regulated :....

EATARD CLASS(49 CFR 172,101) Not regulated

BALARD ID MUNICER: Not applicable

CEDUCAL FAMILY: Alkaline water base solution . .

SECTION II

Blend of surfactants, couplers, builders, dyes, conditioners and water

15-99I

Sodium hydronide

1-31 TLV*: 2Mg/m3 (OSMA)

. 2mg/m3 (ceiling) (ACCIB)

.V means Threshold Limit Value. " This refers to airborne concentrations of substances and represent condition believed that nearly all workers may be repeatedly exposed day after day without adverse effect."

SECTION III TYPICAL PHYSICAL DATA NOT TO BE CONSIDERED SPECIFICATIONS

BOILING POIRT (Initial):

SPECIFIC CRAVITY:

VAPOR PRESSURE (mm Hg):

VAPOR DENSITY (ALT-1):

EVAPORATION RATE (ether=1):

PERCENT VOLATILE BY WEIGHT:

SOLUBILITY IN DATER:

₽**B**i

approx. water

1.2

Approx. water

appros. Water

appres. 1

65-75 .

Complete

Concentrate - 12.5-13.0

52 dilution - 11.9-12.3

APPENDANCE AND COOK.

Clear male yellswerreen liquid: mild ming -

SECTION IV PIRE AND EXPLOSION BALLED DATA -

TLASS POINT (merhod used): "Name

PLANGUALE LIMITS IN AIR, I RY VOLUME:

Towardall Honorina

Hos applicable

ENTIRCUISHING REDIA: Fire and hear may drive off warer leaving chemical ingredients which may hurn.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-sentained breathing apparetus when fire fighting in a confined space

wisual fire and Explosion Eagards, Hene known ".

CONTAINER RANDLING: Do not out or weld empty drume unless they are thoroughly cleaned.

101328

SECTION Y STALTS BALAND DATA

MRESDLE LIKE THUE. But colablished for the products -- to - to be to ---------LISTED CARCIFORDE (STF. LARC OR OSHA); "This product does not contain and 'sisted defelhasens.

ACCURATE AND MANAGEMENT AND ACCURATE MANAGEMENT

Li Corrective

The concentrate will irritate or burn skin after short contact due to high elkalinity. Bilutions of il in water Skin Contact:

close have alkalinity similar to hand beay, although the product is not intended for wee as hand seep.

Concentrate will hypitate or burn ope tiesus. Dilutions will be insiteting: Bre Contact:

Inhelectors The concentrate is not volutile, so me inhelation should be possible.

Consessors - Will -be-hibsful-if . systimus ... Hessus-of--its-ethelists--- It-will-leritets ... Third-wishes Ingest ten....

erseule Expects. A society of theseseus sugicions in bougainst instable-Investment that delicate interest the board to be the stable of

ampeaure to very limited.

EXERCISES AND FIRST AID PROCEDURES.

Blintien - wash with seap and water, Launder contacted disthing Skin Contact: Concentrate - wash off with plain water.

Pre Contest: Flush with weses for at least 15 minutes. Centact physician,

Inhelations If threat to treitaged by vapers, move to fresh air.

If demonstrate to dualloyed, DO NOT Links . Tomiting. Sive large quantities of before Insestions

innedictely. Mayor give anything by mouth to an unconscious person.

SECTION VI-REACTIVITY DATA HINTAGIFOR

STABILITY: Stable

GONDITIONS TO AVOID: Contact with strong shids; contact of concentrate with active metal fines such as aluminum.

INCOMPATIBILITY: Store away from atrong exidisers. .

Mainhbous bucomensition recourts: Sydrocarbon decomposition products at elevated temperatures.

MOUS POLYMERICATION: Will not seems " ONDITIONS TO AVOID: None known

STCTION VII SPILL OR LEAK PROCEDURES

Stire to be danch in case material is released or spilled!

Small Spills: Sook up with obserbent material.

Large Spiller. Dike area to provent sucoff, securer liquid, sock up remaining liquid with absorbent material

MASTE DISPOSAL METROD: Dispose of in accordance with Local, state and federal regulations

BULY BYTYSDORE ATTER DESIGNATION. LIVE-Ausgent. goes. Left... Studen. SARABLE TAX. MONY destrictions. St bysshops aveig after gentluveres. 8002 because of its alkalinity if the product is disposed of in its original form, a

-CERULA (Superfund) REPORTABLE GULHELTY: This product doss approsing CERCLA regulered material, section hydroxide, RQ-1000 LBS.

RESTIGN VILL SPESIAL PROTECTION INFORMATION

RESTIRATORY PROTECTION: Cook industrial hypiene practices recommend that engineering controls (such as local and/or mechanics. ventilisation) be used to resuse environmental concentrations to the permissible expessure level. Respirators may be used who: engineering and work practice controls are not technically feasible, when such controls are in the process of being installed, o. when they fall and need to be supplemented. If the use of a gasplester to movement the muly to distribute approved the supplient tespicates as an add partiples corplessors ------

PROTECTIVE GLOVES: Impervious gloves (such as subber, meoprene, MIR mistile, polyethylene) when handling the sensentrate. Err Professor: Safety glasses with side shields or chemical gesties STATE PROTECTIVE SQUIPKENT: Appropriate electing to avoid skin sentact

FURCER SILE.

CASTROL INDUSTRIAL

ÁZD 4/25/89

GREAT LAKES ENCORPORATED

PACE :

MONO-COAT, MONO-LUBE, BATETY-COOL, BATETY-TILM and BATETY-LUBE are registered trademarks of CHEM-TREMP ENCORPORATED

PAGE OF UP 05

1,1,1-TRICHLORGETHANE
1,1,1-TRICHLORGETHANE
1,1,1-TRICHLORGETHANE

MATERIAL SAFETY DATA SHEET

FISHER SCIENTIFIC CHEMICAL DIVISION 1 REAGENT LANE FAIR LAWN NJ 07410 (201) 796-7100 EMERGENCY CONTACTS: GASTON L. PILLORI (201) 796-7160

THE INFORMATION BELOW IS BELIEVED TO BE ACCURATE AND REFRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES.

SUBSTANCE IDENTIFICATION

CAS-NUMBER 71-55-6

SUBSTANCE: **1,1,1-TRICHLORDETHANE**

TRADE NAMES/SYNONYMS: METHYL CHLOROFORM; ETHYLIDYNE CHLORIDE; UN 2831

LHEMICAL FAMILY:

HYDROCARBON, ALIPHATIC

HOLECULAR FORMULA: C2-H3-CL3 MOL WT: 133.41

CERCLA RATINGS (SCALE 0-3): HEALTH=2 FIRE=0 REACTIVITY=2 PERSISTENCE=3

NFPA RATINGS (SCALE 0-4): HEALTH=3 FIRE=1 REACTIVITY=1

COMPONENTS AND CONTAMINANTS

PERCENT: >95 COMPONENT: 1,1,1-TRICHLORGETHANE

PERCENT: (5 COMPONENT: INHIBITOR TO PREVENT CORROSION OF METALS

CTHER CONTAMINANTS: NONE

EXPOSURE LIMITS:

350 PPM OSHA TWA; 350 PPM ACGIH TWA; 450 ACGIH STEL;

350 PPM NIOSH RECOMMENDED 15 MINUTE CEILING

PHYSICAL DATA

DESCRIPTION: COLORLESS LIQUID WITH A MILD CHLOROFORM-LIKE ODOK.

BOILING POINT: 165 F (74 C) MELTING POINT: -36 F (-32 C)

SPECIFIC GRAVITY: 1.3 VAPOR PRESSURE: 100 MMHG @ 20 C

EVAPORATION RATE: (CCL4=1) 1 TTE SOLUBILITY IN WATER: 0.44%

FAGE 02 OF 05

SOLVENT SOLUBILITY: ACETONE, BENZENE, CCL4, METHANOL, AND ETHER.

ODOR THRESHOLD: 20-100 PPH VAPOR DENSITY: 4.6

FIRE AND EXPLOSION DATA

The second secon

FIRE AND EXPLOSION HAZARD:

NEGLIGIBLE FIRE HAZARD AND EXPLOSION HAZARD WHEN EXPOSED TO HEAT OR FLAME.

FLASH POINT: NONFLAMMABLE UPPER EXPLOSION LIMIT: 10.5%

LOWER EXPLOSION LIMIT: 8.0% AUTOIGNITION TEMP.: 998 F (537 C)

FLAMMABILITY CLASS(OSHA): IIIA

FIREFIGHTING MEDIA:

DRY CHEMICAL OR CARBON DIOXIDE CARBON DIOXIDE

(1984 EMERGENCY RESPONSE GUIDEBOOK, DOT F 5800.3).

FOR LARGER FIRES, USE WATER SPRAY, FOG OR ALCOHOL FOAM (1984 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.3).

FIREFIGHTING:

STAY AWAY FROM STORAGE TANK ENDS. COOL CONTAINERS EXPOSED TO FLAMES WITH WATER FROM SIDE UNTIL WELL AFTER FIRE IS OUT (1984 EMERGENCY RESPONSE GUIDEBOOK | DC P 5860.3).

TUXICITY

27 GH/M3/10 MIN INHALATION-MAN LCLO; 1000 PPM INHALATION-RAT LCLO; 10300 MG/!: ORAL-RAT LD50, 11240 ORAL-MOUSE LD50; MUTAGENIC DATA (RTECS); REPRODUCTIVE) EFFECTS DATA (RTECS), INDEFINITE ANIMAL CARCINOGEN (IARC). DATA AVAILABLE DO NOT PERMIT EVALUATION OF CARCINOGENICITY OF 1,1,1-TRICHLORDETHANE TO BE HADE 1,1,1-TRICHLOROETHANE IS A SKIN IRRITANT AND CENTRAL NERVOUS SYSTEM DEFRES-SANT. EXPOSURE MAY IRRITATE THE EYES AND MUCOUS MEMBRANES. POISONING MAY AFFECT THE CARDIOVASCULAR SYSTEM AND LIVER. ALCOHOLIC BEVERAGES MAY ENHANCE THE SYSTEMIC EFFECTS.

HEALTH EFFECTS AND FIRST AID

INHALATION:

NARCOTIC. 1000 PPM IS IMMEDIATELY DANGEROUS TO LIFE AND HEALTH. ACUTE EXPOSURE- INDIVIDUALS EXPOSED TO 900-1000 PPM FOR 20 MINUTES EXPER!-ENCED LIGHT-HEADEDNESS, INCOORDINATION, AND IMPAIRED EQUIL-IBRIUM. EXPOSURE TO HIGHER CONCENTRATIONS FOR EXTENDED PER: ODS OF TIME MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION WITH DIZZINESS, INCOORDINATION, DROWSINESS, INCREASED REACTION TIME, UNCONSCIOUSNESS, AND DEATH, "SUDDEN DEATHS" MAY UCCU: DUE TO SENSITIZATION OF THE MYOCARDIUM TO EPINEPHRINE. (CAUSING CARDIAC ARRYTHMIA). DEATH MAY ALSO BE CAUSED BY ASPHYXIA DUE TO THE REDUCTION IN OXYGEN AVAILABLE FOR BREATHING. AT EXTREMELY HIGH CONCENTRATIONS, LIVER AND KIDNEY INJURY MAY OCCUR. REPEATED EXPOSURE TO THE POINT OF ANESTHESIA MAY CAUSE REVERSIBLE HEFATITIS (ANIMAL).

