



Department of Energy  
Albuquerque Operations Office  
Los Alamos Area Office  
Los Alamos, New Mexico 87544

*John K*

OCT 29 1998

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**

Benito Garcia, Chief  
Hazardous and Radioactive Materials Bureau  
New Mexico Environment Department  
2044 Galisteo St., Bldg. A  
P. O. Box 26110  
Santa Fe, New Mexico 87505

Dear Mr. Garcia:

**SUBJECT: Geosafe Corporation - Regulatory Documentation**

The purpose of this letter is to provide copies of regulatory documentation that the Geosafe Corporation has received for work completed. Within these documents are names of work locations, regulatory agency staff contacts, and names of corporations and contacts.

Should you have any questions, please contact me at 665-5042 or Jack Ellvinger at 667-0633.

Sincerely,

*[Signature]*  
H.L. "Jody" Plum  
Office of Environment

Enclosure

cc: w/enclosure:  
Lee Wynn  
John Kieling  
Stu Dinwiddie



13224

REP LAWL G/P '98  
HSAW LAWL G/M/S '98

*TR*

JUN 1 2 1994



SPOKANE COUNTY  
AIR POLLUTION  
CONTROL AUTHORITY

WEST 1101 COLLEGE, SUITE 403 • SPOKANE, WA 99201 • (509) 456-4727 Fax (509) 459-6823

June 8, 1994

Mr. Craig Timmerman  
Geosafe Corporation  
2950 George Washington Way  
Richland, WA 99352

Dear Mr. Timmerman:

After reviewing Notice of Intent to Construction #T0075 for the soil remediation to be performed at GE Apparatus Service Shop, 4323 E. Mission Ave., Spokane, WA a final determination has been made and approval is being granted contingent on the following conditions.

1. SCAPCA must be notified of the exact date of start up. Notification must occur at least 7 days before the starting date.
2. SCAPCA must be notified within seven (7) days of project completion. A report summarizing the results of the test must be submitted to SCAPCA within ninety (90) days of project completion.
3. The air pollution control equipment shall be maintained in proper working condition.
4. A copy of the Notice of Intent to Establish a Temporary Source and this letter must be posted near the In Situ Vitrification operation for inspection / review by SCAPCA staff.
5. Approval of the Notice of Intent to Establish a Temporary Source does not relieve the proponent of the obligation to comply with all other applicable federal, state and local regulations and requirements.
6. Upon initial start-up of the In Situ Vitrification system,
  - A. The proponent shall monitor the off-gas stack emissions per the TSCA Demonstration Test Plan. The stack sampling shall be performed on Melts 1, 2 and 3 per the above test plan. Sampling shall be performed using EPA Methods 1, 2, 3A, 4, 7E, 10, and 23 from Appendix A of 40 CFR 60. Analyses shall include Polychlorinated Biphenyls (PCBs), Polyaromatic Hydrocarbons (PAHs), Polychlorinated dibenzo-p-dioxins (PCDDs), and Polychlorinated dibenzofurans (PCDFs). A particulate matter and hydrogen chloride sample shall be collected using Method 0050 from 40 CFR 266. The volatile organic compound sample shall be collected using EPA Method TO-14 (SUMMA canister).
  - B. As soon as possible, within reasonable analytical turn around time (approximately 4-5 weeks), SCAPCA shall be notified of the maximum PCB, PCDD and PCDF at the thermal oxidizer's exhaust stack.
7. The proponent shall inform SCAPCA prior to any alterations to the operation of the thermal oxidizer that would reduce the retention time in the thermal oxidizer chamber below 0.8 second or lower the temperature below 1500 °F. In no case shall the proponent alter operations such that the retention time is less than 0.5 seconds or the combustion chamber temperature in the thermal oxidizer is less than 1400 °F.
8. An operation and maintenance (O & M) plan for the air pollution control system shall be available on site for review by SCAPCA personnel upon request. Information obtained from the O & M plan shall be treated as confidential by SCAPCA personnel.
9. Records shall be kept of all influent and effluent sampling/monitoring and of any maintenance that occurs

during the project. Gas sampling/monitoring records shall include date and time of the sample and the results of the measurement. Filter maintenance records shall include dates on which filters are changed and any other pertinent maintenance activities which occur.

10. The spent HEPA filters shall be handled in an appropriate manner and disposed of in accordance with applicable regulations.

11. Emissions shall not exceed the following emissions limits:

Pollutant	Allowable Limits	Allowable Limits
	lbs/year	lbs/day
<u>Polychlorinated Biphenyls (PCBs)(Aroclors)</u>	0.50	NA

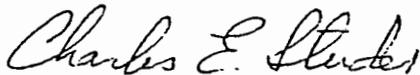
This authorization may be modified, suspended or revoked in whole or in part for just cause including, but not limited to, the following:

1. Violation of any terms or conditions of this authorization
2. Obtaining this authorization by misrepresentation or failure to disclose fully all relevant facts.

Thank you for your cooperation.

Sincerely,

**SPOKANE COUNTY AIR POLLUTION  
CONTROL AUTHORITY**



Charles E. Studer  
Air Quality Engineer

enc. NOI #T0075  
Invoice # 01000

cc: GE Apparatus Service Shop Source File  
Studer Correspondence File  
NOI Source File

JUN 09 1994

SPOKANE COUNTY AIR POLLUTION CONTROL AUTHORITY  
West 1101 College Avenue Spokane, Washington 99201 (509)456-4727

NOTICE OF INTENT TO INSTALL AND OPERATE A TEMPORARY SOURCE No. 1075

1. GENERAL INFORMATION		FIRM NAME: Geosafe Corporation	<b>RECEIVED</b> MAY 20 1994 SPOKANE COUNTY AIR POLLUTION CONTROL AUTHORITY
MAILING ADDRESS: 2950 George Washington Way Richland, WA 99352			
INSTALLATION ADDRESS: GE Apparatus Service Shop, E. 4323 Mission Ave., Spokane, WA			
CONTACT PERSON: Craig Timmerman			
POSITION: Manager, Engineering & Technology	TELEPHONE NUMBER: (509)375-0710		

2. SOURCE INFORMATION		TYPE OF PROCESS: In Situ Vitrification	
DATES OF OPERATION: FROM 6/1/94 TO 12/1/94			
HOURS OF OPERATION: FROM - am pm TO - am pm (24 Hrs. Day)			
DAYS OF OPERATION (circle):		Su M Tu W Th F Sa (7 day/week)	
MAXIMUM HOURLY PRODUCTION (WEIGHT/TIME): 2.65 E-8 Lb. PCB/hr.		(See attached Spreadsheet)	
DATE OF LAST SOURCE TEST: (See attached spreadsheet)			
RESULTS OF LAST SOURCE TEST: (See attached spreadsheet)			
TYPE OF AIR POLLUTION CONTROL EQUIPMENT: Wet quenching, wet scrubbing (Hydro-Sonic Scrubber), HEPA filtration, 1500° F thermal oxidation, stack exhaust. This is state-of-the-art best available control technology			
SERIAL NUMBER OF CRUSHER OR PLANT: N/A			

3. SEPA
I certify that the State Environmental Policy Act (SEPA) has been satisfied for this project on _____ date by _____ government agency.
SCAPCA may require that a copy of the final determination and a copy of the environmental checklist/or environmental impact statement be submitted with this application.

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS APPLICATION, INCLUDING SUPPLEMENTAL FORMS AND DATA, IS TO THE BEST OF MY KNOWLEDGE COMPLETE AND CORRECT.

SIGNATURE: <u>Craig Timmerman</u>	DATE: <u>5/19/94</u>
NAME: <u>Craig Timmerman</u>	
TITLE: <u>Mgr., Engineering &amp; Technology</u>	PHONE NUMBER: <u>509-375-0710</u>

FOR AGENCY USE ONLY
Approved by Spokane County Air Pollution Control Authority
<u>Eric Koster</u> CONTROL OFFICER
Date: <u>6/7/94</u>
Comments: <u>Per conditions</u>

NOTE: For asphalt plants and soil remediation plants the Additional Information sheet must be completed and attached.

ADDITIONAL INFORMATION SHEET  
 FOR NOTICE TO INSTALL AND OPERATE A TEMPORARY SOURCE No.

A1. ASPHALT PLANTS	
INFORMATION ON MOST RECENT SOURCE TEST	PRODUCTION RATE DURING SOURCE TEST:
X RECYCLE WATER DURING SOURCE TEST:	X RECYCLE ASPHALT DURING SOURCE TEST:
INFORMATION ON THIS PROJECT	PRODUCTION RATE TO BE USED:
X RECYCLE WATER TO BE USED:	X RECYCLE ASPHALT TO BE USED:

**NOTE:** Include results of most recent source test with this application unless SCAPCA already has a copy of the results.