101331

PAGE 03 OF 05

- CHRONIC EXPOSURE- IN EXPERIMENTAL ANIMALS, LIVER AND KIDNEY DAMAGE HAVE BEEN MINIMAL. SEE ANIMAL MUTAGENIC AND REPRODUCTIVE EFFECTS REFERENCES IN TOXICITY SECTION. AT 1000 TO 10,000 PPM: 3-MONTH EXPOSURES OF ANIMALS CAUSED SOME PATHOLOGIC CHANGES IN THE LIVERS AND LUNGS OF SOME SPECIES. WHEN REPEATED, REDUCED TO 500 PPM: PATHOLOGIC CHANGES WERE ELIMATED, BUT THERE WAS SOME GROWTH LOSS.
- FIRST AID- REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. IF BREATHING WITH HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. IF BREATHING WITH DIFFICULTY, GIVE OXYGEN. REMOVE ANY CONTAMINATED CLOTHING. DO NOT GIVE EPINEPHRINE (ADRENALIN). KEEP AFFECTED PERSON WARM AND ATREST. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

IRRITANT.

- ACUTE EXPOSURE- CONTACT WITH THE LIQUID MAY CAUSE IMMEDIATE IRRITATION AND REDNESS. THE SUBSTANCE CAN BE ABSORBED TO A MODERATE DECREE PRODUCING SYSTEMIC EFFECTS OF DIZZINESS, HEADACHE, INCOORDINATION, AND DROWSINESS.
- CHRONIC EXPOSURE- REPEATED SKIN CONTACT MAY PRODUCE A DRY, SCALY, FISSURED DERMATITIS DUE TO THE DEFATTING PROPERTIES OF THE LIQUID.

 SEE ANIMAL MUTAGENIC AND REPRODUCTIVE REFERENCES IN TOXICITY SECTION.
- FIRST AID- REMOVE CONTAMINATED CLOTHING AND SHOES IMMEDIATELY. WASH AFFECT: Y AREA WITH SCAP OR MILD DETERGENT AND LARGE AMOUNTS OF WATER UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 15-20 MINUTES). GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:

IRRITANT.

ACUTE EXPOSURE- HIGH VAPOR CONCENTRATIONS (800-1000 PPM) MAY CAUSE IRRITA-TION AND REDDNESS DIRECT CONTACT OF THE LIQUID MAY CAUSE TEMPORARY INJURY WITH COMPLETE RECOVERY EXPECTED IN 46 HOURS. DIRECT APPLICATION TO THE EYES OF RABBITS HAS CAUSED CONJUNCTIVAL IRRITATION. BUT NO CORNEAL DAMAGE.

CHRONIC EXPOSURE- NO EFFECTS KNOWN IN HUMANS.

FIRST AID- WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER LIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS (APPROXIMATELY 10-20 MINUTES). GET MEDICAL ATTENTION.

INGESTION: NARCOTIC.

ACUTE EXPOSURE- SYMPTOMS PROGRESS THROUGH HEADACHE, DIZZINESS, NAUSEA,
FAINTING, RESPIRATORY DEPRESSION, HYPOTENSION, ARRHYTHMIAS,
AND UNCONSCIOUSNESS. LIVER AND KIDNEY DAMAGE MAY OCCUR.
THE ADULT FATAL DOSE IS ESTIMATED TO BE 5 ML.

FIRST AID- GET MEDICAL ATTENTION IMMEDIATELY. IF MEDICAL ATTENTION IS NOT IMMEDIATELY AVAILABLE, AND IF VICTIM IS CONSCIOUS, ATTEMPT TO INDUCE VOMITING BY TOUCHING FINGER TO BACK OF THROAT.

REACTIVITY

EACTIVITY:

_TABLE UNDER NORMAL CONDITIONS. REACTS VIOLENTLY WITH ALKALI, EARTH-ALKALINE, AND WITH VARIOUS METAL POWDERS. THE SUBSTANCE CAN BE HYDROLYZED BY WATER TO FORM HYDROCHLORIC ACID AND ACETIC ACID. THE SUBSTANCE WILL REACT WITH STRONG CAUSTICS, SUCH AS CAUSTIC SODA OR CAUSTIC POTASH TO FORM FLAMMABLE OR EXPLOSIVE MATERIAL. AN INHIBITOR IS REQUIRED TO PREVENT THE CORROSION OF METALS.

INCOMPATIBILITIES:

ACETONE + BASE: EXPLOSION.

LIQUID OXYGEN + IGNITION SOURCE: EXPLOSION.

SODIUM-POTASSIUM ALLOY + LIQUID OXYGEN WITH AN ENERGY SOURCE: EXPLOSION

STRONG OXIDIZERS: VIOLENT REACTION. STRONG CAUSTICS: VIOLENT REACTION.

CHEMICALLY ACTIVE METALS (ALUMINUM POWDER, SODIUM, POTASSIUM, MAGNESIUM

POWDER): VIOLENT REACTION. NATURAL RUBBER: DECOMPOSES.

SODIUM: SPONTANEOUSLY FLAMMABLE COMPOUND FORMED.

SODIUM HYDROXIDE: SPONTANEOUSLY FLAMMABLE COMPOUND FORMED.

NITROGEN TETRADXIDE: EXPLODES.

DECOMPOSITION:

THE SUBSTANCE WILL DECOMPOSE AT HIGH TEMPERATURES UPON CONTACT WITH HOT METAL OR UNDER ULTRAVIOLET RADIATION TO PRODUCE TOXIC AND CORROSIVE GASES SUCH AS "YDROGEN CHLORIDE, DICHLOROACETYLENE, AND VERY SMALL-AMOUNTS OF CHLORINE AND HOSGENE.

POLYMERIZATION:

NOT KNOWN TO OCCUR.

MAY BURN BUT DOES NOT IGNITE READILY. CONTAINER MAY EXPLODE IN HEAT OF FIRE. AVOID ULTRAVIOLET RADIATION. AVOID OPEN FLAMES, WELDING ARCS OR OTHER HIGH TEMPERATURE SOURCES, WHICH INDUCE THERMAL DECOMPOSITION OR EXPLOSION. AVOID AUTOIGNITION TEMPERATURE. 537 C.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL:

SHUT OFF IGNITION SOURCES. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. FOR SMALL LIQUID SPILLS, TAKE UP WITH SAND, EARTH OR OTHER ABSORBENT MATERIAL. FOR LARGER SPILLS, DIKE FAR AHEAD OF SPILL FOR LATER DISPOSAL. NO SMOKING, FLAME OR FLARES IN HAZARD AREA! KEEP UNNECESSARY PEOPLE AWAY.

PROTECTIVE EQUIPMENT

ENTILATION:

ROVIDE LOCAL EXHAUST VENTILATION SYSTEM TO MEET PERMISSIBLE EXPOSURE LIMITS.



AVTEX FIBERS FRONT ROYAL INC. AVTEX FIBERS SITE

APPENDIX D CRID PATTERN DATA

ADMINISTRATIVE ORDER Docket No. III-90-01-DC

Prepared for U.S. Environmental Protection Agency Hazardous Waste Management Division

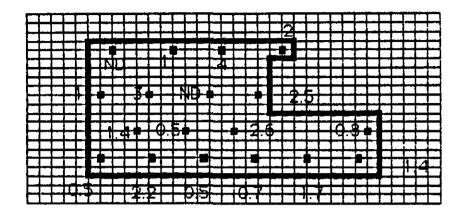
Region III

November 7, 1989

AVTEX FIBERS FRONT ROYAL INC.

Kendrick Lane
P.O. Box 1169

Front Royal, Virginia 22630



DUMPSTER SITE AT COMPRESSOR ROOM

FINAL READINGS AFTER 12 INCHES OF EARTH REMOVED. HIGH 4 ppm LOW Non Detected Will refill with clean fill

S.D.MYERS, INC.
FIELD SERVICE DIVISION Page: Job. No.: . Date: 10/17/89 COMPRESSOR ROOM ROOF OVER Flow Eubject: J.F. Fibers AYTEX Location: BLOG 22.3 240 241 10 10 30 2.5 1.0 28/ 05 225 1.4 23 338 225 0/7 3 5. ROAD. 101 337 SCALE -- ONE SQUARE = fT. ACTE AILO

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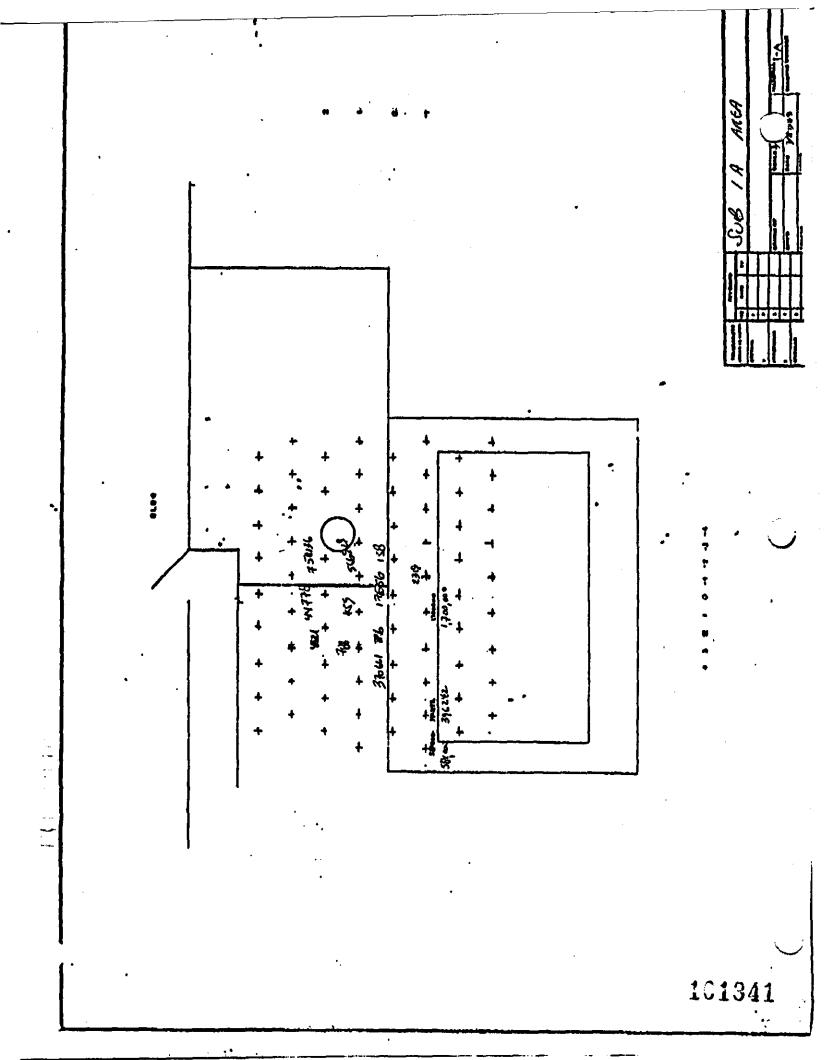
MANIIOLE WIPE SAMPLE SUMMARY

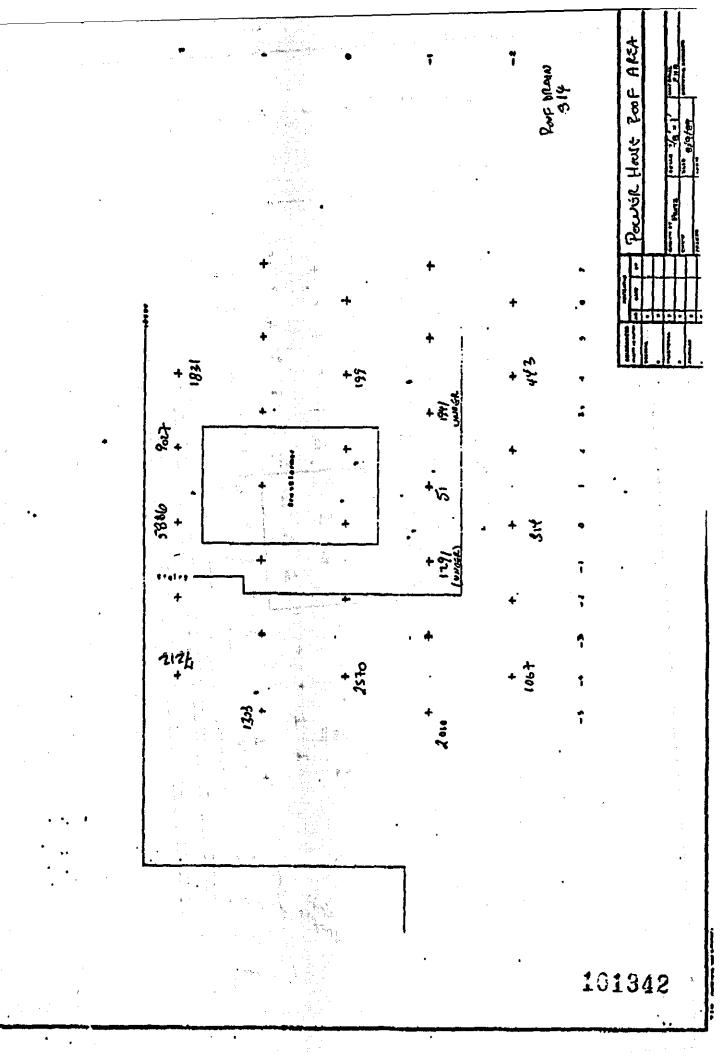
MARIHOLD WIPE SAMPLE SUMMARY

MH *	*m2/100cm ²	DATE	* SAMPLES	ENCAPSULATED
A-55	N.D.	12 OCT	1	
A-54	N.D	12 OCT	1	
A-51	2.2	12 OCT	1	
A-51	<u>N.D</u>	14 OCT	Z	
A-50	4.2	12 OCT	1	
A-50	15.3	14 OCT	7	
<u>A-50</u>	<u>55</u>	16 OCT	Z	
<u>A-10</u>	<u>N.D</u>	12 OCT	1	
A-11	218	12 OCT	1	
<u>A-11</u>	<u>N.D</u>	14 OCT	7 ,	
A-16	4.5	11 OCT	1	
A-16	238	14 OCT	7	
<u>A-16</u>	<u>37</u>	15_OCT	Z	
A-21	127	12 OCT	1	
A-21	31	13 OCT	7	
<u>A-21</u>	<u>25</u>	16 OCT	Z	
A-22	5.1	11 OCT	1	
A-22	1.5	12 OCT	1	
<u>A-22</u>	14.8	13 OCT	<u>7</u>	
A-24	7326	11 OCT	1	
A-24	6065	13 OCT	7	
<u>A-24</u>	<u>4978</u>	15 OCT	Z	18 OCT
A-26	138	11 OCT	1	
A-26	3072	13 OCT	7	
<u>A-26</u>	<u>5036</u>	15 OCT	<u>7</u> ·	
A-27	4.7	11 OCT	1	
<u>A-27</u>	<u>138</u>	15 OCT	Z	18 OCT
A-28	15	11 OCT	1	
<u>A-28</u>	<u>108</u>	13 OCT	Z	
A-31	5.4	11 OCT	1	
A-31	2.9	13 OCT	7	
A-31	7.5	16 OCT	Z	•
A-33	N.D	11 OCT	1	
A-39				
A-40	16	16 OCT	1	
Sump	31	16 OCT	1	
A-41	83	16 OCT	1	
A-42	1269	16 OCT	.1	
NA-13	4.4	16 OCT	1	
NA-11	N.D.	10 OCT	7	
NA-10	N.D	10 OCT	7	ADIOLOGO
A-43	N.D	10 OCT	7	AR1013390

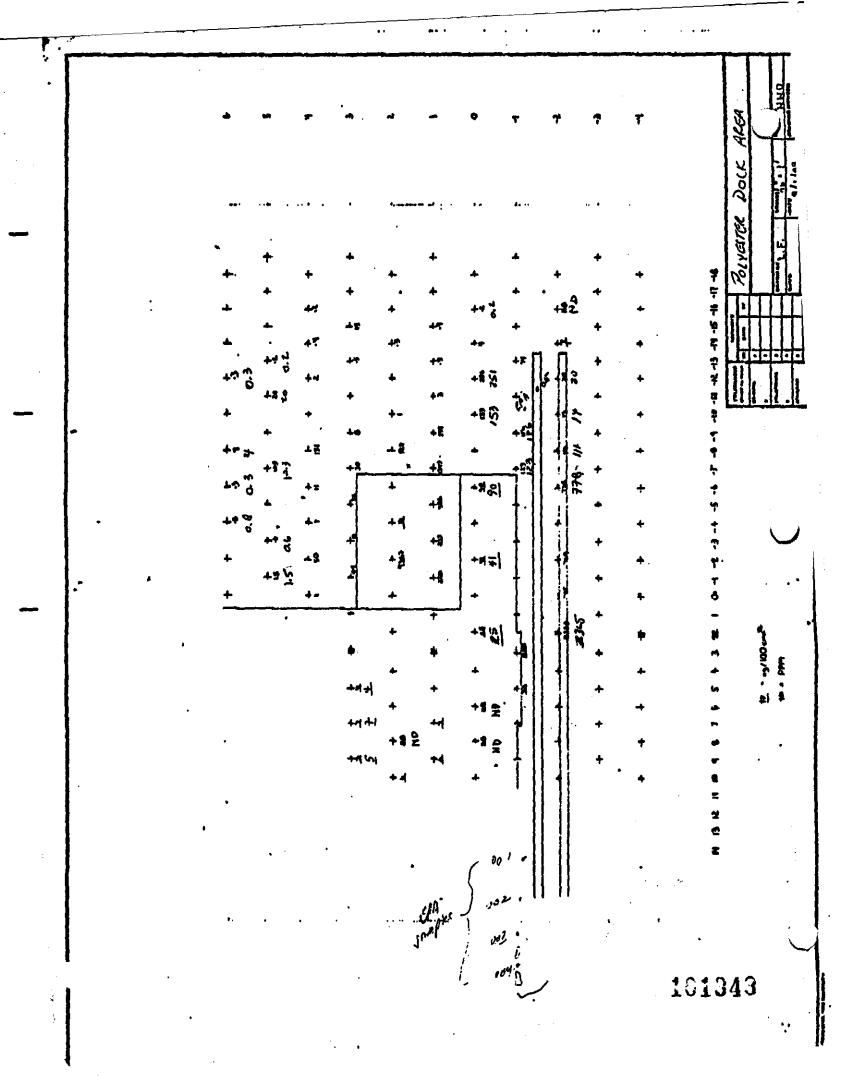
<u>MH *</u>	'mg/100cm ²	DATE SAMPLES	ENCAPSULATED
A-44	N.D	10 OCT 7	
A-45	N.D.	10 OCT 7	•
A-46	7.7	10 OCT 7	
<u>A-46</u>	<u>252</u>	14 OCT 7	
A-23	N.D	11 OCT 7	
A-29	N.D	13 OCT 1	
A-61	N.D	15 OCT 1	
A-30	5.3	16 OCT 1	
A-32	5.3	16 OCT 1	
A-7	N.D	15 OCT 1	
A-8	4	15 OCT 1	
A-9	6	15 OCT 1	. •

mg/100 cm² = micro grams per 100 centimeters squared
A method of relative measure for PCB detection
in "wipe" samples. This has no corollation to ppm,
parts per million. A method to detect PCB concentration
in oil and/or particulate matter.





14.7



Acts 4:12		
DIVISION OF	TRANSF	ORMER
. ~ DWAGU	CONSUL	TANIS

Date 7/26/89	No. Samples	10
Customer Number _	03720000	
Company Name	Avtex Fibers	:

POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

		Туре	****	Approximation of the second	•	Aro	chlor	
Sample No.	Wipe	Dirt	Other	Location	1248	1016	1260	Total
TC# 2023				1/7 N.W. dock	1474		•	
TC# 2026		X		-1/9 N.W. dock	176			176
TC# 2027		×		-1/7 N.W. dock	123			123
TC# 2029		×		-1/3 N.W. dock	905			905
2030		×		-1/-7 N.W. dock	71			71
2031		×		3/3 N.W. dock	36	1		36
TC# 2038		×		1/-1 14	1549			1549
TC# 2041		_x	<u> </u>	0/2 1A	17.656			17,656
TC# 2044		_x		3/3 1/	2153			2111
FC# 5045		<u> </u>		6/8 14		76		76
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Acts 4:13		
DIVISION OF	TRANSFOR CONSULTA	MER
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Date _	7/26/89	No. Samples	6,	
Custom	er Number _	03720000		
Compa	ny Name	Avtex Fibers		

POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

•													
Туре				·		Arochlor .							
Sample No.	Wipe	Dirt	Other	Location	1248	1016 1	1260	Total					
rc# 2017	-х			1/3 N.W. dock	227			227					
rc# 2018		,		1/0 N.W. dock	256			256					
rc# 2021				1/5 N.W. dock	486			486					
rc# 2024				0/6 N.W. dock	- 90			00					
₹ 2034				0/-4 1A	158								
2035				1/1 14	1320	_	·	1320					
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Date 7/26/89	No. Samples	· ·	LÜ		
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Customer Number _	03720000			•	
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# POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

		Туре	. 1	Z HANNA PART OF		Are	ochlor	•
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
C# 2012		×		-1/-1 power house			1291	1291
rc# 2013		×		-2/0 power house			814	814
C# 2014		×	2.55	-1/3 power house		· · · · · · · · · · · · · · · · · · ·	1941	1941
C# 2015		×	3 33	-2/4 power house			443	443
C# 2016		×		roof drain power house			314	314
<u> 2022  </u>		<u></u>	·	2/7 N.W. dock	1643			1643
C-2039		· ×		2/0 1A	44,778			44,778
C# 2040		*	<u> </u>	2/-2 1A	421			421
C# 2042		<b>X</b>		1/-3 1A	78			78
CA 2043	nggang may ta	X	271.000 2.7	O/A 1A di constanti di constant				ND
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Date	_ No. Samples _	19	
Customer Number037200	000		
Company NameAvtex_F	bers		

# POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

		Туре				Arc	ochlor	
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total ug/100 cm ²
TC# 2001	×			0/4 power house	3		196	199
TC# 2002	×			2/-4 power house	1414		5798	7212
TC# 2003	×			2/2 power house		•	9027	9027
TC# 2004	X			2/0 power house			5886	5886
TC# 2005	<b>x</b> _			0/0 power house .	*.		1841	184
2006	×			-1/1 power house			51	51
TC-2007	_x_		<u> </u>	2/4 power house			1831	1831
TC# 2008	×			1/-5 power house			1303	1303
TC# 2009	<u> </u>			0/-4 power house			2520	2330
TCL_2010	R.			=1/=3 power house			2010	2010
TC# 2011	×			-2/-4 power house			1067	1067
TC# 2019	×			2/2 N.W. dock	4367			4367
TC# 2020	×			2/4 N.W. dock	8			8
TC# 2025	×			0/-2 N.W. dock	· 25			25
TC# 2028				0/2 N.W. dock				42
TC# 2032				2/2 1A	758.136			758.136
TC# 2033	x			1/3 14	566,929	· · · · · · · · · · · · · · · · · · ·		566,929
TC# 2036		<u> </u>		0/-2 1A	370,661	· · · · · · · · · · · · · · · · · · ·		370.661
TC# 2037	x	<u> </u>	<u> </u>	-1/1 14	2319	· ·		2319
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# MANIMOLE WIPE SAMPLE SUMMARY