A2. SOIL REMEDIATION PLANTS	
INFORMATION ON MOST RECENT SOURCE TEST	PRODUCTION RATE DURING SOURCE TEST: See attached spreadsheet
INFORMATION ON THIS PROJECT	PRODUCTION RATE TO BE USED: See attached spreadsheet
INFORMATION ON SOIL THAT IS TO BE TREATED	SOIL CONTAMINATION LEVEL IN ppm: 170-12,000 ppm (PCBs)
SOIL CONTAMINANT: Poly Chlorinated Biphenyls (PCBs)	

**NOTE:** Include soil analysis report or summary of soil testing performed. Also include the results from the most recent source test for the plant unless SCAPCA already has a copy of the results.

	A	B	C	D	E	F	G	H	I	J
1	GE/Spokane	No. of Cells	Cell/Layer	Total Volume	Density	Soil Weight	PCB Conc.	PCB Weight	Ave. PCB Conc.	
2	Site Soil Type	or Layers	Volume (ft <sup>3</sup> )	ft <sup>3</sup>	lb/ft <sup>3</sup>	lb	ppm	lb	ppm	
3										
4	Site Soils	5	10140	49916	131	6551475	170	1114		
5	Spiked Layers	3	261	784	131	102900	12000	1235		
6										
7	Totals			50700		6654375		2349	353	
8										
9										
10										
11										
12										
13	Ave. PCB Conc.	ISV	ISV	Off-Gas Process	Thermal Oxidizer	Overall	PCB	ISV Process	PCB	WAC-460-150
14		Process	Destruction	Removal	Destruction	DRE	Stack	Stack	Stack	PCB
15		Melt Rate	Efficiency	Efficiency	Efficiency		Mass Release	Flow	Flow Release	ASIL
16	ppm	lb/hr	%	%	%	%	lb/hr	m <sup>3</sup> /min	ug/m <sup>3</sup>	ug/m <sup>3</sup>
17										
18	353	6000	99.95%	95.00%	99.95%	99.9999988%	2.65E-08	50	4.01E-03	4.50E-03
19										
20										
21	NOTES									
22	Cells are 26 x 26 x 14 ft (minus the 3 spiked layers) - Attachment 1									
23	Spiked layers are 14 x 14 x 1.33 ft - Attachment 1									
24	Spokane site soil density is 2.1 g/cc									
25	Site soil and spiked soil PCB concentrations are from Bechtel Work Plan document - 9/24/93 - Attachment 2									
26	ISV process melting rate is based on demonstrated operations									
27	ISV process destruction efficiency is based on published empirical test data of 99.95 to 99.993% - Attachment 3									
28	Off-gas removal efficiency is based on demonstrated data of the current ISV off-gas system of 95 to 99% - Attachment 4									
29	Thermal oxidizer destruction efficiency is based on manufacturer (Sur-Lite) performance data of 99.9 to 99.99% - Attachment 5									
30	Stack release (lb/hr) is calculated from PCB concentration, ISV processing melt rate, and DRE values									
31	Stack release (ug/m <sup>3</sup> ) is calculated from stack mass release and converted to flow release based on stated off-gas flow rate									
32	PCB Acceptable Source Impact Level (ASIL) is from Chapter 173-460-150 WAC p. 10 Table II Class A Toxic Air Pollutants - Attachment 6									

# GEOSAFE - PROJECT CONTACTS

## Parsons Chemical Site Project (1993-1994)

Client Contact: Mr. Len Zintak, On Scene Coordinator  
U.S. EPA Region 5  
77 West Jackson Boulevard  
Chicago, IL 60604-3590  
312-886-4246

Regulatory Contacts: Mr. Len Zintak, On Scene Coordinator  
U.S. EPA Region 5  
77 West Jackson Boulevard  
Chicago, IL 60604-3590  
312-886-4246

Ms. Deborah Larson  
Environmental Response Division  
Michigan Department of Environmental Quality  
Knapps Centre  
PO Box 30426  
Lansing, MI 48909-7926  
517-373-4825

Mr. Richard J. Taszreak  
Air Quality Division  
Michigan Department of Environmental Quality  
Stevens T. Mason Building  
PO Box 30028  
Lansing, MI 48909  
517-335-4826

## TSCA PCB Demonstration Project (1994) and PCB Remediation Project (1996)

Client Contact: Mr. Russell Stenzel, Project Manager  
Bechtel Environmental, Inc.  
PO Box 193965  
San Francisco, CA 94119-3965  
415-768-3385