<u>MH *</u>	'mg/100cm ²	DATE	* SAMPLES	ENCAPSULATED	
A-55	N.D.	12 OCT	1		
<u>A-54</u>	N.D	12.0CT	I		
A-51	2.2	12 OCT	1		
<u>A-51</u>	N.D	14.0CT	Z		
A-30	4.Z	12 OCT	1		
A-50 <u>A-50</u>	15.3 55	14 OCT	7	3.4.00	
A-10	55 N.D	16 OCT	Z	24 OCT	
A-11	218	12 OCT 12 OCT	1		
A-11	N.D	12 OCT	=		
A-16	4.5	11 OCT	Z 1		
A-16	238	14 OCT	7		
A-16	<u>37</u>	15 OCT	Ž	24 OCT	
A-21	127	12 OCT	1	24 OCT	
A-21	31	13 OCT	7		
<u>A-21</u>	<u>25</u>	16 OCT	Z	24 OCT	
A-22	5.1	11 OCT	1	E.I.VVI	
A-22	1.5	12 OCT	i	· •	, I
<u>A-22</u>	14.8	13.0CT	Ž	24 OCT	
A-24	7326	11 OCT	1	<del></del>	
A-24	6065	13 OCT	7		
<u>A-24</u>	<u>4978</u>	15.0CT	Z	18 OCT	
A-26	138	11 OCT	ī	<del></del>	
A-26	3072	13 OCT	7		
<u>A-26</u>	<u>5036</u>	15 OCT	Z	23 OCT	
A-27	4.7	11 OCT	1		
<u>A-27</u>	<u>138</u>	15 OCT	Z	<u> 18 OCT</u>	
A-28	15	11 OCT	1		
A-28	<u> 108</u>	13.0CT	Z	23 OCT	
A-31	5.4	11 OCT	1		
A-31	2.9	13 OCT	7		
A-31	<b>7.5</b>	16 OCT	Z	23 OCT	
A-33	N.D	11 OCT	1		
A-39			_		
A-40	16	16 OCT	I		
Sump	31	16 OCT	I		
A-41	83	16 OCT	I		<i>ر</i>
A-42	1269	16 OCT	i	24.007	
NA-13	4.4	16 OCT	1	24 OCT	<b>A A A -</b>
NA-11	N.D.	10 OCT	7	23 OCT	161351
NA-10	N.D	10 OCT	7	23 OCT	
A-43	N.D	10 OCT	7	23 OCT	•

<u>MH *</u>	'mg/100cm ²	DATE SAMPLES	ENCAPSULATED
	,	A Section of the Control of the Cont	
A-44	∘ <b>N.D</b> + + + -	10 OCT	23 OCT
A-45	N.D.	10 OCT 7	24 OCT
A-46	7.7	10 OCT 7	
A-46	<u>252</u>	14 OCT 7	24 OCT
A-23	N.D	11 OCT 7	
A-29	N.D	13 OCT 1	
A-61	N.D	15 OCT 1	
A-30	5.3	16 OCT 1	24 OCT
A-32	5.3	16 OCT 1	24 OCT
A-7	N.D	15 OCT 1	
A-8	4	15 OCT 1	
A-9	6	15 OCT 1	

mg/100 cm² = micro grams per 100 centimeters squared
A method of relative measure for PCB detection
in "wipe" samples. This has no corollation to ppm,
parts per million. A method to detect PCB concentration
in oil and/or particulate matter.

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<u>MH *</u>	'me/100cm ²	DATE	* SAMPLES	ENCAPSULATED
A-43	N.D	10 OCT	<b>7</b>	23 OCT
A-44	N.D	10 OCT	To the second se	23 OCT (N. D under brick)
A-45	N.D.	10 OCT	- 1	24 OCT
A-46	7.7	10 OCT	7	
A-46	<u>252</u>	14 OCT		24 OCT
A-23	N.D	11 OCT	7	2 NOV
A-29	N.D	13 OCT	1 -	****
A-61	N.D	15 OCT	1	
A-30	5.3	16 OCT 👵	Land William - 1	24 OCT
A-32	5.3	16 OCT	i i i i i i i i i i i i i i i i i i i	24 OCT
A-7	N.D	15 OCT	1	******
A-8	4	15 OCT	1	26 OCT
A-9	6	15 OCT	1	30 OCT
MHI	64	18 OCT	1	
MHJ	49	18 OCT	4	
MHK	10	3 NOV	1	
MHL	10	3 NOV	1	-
MHM	10	3 NOV	atives with	

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[•] mg/100 cm² = micro grams per 100 centimeters squared A method of relative measure for PCB detection in "wipe" samples. This has no corollation to ppm, parts per million. A method to detect PCB concentration in oil and/or particulate matter.

# AVTEX FIBERS FRONT ROYAL INC. AVTEX FIBERS SITE

# **WORK PLAN**

# COPIES OF ANALYTICAL RESULTS

## ADMINISTRATIVE ORDER

Docket III-90-010-DC

Prepared for

U. S. Environmental Protection Agency

Region III

November 1989

AVIEX FIBERS FRONT ROYAL INC.

Kendrick Lane
P. O. Box 1169

Front Royal, Virginia 22630

#### CUALIFICATION RECAP

CUST# 03720	DOGC AVJEX F	'DELO	*		
	***************************************	IDENÇ	FRONT	royal va	8.185.159
TC# SERIAL NUM	BER SUBSTATION NAME	SIZE KVA	BALLONS LIQUID PC2 TYPE CLASS	PCB LST EC XF ICP PF	4
1 1645271	SUS 2	200	151 97)		1.00031
2 1546273	SUB 3	200	1011 . 60	4/14/98 AC AC DU AC	* * * * * * * * * * * * * * * * * * * *
3 1446272	Sub S	260	A=1 =3.1711	2/13/89 AC SE AS AC	
4 1638034	SUB 2	1500		2/13/89 AC AC AC	\$ 4
\$ 1538033	SUB 2	1560		2/13/89 AC AC 98	
8 50£0444	SUP 17	. 1260		6/14/88 AC AC DU AC	
7 1705279	8:19 <b>5</b>	333	649 OIL HOX-PCB	4/14/59 AE AC AC	
9 1705360	SUB 5	833	365 DIL HUR-PER	4/14/88 AC AC 99 AD	· · · · · · · · ·
P 1705298	SUB 5	833	360 CIL NOT-PCS	ge 3 30 00 06 88'4'\f	
:0 5357119	SUS SA	1500	. 340 CIL NON-FEB	DA 24 24 38+ FR14154	
11 7022551	SU3 7A	2500	205 ASKAFEL PCB	. AS AS	
12 3411932	903 7		409 DIL CONTAMINAT		•
13 3411733	SUS &	2500	1024 DIL NON-7CB	4/14/88 AC AC AC	
14 2500721	SU3 1	2006	715 OIL HON-PC9	4/14/88 AC AC AC AC	
15 E600720	SUB 1	200	214 DIL MICH-PC2	4/11/88 AC 40 89 AC	19 • 1
1 2400722	EUR 1	200	21% CIL MCN-PCB	4/14/83 AD AD AD	
17 0855043	SUB 1	200	ela bit - Mad-ece	SA CA CA SA SA SEVENA	
13 C256044	Sub 1	1500	400 DIL NOH-PER	E/13/69 AC AC AC	
19 385778?	ki guz	15/0	foo dit hall-bee	4/14/93 AC AC AC	•
30 27053f		. 1500	203 ASKAREL PEB	26 CR	
E4 E7E1050	NASTE TREATHERT PLT	700	270 GIL NON PCE	18/14/38 AC	
25	BUCK REHOT	1500	585 ASZAREL PCB	36	
· 24 E7E1051	POWER MOUSE	1500	303 ASKAREL PCB	AS AC	
27 E9E1049	POWER HOUSE	:539	585 ASKAREL PC8	40 40	
29 3415193	POWER HOUSE	1500	555 ASKAREL PCB	AC AC	
29 3418157	SUB 11	590	ERS OIL HON-POB	4/15/68 AC SU AC AC	
39 3412150	Sub B	1966	404 Bil Xin-poe	94 34 35 BB/4E/4	•
31 3412194	SUB 9 .	7930	715 DIL see Non 193	Mildrey on 20 AC	
38 6503533	Sup 10	500	295 DIL WOR-FCB	34 34 34 EE\41\4	
32 5418623	St Bud	2000	420 ASKAREL POB	AS AS	
34 3416271	SUB 14	:500	659 91L NON-9CE	1/14/88 AC DU AC . AC	
25 12:10	SUD 15	750	400 OIL MON-PCB	4/14/83 AC AC QU	- ' 
35 18:11	SUB C	2000	BRE ASKAREL PCB	134 AC	
37 13:12	SUB B	2000	322 ASKAREL FEB	AC AC	
	SUB F	2006	322 ASKAREL PC3	38 34 ·	
33 :9::4	SUB A	2¢¢g	322 ASKAREL PC3	AC AC	
39 53:15	SUR F	1200	262 ACKAREL FC3	AC AC	• • • • • • •
45 18342	sua 1	1500	400 ASKAREL PCB	AS AS	
41 18113 As 1934	SUB 9	2000	Ses WELYSET ACR	AC AE	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
42 19341 50:35000	SUB H	2000	JEE ASXAREL MIS	AC AC	
49.80339.	eur E	1500	242 ASKAREL POB	49 44 4	
13343	· Sub 1	1200	436 ASKAREL FCS	in it	01355
<b>1500248</b>		1565	SEO ASKAREL FCB	40 AD	
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#### ENSETRICATION GEORG

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TC4 SERIAL 1	iuxber Substation								2/29/29
,	1442 1010-01 2023 M 134	\$17E		PCS	FCB	157 SC XF	1CB 25	****	
	ndeğ	XVA	TYPE	Class	SATE	20 KL	ice ff	SERVICE	
46 E94313	. Harte treather	' 54 T 4 PA	i					PRODUCT	
47 PIVS75401	POWER!!CUSE			L 703		AC AC			
48 1507855	1A SUS	1500				AC AC			
49 :638035	P ENS	1500		HGK-PC8	4/14/99		10		
59 4812197	g gue Baiatuo	:500	957 GIL	XCH-PC3	4/14/89	AC AC AC	AC .		
51 4815195	DUTSIDE SUB 2	832	420 DIL	CCHTAHINATE	3 4/14/58	au ac du	***		
52 4012194	CUTSIDE SUB E	233		NDN-2CB	2/13/27	AC AC DU			
53 PAT782201	RIVER PUMPHOUSE	£13	420 BIL	HCH-PCB	2/13/59	UQ 2A 3A			
54 2242194	ia i ighting	1000	149 SILICON		4/14/33	AC EU AC			
S\$ 2519407	EPARE DUTEIDE CU	15	18 311	hun-pre	4/14/23		AC.		
55 3242498	SUB 6 LIGHTING			non-PCS .	12/20/82		****	•	
57 40561	SPARE BY SUB &	15	448	ndk-per	18/30/82	ta .			•
58 HE87734	19 ZINC RECOVERY	1000	46 <b>8</b> DJ1	701-9CB	12/20/92	AC			
59 25019200	POWERHOUSE		21! ASKAREL		•	AC AC			
50 1522690	ACOF	1500		HD:1-PC3	1/14/88	AC 40 00			
61 1625654	RODF	50		ADI:-FCB	7/36/29		4		( )
48 1525496	Redf	50		KCH-PC3	7/05/97				
53 1825624	roof	53		46H-96 <b>&amp;</b>	7/65/69				
ja 1425163	ACOF	50		ich-PC3	7/35/29				ε,
45 1525598	acof	50	39 OIL	#0#-}CB	7/05/39		• •	1	
:i 15255:2	ROOF	50		104-PCB	7/05/89				
ė7 182559B	ROOF	50		13:1-203	7/05/99	•			
19 1625112	POGF	53	29 DIL X	gki-PCB	7/08/39				
19 (125523	KOUF	30		:GK-PPB	7/06/87				
70 1525175	RCOF	50		01:-PC <b>e</b>	7/36/89			1	• •
71 1625557	ROOF	30	39 CIL X	CK-PCS	7/05/39				`
72 1555533	ROOF	, , 59	. 39 0 11 11	Mi-PCB	7/05/B9				
73 1625659	ROOF	. 59		DH-PCE	7/95/89				•
71 :525559	ROOF	50		M-PC3	7/96/89				
75 1427652	* ACOF				//06/89				
75	FOOF: 300 FT.	50		X-PE3	7/06/29			•	
77 1555547	ROOF	50		N-PCB	7/01/89				
78 1525837	ROOF	56		H-9CB '	7/05/35				
79 1425638	ROOF	56			7/05/89				
39 1425655	roof	50			1/04/B9				
2: 1£2543	9007	50		H-9C3	7/02/87				
32 1£25£53	ROOF	20		i-PC3 ?	/01/89				. •
P3 1565636 .	R00F	50		X-PE3 7	7/96/39				
86 1635864	ROCF	50	4		152/29				
ES 1425844	ROOF	. 50 50			1196129				
1425575	RUSF	5¢	• • • •		/05/87		1		
1425636	ROCF				/05/89			•	
	···	50	39 GIL #6#	-PCB . 7,	106/57				

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#### SUALIFICATION RECAP

	•				_ •••••	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				*		
-	FHISTE ATTPONAN	Autex fibers	<b>i</b> [1, 1]		) X (* ). #	FRONT	r poyal ya	• *				8/22/27
	TER SERIAL NUMBER	5085727100	\$1Z <b>?</b>	BALLDIT	E LIQUID	) · FCB	PCP	LET	SC :	KF ICP FI	F SERVICE	
-	:	##LF	E.VH	,	:31-6	BEALD	FATE		-	¥ •₩	PROSUCT	
	1	•		- 1	A Y A	<del>**</del> =					******	
	85 1625508		50		DIL	NOK-PEB	7/06/39	1			**	
-	E9 1425351	FOOF	40	<b>)</b> ?	BIL	nck pcc	7/06/39	r			•	ī
<b></b>	90 16REE 97	ROOF	, 23	37	7:1	KOH LCD						
	91.1265625	FCCF	59		Cil	HCH-FC8	7/01/89					
	92 1265650	ROOF	20		7 OIL	HOH-PCB						
-	12 1425527	F00?	59		en	Hon-PCB	7/96/67					
	£4 1425593	ROOF	50.		031	MOK-PCB						
	95 : £25609	FCCF	50		CIL	KON-PER	7/06/89					
	95 10E5505	roof	59		9 01L	MOK-PCR						
	43. 153228,	300F	50		DIL	KC4-PCB	7/05/29					
	, SR 1943545	RIGE	50		OIL.	nen-fee	7/06/83		•		•	
	· 99 1865616	PROF	50		CIL	KOH-PCE	7/96/8?					
	100 1865645	ROOF	. 50		Polic	NOH-PCS	7/0E/89					
	101 1245478 .	POOF	53			KON-PCE	7/06/29					
イ ノ	105 15f2f2f	RCDF	59		Wil.	Nur-PCE	7/06/67	:				
_	103 1265622	RCCF	50		CIL	MON-PC2	7/06/8?					
_	104 1265664	ROGE	53		011	NCK-PCP	7/06/99					
	195 1265694	ROCF	50		DIL	KCN-PSE	7/05/87					
	106 :265554	F.CO=	50		er.	I:ON-PCP	7/04/89					
_	\$67 124557}	ROOF	50		SIL	Mak-Pee	7/06/83					
	198 1868464	ROOF	83		JIL	NON CCO	7/06/57					
	199 1265639	ROOF	20		DIL	NCR-PCP	7/05/69					
-	110 1265567	ROOF	56	_	OIL	NOH-PCP	7/05/89	t				
	1:: 1265851	ROOF	59		CIL	Non-PCB	7/06/89					
•	112 1265640	F007	50		SIL	NOK-PCR	7/06/89	ı				
	113 1265573	RGOF	50			MON-PCP	7/06/89					
	:14 1265590	ROOF	50		OLL	KOK-PCE	7/05/89					
	115 1265566	POOF	59			Non-FCB	7/96/89				•	
_	115 1063572	F.02F	50		GIL	NCH-PCB	7/05/87					
	117 1845508	FOOF	59		Page 1	Men-PCB	7/06/89					
	118 1593FE1	ROCF	50		GIL	MOH-PCR	7/06/89					
•	119 1265460	ROOF	39	39		non-beb	7/06/87					
	120 188502	ROOF	59			404-405	7/06/89				•	
	121 1245673	ROOF	52			MGN-PCB	7/06/87					
* .	tes : 5£5653	ROOF	50		DIL	KOM-PCP	7/06/89					
<b>-</b> `	122 1267672	₹ <b>63</b> ₽	29			ruk-YCY	7/96/27			•		
	124 1255637	FGJF	50		CIL	NON-PCS	7/96/87				16	1357
	125 1265671	<del>P</del> GDF	50	31		HOI:-PC3	7/96/23				40,	100,
	18£	Roof	30		eil.	MCH-PCE	7/06/89					
"し ノ	127 12:3551**	7 (CF	'50	39		NOK-PCS	12/20/82					
$\sim$	158 1542691	roof	54			KUH-PSK	7/06/83					
	124 1563410	P00F	23	29 (		1104-628	7/06/29		-			

#### QUALIFICATION RECAP

CUST9 03720000	AVTEI FISERS			FR0::1	ROTAL VA		
TC# SERIAL NUMSER 130 1945459 131 1845493	Substation Name Roof Roof	SIZE EVA SC Sc	GALLERS LIGUID TYPE 39 GIL 39 DIL		PCB DATE 7/08/89	187 80 K7 107 P7	PERVICE PRODUCT
132 1265189 133 1215157 134 1040150	ROCF POOF	59 50 50	37 CTL 39 DIL	11011-1108 11011-1108 11011-1108	7/08/89 7/08/89 7/08/89 7/48/89		

#### BUILLIFICATION RECAP

CUST# 02720000

AVTEX FIBERS

FRONT ROYAL YA

8/23/99

#### SUMMARY OF RECULTS #

MOTE: EPA & CFR40-761 states that any transformer not tested for gcb content -cust be considered contaminated (50-500ppm)

The national average cost of annual pransformer maintenance is 6 pct of transformer investment. (EPRI JSURNAL, March, 1996). Based on the above estimated value of units, sverage annual maintenance for these units would be \$95,802.96

PERCENT OF VALUE ROUSE " R. EZY TO P.

DURGETAD'S DAVING

\$44.029.4C TD

\$135,620.18

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SONYER CONSULTANTS
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Company Name __Avtex Fibers

#### POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

	Туре		Туре			Arochlor				
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total		
11		x						ND		
#2		x			320			320		
13		×						ND		
14		x						ND		
#5		×			1		11	2		
#6		×						מא		
18		x					'	· ND		
19		x						NI		
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THE STATE OF MISSESSEE	03720000	*	
*Customer Number	<u> </u>		
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1			

Company Name __Avtex Pibers

		Type		•	Arochlor						
iample No.	Wipe	Diet	Other		Location	1242	1254	1260	. Total		
C# 2050		×		R153-67B	in the second	5.2		. 9	6.1		
C# 2051		×		R153-67E					ND		
C# 2052		×	7	R153-67A					ND		
G# 2054		×		R153-67D	Andri Miller			121	121		
C# 2055		*		R153-67C		1.8		13.9	15.7		
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PCEALISE

EDWARD CO	

Customer Number	03720000	
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Company Name __Avtex Fibers

#### POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

		Type		•		Arox	blor	
Sample No.	Wipe	Dict	Other	Location	1242	1254 :	1260	Total
rc# 2001	×			0/4 power house	3		196	199
CE 2002	X_			?/=A pover house	1414		5798	7212
C# 2003	×			2/2 power house			9027	9027
rc# 2004	×			2/0 power house			5886	5886
rc# 2005	×			0/0 power house			1841	1841
rc# 2006	×			-1/1 power house		•	51	51_
rc# 2007	X			2/4 power house			1831	1831
rc# 2008	X			1/-5 power house	2 22 2		1303 .	1307
rcf 209	_*			0/-4 power house			2520	2520
CF 2010	×			-1/-5 povet house			2010	2010
rc# 2011	×			-2/-4 power house			1067	1067
rc# 2019	×			2/2 N.W. dock	4367		1	4367
rc5 2020	×		·	2/4 N.W. dock	8			8
C# 2025				0/-2 N.W. dock	. 25			25
C# 2028				0/2 N.W. dock	41			41
rc#_2032	X			2/2_1A	758.136			758.136
·C7 2033				1/3 1A	566,929		,	566,929
C# 2036	ж			0/-2 14	370.661			370.661
C# 2037				-1/1 _1A	2319			2319
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Acts 4:12		- p · · · · · ·		-
DIVISION OF	1	TRANS	FORM	ER
SDMAGUS		CONSU	ILTANT	`\$]

Date _7/26/89	No. Sample	10	
Customer Number	03720000	·	
Company Name	Avtex Fibers	•	

Туре					Arochlor			
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
C# 2012	•	*		-1/-1 power house	a de la composição	e de la companya del companya de la companya del companya de la co	1291	1291
C# 2013		×		-2/0 power house			814	814
C# 2014		×		-1/3 power house	4.5		1941	1941
C# 2015		×		-2/4 power house	***		443	443
C# 2016		X		roof drain power house			314	314
C* 1022		x		2/7 N.W. dock	1643			1643
2039		<u>. x</u>		2/0 1A	44,778			44,778
C# 2040		<u> </u>		2/-2 1A	421	·		421
C# 2042		_X_		1/-3 1 1A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	78		<u> </u>	78
C# 2043	<u> </u>			0/4 1A		<u>:</u>	1	ND.
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DIVISION OF TRANSFORMER GIDAYER CONSULTANTS
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Customer Number	03720000	
Company Name	Avter Fibers	

· Type		Туре				Arochior				
Sample Mo.	Wipe	Dirt	Uther		Location		1240	1016 1	1260	Tota
TC# 2017	×			1/3	N.W. dock		227			227
TC#_2018	<u> </u>	•		1/0	N.W. dock		256			25/
TC# 2021	Х			1/5	N.W. dock		486			
ru# 2024	×		<u> </u>	0/6	N.W. dock		90	<u> </u>		99
TC# 2034	X			0/-4	1A		158			150
TC# 2035	_X		<u> </u>	1/1_		. ,	1320	•		132
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Customer Number	:r	037200	000	1	·	
NOTE: SECTION AND ADDRESS OF THE PARTY OF TH						
Company Name		Avtex F	ibers			

					<u> </u>				
Туре					Arechlor				
Sample No.	Wipe	Dirt	Other	Location	1248	1016 1.	1260	Total	
TC# 2023		_X		1/7 N.W. duck	1474			1474	
TC# 2026		x		-1/9 N.W. dock	176			176	
rc# 2027		_×		-1/7 N.W. dock	123			123	
TC# 2029		×		-1/3 N.W. dock	905 •			905	
TC# 2030		×	<u> </u>	-1/-7 N.W. dock	71	<u> </u>		71	
TC# 2031		_×_		3/3 N.W. dock	36	•	<u>, , , , , , , , , , , , , , , , , , , </u>	36	
TC# 2038				1/-1 1A	1549			1549	
1 2041		_*		0/2 1A	17.656		,	17.656	
Ç# ,2044		×		3/3 14	2153		1.0	2153	
rc# 2045				0/Q 1A	11/11 [1	76	a para di salah sa	76	
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		Type		• • • • • • • • • • • • • • • • • • •	•	Arv	chlor	
Hangie Hei	Wipe	Dirt	Ulher	Location	. 1242	1254	1260	Talel
2036			x	Sumn Hole Drain from Root				Ni)
2051			<u> </u>	Dumoster Cumura from Suit				
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Customer l	Number	03720000	 . •	•
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Company Name AVTEX FIBERS

#### POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

i		Type					Aro	chlor	•
Sample No.	Wipe	Dirt	Other		Location	1242	1254	1260	Total
R153741		х					****	.4	.4
R153746	<b>•</b> +	X		<u> </u>				1	.1
R1537411	·	X		3		F 1		1	1
R153747		X			The A Company of the			43	45
R153767		X			大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大			.1	.1
R153748		X						4	4
R153744		X		-	7 (2) 30 (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3			. 2	.2
143 <u>745</u>		<b>X</b> .						.6	6
3743		X						.6	.6
R153749		X		1 1				65	65
R1537412	·	X	- 14 m		e se se se se Vision de la companya			.7	.7
R1537413		X						.3	.3
R1547410	4, 4	X.						.7	.7
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Company Name	AVTEX	FIBERS

Type			•	•	•	Arochlor			
Sample No.	Wipe	Dirt	Other	I.	ocation	1242	1254	1260	Total
1/9		x	1	SUB 1-A	.9 - 1248				.9
2/4		x		SVB 1-A	32 ~ 1248				32
1/5		X		SUB 1-A	33 - 1248				33
1/7		X	•	SUB 1-A	14 - 1248				14
2/2		X		SUB_1-A	22 - 1248				22
1/3		x		SUB 1-A	405 - 1248			A	405
1/1		x		SUB 1-A	282 - 1248				282
2/0		X		SUB 1-A	1010 - 1248			•	1010
			2.3					<u> </u>	
-7								· · · · · · · · · · · · · · · · · · ·	
v-1				,					<u> </u>
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a D Waers	CONSULTANTS

Customer Number	U3720000		
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# POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

4.	• 40	Турс		The second secon	er ge st	Aro	chlor	•
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
0/8	X ·			NORTH WEST DOCK				ND
1//	Х.			NUXTH WEST DUCK	3.8	2.3		6.1
3/7	X			NORTH WEET DOCK	2.9	4.	•	6.9
3/5	X			NORTH WEST DOCK	3.	1.		4.
2/10	X		,	NORTH WEST DOCK	3.8	· 2.	7	5.8
1/9	X			NORTH WEST DOCK	4.5	1.2	9	5.7
3/9	X			NORTH WEST DOCK	2.			2.
0/6	X			NORTH WEST DOCK	1 .			ND
	X		<i>a</i> .	NORTH WEST DOCK			9 4 5 2	ND
-1/3	X			NORTH WEST DOCK AND AND ADDRESS OF THE PERSON OF THE				ND
2/8	X		2.	NORTH WEST DOCK				ND
-1/9		X	er e ven	NORTH WEST DOCK 13-1248			3	16
3/-5		X		NORTH WEST DOCK 52-1248	was a second second	1 - 1		52
-1/1		X		NORTH WEST DOCK 22-1248	_ 14		MA.	22
-1/-1		X		NORTH WEST DOCK 352-1248				352
2/-8		X		NORTH WEST DOCK 147-1248				. 147
3/-7		X		NORTH WEST DOCK 30-1248	•			30
3/-1		X	1 1 11	NORTH WEST DOCK 84-1248			± 1	84
0/-10		X		NORTH WEST DOCK 153-1248				153
1/-9	-	X		NORTH WEST DOCK 547-1248	a		e e e e e	547
3/-3		X		NORTH WEST DOCK 11-1248		•		11
3/1	. ,	X		NORTH WEST DOCK 1.6-1248				1.6
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(3011/2014)	AAUSARIVITAT

Customer Number	03720000	 ·
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Company Name	Avtex Fibers	 

		Type	ţ	·		Aroc	hlor	
Sample No.	Wipe	Dirt	Other	Location 1242		1254	1260	Total
rc# 2056				ce row/double deck. drum			:	ND
C# 2057			_x_	dd row/double deck. drum		1 1		
rc# 2058				oil drum #35#4-box shop w		1		ND
rc# 2059			X	oil drum #56#6-box shop e	3	11_		11
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Customer Number	03720	200			
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Company Name	Lutar	Pikers			

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		Type				Arochlor				
Sample No.	Wipe	Diet	Other	Location SUB 1-A	1242	1254	1260	Total		
-2/2	x			· · · · · · · · · · · · · · · · · · ·	408			408		
-3/3	X			「「「」」(「」」(」) ( d ) - (と)(Lean of Company (Ample of Company (Ample of Company (Ample of Company of	48			. 48		
-1/3	x			्राह्मान्यः । वर्षः १ वर्षः १ १० वर्षाः १ वर्षः वर्षाः वर्षाः । १० वर्षः १ व	328		·	328		
-1/-9	х			「「「「「「「」」」「「「」」「「」」「「」」「「」」「「」」「「」」「「」	444		1 2	444		
0/4	X			g Zung g Zweit in der Steine gestellt der Steine der St	1331			1331		
-1/-1	<b>.</b> X .			and the second s	2026		· ÷	2026		
-2/44	X			i je o <del>resplorati</del> ja sastanija. Ny s	65			65		
0/2	X			- American American - American American - American American - American Am	2708			2708		
2/-4	X		1.11	The state of the s	816			816		
-2/-2	X	. ,		· 特殊的。 11、1、12、12、13、14、14、14、14、14、14、14、14、14、14、14、14、14、	1354			1354		
-2/-6	X	•		And One and	2934			2934		
-1/-3	X			A TOTAL TO	1707		,	1707		
-1/5	X	🕶 .		- 10 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	45			45		
0/8	X		20.00	12 (1 · · · · · · · · · · · · · · · · · ·	155			155		
-3/5	X			*** ***	47	a de la compa		47		
		l.		* (1) (1) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4		t selection				
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Company Name _

AVTEX FIBERS

#### POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

		Туре		·	•	Aroc	hior	
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
-1/-13		·X		NORTH WEST DOCK 38-1248		36		74
4/-6		X		NORTH WEST DOCK 4-1248		7	•	11
3/-5		. <b>X</b>		NORTH WEST DOCK 2-1248		3		5
1/-11		X		NORTH WEST DOCK 1.5-1248			1.4	2.9
0/-12		X		NORTH WEST DOCK 251-1248		•		251
4/-2		X		NORTH WEST DOCK		50		50
4/-4		X		NORTH WEST DOCK		7.4	,	7.4
2/-10		X		NORTH WEST DOCK		.9		.9
3 '		X		NORTH WEST DOCK	1,341			1,341
-2/-14		X		NORTH WEST DOCK 11-1248				11
4/-8	·	· X		NORTH WEST DOCK 151-1248			·	151
4/0 ·		X		NORTH WEST DOCK 1.6-1248				1.6
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AVTEX FIBERS

#### POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

Company Name

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		Type		•	。 A Republication A Republic		Arc	ochlor	
Sample No.	Wipe	Dirt	Other	,	Location	1242	1254	1260	Total
0/0	x			SUB 1-A		4,763			4,763
-1/7	x			SUB 1-A	<u> </u>	33	•	S. M.	33
-1/1	х			SUB 1-A		1,771			1,771
-1/9	x		•	SUB 1-A	The second second	58			58
0/6	X			SUB 1-A	And the second s	1,777			1,777
-3/-1	X	•		SUB 1-A	Programme and a second	131			131
-3/1	X			SUB 1-A	and the second s	557			557
-2/0	X			SUB 1-A	estimos de mandadades de estados e la	275			275
2		X		SUB 1-A	148-1248	<u> </u>			148
2/6		X		SUB 1-A	21-1248				21
2/8	'	X	1	SUB 1-A		15		and the second	-15
1/3		X		SUB 1-A	13-1248		1		
2/0		X	<u> </u>	SUB 1-A	55-1248	<u> </u>	<del></del>		g 'a 55
1/1	<u> </u>	X	<u> </u>	SUB 1-A	89-1248	<u> </u>			. 89
2/4	<b></b>	X		SUB 1-A	74-1248	<u> </u>	<u></u>		74
1/-3	X			SUB 1-A		3,807	<u> </u>		3,807
1/-7	X			SUB 1-A		372	1		372
1/-1	X			SUB 1-A		2,526			2,526
0/-10	X			SUB 1-A		295			295
-1/-5	X			SUB 1-A		8,560	<del></del>		8,560
2/-2	X			SUB 1-A	And the second s	3,539			3,539
0/-4	X	1	<u> </u>	SUB 1-A	Se Seguente de la constitució	3,377		1	. 3,377
1/-5	X	4		SUB 1-A	The second secon	1,119			1,119
0/-2	X_	1		SUB 1-A	The second secon	4,358		<u> </u>	4,358
~ ·-8	X			SUB 1-A	393-1248				393

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Company Name	AVTEX FIBERS	

	Type			•	•	Arochior				
Sample No.	Wipe	Dirt	Other	Ľ	ocation	1242	1254	1260	Total	
0/-6	х			SUB_1-A	1,012-1248			· · · · · · · · · · · · · · · · · · ·	1,012	
-2/-8	X			SUB 1-A		219			219	
-3/-3	X			SUB 1-A		246		4	246	
-3/-5	X			SUB 1-A		260	·		260	
-1/-7	x			SUB 1-A	1,182-1248		•		1.182	
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Company Name . 9-5-89

## POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

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Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
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A029R		X		ல் நட்டாதுக்கும் அனிர்கள் நட்டத்த				ND
1030R		X		1990 Conference April 1997				ND
1004L		X		and the second s	,			ND
1004R		X		e i julijana zamajusta je k gravna sa vijeka je i				מא
1006R		X		group designation of the control of				ND
A012R		X		and the second of the second o				ND
A014R		X		and the second of the second o		•		ND
A01~		X		A CONTRACTOR OF THE SECOND			12	12
AUI		X				`	3	3
A028P		X		A STATE OF THE STA			33	33 ;
A010R		X		en e	,			ND
A011R		. X		n na marana na na hara			3	3
AO13R		X		n participa de la companya de la co La companya de la co			6	6
A015R		X		en e			16	16
AD16R		X		en la constanta de la constant			21	21 .
4017R		X		A STATE OF THE STA	· · · · · · · · · · · · · · · · · · ·		6.4	6.4
1027R		X	4 94	TIME 16:13			.3	.3
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Customer Number	03/20000	 	

Company Name ____AVTEX FIBER

### POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

	]	Туре		<b>'</b> :	Arochlor			
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Tota
-2/-6		X		NORTH WEST DK. 778 - 1248				778
-2/2		X		NORTH WEST DK 3238 - 1248			,	3238
-2/-12		X		NORTH WEST DK 20 - 1248				20
-2/.3		I		NORTH WEST DOCK	769	·	·	769
-2/0		X		NORTH WEST DK 745 - 1248				745
-2/-10		X		NORTH WEST DOCK 14 - 1248				14
3/-15		X		NORTH WEST DOCK 13 - 1248				13
3/-13		X		NORTH WEST DOCK.5 - 1248				. 5
4/-12		X		NORTH WEST DOCK 2 - 1248				<u> </u>
0/-16		X		,		.2		.2
0/-14		X			4.2			4.2
5/-3		X		·			.6	.6
5/-11		X		20 - 1248				20
5/-1		X				1.5		1.5
5/-7		X		103 - 1248	-			103
1/-15		X			.4			.4
2/-14		X				.3		.3
1/-13		X				.3		.3
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Company Name ___AVTEX FIBERS