Regulatory Contacts:

Mr. Guy Gregory  
Washington Department of Ecology  
Eastern Regional Office  
N. 4601 Monroe, Suite 100  
Spokane, WA 99202-1295  
509-456-6387

Mr. Hiroshi (Dody) Dodohara  
U.S. Environmental Protection Agency  
Office of Toxic Substances  
PCB Disposal Section  
401 M Street, SW  
Washington, DC 20460  
202-260-3959

Mr. Charles E. Studer  
Air Quality Engineer  
Spokane County Air Pollution Control Authority  
West 1101 College, Suite 403  
Spokane, WA 99201  
509-456-4727

**Wasatch Chemical Site Project (1994-1995)**

Client Contact:

Mr. Roland Gow  
Manager, Environmental Affairs  
Entrada Industries, Inc.  
180 East First South  
PO Box 45433  
Salt Lake City, UT 84111-0433  
801-534-5594

Regulatory Contacts:

Ms. Erna Acheson, Remedial Project Manager  
Mr. J. Mario Robles  
U. S. EPA Region 8  
999 18th Street, Suite 500  
Denver, CO 80202-2466

Mr. Bill Townsend  
Mr. Cliff Vaterlaus  
Utah Department of Environmental Quality  
168 North 1950 East  
Salt Lake City, UT 84116

# Bechtel

50 Beale Street  
San Francisco, CA 94105-1895  
Mailing address: P.O. Box 193965  
San Francisco, CA 94119-3965

19099/CCN #3219  
July 2, 1997

Mr. Jack McElroy  
President  
Geosafe Corporation  
2950 George Washington Way  
Richland, WA 99352

Subject: Subcontract No. 19099-099-HC35-01-SC  
Completion of Services

Dear Jack:

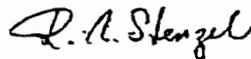
With the concurrence of General Electric Company and the Washington Department of Ecology (WDOE) that the West Dry Well portion of the Consent Decree remedy has been satisfactorily completed, Bechtel considers that Geosafe has satisfactorily completed its services under the above subcontract between Bechtel and Geosafe. Enclosed is a signed Certification of Completion and the WDOE concurrence letter.

Therefore Geosafe does not need to renew its letter of credit with The Huntington National Bank nor renew its Owners and Contractors Protective Liability Policy with Johnson & Higgins.

We look forward to finding another opportunity to work with Geosafe and its ISV technology.

Very truly yours,

BECHTEL ENVIRONMENTAL, INC.



R. A. Stenzel  
Project Manager

Enclosures

cc: D. A. Hankins (GE)



Bechtel Environmental, Inc.

July 2, 1997

Geosafe Corporation  
2952 George Washington Way  
Richland, WA 99352

Bechtel Project  
G.E. Spokane Project  
Subcontract No. 19099-009-HC35-01-5C  
SOIL TREATMENT BY IN SITU VITRIFICATION

CERTIFICATE OF PROJECT COMPLETION

This is to certify that the above project, which included the vitrification at the GE/Spokane site of PCB-contaminated soil and other hazardous material as identified below, was successfully completed by Geosafe Corporation. This contaminated material originated on the GE/Spokane site and was processed by Geosafe's In Situ Vitrification technology in accordance with Geosafe's National TSCA Operating Permit and with 40 CFR 761.

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Waste Type:	West Dry Well Soils and Debris containing non-liquid Polychlorinated Biphenyls
Waste Quantity:	2,459 tons
Dates Processed:	October 26 - December 15, 1996.

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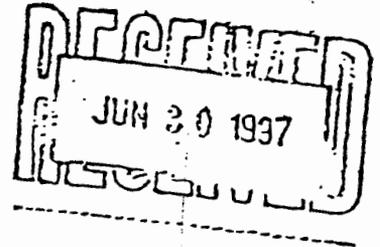
I certify as the company official having supervisory responsibility for this project that this information is true, accurate, and complete.

BECHTEL ENVIRONMENTAL, INC.

R. A. Stenzel 7/2/97  
Russell Stenzel  
Bechtel Project Manager



003217



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

4601 N. Monroe, Suite 202 • Spokane, Washington 99205-1295 • (509) 456-2926

June 27, 1997

Deborah A. Hankins, Ph.D., P.E.  
Corporate Environmental Programs  
General Electric Company  
114 Sansome Street, 14th Floor  
San Francisco, CA 94104

Dear Deborah:

Ecology has reviewed the Geosafe Corporation report entitled "GE Spokane Remediation Project ISV Site Preparation and Treatment Activities Summary", dated June 1997. We have also reviewed the May 29, 1997 notice to Geosafe Corporation from John W. Melone of the U. S. Environmental Protection Agency, Office of Prevention, Pesticides, and Toxic Substances concerning performance testing of Geosafe technology at the GE/Spokane Site.