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#### POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

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Турс				Arochlor				
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
1/-3	X			NORTH WEST DK. 4 - 1248			:	4
2/-4	X		1.1	NORTH WEST DK 161 - 1248				161
1/-5	X			NORTHWEST DK1230 - 1248	. 1		•	1230
2/-2	X			NORTH WEST DK 3 - 1248	1 0			3
1/-1	X			NORTH WEST DK - 3 - 1248				3
2/0	X			NORTH WEST DOCK1 - 1248			i.(	1
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DIUM STALL CUNSULTANTS
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ustomer Number	
MILTING AT MANUAL	

Company Name _

AVTEX FIBERS

9-18-89

#### POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

	Туре			Arochler				
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
11531057		X					19	19
1531056		X					5	5
1531054		X					64	64
1531852		X			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		187	187
11531055		¥		1.4-1240			.5	1.9
15310510		X		2 3 11 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1			2.7	2.7
1531051		X					43	43
:1531053		x					.8	.8
1 ** 1059		×				•	1.6	1.6
1531058		X					.7	.7
								<u> </u>
								<u> </u>
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·			ļ				<u> </u>	<u> </u>
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			<u> </u>		· ·		ļ	<del> </del>
		<u> </u>	1 1 1 1				1	
·	<u> </u>	<b></b>	,					<del> </del>
			· · · · ·			3,	<del> </del>	<del> </del>
****	<del>                                     </del>	<del> </del>	<del> </del>		<del></del>	v.	<del> </del>	-
	<del>                                     </del>	<del> </del> -	-					<del>                                     </del>
<u> </u>	┼	<del>                                     </del>	<del> </del>		-			<del> </del>
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DIVISION OF	TRANS	FURMER
The second second		

Customer Number	03720000	
Company Name	AVTEX FIBERS	

9-19-89

#### POLYCHLORINATED BIPHENYL (PCB) ANALYSIS STATEMENT OF CERTIFICATION

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Sample No.	Wipe	Dirt	Other		Lo	catio		1242	1	254		1260	Total
-2/-14		X		NORTH W	EST DK	7	- 1248	•					7
-2/-16	<b>,•</b>	X		NORTH W	EST DO	CK	e gandgre in die bei 1990 to de 1	_					ИD
4/-16	•	X		NORTH W	EST DO	CK "	- V. draffyrffyrnaiddian (fland) - e g	, e 4	.2	4			.24
4/-14		X		NORTH W		4	e sur ciglio mino mano la como	`	.4			•	.4
5/-13	. · w 1	X		NORTH W	EST DO	CK	en trisien (Michigan (1907) 1867) 1907 - Talisa III.	e e e e	.2	5			.25
6/-4		X	X	NORTH W	EST DO	CK	A control of the second		.8	1 Jan 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			.8
6/-8		X	processor	NORTH W	EST DX	4	.2 - 1248	14 · · · · · · · · · · · · · · · · · · ·					4.2
<b>`-</b> 6		X		NORTH W	EST DO	CK	ef 10 mag mg/MCm. 1, 15 %		,3				.3
v,-12		X	·	NORTH W	EST DO	CK	The other		.3	۱,		-	3
A007R	,	X		NORTH W	EST DO	CK	er fallenger i stat met Terfallenger						ND
A020R		X		NORTH W	EST DU	ĊK		, •					ND
Ŧ.,					:					,			
i.							100 mg 10			-			
					<u> </u>	•	The second secon	•	<u> </u>		<u> </u>	. • !	
		÷			1		To Program and the state of the	·		•			
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· ,				<u> </u>	• !		sa dykumeny Sau Nilou Sea			<b>A</b> .			
				<u> </u>			Your all the Parish of the Control o			1 1			
			·		47 12		(2) or " " " " " " " " " " " " " " " " " "						
							and Spalings appropriate						
1						人名英格兰	Transport Communication Commun			*			

PCRAHM

ACIS 4:23		~					
DIVISION	<u>O</u>		R :0	AN NS	S	FOR	MER

Date 03720000 Customer Number	No. Samples
Company Name AVTEX FIBER	RS

	Type				T	Aro	chlor	
		4335	:	•	-	<i>7</i> <b></b> <i>7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7</i> .		;
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
1		×						ND
2		X						ND
3		×						ND
4		×			:			מא
5		X						ND
6		X						ND
		x_					<del></del>	( )
8		×						ND
<b>Q</b>		X		•		<del></del>		ND
10		X				~	<del></del>	ND
11		X					<del></del>	ND
12		X	•					ND
13		Y						ND
14		¥				,		ND
15		X						ND
16		X					•	ND
17		×						ND
18		X						ND
19		×						ND
20		×						ND
21		x						ND
22	×						7.7	7.7
23		X		`				ND
24	x			•			3.3	4
25		X						ND

PCTAIL

Acts 4:12		
DIVISION OF	TRANSFOR	MER
SDWA62	TRANSFOR CONSULTAL	NTS.

Date 1	ło.Samples 🔔		
Customer Number03720000	en.		
		***************************************	
Company NameAVTEX FIR	ERS		

	Туре					Aro	chlor	
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
26		×						ND.
27	X						2.4	2.4
28		х	}					NDi
29		X.			į	,		ND
30		Х_						ND.
3]		×				1		ND
<del></del>		×			<del></del>		'	ND
_33		×						ND
34		×		4.0 (2.2)	•		·	מא
35		×						ND
36		×				<del> </del>	a a	ND ND
37		·	-		~ <del>~~~</del>	<del>                                     </del>		ND
		<u> </u>	<del></del>			<del> </del>		ND
38		_ X			<u>-</u>			
39		X			<del></del>			ND
40		- X	<del> </del>			<u> </u>		ND_
42		X	-		<del></del>			ND ND
43			-					ND
44			X			<del> </del> -		ND
'45		×						. ND
46	<b></b>	×	26.4			<del> </del>		ND
47		×			<del></del>			ΝD
			-		·	<del> </del>		
48		×						- NO
ــــــــــــــــــــــــــــــــــــــ	<del></del>	<u> </u>	brise				<u> </u>	ND_
50	<u> </u>	<u>x</u>	10 to 10			<u> </u>		Nn

Acus 4:13	•	÷
DIVISION OF	TRANS	FORMER

Date -	No. 58	imples	 	-
Customer Number _	03720000		 	
Company Name	AVTEX FIBERS			

		Туре		•		Arc	ochlor	
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
51		X						ND
52		×					*	ND ,
53	X			<u>'</u>	4.6		3.6	8.2
54		×			£ ,•			ND.
55	X						5	5
56		×		·			173	173
57		Х						ND
58		_x						GN
59	x			•			35	35
60		×						ND.
61	x						4	4 .
62	χ						3.7	3.7
63	×						41	41.
64		v						ND
65	×						4.5	4.5
66		Y						ND.
67		, _		*1	·	·	• .	_ND
.68		,						ND
69	x						7.5	7.5
70	<b>,</b>						11	11
71	x			,		<u>.</u>	1.7_	17
72		Х						ND
73		×		·				ND
74		×						
75_	1	X	1		-			ND NO

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Acu 4:12		
DIVISION OF	TRANSP	ORMER

Date 1	No. Samples			 <u>:</u>	
Customer Number	03720000	·	· .	:	
Company Name	AVTEX_FIBERS		• .	.*	-

		Type	į		₩	on deserving the second of th	Arochior			
Sample No.	Wipe	Dirt	Other		Location		1242	1254	1260	Total
76	×	Ŋ.				- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		į	2.8	2.8
77		×			į.			•	:	ND
78	X								2.4	2.4
79	x						7.9	•	138.3	146.2
80	Χ			•			5.4		1.7	7.1
81	X			ì					15	15
87	X				1		3.3		4.7	8.0
8,		_ x			3				93	93
84		×			• ,				3	3
85		×					·		55	55
86		Х_	1						51	51
87		х	1		:				3.2	3.2
88		х					<del></del>		59	59
. 89		×		:					20	20
- 1		×	1		;	W. J.	<del></del>			ND
9091	Y				;		3.8	<u> </u>	5.1	8.9
92		х						:	54.7	54.7
93	X				?			;	2.4	2.4
94		X					1 4			
95			×		* 17-7-	11		ī	4	4
96			X	<u>.</u>	:			• 1	4	4
97	,		X		, t	ļ.			4	4
98		×			i			,		ND
99	×				:		3.6		4.5	8.1
10	X	1	1	:	i				1.5	1.5

**PCEATIM** 

Acts 4:12		1874	
DIVISION OF	IR	ANSFO	RMED

Date		No. Samples	 
Customer Number	03720000		 
	AVIEX FIB		 

		Туре		•	Arochlor			:
Sample No.	Wipe	· Dirt	Other	Location	1242	1254	1260	Total
101	X				1		7326	7326
102	X						218	218
103	×						2.2	2.
104	×						12.7	12.
105	×						4.2	4.
106		×					8	8
77		×						ОN
108		×						ND
109		×		• 3				ND:
110		×					<u> </u>	ND
111	×			· · · · · · · · · · · · · · · · · · ·		·	2.9	2.
112	X						2.6	2.
113	×						7.5	7.
114	×		1			,	1.8	1.
115	X						1.6	1.
116	×	<u> </u>					1.6	1.
117	×						1.4	1.
118	×						10.2	10.
119	×						6.9	6.
120_	x						21.4	21.
121	x						5.5	5.
122	×			_ `			84	84.
123	×						108.0	108.
124	×						79.3	79.
125	x		1				19.6	

**FCEAS** 

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Act 4:13	the second of th
DIVISION OF LE	ANSFORMER
SONVERS CO	ANSFORMER DISULTANTS

Date	No. Samples	·	
Customer Number	_03720000		<u></u>
Company Name _	AVTEX FIBERS		

	•	Турс				Ar	ochior	
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
126				NO SAMPLE- HIGH WATER				
127	×			the professional state of the s			17.9	17.9
128	χ			e <del>de la composition de la composition della composition della composition della composition della composition della composition della co</del>			138.2	138.2
129	Χ			All and annual to			11.4	11.4
130	X					#4	22.0	22.0
131	X					,	22.3	22.3
)2	×						1219.0	1219.0
133	X	• .					277.0	277.0
134	X			• Charles			2618.0	2618.0
135	×					And the second	383.0	3,83.0
136	<b>X</b> * . *	:		in the second		44	482.0	482.0
137	X			1 Decimal			3072.0	3072.0
138 .				NO SAMPLE-BAGIN OUTFLOW		No. of the second		
· · · · · · · · · · · · · · · · · · ·			1	1 1 1000 1000				and the second of
139	×						101	101
140	×				,		338	338
141	×		1	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	· · · · · · · · · · · · · · · · · · ·		261	261
142	×		1	n was and	<del></del>		417	417
143	×			A 44.4	· ·		6065	6065
144	×			4 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3			96.8	96.8
145	×			Foreigner.			221	221
146	×	1	1	i giyan	<del></del>		24	24
147	×	1	1	1. Configuration	<del></del>		17	17
148	×	1	1				14	14
149	×	1	1	· American			25	25
150	X				à	· · · · · · · · · · · · · · · · · · ·	17	17