Based upon our review of the above documents, we concur that the West Dry Well soil vitrification portion of the remedy at the GE/Spokane site has been satisfactorily completed.

If you have any questions, please contact me at (509) 456-6387.

Sincerely,

Guy J. Gregory  
Senior Hydrogeologist  
Toxics Cleanup Program

GJG:wh

FILE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

Copies  
Craig  
Jim  
Brett  
Jack  
Spares - (5)  
original - safe

9

OCT 31 1995

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Mr. Jack McElroy, President  
Geosafe Corporation  
2950 George Washington Way  
Richland, Washington 99352

Dear Mr. McElroy:

The Chemical Management Division (CMD) of the U.S. Environmental Protection Agency (EPA) grants Geosafe Corporation of Richland, Washington an approval to operate the Geosafe In-Situ Vitrification (ISV) Mobile Unit. This approval is for the destruction of non-liquid PCBs. Geosafe Corporation completed PCB disposal demonstration operations at the General Electric Mission Avenue facility in Spokane, Washington. Based on test data and information compiled and submitted by Geosafe in May 1995 and subsequent submissions, EPA grants Geosafe a TSCA nationwide PCB disposal approval effective upon signature and expiring exactly five (5) years from the date of signature.

The Geosafe mobile ISV unit has demonstrated capability to meet the Toxic Substances Control Act (TSCA) non-liquid PCB performance standard equivalent to incineration. The ISV destroys PCBs in non-liquid material to a level below 2 parts per million (ppm). Enclosed is the document entitled "Approval to Dispose of Polychlorinated Biphenyls (PCBs)." This approval permits Geosafe to thermally destroy and remove PCBs in soils using the In-Situ Vitrification Process (ISV), based upon the ability of the ISV to operate in accordance with the standards prescribed in 40 CFR 761.60(e), for approved alternative method of destroying PCBs.

EPA has reviewed the PCB demonstration test report, which claims that the ISV operations result in no subsurface migration of PCBs. Geosafe performed an experiment during the demonstration using a trench filled with clean soil. The objective of the experiment was to establish conclusively that no migration of PCBs and other chemicals occurs during ISV operations. However, the implementation of the experiment was defective. Therefore, EPA requires under Condition 4.c of the approval, that Geosafe repeat the experiment during the first commercial job; or, Geosafe must implement a sampling procedure to ensure no migration of PCBs outside the ISV treatment perimeter occurs at every job.

In the ISV process, a fraction of the off-gas from the vitrification cell is condensed and discharged along with the quench and scrubber solution stream. Because other companies associated with this project appropriated the responsibility for the final disposition of this stream, Geosafe did not demonstrate the disposal or treatment of the quench/scrubber stream. Therefore, during the first commercial job, Geosafe must demonstrate the disposal of the scrubber solution and sludge streams as required by Condition 4.b.

Please note that Condition 1, Advance Notification contains two categories of operations, Mobile and Permanent. Because the ISV process is a mobile technology and is performed in batch operations, and because each batch extends for several days before completion, EPA increases the transition time from Mobile to Permanent from 180 days to 270 days of occupancy at one facility. Condition 18 "Financial Assurance" of the approval requires Geosafe to submit a site closure financial assurance instrument prior to start of TSCA operation. In addition, Geosafe is required to submit to the Chief, PCB Disposal Section, annual updates of the financial assurance for closure and financial requirements.

This approval may be modified, withdrawn, or further conditions may be added at any time EPA has reason to believe that the operation of the ISV presents an unreasonable risk of injury to public health or the environment. Withdrawal of the approval or imposition of further conditions may also result from future EPA rulemaking with respect to PCBs, or from new information gathered by Geosafe or other parties at the GE Spokane demonstration site or during subsequent jobs at other sites. Moreover, violation of any condition of this approval may subject Geosafe to enforcement action, suspension and/or termination of this approval.

\*Prior to the first commercial job, Geosafe must submit for EPA review and concurrence, plans and schedule for compliance with Conditions 4.b and 4.c of this approval. Condition 4.b requires Geosafe to demonstrate equipment and operations for the disposal of the ISV quench/scrubber water and sludge. Failure to demonstrate proper disposal of the quench/water stream requires Geosafe to incinerate the waste stream at an EPA-approved facility(s). \*Condition 4.c requires Geosafe to repeat the "clean-soil-trench" test or to implement a sampling procedure to confirm the absence of subsoil migration of PCBs during ISV operations. Failure to implement and successfully complete the clean-soil-trench test compels Geosafe to implement a post-operation sampling and analysis procedure at each subsequent job.

Finally, this approval is based upon the EPA conclusion that the ISV, when operated in accordance with the conditions of approval, does not present an unreasonable risk of injury to the



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

RECEIVED  
J.L. McELROY

JUN 09 '97

MAY 29 1997

ACTION \_\_\_\_\_

COPIES CT, JFH, PC, LT

ROUTE \_\_\_\_\_  
OFFICE OF \_\_\_\_\_  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES \_\_\_\_\_

Mr. Jack McElroy, President  
Geosafe Corporation  
2950 George Washington Way  
Richland, Washington 99352

Dear Mr. McElroy:

Condition 4 of the nationwide PCB Disposal Approval issued to Geosafe Corporation of Richland, Washington, specified requirements for Geosafe to perform during the first commercial PCB disposal operation. Condition 4.C. required Geosafe to repeat successfully the "clean soil corridor" test for potential PCB migration performed during the 1994 PCB Disposal Demonstration, or to sample specific sections of the perimeter of each remediation site after completion of operations to verify that migration has not occurred. Results of the "clean soil corridor" demonstration indicated that migration of PCBs did not occur from the treatment cell or "melts" to the surrounding soil. Therefore, EPA amends Geosafe Corporation's nationwide approval to discontinue and delete the condition requiring post-treatment sampling of the remedial site perimeter. Also, EPA removes Condition 4, which required Geosafe to perform specific activities during the first commercial operation.

The Approval was issued by Chemical Management Division (CMD) of the U.S. Environmental Protection Agency (EPA) on October 31, 1995, to Geosafe to operate the In-Situ Vitrification (ISV) Mobile Unit. For EPA's review, Mr. Timmerman submitted a document entitled "TSCA Permit Test Plan." The Geosafe Test Plan provided procedures to satisfy Condition 4.C. of the TSCA approval, calling for samples to be collected in the clean soil zone at isotherms ranging from 400°C to 100°C, attained during the ISV treatment operations. EPA believes that sampling in that region is critical and that if migration of PCBs should take place, this is the location where condensation is most likely to occur. EPA observed the post-treatment sampling procedures and collected splits of representative samples from the tests for analysis.

In addition, Condition 4.A. required Geosafe to demonstrate the effectiveness of the backup off-gas treatment system and to develop a procedure to detect breakthrough of the carbon



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adsorption system. Geosafe had informed EPA that the off-gas backup system will no longer be used during equipment maintenance but has been established only as an emergency backup unit. Finally, Geosafe had informed EPA that it no longer intends to treat the scrubber water effluent. Instead, Geosafe shall dispose of spent scrubber solution by disposal at an off-site facility.

Enclosed are pages from the Geosafe TSCA nationwide approval revised April 11, 1997. Please replace the appropriate pages from the Geosafe nationwide approval dated October 31, 1995 with appropriate enclosed pages. Also enclosed is Appendix IIIA, summarizing test procedures and results of the "clean corridor" test, which confirmed that migration of PCBs during ISV operations did not occur. Please attach Appendix IIIA to the Geosafe approval.

Thank you for your cooperation with EPA representatives at the demonstration site. If you have any questions regarding this matter, please contact Hiroshi Dodohara at (202) 260-3959.

Sincerely,



John W. Melone, Director  
Chemical Management Division

Enclosures

cc: Dan Duncan  
USEPA, Region X

Christine Psyk  
USEPA, Region X

Guy Gregory  
Washington State DE

Brad Ewy  
Washington State DE

Kathy Boggess  
MRI



North Carolina Department of Human Resources  
Division of Health Services  
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor  
Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H.  
State Health Director

February 13, 1986

Mr. Brian Wells, Plant Engineer  
400 Jefferies Road  
P.O. Box 2627  
Rocky Mount, North Carolina 27802

Dear Mr. Wells:

This office has received the amendments to the November 27, 1985 closure plan.