Acts 4:12		
DIVISION OF	TRANS	FORMER

Date	No. Samples	·····	
Customer Number	03720000		
Company Name	AVTEX FIBERS		

		Туре		•		Arochlor			
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total	
151	_x						10	10	
152	X						31	31	
153	X						43	43	
154	X					,	11.2	11.2	
155	Х.	1					4.9	4.9	
156	Х						11	11	
1,67	Y						252	252	
150	¥						67.8	678	
159	<u>,</u>			•			17	17	
160	×						5.4	5.4	
161	Y						1.1	1.1	
162	Y		·	1	•		1.1	1.1	
163	Y						2.2	2.2	
164	¥			• • • • • • • • • • • • • • • • • • •			55	55 ¹	
165	x						9.2	9, 2	
166	x				·		15.3	15.3	
. 167		X						ND	
168		×						ND !	
169		×		•				ND	
170				NO SAMPLE - WATER					
171					,	·			
172				*		1		***	
173								•	
174	X ·						31.5	31.5	
$\frac{1}{1}$	X		<del>  </del>		<del>                                     </del>		238.7	238	

**ICBALIN** 

Acts 4:12	•	Date	No. Samples		
DIVISION OF TRANSFORMER CONSULTANTS	e e e e e e e e e e e e e e e e e e e	Customer Number _	03720000	· .	
- Tollowiniting	in the second s	Company Name	AVTEX FIBERS		

		Туре		y y transpy straw Marie transport of the second sec		Arc	chlor	e de la companya de l
Sample No.	Wipe	Dirt	Other	Location	.1242	1254	1260	Total
176	` X					a et e	53.8	53.8
177	X			a de la companya de tentra de la major describa de la companya del companya de la companya de la companya del companya de la c		9	19.2	19.2
178	X			A manifolia company	e ge		42.4	42.4
179	×			en e		:	53.4	53.4
180				NO SAMPLE - WATER		and the second	5.00	
181		X		A regularization of the second				ND
182	Х			and the second of the second o		•	7.5	7.15
		X		s and the state of	-			ND
184		X						ND
185		_X "		in the state of th				ND
186		X		A construction of the cons	:		)	ND
187		X		Hart Art Art Art Art Art Art Art Art Art A				ND 1
188	Х			Applie Signal Commission Co.			3.8	3.8
189	X.			- Line Company (Application of the Company C		•	12.1	12.1
190	_x			ear color of the color and devial matches) in			4.3	4.3
191	<b>X</b>			west of the state	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		7.8	7.8
192	Υ			the first state of the state of		a san san	13.1	13.1
193	¥			and the second section of the second section is a second section of the section			14.8	14.8
194		¥		स्थान के अपने के स्थापनी के किया है है जिल्ला है के किया है के किया है किया है किया है किया है किया है किया है		a de la companya de l		ND
195		 Y		graphic state of the state of t				ND
196	X			and the state of t	. w	· · · · · ·	4978	4978
197	X	1000		and the second of the second o	and the second of		217	217
198	X		10 1 1 1 1 a	and the second s			540	540
199	X			the state of the s			1746	1746
2	×			i e e e e e e e e e e e e e e e e e e e	N		95	95

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IVISION OF TRANSIS	ORMER TANTS
And the Party of t	

Date	No. Samples	 ·	
Customer Number _	03720000	 	
Company Name	AVTEX FIBERS		

	•	Туре	6		Arochlor				
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total	
201	x						3886	3886	
202	X	,					198	198	
203	X			and the second s	,	·	39	39	
204	Х				50 a k		5036	5036	
205	×						95	95	
206		X					_ 54_	54	
2i.		X					::35	35	
208		. х			,	·	201	201	
209		×		•	·		15	15	
210		X _					17	17	
211		<b>x</b>					37	37	
212	_	¥					2	2	
213		<b>.</b>					19	19	
214		¥					8	8	
215		×					4	4	
216		X					6	6	
217		X			·	*		ND	
218	_ x						1267	1267	
219	×			and the second s			4,4	4.4	
220	×			•	•		83	83	
221	×		a Ay				31	31	
222	×						5.3	5.3	
223	X			Section 1			5.3	5.:	
	X						16	16	
225		×			•		1.8		

PCSALIB

Acts 4:12					-
Men at 17	2.3				
CHILD COLOR	احزاره	5	175	7.7	****
DIVISION OF	3i 1 i	ΚД	ИS	FUH	(MEX
	31 2	- A			

Date (New popular) over 17	No. Samples	<u> </u>	
Customer Number	03720000		
Company Name	AVTEX FIBERS	,	•

		Type		_	Arochlor			;	
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total	
226		×					1.7	1.7	
227		X		الله الله الله الله الله الله الله الله			.65	. 65	
228	,	×		in the second control of the second control			.45	.45	
229		X		g S. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)			2.2	2.2	
230		X		AND THE RESIDENCE OF THE PARTY			.5	.5	
231		X		Company of the Compan			.8	.8	
21		×	-	and the second s	•.		2.6	2.6	
233	1	x					.5	.5	
234				and a specific section with a section of the sectio	1.2		1.4	2.6	
235		×		and the second of the second o		2.8		2.8	
236		_ <b>X</b>		a company of the second of the				ND	
237		Χ,	•.	The same of the sa			3	- 3	
238		X	2	The state of the s			1	1	
239	·	X	٠	The second secon			2	2_	
240		<b>x</b>		the transfer and design the transfer and			4	4	
241		×	:	The state of the property of the state of th			1	1	
242		X	,		• 11			ND	
243		Y		2.3 / 1248		18 S	.8	3.1	
244		¥	ę	278 / 1248	, egg			278!	
245		×	1	and the second s	273	<i>y</i>		273	
246	. 1	X		10 ppm / 1248			19	. 29 .	
247		×		a garage of the second of the	***		2.4	2.4	
248	1- 1	×		State of the state	/		.8.	.8	
24 25.		×		1. 19 to the contract of the c	·	t de la companya de l	244	244	
250		×	*	.4 / 1248			e u	4	

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Acts 4:12		
DIVISION OF	TRANS	FORMER
4 hUVAY	CUNCII	PTANTS

Date	No. Samples	·	 		
Customer Number	03720000		·* )		
Company Nama	Avtex Fibers			•	_

		Type		, ·		Aro	chlor	:
Sample Ne.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
251		×			4		·	4
252	X						6.7	6.7
	×			-4			35	35
253 254	X					,	8.8	8.8
255	X						17	17
256	Х	_			64			64
257	X				49			49
250	X				39			39
259	x			• •		,	•	ND
260	x						65	65
261	x						13'	13
262	_ x					4	23	23
263	¥				4.1		1	11_
264	Y						·40	40
265	Y			the state of the s			141	141
266	<u>, y</u>			and the second s			6	6
257			a 200	28 / 1248				
268	X			37 / 1248		•		<u>28</u>
269	×			508 / 1248				508
270	×		3.7	105 / 1248				105
271	×			121 / 1248				121
272	×			10 / 1248				10
273		х			25			25
274		×		·	7			7 1
274 27	<u> </u>	×			5			5

Acus 4:12	••		Date	No. Samples	 	•
DIVISIONO	TRANSFORK	MER TS	Customer Number	•	ı	•
				AVTEX FIBERS		!

		Type		And the second section of the s				
	•	-38c	•		•	Arc	ochlor	
Sample No.	Wipe	Dirt	Öther	Location	1242	1254	1260	Total
276	es'	X		2 / 1248			and the second	2
277		X ·		一九十八 東西東京				ND
278	X			大 有大學學學學			e e e e e e e e e e e e e e e e e e e	ND
279	20 0 0	×		5 / X (####	•		2	2
	a 2.54		ye - =	· · · · · · · · · · · · · · · · · · ·			2.1	
				1. 改造中華山縣學丁				
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Acts 4:13		
DIVISION OF	TRANS	FORMER

Dats	No. Samples		 
Customer Number 037200	00	~ <del></del>	 
Company Name AVTEX	FIBERS		

	Туре			•	Arochlor				
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total	
-3/-1		Х		7-1248				7	
-3/5		X		9.4-1248				9.4	
-3/3		X		15-1248				15	
4/-10		x		20-1248	: :			20	
-3/-7	·	X		.6-1248				.6	
-3/-11		X		191-1248			·	191	
-3/1		X		12-1248					
/8		X		.9-1248				.9	
-3/7		X		2.4-1248			•	2,4	
5/-17		x		1,3-1248				1.3	
-3/-5		X		58-1248			•	58	
-2/4		_x_		.3-1248			! 	.3	
-3/-3		X		.8-1248				.8	
-2/6		x		.3-1248	•			.3	
-3/-9		X		158-1248				158	
-3/-15		X		2-1248				2	
-1/-15		X		5.4-1248				5.4	
-4/-6		X			•			ND	
3/-17		Х						מא	
-4/-12		x						ND	
2/-16		X						ND	
-4/ <del>t</del> 6		X						מא	
-4/4		X						NF	
-4/-2		X						מא	
		X						ND	

Acts 4:12			· * .
AUUSION	or bet.	DEEN	BUED
DIVISION	77 CO	NSULT	NTS

Date	No.	Samples _	~~	
Customer Number	03720000	( ) a ( )		
Company Nama	AVTEX FIBERS	3	 ı	

Туре							€ Az	ochlor	
Sample No.	Wipe	Dirt	Other	· ·	Location	1242	1254	1260	Total
-2/-18		x	•		42-1248		2		<del>                                     </del>
-4/-14		X							H 42
6/-10		×			1.4-1248				1.4
		X			50-1248				-
-1/+9 -1/-17		· X	k		1.00支配基础公		•		ND
-4/-10		X			· 10.37.14		•••	·	ND
-4/-8_	,	X		. 7					ND ND
4		. X							ND :
-3/-15		X		: £.	227-1248		·		227
-4/0		X			1.7-1248		<u> </u>		1.7
-4/-16		X			· · · · · · · · · · · · · · · · · · ·	•	<del></del>		ND
-3/-17		x			1. 化二乙烷 (1) 化二二烷 (1) 化二元烷 (1) 化元元烷 (1) 化元元元烷 (1) 化元元元元元元元元元元元元元元元元元元元元元元元元元元元元元元元元元元元元		······································		ND .
-2/-4		X			3.5-1248			2	5:5
6/0		X						0.4	0.4
6/-2		X			64-1248		1 1		64
DRAIN	:	X			€52≟1248				52
-2/-2	X		:	z . n	45-1248				45
-1/-1	X			;	3805-1248		į.		3805
-3/-1	X	·		,	3-1248		•		3
-2/0	X				754-1248				754:
0/-2	X			. •	12-1248		•		12
1/-1	X				1744-1248				1744
-1/-5 2/	X		1		2166-1248		-		2166
2/	X			, 	2.3-1248				2.3
2/	X			·	8.2-1248	•		2.8	11

PCEALIFE

£18 4:12			•	* .
	OF FO	RAN	SFORI	ا

Date		No. Samples		
Customer Number	03720000		<del></del>	( -
Company Name	AVTEX FIBI	ERS_		

NORTHWEST DOCK AREA

Туре		Туре		•	Aro	blor		
Sample No.	Wipe	Dirt	Other	Location	1242	1254	1260	Total
0/-4	x		· -	57-1248				57
-2/-4	x			16-1248	•			16
2/0	X			32-1248		30		62.
1/1	x			38-1248				38
-3/-3	x			3-1248			•	3
-3/-5	X			2.5-1248				2.5
· `	X			755-1248			:	755
1/-5	X			. 62-1248			·	62
0/2	X			1907-1248				1907
2/-2	X			13-1248			•	13
-2/-6	x			6.4-1248				6.4
2/4	X			34-1248		30		64
-3/1	X			4-1248	•		•	4
1/3	X			61-1248				61
0/0	x			1463-1248	,	•		1463
2/2	1			6-1248				6
3/-5	X					18		18
-1/-3	×			1600-1248				1600
0/-6	x			2.4-1248	•		11 · · · · · · · · · · · · · · · · · ·	2.4
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~ <del></del>	1	1						<u>                                     </u>

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