Ilco Unican or it's representative must be capable of supplying at least Level B protective equipment to personnel performing closure activities. This requirement is due to the hazardous constituents in the sludge/contaminated soil. With this amendment the closure plan is considered complete and a public notice will be issued by February 21, 1986. Upon completion of the 30 day comment period and response to any written comments, this office will notify Ilco Unican in writing that closure may commence.

If there are any questions, call me at (919) 733-2178.

Sincerely,

A handwritten signature in cursive script that reads "Robert Glaser".

Robert Glaser, Hydrogeologist  
Solid & Hazardous Waste Management Branch  
Environmental Health Section

RG:pgb

cc: Larry Perry  
Alan Antley



North Carolina Department of Human Resources  
Division of Health Services  
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor  
David T. Flaherty, Secretary

May 27, 1987

Ronald H. Levine, M.D., M.P.H.  
State Health Director

Mr. Brian Wells

~~Stardust Corporation~~

Post Office Box 2627  
Rocky Mount, North Carolina 27806-2627  
NCDO45646924

Dear Mr. Wells:

Enclosed is a copy of the public notice and the attending cover letter which you requested. The copy and certification our office requested from the Evening Telegram has not arrived yet, so I don't know if the notice has been run.

Sincerely,

*Lisa H. Askari*

Lisa H. Askari  
Environmental Engineer  
Solid and Hazardous Waste Management Branch  
Environmental Health Section

Enclosure

LHA/mb/6765-4



North Carolina Department of Human Resources  
Division of Health Services  
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor  
Philip J. Kirk, Jr., Secretary

May 13, 1987

Ronald H. Levine, M.D., M.P.H.  
State Health Director

Evening Telegram

PO Box 1080  
Rocky Mount, NC, 27801  
Public Notice/Legal Ad Section

Dear Sir/Madam:

Please run the attached public notice one time as soon as possible. You may bill Emil Breckling with the state's Solid and Hazardous Waste Management Branch, PO Box 2091, Raleigh, NC, 27602. Also, please send a copy of the notice and certification that it appeared to Ms. Lisa Askari (same address as Mr. Breckling).

If you have any questions, please call me at (919) 733-2178.

Thank you for your help.

Sincerely,

A handwritten signature in cursive script that reads "Steve Reid".

Steve Reid  
Public Information Officer  
Solid and Hazardous Waste Management Branch

SR/bw

Attachment.

NOTICE OF CLOSURE PLAN FOR  
HAZARDOUS WASTE SURFACE IMPOUNDMENT

Ilco Unican Corporation located in Rocky Mount, North Carolina, proposes to close one (1) decommissioned surface impoundment formerly used to store hazardous waste. This closure plan has been approved by the North Carolina Department of Human Resources, and will involve treating the contaminated soil in the impoundment by In Situ vitrification and covering the area with clean soil. Within thirty (30) days of the date of publication of this notice, any person may submit written comments and request modification of the plan or request a hearing. Any persons with questions regarding this plan should contact Ms. Lisa Askari in Raleigh, North Carolina at (919) 733-2178.

-0-

RECEIVED

JUL 14 1987

JE HANSEN



**ILCO UNICAN CORP.**

July 6, 1987

*Y-X CLT ✓ 7/15  
VFF ✓*

*Also response to  
EPA comments.  
Note sewer permit  
requirements.*

*Jim*

Ms. Lisa H. Askari, Environmental Engineer  
North Carolina Department of Human Resources  
Division of Health Services  
Solid and Hazardous Waste Management Branch  
P.O. Box 2091  
Raleigh, North Carolina 27601-2091

RE: Addendum to Sections 40 CFR 265.310(a) (page 32(a)),  
40 CFR 265.111 (page 31) and 40 CFR 265.114 (page 31)  
of "ISV" Closure Plan

Dear Ms. Askari:

This letter is in response to your letter dated June 23, 1987, and the letter that you received from Mr. John Dickinson of the U.S. Environmental Protection Agency (EPA), which was undated. In this latter letter, the EPA indicated that our closure plan could be approved with minor modifications. Four items remained to be addressed. This letter and those modifications in addendum format presents Battelle's and Ilco Unican Corp.'s position relative to those four items.

Please insert the pages in the appropriate locations as indicated on each addendum.

If I can be of any further assistance, feel free to contact my office.

Sincerely,

Brian E. Wells

Plant Engineer/Compliance Manager

BEW/be

cc: A.M. Fish  
R.L. D'Amato  
J. Hanson, Battelle

Certified Mail # D 482 494 503

FAX TO: JAMES HANSON - VERY IMPORTANT

7/17  
20301  
L00110  
VFF-25

7/16/87



North Carolina Department of Human Resources  
Division of Health Services  
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor  
David T. Flaherty, Secretary

July 13, 1987

Ronald H. Levine, M.D., M.P.H.  
State Health Director  
919, 733-3445

Mr. Brian Wells, Plant Engineer

~~1101 [redacted]~~  
Post Office Box 2627  
Rocky Mount, North Carolina 27806-2627  
NCP45646924

RECEIVED

JUL 16 1987

J.E. HANSEN

Re: Closure Plan

Dear Mr. Wells:

Having reviewed your addendum to the closure plan addressing comments from the United States Environmental Protection Agency, this office has determined that ~~your closure plan is complete. You are hereby directed to begin closure.~~ Since the time period for closure is likely to exceed 180 days, please submit to our office quarterly updates informing us of your progress toward closure. Please submit the first report by October 1, 1987.

If you have any questions, please contact me at (919) 733-2178.

Sincerely,

*Lisa H. Askari*

Lisa H. Askari  
Environmental Engineer  
Solid and Hazardous Waste Management Branch  
Environmental Health Section

cc: Robert Glaser  
William F. Hamner  
Paul Laymon



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF:

MCC-10J

RECEIVED  
J.L. McELROY

FEB 09 '98

ACTION file-Parsons (site)

COPIES Jim, King, Jack, J. Bahlmann, J. West

ROUTE \_\_\_\_\_

FILE \_\_\_\_\_

February 5, 1998

Geosafe Corporation  
2950 George Washington Way  
Richland, WA 99352

Attention: Jack L. McElroy  
President

Subject: Completion of Contract No. 68-SO-5001

Dear Mr. McElroy:

This letter is written confirmation informing Geosafe Corporation of its satisfactory completion of the Parsons Chemical/ETM Site in Grand Ledge, Oneida Township, Michigan. The contract required the use of the In Situ Vitrification (ISV) technology for the purposes of destroying and permanently immobilizing organic and inorganic contaminants that were found on-site. The Parsons Chemical project was the first commercial application of the ISV technology. The contractor successfully used ISV technology to achieve the soil cleanup standards specified in the contract. While the Parsons project was technically difficult because of the unknown and unforeseen problems encountered with implementing an innovative treatment technology, Geosafe Corporation was able to successfully complete the project. Achievement of the clean up standards was confirmed by the implementation of the Post In Situ Vitrification Confirmation of Cleanup Workplan.

Sincerely yours,

Robert J. Dumelle  
Contracting Officer

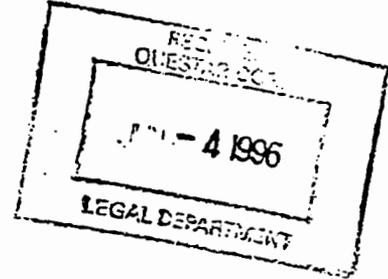


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION VIII

999 18th STREET - SUITE 500  
DENVER, COLORADO 80202-2466

*File*

MAY 31 1996



Ref: 8EPR-SR

Mr. Ray G. Groussman  
Questar Corporation  
180 East First South  
Salt Lake City, UT 84111

Subject: Approval of completion of the In-Situ Vitrification (ISV) portion of the Wasatch Superfund Site Remedial Action (RA), Salt Lake City, Utah

Dear Mr. Groussman:

The Construction Completion Report Remedial Design/Remedial Action (RD/RA) Soils, dated January 15, 1996 with addendum dated March 29, 1996 is acceptable to the U.S. Environmental Protection Agency (EPA). The report complies with section 3.3.3.3 of the Statement of Work for the Consent Decree (CD) for the RD/RA (Civil Action No. 86-C-0023G) for the Wasatch Superfund Site. Also, cleanup of the soils by ISV complies with the remedy outlined in the Record of Decision and Explanation of Significant Differences for this Site.

Please call me at (303) 312-6762 if you have any questions regarding this letter.

Sincerely,

Erna Acheson  
Remedial Project Manager

- cc: H. Pos, Esq.
- M. Robles, EPA
- M. Wood, EPA
- B. Townsend, UDEQ
- M. Day, UDEQ
- R. Gow, Entrada

Post-It™ brand fax transmittal memo 7671 # of pages > 1

To: <i>Ray Groussman</i>	From: <i>Roland Dow</i>
Co:	Co:
Dept:	Phone #:
Fax #: <i>509-375-7721</i>	Fax #:

