

## Texas Department of Health

William R. Archer III, M.D. Commissioner

1100 West 49th Street Austin, Texas 78756-3189 (512) 458-7111 Charles E. Bell, M.D. Executive Deputy Commissioner

Radiation Control (512) 834-6688

March 6, 2000

NUCLEAR REGULATORY COMMISSION OFFICE OF STATE PROGRAMS ATTN PAUL H LOHAUS DIRECTOR MAIL STOP 3 C10 WASHINGTON DC 20555 00 MAR 13 PM 4: 02

Dear Mr. Lohaus:

Please find enclosed the documents you requested in regard to the letter addressed to Dr. Carl Paperiello from Waste Control Specialists LLC (WCS), dated February 22, 2000.

- a. The current radioactive material license issued to WCS by the Texas Department of Health's Bureau of Radiation Control (BRC) (Amendment 9 to L04971, signed by Ruth E. McBurney on October 8, 1999).
- b. The most recent inspection of WCS conducted by BRC (conducted by Eric Skotak on November 16, 1999).
- c. The current fiscal tool which provides the appropriate amount of financial security for L04971 issued to WCS.

Also enclosed please find BRC staff brief comments on the WCS letter addressed to Dr. Paperiello.

Should you require additional assistance in addressing the issues raised in the letter, please contact Mr. Phil Shaver by telephone at (512) 834-6688 extension 2210; or by electronic mail at Phil.Shaver@tdh.state.tx.us

Sincerely,

Ruth E. McBurney, CHP, Director Division of Licensing, Registration

Suth E. McBurney

and Standards

Bureau of Radiation Control

3 Enclosures (as stated)

OSP SWERRE: SP-AG-M



# Texas Department of Health Bureau of Radiation Control



## RADIOACTIVE MATERIAL LICENSE

Pursuant to the Texas Radiation Control Act and Texas Health Department regulations on radiation, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess and transfer radioactive material listed below; and to use such radioactive material for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders of the Texas Department of Health (Agency) now or hereafter in effect and to any conditions specified below.

1. Name V	LICENSEE VASTE CONTROL SP	This license amendment is issued in response to a letter  Dated: October 6, 1998			
A	TTN DAVID KANIA 710 W BROADWAY	<u> </u>	Signed by: David Kania		
	NDREWS TX 79714				
			3. License Number	Amendment Number	
			L04971	09	
				DMENTS ARE VOID	
PADIO	ACTIVE MATERIAL	AUTHODIZED	4. Expiration Date	20. 2004	
	T	<del></del>	November	30, 2004	
5. Radioisotope	6. Form of Material	7. Maximum Activity*	8. Authorized Use		
A. Any radioactive material (includes radioactive waste, byproduct material as defined at Texas Health and Safety Code §401.003(3) (B), uranium ore received as waste, NORM waste, and/or oil and gas NORM waste)	A. Solid or Liquid	A. Activities of groups as specified under 25 Texas Administrative Code (TAC) §289.254(d)(1) not to exceed the following: Group I: 200 Ci Group II: 2000 Ci Group III: 20,000 Ci Group IV: 200,000 Ci	A. Receipt and processin material received as was	_	
B. Any radioactive material	B. Sealed Sources	B. Total activity not to exceed 1000 Ci	B. Interim storage of rareceived as waste	dioactive material	
		* Ci-Curies mCi-Millicuries μCi-Microcuries			



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C. Sealed Sources		
	C. No single source to exceed 1 uCi. Total: 5 uCi	C. Calibration reference sources
-	D. No single isotope to exceed 5 $\mu$ Ci, no combination of isotopes to exceed 50 $\mu$ Ci. Total: 1 mCi	D. Calibration reference sources
E. plated or sealed sources	E. No single isotope to exceed 1 $\mu$ Ci, no combination of isotopes to exceed 10 $\mu$ Ci. Total: 500 $\mu$ Ci	E. Calibration reference sources
	•	plated or sealed irces E. No single isotope to exceed 1 $\mu$ Ci, no combination of isotopes to exceed 10 $\mu$ Ci.

## 9. Radioactive material shall be used only at:

Site Number Location

000

Andrews - One mile North of State Highway 176, 250 feet East of TX/NM State Line (30 miles West of Andrews, TX)

- 10. Copies of all documents and records required by this license shall be maintained for Agency review at Site 000.
- 11. The licensee shall comply with the provisions of Title 25 Texas Administrative Code (TAC), Chapter 289, Sections 201, 202, 203, 204, 205 252, 254, and 257.
- 12. The individual designated to perform the functions of Radiation Safety Officer (RSO) for activities covered by this license is David Kania.

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- 13. Radioactive material shall be used by individuals designated by the RSO only after each worker has successfully completed the training specified in the Radiological Training Program. Documentation verifying the successful completion of the training for each user shall be maintained by the licensee for inspection by the Agency. All training shall be supervised by David Kania.
- 14. The licensee shall submit a current resume listing all pertinent education, training and experience for any individual who replaces the following positions: Management Oversight representative, Radiation Safety Supervisor, Facility Manager, Operations Manager, Laboratory Manager, and/or Environmental Health & Safety Manager.
- 15. For the purposes of this license, the following definitions apply:
  - A. Appropriately authorized: the activity has been formally authorized by the State or Federal agency which has jurisdiction over the issue.
  - B. Authorized federal agency: the United States Department of Energy (DOE) or the United States Department of Defense (DOD) upon written, executed agreement with the licensee that specifies that the authorized federal agency will take back and assume responsibility for all of its waste currently maintained at the licensee's facility within 30 days of written notification by the Agency that the waste is ready for removal, and that all associated expenses for such will be borne by the authorized federal agency to the extent that they are not covered by the licensee's financial assurance. These provisions will only apply if the licensee has failed to properly decontaminate and decommission the facility or otherwise failed to comply with an Agency order.
  - C. Interim storage: Stabilized waste packaged in accordance with 49 CFR (as amended), and that meets current or stated acceptance requirements for an authorized disposal facility or an authorized federal agency.
  - D. Waste: Radioactive waste, byproduct material as defined in Section 401.003(3)(B) of the Health and Safety Code (as amended), uranium ore, NORM waste, and/or oil and gas NORM waste.
- 16. Copies of authorized federal agency agreements specified in License Conditions 15.B and 19.B shall be mailed within seven (7) days of execution and prior to receipt of waste to:

ATTN: Licensing Bureau of Radiation Control Texas Department of Health 1100 W. 49th Street Austin TX 78756-3189

- 17. The licensee is hereby authorized to perform in-house pocket dosimeter calibration. The calibrations shall be performed under the supervision of the RSO.
- 18. The licensee is hereby authorized to perform in-house leak test analysis. The analysis shall be performed under the supervision of the RSO.

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- 19. A. The licensee is authorized to possess special nuclear material only in quantities not to exceed that specified in 25 TAC §289.201(b). The total amount of special nuclear material possessed under all licenses issued by this Agency at the licensee's facility described in Condition No. 9 shall not exceed the 25 TAC §289.201(b) limits.
  - B. Not withstanding the licensee's procedures, the licensee is authorized to possess transuranics (nuclides with an atomic number greater than 92) in concentrations greater than 100 nanocuries per gram (nCi/g). Prior to receipt of transuranics with concentrations exceeding 100 nCi/g, the licensee shall obtain an executed, written agreement from an authorized federal agency. The agreement shall meet the terms of the agreement specified in Condition 15.B of this license. Furthermore, in no respect shall this authorization be construed as to allow the limitations specified in Part A of this condition to be exceeded or violated.
- 20. In accordance with procedures submitted in the application dated January 24, 1997, the licensee is authorized to perform in-house decontamination of surface contaminated objects utilizing the PlasBlast Model 5050, or equivalent. This use is restricted to the Stabilization Building. This authorization is restricted to objects contaminated through the course of the licensee's authorized activities.
- 21. Radioactive material described in Parts A and B of Conditions 5, 6, 7 and 8 shall only be transferred to the initial generator, to an appropriately authorized waste disposal facility, or to an appropriately authorized waste processor. Documentation of recipient's authorization shall be maintained for inspection for a minimum of five (5) years.
- 22. The licensee is authorized to process waste. Such processing shall be performed in accordance with the procedures and commitments submitted in the application dated January 24, 1997, or new or modified procedures specified in Condition 34 of this license, and is limited to the following:
  - A. Receipt and survey;
  - B. Repackaging;
  - C. Compaction and consolidation utilizing a Model 55R RAMFLAT, or equivalent, compactor. This use is restricted to the Stabilization Building;
  - D. Processing and/or treatment of waste in the following methods:
    - (1) Solidification/stabilization of liquid or solid radioactive waste using media acceptable to low-level waste disposal sites utilizing a 55 gallon Enrico Barrel Mixer, or equivalent. This use is restricted to the Stabilization Building.
    - (2) Treatment of cesium-137-contaminated electric arc furnace dust (United States Environmental Protection Agency designation KO61) and incident related material utilizing the procedure described in module OP-1.4.7, issue date of 9/18/98, revision 1, titled "KO61 And Incident Related Material Stabilization Process." In addition to the procedures described in OP-1.4.7, all doors to the stabilization building shall be closed and remain closed during the processing of the waste.

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#### 22. D. (continued)

(3) Solvated Electron Technology (SET) of mixed-waste using the Commodore D/2 unit for pilot testing in accordance with the commitments made in the letters dated September 9, 1999 (with attachments), October 6, 1999 (with attachments, including the procedures identified as wCs Work Instruction for the Commodore D/2 Unit, WI99-1.16), and October 7, 1999 (with attachments). This treatment method is restricted to the following waste matrices and radionuclides:

**Waste Matrix Radionuclides** Soil (degreaser sludge) U-234, U-235, U-238, Cs-137, K-40 Moist solids, water on top U-234, U-235, U-238, Cs-137 Oil/Freon U-234, U-235, U-238, K-40, Co-57, Co-60, Cs-134, Cs-137, Ce-144, Eu-152, Eu-156, Rb-106, Sb-125, Zn-65, Pb-212 Freon soaked soil U-234, U-235, U-238, Cs-137, K-40 **Sodium contaminated metals** Co-60 Floor removal wastes Ag-116, Co-58, Co-60, Cs-137

- E. Storage of radioactive waste in the Bin Storage Area, Container Storage Building and the Stabilization Building.
- F. Research and development in the treatment of radioactive waste using the Commodore Mobile Demonstration Unit as described in and in accordance with the limitations and specifications contained in the letters dated February 3, 1999 and April 23, 1999, and attachments and enclosures, including wCs Work Instructions for CMDU2, dated April 9, 1999, WI99-1.2 and Attachment A to WI99-1.2.
- 23. In addition to the limits specified by Conditions 5, 6, 7 and 8, the licensee shall restrict possession of waste to the following conditions.
  - A. The total volume physically present shall not exceed 302,865 cubic feet and shall be further limited to the following building limitations:
    - 1. Bin Storage Area: 262,440 cubic feet
    - 2. Container Storage Building: 36,750 cubic feet
    - 3. Stabilization Building: 3,675 cubic feet

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## 23. (continued)

- B. Any waste container shall be counted as a full container in the volume inventory unless it can be readily verified as empty.
- C. Waste stored in the Bin Storage Area that is not contained within a High Integrity Container will be restricted to Low Specific Activity or Surface Contaminated Object, as defined by Title 10 of the Code of Federal Regulations (CFR) Part 71 (as amended), or depleted uranium.
- D. The volume authorized in License Condition No. 23.A shall be further limited in accordance with the amount of Financial Assurance in place with the Agency:
  - 1. Financial Assurance = \$7,084,973. No more than 3,822 cubic feet of waste that has a current commercial disposal option, 58,320 cubic feet of cesium-137-contaminated electric arc furnace dust (U. S. Environmental Protection Agency designation KO61), and 240,723 cubic feet of waste from authorized federal agencies;
  - 2. Financial Assurance = \$18,467,478. No more than 18,172 cubic feet of waste that has a current commercial disposal option, 58,320 cubic feet of cesium-137-contaminated electric arc furnace dust (U. S. Environmental Protection Agency designation KO61), and 226,373 cubic feet of waste from authorized federal agencies; or
  - 3. Financial Assurance = \$32,881,617. No more than 36,344 cubic feet of waste that has a current commercial disposal option, 58,320 cubic feet of cesium-137-contaminated electric arc furnace dust (U. S. Environmental Protection Agency designation KO61), and 208,201 cubic feet of waste from authorized federal agencies.
  - 4. The volume of waste that has a current commercial disposal option authorized in License Condition Nos. 23.D.1 through 23.D.3 may include up to 2,700 cubic feet of commercial mixed waste that can not be processed into a form that has a current disposal option.
- 24. All waste not in storage shall be physically restricted to:
  - A. (1) for waste meeting the requirements of low specific activity group I radioactive material, as specified in Title 49 of the CFR (as amended), processing within the confines of the Stabilization Building; and
    - (2) for all other waste, processing within the confines of a PERMACON, or equivalent, structure; or
  - B. Packaged in accordance with Title 49 of the CFR (as amended) requirements and in transit between the Bin Storage Area, Container Storage Building, Stabilization Building, or offsite.
- 25. All waste holding times shall be limited to the following:
  - A. All waste shall be initially processed within 10 days of placement within the Stabilization Building. All waste shall be transferred out of the Stabilization Building within 30 days of placement within the Stabilization Building;



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## 25. (continued)

- B. All waste shall be placed into interim storage or transferred to an authorized recipient within 365 days of the initial date of receipt; and
- C. All waste authorized under License Condition No. 23.D.4 shall be returned to the generator or an appropriately authorized waste processor within 60 days of the initial date of receipt.
- 26. A. No waste shall be commingled with material requiring a separate disposal methodology.
  - B. In spite of the licensee's procedures, no waste from an authorized federal agency shall be commingled with waste from another generator.
- 27. The licensee shall maintain for inspection by the Agency an inventory of all waste possessed under this license. The inventory shall show the radionuclide, date received, from whom received, amount of activity, physical form, date processed, original and reassigned drum or container number, and the date transferred for disposal. In addition, the licensee shall at least monthly generate a cumulative inventory which demonstrates compliance with License Condition Nos. 19, 23, and 25 (including waste form requirements for interim storage), and the appropriate processing group limits of 25 TAC §289.254(d). The licensee shall maintain a copy of the inventories, for a minimum of five (5) years from the date of generation, for inspection by the Agency.
- 28. A summary of all waste processing activities for the preceding calendar year shall be generated no later than March 1 of each year and maintained for inspection until disposition is authorized by the Agency. This report shall include total throughput for each individual process; all material received; all material transferred; all spills outside of primary containment; and a current inventory at the end of the report. Material transferred and received shall also be listed by licensee. All categories shall include activity by isotope and total volume.
- 29. A. Waste containers containing radioactive waste meeting the requirements of low specific activity material, group I (LSA-I), as specified in Title 49 of the Code of Federal Regulations, Section 173.403, may be opened for sampling of the contents or container maintenance or repair in a Permacon, the Container Storage Building, or Stabilization Building.
  - B. All other waste containers shall only be opened in PERMACON or equivalent structures.
- 30. If air sample results indicate that an airborne release in excess of ten times the limits of 25 TAC §289.202(ggg)(2), Table II Column 3 occurred to the restricted area or to any portion of the restricted area, the licensee shall, within 72 hours of the exposure, perform bioassays on all individuals who were present.
- 31. A. The licensee shall notify the Agency in writing or via facsimile at least three (3) working days in advance of shipping its low-level radioactive waste to a commercial treatment, storage, or disposal site.
  - B. The licensee shall notify the Agency in writing or via facsimile at least three (3) working days in advance of initial receipt of waste pursuant to this license.





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31. (continued)

C. Notification required by this Condition shall be made to:

LLRW Notification
ATTN: Division of Compliance and Inspection
Bureau of Radiation Control
Texas Department of Health
1100 W. 49th Street
Austin, Texas 78756-3189 or
by facsimile to: (512) 834-6654.

- 32. A. In accordance with the application dated January 24, 1997, the licensee may only modify the following procedures: Operations Procedures; Occupational Health and Safety Procedures; Quality Assurance Procedures; Emergency Procedures; Laboratory Procedures and/or Radiation Safety Procedures. All modifications shall provide at least equivalent levels of radiation safety and administrative control. Documentation of all modifications, and the corresponding internal review, shall be maintained for inspection for a minimum of five (5) years.
  - B. In the radiation safety procedure RS-3.3.62, wherever Form RS 3.3.61-1 is referenced, it shall be understood that Form RS 3.3.62-1 is meant.
- 33. Modification of the facility or the processes described in the documents listed in License Condition No. 34 is prohibited except as authorized pursuant to amendment of this license.
  - A. The licensee may modify the facility as described in the licensee's letter dated October 6, 1998 regarding the Permacon structures.
- 34. The licensee must secure all applicable licenses, permits, and/or authorizations from the appropriate regulatory authorities before engaging in the authorizations granted by this license.



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35. Except as specifically provided otherwise by this license, the licensee shall possess and use the radioactive material authorized by this license in accordance with statements, representations, and procedures contained in the following:

application dated January 24, 1997 and amendment dated May 2, 1997, including Appendices Volume I-V, Site and Facility Drawings, and Drawing Specification;

letters dated March 5, 1998 (with Andrews Site Organizational Chart and vice president operations/facility manager, radiation safety officer, and operations manager position descriptions attachments) and October 6, 1998 (with attachments); February 3, 1999; and April 23, 1999 (with attachments and enclosures, including wCs Work Instructions for CMDU2, dated April 9, 1999, WI99-1.2 and Attachment A to WI99-1.2); September 9, 1999 (with attachments), October 6, 1999 (with attachments, including wCs Work Instruction for the Commodore D/2 Unit, WI99-1.16) and October 7, 1999 (with attachments); and

procedure titled

"Processing Mixed Waste," Issue Date: 9/18/98, Rev. 1 (replaces Rev. 0);

procedure titled

"Receipt and Storage of Radioactive and Mixed Waste," Issue Date: 9/18/98, Rev.

1 (replaces Rev. 0);

procedure titled

"KO61 and Incident Related Material Stabilization Process," reference no.: OP-1.4.7,

Issue Date: 9/18/98, Rev. 1 (replaces Rev. 0); and

procedure titled

"Survey Sample Analysis and Activity Calculation," reference no.: RS-3.3.62, Issue Date: 6/23/98, Rev. 0.

•

Title 25 of the TAC Chapter 289 shall prevail over statements contained in the above documents, unless such statements are more restrictive than the regulations.

PS:tc

FOR THE TEXAS DEPARTMENT OF HEALTH

Date

October 8, 1999

Ruth E. McBurney, C.H.P., Director Division of Licensing, Registration, and Standards



## **Texas Department of Health**

William R. Archer III, M.D. Commissioner

1100 West 49th Street Austin, Texas 78756-3189 (512) 458-7111

Patti J. Patterson, M.D., M.P.H. **Executive Deputy Commissioner** 

Radiation Control (512) 834-6688 FAX (512) 834-6654

December 7, 1999

Waste Control Specialists, LLC Attn: David Kania 1710 West Broadway Andrews, Texas 79714

Ref: Compliance No. L991460

License No. L04971

Re: Inspection of November 16, 1999, by Eric Skotak at 30 miles West of Andrews, State Highway 176. Site No. 000.

Dear Mr. Kania:

The Bureau of Radiation Control has recently evaluated a written report of the compliance inspection referenced above. By this correspondence, we are pleased to inform you that your radiation safety program, as it pertains to current authorizations, adequate recordkeeping, and conformance to approved operating and safety procedures, appears to be in compliance.

If you have any questions, please contact me at (512) 834-6688, ext. 2009.

Sincerely,

Robert L. Green

Regional Health Physics Coordinator

Division of Compliance and Inspection-RAM

RLG/sd

COV (09/16/99)

## TEXAS DEPARTMENT OF HEALTH

Bureau of Radiation Control

Inspection Date 11/16/1999

INSPECTION REPORT

991460

(Use this form for inspections only)	Comp	oliance No. =>				
Name and Address of Licensee/Registrant		Lic/Reg No.:	L04971			
Waste Control Specialists, LLC		Site No.:	000			
Attn: David Kania		Expiration Date:	11/30/04			
1710 West Broadway		Inspection Region:	09			
Andrews, TX 79714		Category Code:	04 Industrial			
		Use Code:	079			
		Type of Use:	Waste Proc. III			
Address of Inspection		Type of Inspection				
30 miles west of Andrews, State Highwa	y 176	Annou	nced  Field			
			ounced			
Inspection Notice to (Name, Title, Address)		Radiation Safety Officer				
same as above		David Kania				
		RSO Phone No. 50	05-394-4300			
Copy of Inspection Notice to (Name, Title, Ac	ldress)	"Inspection Findings"	'were discussed with:			
	•	David Kania				
Telephone No.	Accompanying Inspe	ector(s)				
505-394-4300	None	0.01(0)				
303-374-4300	Tione					
Inspector: Eric Skotak	Reviewed	i by:				
Report Date: 12/3/1999	Date Rev	riewed: 12/6/99				

inspection Findings: Items of Noncompliance

RECEIVED TDH

No items of noncompliance were noted.

DEC 03 1999

BUREAU OF RADIATION CONTROL

## **Scope of Operations:**

Primary operations include the processing, and interim storage of radiaoactive and mixed waste, and disposal of exempt waste. Other operations include source leak testing, and pocket-dosimeter calibration.

### General Information:

David Kania (RSO), Steve Jacobs (Radiation Safety Supervisor), and Lydia Jacobs (Waste Tracking) were the primary contacts for this inspection.

## **Document Posting:**

Document posting was compliant with 25 TAC §289.203(b). The various records required by the license and TRCR were located in either the RSO's office, the Radiation Safety Supervisor's office, or the fireproof vault.

## RPP & ALARA Program:

The RPP annual audit was last performed in December 1998, and was reviewed during a previous inspection. The RPP was reviewed during a previous inspection.

## **Training Program:**

Training records were reviewed for the period since the previous inspection. Training provided during this period included Radiation safety tech. training, Rad. worker challenge test, 8 hour refresher, 40 hour Hazwoper, respirator physicals, respirator fit tests, bioassays, whole body counts, and other hazardous materials training.

### **Waste Volume Limits:**

The license sets limits on the volume of waste to be present in certain buildings at any given time. The limis are in units of ft<sup>3</sup>, and are: 262,440 ft<sup>3</sup> in the bin storage area, 36,750 ft<sup>3</sup> in the container storage building, and 3,675 ft<sup>3</sup> in the stabilization building. The November 2, 1999 inventory lists the following volumes: 32,459.56 ft<sup>3</sup> in the bin storage area, and 10,875.2 ft<sup>3</sup> in the container storage area. The volume of waste in the stabilization building was not listed.

The November 2, 1999 inventory supplied by the licensee, *Inventory Shipment & Processing Files*, is attached to this report.

## **Waste Activity Limits:**

A waste inventory is produced monthly. The most recent inventory was produced on November 2, 1999, and listed the following activities by waste category: Category I = 1.35 Ci; Category II = 0.0408 Ci; Category IV = 16,000 Ci.

The above inventory was well within the licensed limits. The inventory category with the greatest percentage of the authorized maximum activity was Category IV, 16,000 Ci, which was 8% of the 200,000 Ci authorized.

Special Nuclear Material is limited to quantities not to exceed that specified in 25 TAC §289.201(b). The licensee's inventory of November 2, 1999 listed the following: 0.0108 grams U-233 (limit = 200g), 163 grams of U-235 (limit = 350g), 1.22 grams of Pu (limit = 200g). The combination of these isotopes calculates to be 0.4719 (limit = 1.0).

## Incident Related Cs-137 Contaminated K061 Waste Processing and Disposal:

From the licensee's records, the activity received was 911.68 mCi, the activity returned to the generator was 371.9 mCi, the remaining activity was 539.77 mCi. Not all of the 539.77 mCi has been transferred for disposal. The activity authorized by TDH for disposal was 652.4 mCi.

TDH records agree with the licensee's records regarding activity authorized for transfer for disposal. TDH authorized 157.4 mCi on September 24, 1998, 220 mCi on December 28, 1998, and 275 mCi on August 19, 1999.

The 16 rolloffs of K061 waste containing Am-241 are still stored in the bin storage area. The licensee is preparing a sampling plan to determine the actual activity of Am-241 in the individual K061 containers, and then plans to request disposal of K061 in the containers for which the sample analysis results show no Am-241 is present (Letter dated August 19, 1999 from Hance, Scarborough, & Wright, Attorneys, to TNRCC).

WCS received four rail cars of K061 waste the morning of the inspection.

## **Exempt Source Material Disposal:**

The morning of the inspection, WCS received three rail cars of exempt source material from the U.S. Corps of Engineers, which contained DuPont FUSRAP steel. The licensee expects to receive a total of fourteen rail cars, upproximately 2000 tons, of the material. The receipt of this material was approved by TDH. The licensee performed a gamma survey of the external surfaces of the rail cars. I also performed a similar survey, with results not above background. The survey instrument used for my survey was the Ludlum 12S, serial # 67663. See page 7 for two photos of the rail cars.

## **Exempt NORM Disposal:**

At the time of the inspection, the licensee had received twenty-six containers of exempt NORM from the Freeport McMoRan sulphur mine near Pecos. The receipt of this material was approved by TDH. The NORM is fixed inside pipe used in the mining process. Personnel and equipment for the analysis of the NORM was provided by Canberra. Of the containers received, the maximum concentration measured by Canberra was 27 pCi/gram. Copies of the analysis results are attached.

#### **Monitoring Program:**

Daily surveys are performed at vent hoods #1, #2, and #3, and at the receiving lab, prep lab, BTU lab, and lunch room. Weekly gamma surveys and wipe samples are performed in the administrative offices, lunch room, chemistry lab, radiation counting room, chemical 90-day storage, construction trailer, ladies personal building, mens locker, P.C. storage, change-out room, container storage area, bin storage area, and the stabilization building. Monthly surveys were performed on the on-site vehicles and equipment. Ludlum models 19 and 3 were used for these surveys. Of the documents reviewed, the survey instruments had been calibrated within the appropriate interval, and the survey results were under applicable limits.

Permacon drum release surveys are required prior to drum removal from the Permacon. Permacon end-of-shift surveys are also required. Of the records reviewed, the Models 19 and 3 used for these surveys were calibrated within the appropriate interval, and the survey results were under applicable limits.

Incoming and outgoing shipment surveys are required. The shipments are by rail or truck. Of the records reviewed, the Models 19 and 3 used for these surveys were calibrated within the appropriate interval, and the survey results were under applicable limits.

## **Instrument Calibration:**

The licensee's procedures state instruments and equipment used for quantitative radiation measurement will be calibrated at intervals not to exceed 12 months. Procedures also state specifically that air sampling equipment, and pocket ionization chambers will be calibrated at intervals not to exceed 12 months. A calibration history follows:

Manufacturer	Model #	Serial #	Calibration Dates
Alpha	6A1	574	8/25/99
Alpha	6A1	561	1/7/99
ELF #2			6/15/99
ELF #3			6/17/99
ELF #4		**	6/16/99
ELF #6			6/15/99
Ludlum	333-2 CAM	149346	7/26/99, 11/23/98
Ludlum	333-2 CAM	149349	6/16/99, 1/6/99
Ludlum	333-2 CAM	132877	6/1/99, 2/1/99
Ludlum	333-2 CAM	149347	1/11/99
Aptec	PMW-2	9804-014	12/15/98
Eberline	R020	2566	8/29/99, 2/2/99
Eberline	R020	2454	10/12/99, 4/27/99
Ludlum (portal)	L-52		daily operational checks
Ludlum	19	148175	7/29/99, 4/2/99, 10/22/98
Ludlum	19	148146	9/22/99, 4/27/99, 10/22/98
Ludlum	19	144743	2/2/99
Ludlum	19	141417	3/15/99
Ludlum	19	148177	10/22/98
Ludlum	19	151683	3/17/99
Ludlum	77-3	143251	5/7/99
Ludlum	77-3	143253	11/30/99
Ludlum	16	143002	4/12/99
Ludlum	14C	144734	4/27/99
Ludlum	14C	144725	10/15/99, 11/5/98
Ludlum	2929	147746	6/23/99
udlum	2929	143873	7/13/99, 12/23/98
Ludlum	3500-3000	150006	5/28/99
Ludlum	3	143753	7/29/99, 11/2/98
Ludlum	3	144372	4/12/99, 10/15/98
Ludlum	3	151380	8/22/99, 4/2/99
Ludlum	3	144286	2/2/99
Ludlum	3	144197	8/29/99, 3/15/99
Ludlum	3	144222	9/22/99, 4/2/99
Ludlum	3	146210	9/29/99, 3/15/99
Ludlum	3	151451	9/22/99, 4/2/99
Ludlum	3	154464	7/30/99, 2/2/99
Ludlum	3	151785	7/30/99, 2/3/99
Ludlum	3	143737	10/15/99, 4/12/99
Ludlum	$\frac{3}{3}$	144457	11/2/99
Ludlum	3	143432	9/22/99, 7/29/99
Ludlum	3	143732	9/22/99, 4/27/99
Ludlum	$\frac{3}{3}$	151778	2/3/99
Sierra	Mass Flow	31574	11/24/98
HiQ	HD-29A	5527	4/22/99
1110	1110-471	3321	71 441 77

Manufacturer	Model #	Serial #	Calibration Dates
HiQ	AFC-5 Digital	6940	5/13/99
HiQ	AVS-28A	5860	4/22/99, 12/15/98
HiQ	AVS-28A	6874	6/22/99
HiQ	AVS-28A	6875	6/22/99
HiQ	AVS-28A	6876	6/22/99
HiQ	AVS-28A	6877	6/22/99
HiQ	AVS-28A	6878	6/23/99
HiQ	AVS-28A	6879	6/22/99
HiQ	AVS-28A	6924	4/13/99
HiQ	AVS-28A	6925	4/13/99
HiQ	RV23-0523	7229	4/13/99
HiQ	RV23-0523	7228	4/13/99
HiQ	RV23-0523	6920	4/13/99
HiQ	VS230523CV	7448	4/13/99
HiQ	MVR-0523CV	7450	4/13/99
HiQ	VS23-0523CV	7449	4/13/99
HiQ	VS23-0523CV	7447	4/13/99
HiQ	H809V1	8238	4/22/99
HiQ	H809V1	8238	2/11/99
Bicron	MicroRem	C112A	5/11/99
EG&G Ortec	GV1	Unit1	2/1999
EG&G Ortec	GV1	Unit2	2/19/99
Gamma Products	G5000		6/14/99
Ludlum	2350-1	142503	1/6/99
Ludlum	2200	138675	2/3/99
Ludlum	3-97EP	149353	1/7/99
Ludlum	3	121545	4/12/99
Ludlum	3	143737	11/7/97
Ludlum	3	143753	11/7/97
Ludlum	177	150470	9/17/99, 4/23/99
Ludlum	177	150472	7/30/99, 2/3/99
_udlum	177	140820	5/12/99
Ludlum	177	140764	5/12/99

## Source Inventory & Leak Testing:

No new sources were received since the previous inspection. The latest source inventory was performed on March 4, 1999. An inventory of sealed sources is not required by the license. The license authorizes calibration reference sources only, with a maximum allowed calibration reference source activity of 50  $\mu$ Ci. A copy of the inventory is attached.

The sources are not required to be leak tested due to their low activity, but the licensee leak tests the sealed sources quarterly. A copy of the most recent leak test, performed on July 1, 1999, is attached.

### **Personnel Monitoring:**

The licensee does not maintain a 21-2 record for individuals. The licensee does summarize individual dose on a 21-3 equivalent form. The dosimeter supplier is R.S. Landauer which provides quarterly TLD's. Pocket dosimeters are also supplied to individuals by the licensee. The licensee is authorized to calibrate the pocket dosimeters.

The licensee does hire individuals under the age of 18, but assignes duties such that they will not receive an occupational dose. These minors are monitored with whole body dosimeters.

The maximum whole body dose (DDE) for the first quarter 1999 was 40 mRem. The maximum DDE for the second quarter 1999 was 9 mRem.

Control dosimeters are in the guard shack at the truck entry gate, and in the administration building.

Dose summaries are provided to individuals when requested, at the end of each year, and upon termination of employment.

#### **Incidents:**

There were no incidents reported since the previous inspection.

There was an instance of receipt of a leaking drum of waste, and later, discovery of other leaking drums. These drums of waste were part of a shipment of 60 drums WCS received from NSSI for interim storage which contained mercury, with low concentrations of Thorium. The contamination was reported to TDH and to TNRCC. Records of he clean-up of the two instances of contamination were reviewed. The very low levels of radioactive contamination did not require a report to TDH. The licensee has notified TDH the 60 drums are being returned to NSSI. The fact that there was a leaking drum of waste at the time of receipt appears to be a violation, by NSSI, of U.S.D.O.T. rules. NSSI will be contacted regarding the drum that was leaking during transport. See page 7 for pictures of the drums of waste received from NSSI.

## **Previous Inspection:**

No violations were issued for the previous inspection of 5/11/1999.

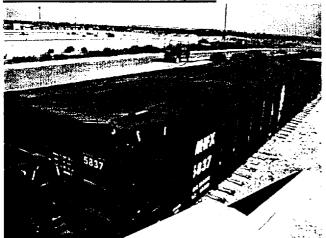
## Survey:

Various areas of the facility was surveyed with a TDH Ludlum Model 12, serial #67663. The maximum external gamma survey results were 400  $\mu$ R/hr. in the container storage area, and 100  $\mu$ R/hr. in the Permacon. The licensee posts current survey results at the entrance to radiation areas in the bin storage area and in the container storage area. ee page 7 for a picture of one of these postings.

### **Summary:**

The exit summary was conducted with David Kania, at which time he was told it appeared there were no items of noncompliance.





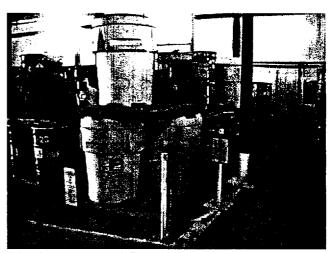
One of the rail cars of U.S. Corps of Engineer's, DuPont FUSRAP waste, exempt source material



The two other rail cars of FUSRAP exempt source material.



The 60 drums from NSSI are in the three rows of drums pictured here.



The 4 overpacked (leaking or potentially leaking) drums from NSSI are in the larger yellow drums.



The current survey results and caution posting to the entrance of a radiation area.

# Inventory Shipment & Processing Files

		Grou	ıp I Gro	up II	Group III	Group IV
mCi Totals:	1.60E+07	1.35	E+02 4.0	08E+01	1.38E+03	1.60E+07
mCi Allowed:		2.00	E+05 2.0	00E+06	2.00E+07	2.00E+08
% mCi Used:	8.07%	c	0.07%	0.00%	0.01%	8.00%
Total Cubic Feet	Total Volume Cu Ft	Storage Lo	cation			
By Location  Note CuFt Limits:	32459.56	BSA				
BSA=262,440;	10875.20	CSB				
CSB=36,750; Stab Bldg=3,675;	11199.66	TRACK				
	Grand Total	Cu Ft:	54	534.42		
	CuFt Auth Fed A	Igency:				
	Cu Ft K061 o	n Site:	392	52.66		
	Commercial Cu Ft Al	llowed:	363	344.00		
	Commercial Cu Ft Ava	iilable:	210	062.24		
	K061 Cu Ft Ava	iilable:	190	67.34		
Inventory SNM	Site Id	<i>U-233</i>	U-235	Pu		TotSNM
	DOE Mound	0.00E+00	3.17E+01	3.71E	E-02	3.18E+01
	Entergy	0.00E+00	0.00E+00	5.55E	E-09	5.55E-09
	Gould OH	0.00E+00	4.24E+01	0.00E	+00	4.24E+01
	Los Alamos	0.00E+00	1.30E+01	2.76E	-05	1.30E+01
	Los Alamos	0.00E+00	6.57E+00	2.16E	E-03	6.57E+00
	MMT	0.00E+00	4.18E-02	1.32E	-06	4.18E-02
	NSSI	0.00E+00	0. <b>00E+</b> 00	3.24E	E-06	3.24E-06
	USDOE ETTP	0.00E+00	9.49E-01	1.30E	-04	9.49E-01
	USDOE ETTP	0.00E+00	7.92E-01	5.57E	-02	8.47E-01
	USDOE PGDP	0.00E+00	0.00E+00	1.13E	+00	1.13E+00
	Westinghou	1.08E-02	6.78E+01	1.51E	-05	6.78E+01
•	Grand Totals SNM g	1.08E-02	1.63E+02	1.22E	+00	1.65E+02
	Allowed g	200	350	ł	200	
	Percent of Amount %	0.01%	46.65%	0.61	%	47.27%
						Sum of

Fractions

## PRELIMINARY ACTIVITY COUNTS

Count time is approximately 60 minutes per box. 4 counts per box at 15 minutes each.

15% added to readings as a radon "exhalation" factor

Each box contains approximately 16 joints of pipe, or approximately 8 cubic yards of material per box.

			•	-					•
							Total	Total	Shipping
1		Box	ross Wt	Tare Wt.	Net Wt.	Net Wt.	Activity	Activity	Manifest
L	<u>Date</u>	Number	LBS	LBS	LBS	Grams	Curies/Box	pCi/gram	Number
R	11/7/99	274150	21,540	6,700	14,840	6,737,360	0.000104	15.500	2053685
R	11/8/99	274049	22,000	6,700	15,300	6,946,200	0.000066	9.520	2053686
R	11/9/99	274087	23,640	6,100	17,540	7,963,160	0.000105	13.180	2053687
R	11/10/99	274169	23,260	6,100	17,160	7,790,640	0.000065	8.325	2053688
R	11/10/99	274232	23,000	6,100	16,900	7,672,600	0.000163	21.300	2053689
R	11/10/99	274327	20,420	6,100	14,320	6,501,280	0.000037	5.630	2053690
R	11/14/99	B1083	22,640	6,100	16,540	7,509,160	0.000107	14.310	2053691

Chris.

Please review the attached documents and confirm that this shipment is OK to ship. We will ship these seven boxes Tuesday Afternoon (Nov. 16,1999).

Bill Jaco

**Chief Chemist** 

Freeport McMoRan Sulphur, LLC.

## PRELIMINARY ACTIVITY COUNTS

Count time is approximately 60 minutes per box. 4 counts per box at 15 minutes each.

15% added to readings as a radon "exhalation" factor

Each box contains approximately 16 joints of pipe, or approximately 8 cubic yards of material per box.

	श्रम	22	*	•					-
							Total	Total	Shipping
	·	Box	ross Wt	Tare Wt.	Net Wt.	Net Wt.	Activity	Activity	Manifest
	Date	Number	LBS	LBS	LBS	Grams	Curies/Box	pCi/gram	Number
R	11/6/99	274132	23,540	6,700	16,840	7,645,360	0.000081	10.570	2053680
R	11/7/99	274302	22,160	6,700	15,460	7,018,840	0.000105	15.030	2053681
R	11/11/99	25502	21,520	6,100	15,420	7,000,680	0.000043	6.210	2053682
R	11/11/99	274085	20,540	6,100	14,440	6,555,760	0.000040	6.080	2053683
R	11/13/99	274309	22,340	6,100	16,240	7,372,960	0.000147	19.900	2053684

Chris,

Please review the attached documents and confirm that this shipment is OK to ship. We will ship these five boxes Tuesday morning (Nov. 16,1999).

Bill Jaco Chief Chemist

Freeport McMoRan Sulphur, LLC.

## PRELIMINARY ACTIVITY COUNTS

Count time is approximately 60 minutes per box. 4 counts per box at 15 minutes each.

15% added to readings as a radon "exhalation" factor

Each box contains approximately 16 joints of pipe, or approximately 8 cubic yards of material per box.

							Total	Total	Shipping
1		Вох	ross Wt	Tare Wt.	Net Wt.	Net Wt.	Activity	Activity	Manifest
	Date	Number	LBS	LBS	LBS	Grams	Curies/Box	pCi/gram	<u>Number</u>
•	11/6/99	25S05	20,340	6,100	14,240	6,464,960	0.000051	7.950	2053673
•	11/6/99	20539	21,470	6,100	15,370	6,977,980	0.000093	13.380	2053665
•	11/6/99	274173	22,700	6,700	16,000	7,264,000	0.000074	10.250	2053669
	11/6/99	20S40	20,600	6,100	14,500	6,583,000	0.000095	14.410	2053667
	11/9/99	274229	24,430	6,700	17,730	8,049,420	0.000145	18.050	2053675

#### Chris,

Please review the attached documents and confirm that this includes all of the information that you require. Please confirm to me by phone at 915-445-0239 after your review.

These documents complete the shipment to your facility on Wednesday.

Bill Jaco

**Chief Chemist** 

Freeport McMoRan Sulphur, LLC.

10:40

## PRELIMINARY ACTIVITY COUNTS

Count time is approximately 60 minutes per box. 4 counts per box at 15 minutes each.

15% added to readings as a radon "exhalation" factor

Each box contains 16 joints of pipe, or approximately 8 cubic yards of material per box.

							Total	Total
		Box	Gross Wt. LB <u>S</u>	Tare Wt. L <u>BS</u>	Net Wt.	Net Wt. Grams	Activity Curies/Box	Activity pCi/gram
_	<u>Date</u>	Number	20,340	6,100	14,240	5,464,960	0.000086	13.344
<u> </u>	11/6/99	25\$05		6,100	15,370	6,977,980	0.000163	23.409
	11/6/99	20839	21,470		14,550	6,605,700	0.000115	17.366
	11/6/99	274042	21,250	6,700	16,000	7,264,000	0.000129	17.733
	11/6/99	274173	22,700	6,700	+	6,583,000	0.000165	25.050
	11/6/99	20540	20,600	6,100	14,500	6,819,080	0,000170	24.875
	11/7/99	274328	21,720	6,700	15,020		0.000182	27.000
	11/7/99	274150	21,540	6,700	14,840	6,737,360	0.000179	23.550
	11/7/99	20\$35	22,880	6,100	16,780	7,618,120		26.300
	11/7/99	274302	22,160	6,700	15.460	7,018,840	0.000185	20.300

Isotope	<u>Manu</u>	Serial #	3/4/99 <u>Date</u> <u>OF CAL</u>	Time Years	<u>Half Life</u>	Original Activity micro ci	Present Activity micro ci	<u>DPM</u>
				Individuals				
CS-137	Source	97CS5002678	9/17/97	1.46E+00	3.02E+01	9.80E-01	9.48E-01	2.10E+06
PU-239	Source	98PU4700988	3/19/98	9.59E-01	2.41E+04	1.67E-02	1.67E-02	3.71E+04
TC-99	Source	98TC4700989	3/19/98	9.59E-01	2.13E+05	1.40E-02	1.40E-02	3.10E+04
CO-60	Source	98CO5000990	3/24/98	9.45E-01	5.27E+00	5.00E-02	4.42E-02	9.80E+04
PB-210	Techniques	PB-210 #1	4/1/98	9.23E-01	2.23E+01	1.00E-01	9.72E-02	2.16E+05
PU-239	ISOTOPE	564-11-2	6/15/98	7.18E-01	2.41E+04	6.77E-03	6.77E-03	1.50E+04
CS-137	ISOTOPE	564-15-2	6/15/98	7.18E-01	3.02E+01	8.53E-03	8.39E-03	1.86E+04
CS-137	Techniques	CS 1	5/1/98	8.41E-01	3.02E+01	5.00E+00	4.90E+00	1.09E+07
CS-137	Techniques	CS 2	5/1/98	8.41E-01	3.02E+01	5.00E+00	4.90E+00	1.09E+07
CS-137	Techniques	CS 3	5/1/98	8.41E-01	3.02E+01	5.00E+00	4.90E+00	1.09E+07
THORIUM	LANTERN	CAM TH	NA	NA	NA	NA	NA	NA
THORIUM	LANTERN	PMW2E	NΑ	NA	NA	NA	NA	NA
PB-210	Source	8722	9/23/98	4.44E-01	2.23E+01	9.00E-03	8.88E-03	1.97E+04
SR-90	Source	98SR2504003	9/23/98	4.44E-01	2.85E+01	5.00E-01	4.95E-01	1.10E+06
				500 ml a sil				
AAA 0.44	Amplistian	55951-481	4/1/98	<b>500 ml soil</b> 9.23E-01	4.32E+02	1.32E-01	1.32E-01	2.93E+05
AM-241 CD-109	Analytics Analytics	55951-481	4/1/98	9.23E-01	1.27E+00	1.80E+00	1.09E+00	2.41E+06
CD-109 C0-57	Analytics	55951 <del>-4</del> 61 55951-481	4/1/98	9.23E-01	7.45E-01	4.10E-02	1.74E-02	3.85E+04
CE-139	Analytics	55951-481	4/1/98	9.23E-01	3.77E-01	6.50E-02	1.19E-02	2.64E+04
HG-203	Analytics	55951-481	4/1/98	9.23E-01	1.28E-01	1.25E-01	8.32E-04	1.85E+03
SN-113	Analytics	55951-481	4/1/98	9.23E-01	3.15E-01	1.05E-01	1.38E-02	3.06E+04
CS-137	Analytics	55951-481	4/1/98	9.23E-01	3.02E+01	5.50E-02	5.38E-02	1.20E+05
Y-88	Analytics	55951-481	4/1/98	9.23E-01	2.92E-01	1.83E-01	2.05E-02	4.55E+04
CO-60	Analytics	55951-481	4/1/98	9.23E-01	5.27E+00	8.60E-02	7.62E-02	1.69E+05
00-00	Allalytics	00001-401	47 1700	0.202 01	J , J.	*****		
				1Liter Water				
AM-241	Analytics	55616-11	4/1/98	9.23E-01	4.32E+02	1.06E-01	1.06E-01	2.35E+05
CD-109	Analytics	55616-11	4/1/98	9.23E-01	1.27E+00	1.50E+00	9.02E-01	2.00E+06
C0-57	Analytics	55616-11	4/1/98	9.23E-01	7.45E-01	3.90E-02	1.65E-02	3.67E+04
CE-139	Analytics	55616-11	4/1/98	9.23E-01	3.77E-01	5.40E-02	9.90E-03	2.20E+04
HG-203	Analytics	55616-11	4/1/98	9.23E-01	1.28E-01	1.03E-01	1.89E-02	4.19E+04
SN-113	Analytics	55616-11	4/1/98	9.23E-01	3.15E-01	8.70E-02	5.79E-04	1.29E+03
CS-137	Analytics	55616-11	4/1/98	9.23E-01	3.02E+01	4.60E-02	6.05E-03	1.34E+04
Y-88	Analytics	55616-11	4/1/98	9.23E-01	2.92E-01	1.52E-01	1.49E-01	3.30E+05
CO-60	Analytics	55616-11	4/1/98	9.23E-01	5.27E+00	7.10E-02	7.94E-03	1.76E+04

Remarks:

Signature of Individual physically Verifying Source:

Date Form Created: 5/31/98

## WCS Source Inventory Sheet

				A/S Disk				
CD-109	Analytics	55850-481	4/1/98	9.23E-01	1.27E+00	5.46E-02	3.29E-02	7.31E+04
C0-57	Analytics	55850-481	4/1/98	9.23E-01	7.45E-01	2.98E-02	1.26E-02	2.80E+04
CE-139	Analytics	55850-481	4/1/98	9.23E-01	3.77E-01	4.35E-02	7.98E-03	1.77E+04
HG-203	Analytics	55850-481	4/1/98	9.23E-01	1.28E-01	8.51E-02	5.66E-04	1.26E+03
SN-113	Analytics	55850-481	4/1/98	9.23E-01	3.15E-01	5.71E-02	7.50E-03	1.67E+04
CS-137	Analytics	55850-481	4/1/98	9.23E-01	3.02E+01	3.93E-02	3.84E-02	8.54E+04
Y-88	Analytics	55850-481	4/1/98	9.23E-01	2.92E-01	1.45E-01	1.62E-02	3.59E+04
CO-60	Analytics	55850-481	4/1/98	9.23E-01	5.27E+00	7.15E-02	6.33E-02	1.41E+05

Remarks:	
Signature of Individual physically Verifying Source:	
Date Form Created: 5/31/98	

# Radiological Survey Report Form 3.1.5-1

Survey Number 2 PB			umbe	52 PB	Date 7   99	Time 1410		Instruments Used  Model 6-5000 / / /			
-	RWI		010		Reason:	Surveyor: Steven Andre	Location	S/N	019802	N	N/N/
		U		1/100 CM <sup>2</sup> OTHERWISE	Routine / QUARTERLY	Stellen Chans	Gent Rm.	Cal Due Bkg	9399 .1 × 11.45B	_/A_	/A /A
٠			N	IOTED	Postings:	<del></del>	1100	<u> </u>			
	#	α	β/γ	NOTES	<u> 10 #</u>	IJOTOPE					
	1.	Ø	3.5	Source	564-11-2	PU-239					
Ī	2.	Ø	Ø		PMWJE B	TH- 232					
	3.	Ø.	17.7		55951 - 481		MIXED	Υ	_		
- [	4.	Ø	7.1		8122	Pb-210	·				
		3.51	111		08-98-2939	Cs-137			_l		
		7.0	10.6		1	Pb-210					
		7.0	7.1		55856 - 481	MIXED Y	·				
	8.	Ø	3.5		97655002618	Cs-137					
	9.	Ø	10.6		54-985R2504DV3	54-90					
	10.	7.0	42.5	7'		CS-137			]		
	11.		21.3		2 and 3	CS-137		····			
	12.	Ø_	7.1		98005000990	Co-60			4		
-	13.	Ø	10.6		98 PU 470 0988	Pu-239	<del> </del>				
1	14.	à	7.1	<b>J</b>	98TC4700989	TC-99					
- 1	15. 16.	Ø	7.1	<u> </u>	FRONT CAM 564-15-2	TH-232 C5-137					
		Ø	3.5	30014	1564-15 2	20 101			<del></del>		
	17. 18.	<del> </del>	<del> </del>	<del> /-</del>	1						
•	19.		<del> </del>	/	1						
	20.		<del> </del>		7						
15 17	$\frac{20.}{21.}$		<del> </del>	N.							
* * .	22.		<b> </b>	/ A							
Y	23.		1/		1						
* *	24.	<del>                                     </del>	1		1						
	25.	1	<del>                                     </del>								
		nt Rm	Tech:		Air Sample Reference	Remarks:		· · · · · · · · · · · · · · · · · · ·			
7.3. 2.3	Rev	iewed	By: C	1. 10 m	Number: NA	NITT				1	
16				typonforke.		10/11				· · · · · · · · · · · · · · · · · · ·	

## **Steadfast Insurance Company**

Dover, Delaware

Administrative Offices - 1400 American Lane, Schaumburg, Illinois 60916-1056

## Decontamination & Decommissioning Insurance Policy

## **DECLARATIONS**

Policy Number:

PLC 2887558 00

Item 1. Insured:

Waste Control Specialists, LLC

Address:

P.O. Box 1994

Pasadena, TX 50358

Item 2. Policy Period:

From: January 28, 1998 12:01 A.M., Standard Time at the address shown in Item 1 of these

Declarations,

To: January 28, 1999 12:01 A.M., Standard Time at the address shown in Item 1 of these

Declarations, subject to extension by endorsement, upon payment of additional premium.

Item 3. Covered Facility(ies): The coverage afforded under this Policy shall apply only to the following Facility(ies):

A copy of the complete and current filed Decommissioning Plan(s) for the Facility(ies) must be attached to this Policy.

Facility(ies):

As Specified in Texas Department of Health Radioactive Material License # L04971

Item 4. Limit of Liability:

Facility(ies):

\$ 5,462,813

Total Policy Aggregate:

\$5,462,813

Item 5: Policy Premium:

\$193,190 Deposit (Adjustable)

Broker:

WEATHERBY-EISENRICH AGENCY

211 WEST BROADWAY ANDREWS. TEXAS 79714

COUNTERSIGNED this 16th day of June 1998 by

RADDEC2.doc 06/16/98 Page 1 of 1

## STEADFAST INSURANCE COMPANY

## Dover, Delaware Administrative Offices - 1400 American Lane Schaumburg, Illinois 60196-1056

# DECONTAMINATION AND DECOMMISSIONING INSURANCE POLICY

This Policy has certain provisions and requirements unique to it and may be different from other policies an Insured may be insured under. Words in bold print have special meaning — Please refer to Section II. Definitions. Please read the policy carefully.

In consideration of payment of the premium as agreed and in reliance upon the statements in the Application and Declarations and subject to the Limits of Liability, Exclusions, Conditions and other terms of this Policy, Steadfast Insurance Company ("Company") agrees with the NAMED INSURED designated in the Declarations made a part hereof:

#### I. INSURING AGREEMENT

To pay on behalf of the NAMED INSURED for DECONTAMINATION AND DECOMMISSIONING COSTS for the FACILITY designated in the Declarations but only upon receipt by the Company of written determination by the REGULATORY BODY that the NAMED INSURED has DEFAULTED.

### II. DEFINITIONS

- A. BODILY INJURY means physical injury, sickness or disease, mental anguish or emotional distress when accompanied by physical injury, sustained by any person, including death resulting therefrom.
- B. CLAIM means a written demand received by a NAMED INSURED seeking a remedy and alleging liability or responsibility on the part of a NAMED INSURED.

- C. CLEAN-UP COSTS means expenses incurred in the removal or remediation of contaminants, irritants, or pollutants arising from a POLLUTION EVENT.
- D. DECONTAMINATION AND DECOMMISSIONING COSTS mean costs expended to implement the DECONTAMINATION AND DECOMMISSIONING PLAN, but only up to the limit of liability shown in the Declarations
- E. DECOMMISSIONING PLAN means the written decontamination and decommissioning plan attached to the Policy as Appendix A and made a part hereof, provided that such plan is filed, prepared, and documented in compliance with the law.
- F. DEFAULTED means the existence and declaration by the REGULATORY BODY of the NAMED INSURED'S abandonment and/or closure of the FACILITY

without having satisfactorily decommissioned, decontaminated, reclaimed, restored and/or disposed of radioactive material and/or performed any other requirements imposed by the REGULATORY BODY pertaining to the decommissioning of the FACILITY, and/or has failed to comply with an order issued by the REGULATORY BODY pertaining to the aforementioned items.

- G. FACILITY means the location specified in the Texas Department of Health Radioactive Material License No. L04971 and stated in the Declarations.
- H. NAMED INSURED means the person or organization named in the Declarations.
- I. POLLUTION EVENT means the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkalis, chemicals, liquids, gases, waste materials or any other irritants, contaminants or pollutants.
- J. PROPERTY DAMAGE means (a) physical injury to, or destruction of tangible property, including loss of use, profits or investments or diminution in value of property at any time resulting from the physical injury or destruction; or (b) the loss of use of tangible property which has not been physically injured or destroyed; or (c) any injury to, impairment of, or destruction of any intangible property or rights of any nature, whether related to tangible property or not.
- K. REGULATORY BODY means the "Texas Department of Health" or the "Texas Radiation Control Agency"

as specified in Section 401.001 of the Texas Health and Safety Code. The "Texas Department of Health" shall be designated as a beneficiary under this Policy.

#### III. EXCLUSIONS

This Policy does not apply to:

- A. CLEAN-UP COSTS incurred outside of the legal boundaries of the FACILITY unless incurred as part of the decommissioning of the FACILITY.
- B. CLEAN-UP COSTS incurred within the legal boundaries of the FACILITY unless incurred as part of the decommissioning of the FACILITY.
- C. **BODILY INJURY or PROPERTY DAMAGE**:
- D. any criminal or civil penalties including claims for damages to natural resources;
- E. any legal fees or expenses including expert or consultant fees incurred in the defense of the NAMED INSURED for any reason arising out of the DECONTAMINATION AND DECOMMISSIONING of the FACILITY;

## IV. LIMIT(S) OF LIABILITY

A. The limit(s) of liability stated in the Declarations is the most that the Company will pay for Decontamination and Decommissioning Costs under this Policy.

In the event of cancellation of the Policy for non-payment of premium, the limits of liability shall be subject to the conditions outlined in Section V., paragraph G of this policy. In no event shall the Company pay more than the Limit of Liability stated in the Declarations.

#### V. CONDITIONS

- A. PREMIUM: The full policy premium for coverage hereunder shall be payable in accordance with the schedule set forth in Item 5A of the Declarations. It is a condition precedent of coverage under this policy that the full amount of each premium installment be actually received by the Company in accordance with said schedule for coverage to be, or continue to be, effective.
- INSPECTION AND AUDIT: The B. Company or its designee shall be permitted but not obligated to inspect the NAMED INSURED'S **FACILITY** at any time. Neither the Company's right to make inspections nor the making thereof nor any report thereon shall constitute an undertaking, on behalf of or for the benefit of the NAMED INSURED or others, to determine or warrant that such property or operations are safe or healthful or are in compliance with any law, rule or regulation. The Company or its designee may examine and audit the NAMED INSURED'S books and records at any time during the Policy Period and extensions thereof as far as they relate to the subject matter of this insurance for which coverage is provided whether or not this policy has expired at the time.

- C. ACTION AGAINST COMPANY:
  No action shall lie against the
  Company unless, as a condition
  precedent thereto, the NAMED
  INSURED shall have fully complied
  with all the terms and conditions
  hereof, including payment of
  premium installments as set forth in
  Conditions, Section V., paragraph A;
  but in no event shall action lie
  against the Company by any party
  not a party to this contract.
- D. ASSIGNMENT: This Policy may not be assigned to a successor owner or operator of any FACILITY without the consent of the Company, which shall not be unreasonably withheld provided the Company shall have received 60 days prior written notice of such intent to assign.
- E. REGULATORY PROVISIONS:
  Any term or condition of this policy
  to which any federal or state
  administrative or regulatory
  provisions apply shall be governed
  only by those regulations or
  provisions in effect at the inception
  date of this policy.
- NON-AND F. CANCELLATION RENEWAL: The Company shall not cancel, terminate, or fail to renew the coverage(s) provided herein except for failure to pay the full premium when due, or as a result of fraud or misrepresentation on the part of the NAMED INSURED or its agents in the procurement of this policy or any endorsements. subsequent amendments or modifications thereto. shall notify The Company NAMED INSURED of its intent to cancel, terminate or non-renew by

sending, by certified mail, to the NAMED INSURED at the address shown in this policy and to the REGULATORY BODY, written notice stating the date (not less than 90 days thereafter) that cancellation shall be effective allowing time for receipt of notice on which such cancellation shall be effective. In the event that the Company fails to provide sufficient notice of non-renewal, the policy will automatically renew for a period of one year.

This policy may be canceled by the NAMED INSURED pursuant to applicable statute, by mailing to the Company written notice stating the date (not less than 90 days thereafter) that cancellation shall be effective. In order to be binding, notice to the of the NAMED Company INSURED'S intent to cancel or nonrenew this policy must contain documentation that a replacement instrument has been provided to and accepted by the REGULATORY AUTHORITY.

In the event of (i) cancellation or non-renewal by the NAMED INSURED or (ii) cancellation by the Company for nonpayment of premium, the full Policy Premium shown in Item 5 of the Declarations or any partial premium payments made to date shall be deemed earned and the unpaid portion thereof shall be immediately due and payable.

In the event of cancellation or non-renewal, the NAMED INSURED must submit replacement coverage to the REGULATORY BODY within thirty (30) days of receiving notice of cancellation or non-renewal. If the NAMED INSURED fails to submit

replacement coverage as required to the REGULATORY BODY within thirty (30) days after receipt of notice of cancellation, the Company upon written notification by the REGULATORY BODY shall pay the full face amount as designated as the Limit of Liability on the Declarations of the Policy to the REGULATORY BODY. NAMED INSURED agrees to reimburse the Company immediately upon demand for any amount paid by the Company to REGULATORY BODY in lieu of and replacement coverage NAMED INSURED further agrees to indemnify the Company for any loss, cost or expense, including any attorney fees, incurred or sustained as a result of such advancement of funds to the REGULATORY BODY.

of the effective date Upon NAMED cancellation bv the INSURED any and all obligations on the part of the Company hereunder shall automatically cease and the NAMED INSURED shall have no further recourse against the Company with respect to unpaid **DECONTAMINATION** AND **DECOMMISSIONING COSTS** or any other loss, costs or expenses whatsoever.

- G. INSURED'S DUTIES IN THE EVENT OF DECOMMISSIONING:
  - 1. The NAMED INSURED shall provide the Company with a duplicate of any notice it is required by law to give to the REGULATORY BODY regarding the event of

# DECONTAMINATION AND DECOMMISSIONING.

2. In the event that **DECONTAMINATION AND DECOMMISSIONING** results from the assertion of a **CLAIM** by a third party including any REGULATORY BODY. the NAMED **INSURED** shall immediately forward to the Company any demand or notice regarding the **DECONTAMINATION** AND DECOMMISSIONING received by the NAMED INSURED their or representative.

The NAMED INSURED shall cooperate with the Company and, upon the Company's request, assist in obtaining information relative to any DECONTAMINATION AND DECOMMISSIONING.

3. Any notices required by these conditions shall be sent to:

Environmental Counsel Zurich American Specialties 1 Liberty Plaza, 53<sup>rd</sup> Fl. New York, New York 10006

### AND

Manager-Environmental Claims Zurich Insurance Company Environmental Claims Office 1400 American Lane Schaumburg, Illinois 60196

H. APPLICATION AND DECLARATIONS: By acceptance of this policy, the NAMED INSURED agrees that the statements

- in the application and Declarations are their agreements and representations and that they form a part of this policy, that this policy is issued in reliance upon the truth of such representations and that this policy embodies all agreements existing between the NAMED INSURED and the Company or any of its agents, relating to this insurance.
- T. CONCEALMENT, FRAUD: In the event that, either before or after claim for DECONTAMINATION AND **DECOMMISSIONING** COSTS is first made, the NAMED INSURED has willfully concealed or misrepresented any fact, whether material or not, or circumstance concerning this insurance or the subject of it, including any claim for loss, or the interest of the NAMED **INSURED** in it or in any case of any fraud or false swearing by the NAMED INSURED relating to this insurance or its subject, then the NAMED INSURED shall indemnify the Company in full for any and all loss, damage or expense which the Company sustains or will sustain by reason of such actions by the NAMED INSURED. concealment willful or misrepresentation may, at the sole discretion of the Company, void the policy.
- J. CHANGES: Notices to any agent or broker or knowledge possessed by any agent, broker or by any other person shall not effect a waiver or a change in any part of this policy or stop the Company from asserting any right under the terms of the policy; nor shall the terms of this policy be waived or changed nor shall any

- privilege or permission affecting the insurance under this policy exist or be claimed by the NAMED INSURED, except by endorsement signed by both the NAMED INSURED and the Company issued to form part of this policy.
- K. SUBROGATION: In the event of any payment under this policy, the Company shall be subrogated to all the NAMED INSURED'S rights of recovery against any person organization and the **NAMED** INSURED shall execute and deliver instruments and papers and do whatever else is necessary to secure such rights. The NAMED INSURED shall do nothing after loss to prejudice such rights.
- L. SOLE AGENT: The NAMED INSURED named in Item 1 of the Declarations shall act on behalf of all INSUREDS for the payment or return

- of premium, receipt and acceptance of any endorsement issued to form a part of this policy, giving and receiving notice of cancellation or non-renewal.
- M. INSOLVENCY OF THE INSURED: Bankruptcy or insolvency of the INSURED shall not relieve the Company of its obligations under this policy.
- N. LOSS PAYEE AND BENEFICIARY:
  The Company agrees that the Policy is payable to the Radiation and Perpetual Care Fund, established in the state treasury pursuant to Texas Health and Safety code Section 401.305, or other trust acceptable to the REGULATORY BODY under the control of a trustee or other entity that has authority to act as trustee and whose trust operations are regulated and examined by a federal or state agency.

## **Endorsement**

#1

#### THIS ENDORSEMENT CHANGES THE POLICY, PLEASE READ IT CAREFULLY.

POLICY NUMBER	EFF. DATE OF POL	EXP. DATE OF POL.	EFF. DATE OF END.	PRODUCER	ADD'L PREML	RETURN PREM.
PLC 2887558- 00	1/28/98	1/28/99	1/28/98		N/A	N/A
	l					

This endorsement is issued by the company named in the Declarations. It changes the policy on the effective date listed above at the hour stated in the Declarations.

NAMED INSURED:

Waste Control Specialists, LLC

**ADDRESS:** 

P.O. Box 1994 Pasadena, TX 50358

## Retrospective Rating Plan

.. is hereby understood and agreed that Item 5. POLICY PREMIUM of the Declarations is subject to a Retrospective Rating Plan as follows:

At termination, this policy will be subject to a retrospective rating calculation using the formula:

Retrospective Premium = Basic Premium + (Incurred Losses x LCF)

where:

Basic Premium = \$129,695

LCF = 1.08

All Retrospective Premium calculations will be subject to Minimum Premium of \$130,845 and Maximum Premium of \$193,190, unless the Policy is modified by endorsement.

All other terms and conditions remain unchanged.

Countersigned this

av of June 1998

Authorized Representative

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## THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

FOLICY NUMBER	EFF. DATE OF POL.	EXP. DATE OF POL	EFF. DATE OF END.	PRODUCER	ADD'L PREM.	RETURN PREM.
PLC 2887558- 00	1/28/98	1/28/99	1/28/98	09-989	N/A	N/A

This endorsement is issued by the company named in the Declarations. It changes the policy on the effective date listed above at the hour stated in the Declarations.

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994

Pasadena, TX 50358

## **Additional Insured**

in consideration of the revised premium paid, it is hereby understood and agreed that the following entities are included as Additional Insured, but solely for Claims for Decontamination and Decommissioning Costs covered under this policy.

Birmingham Steel Corporation 1000 Urban Center Parkway Birmingham, AL 35242

All other terms and conditions remain unchanged.

Countersigned this 16 th day of June 1998

Authorized Representative

## **Endorsement**

#3

# THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

POLICY NUMBER				COLICITIES	DE KEAD II C	AREFULLY.
TOLIC TRUMBER	EFF. DATE OF POL	EXP. DATE OF POL.	EFF. DATE OF END.			
PLC 2887558- 00			EAT. DATE OF END.	PRODUCER	ADD'L PREM.	RETURN PREM.
FEC 288/338- 00	1/28/98	1/28/99	1/28/98	00.000		
	<u> </u>	1	1/20/98	09-989	\$97,285	N/A
		<del>*</del>	<u> </u>		<u> </u>	
						<del></del>

This endorsement is issued by the company named in the Declarations. It changes the policy on the effective date listed above at the hour stated in the Declarations.

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994 Pasadena, TX 50358

## Limit of Liability

In consideration of the revised premium plan outlined in Endorsement #4 of this policy, it is hereby understood and agreed that Item 4. LIMIT OF LIABILITY of the Declarations is deleted and replaced with the following:

Item 4.

Limit of Liability:

Waste Unit A:

\$16,845,318

Total Policy Aggregate:

\$16,845,318

All other terms and conditions remain unchanged.

Countersigned this 16th

day of June 1998

Authorized Representative

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#### THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

POLICY NUMBER	EFF. DATE OF POL.	EXP. DATE OF POL.	EFF. DATE OF END.	PRODUCER	ADD'L PREM.	RETURN PREM.
PLC 2887558- 00	1/28/98	1/28/99	1/28/98	09-989	N/A	N/A
						1

This endorsement is issued by the company named in the Declarations. It changes the policy on the effective date listed above at the hour stated in the Declarations.

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994 Pasadena, TX 50358

#### Retrospective Rating Plan

It is hereby understood and agreed that this endorsement supersedes Endorsement #1. Item 5. POLICY PREMIUM of the Declarations is subject to a Retrospective Rating Plan as follows:

At termination, this policy will be subject to a retrospective rating calculation using the formula:

Retrospective Premium = Basic Premium + (Incurred Losses x LCF)

where:

Basic Premium = \$210,980

LCF = 1.08

All Retrospective Premium calculations will be subject to Minimum Premium of \$228,130 and Maximum Premium of \$290,475, unless the Policy is modified by endorsement.

All other terms and conditions remain unchanged.

Countersigned this

<u> טר</u>

Authorized Representative

#### **Endorsement**

#5

## THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

POLICY NUMBER	EFF. DATE OF POL.	EXP. DATE OF POL.	EFF. DATE OF END.	PRODUCER	ADD'L PREM.	newshir form
PLC 2887558- 00	1/28/98	1/28/99	1/28/98	09-989	\$86,700	N/A

This endorsement is issued by the company named in the Declarations. It changes the policy on the effective date listed above at the hour stated in the Declarations.

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994

Pasadena, TX 50358

#### Limit of Liability

an consideration of the revised premium plan outlined in Endorsement #6 of this policy, it is hereby understood and agreed that Item 4. LIMIT OF LIABILITY of the Declarations is deleted and replaced with the following:

Item 4.

Limit of Liability:

Waste Unit A:

\$31,259,457

Total Policy Aggregate:

\$31,259,457

All other terms and conditions remain unchanged.

Countersigned this

Authorized Representative

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## Steadfast Insurance Company

#### **Endorsement**

#6

## THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

POLICY NUMBER	EFF. DATE OF POL.	EXP. DATE OF POL.	EFF. DATE OF END.	PRODUCER	ADD'L PREM.	RETURN PREM.
PLC 2887558- 00	1/28/98	1/28/99	1/28/98	09-989	N/A	N/A
						! 1

This endorsement is issued by the company named in the Declarations. It changes the policy on the effective date listed above at the hour stated in the Declarations.

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994

Pasadena, TX 50358

'n consideration of the premium paid, in regard to Item 3. Of the Declarations Page, the attached Appendix A, Waste Control Specialists, LLC's Radioactive Waste Processing & Storage Facility Decommissioning Plan, shall become part of the Declarations Page, the Policy, the endorsements and any future endorsements and amendments.

All other terms and conditions remain unchanged.

Countersigned this \_

day of June 1998

authorized Representative

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## **Endorsement**

#7

# THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

POLICY NUMBER	EFF. DATE OF POL	EXP. DATE OF POL.	EFF. DATE OF END.	No.		
DY C 40000000	<b>!</b>	1	Division Line.	PRODUCER	ADD'L PREM.	RETURN PREM.
PLC 2887558- 00	1/28/98	1/28/99	1/28/98	09-989	37/4	
			1,20,70	1 09-909	N/A	N/A

This endorsement is issued by the company named in the Declarations. It changes the policy on the effective date listed above at the hour stated in the Declarations.

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994 Pasadena, TX 50358

## Retrospective Rating Plan

It is hereby understood and agreed that this endorsement supersedes Endorsement #4. Item 5. POLICY PREMIUM of the Declarations is subject to a Retrospective Rating Plan as follows:

At termination, this policy will be subject to a retrospective rating calculation using the formula:

Retrospective Premium = Basic Premium + (Incurred Losses x LCF)

where:

Basic Premium = \$295,162

LCF = 1.08

All Retrospective Premium calculations will be subject to Minimum Premium of \$314,830 and Maximum Premium of \$377,175, unless the Policy is modified by endorsement.

All other terms and conditions remain unchanged.

Countersigned this

- day of June 1998

Authorized Representative

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#### APPENDIX A

#### WASTE CONTROL SPECIALISTS, LLC

# RADIOACTIVE WASTE PROCESSING AND STORAGE FACILITY DECOMMISSIONING PLAN

#### **Decommissioning Plan**

Radioactive contamination is controlled by containing it at the source, minimizing the size and number of contaminated areas and the amount of loose surface activity in the contaminated areas. During facility lifetime, the facility will be operated in a manner that reduces the spread of contamination. This approach to contamination control will minimize the decontamination at the end of the facility lifetime and will facilitate cost-effective decommissioning of the facility. The Radiological Safety Program (described in Section 9.C. of the Licensing Application) and Appendix "Radiological Control Manual" provides for the contamination surveys and controls to ensure that radiologically safe conditions exist for employees and the public.

#### Radiological Assessment of Contamination

Radiological assessment of contamination of materials, equipment and buildings include radiological surveys by instrument, smear and sampling. Surveys are conducted by procedure and documented (Appendices "Radiological Control Manual" and "Radiation Safety Procedures").

#### **Decontamination Criteria**

Decontamination of materials, equipment and buildings is by written procedure and is based on the type of contamination present and the composition of the contaminated object or material. Decontamination will be in accordance with the requirements of TRCR 21.1301 through 21.1304. Methods include, but are not limited to:

- Vacuuming;
- Washing with water;
- Washing with detergent and water;
- Washing with complexing agents;
- Washing with solvents; and
- Abrasion.

#### Release Criteria

Materials, equipment and buildings are not released for unrestricted use until radioactive surface contamination levels are below the limits specified in Table 2-2 of the WCS Radiological Control Manual, Acceptable Surface Contamination Levels, which is in accordance with TRCR Appendix 21-G.

#### Uncontaminated Disposal

Uncontaminated materials, equipment and buildings may be released for unrestricted use by members of the general public or disposed as normal waste.

#### Contaminated Disposal

Contaminated materials, equipment and buildings are evaluated to determine the feasibility of decontamination to the levels specified in Table 2-2 of the WCS Radiological Control Manual and TRCR Appendix 21-G. If it is not feasible to decontaminate materials or equipment, they are packaged and disposed as radioactive waste. Building that cannot be decontaminated are razed and the resulting material is packaged and disposed as radioactive waste.

#### Soil Surveys and Sampling

Soil surveys and sampling to assess radiological contamination are conducted using recognized methodologies. Soil survey samples are processed by an accredited laboratory. Soils are not considered to be contaminated when activities present are less than those identified in TRCR Appendix 21-I. Soil survey results are documented.

#### Post-cleanup Surveys

Post-cleanup surveys are conducted by methodologies similar to the protocols for establishing contamination of soils, ground water and vegetation. Survey results are documented.

#### Measurement Methodology

Instrumentation and analytical methods are selected based on evaluation of conditions, radiation levels expected, type of radiation, isotopic composition and chemical form. Quality assurance is based on statistical sampling, split samples, instrument quality assurance programs and analytical quality assurance programs. Compliance with the quality assurance programs is documented and auditable.

This Endorsement changes the Policy. Please read it carefully

POLICY NUMBER	EFF. DATE OF POL.	EXP. DATE OF POL.	EFF. DATE OF END.	PRODUCER	ADD'L PREM.	RETURN PREM.
PLC 2887558-00	1/28/98	1/28/99	6/16/98	09-989	N/A	\$53,667

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994

Pasadena, TX 50358

### **Limit of Liability**

In consideration of the revised premium plan outlined in Endorsement No. 9 of this policy, it is hereby understood and agreed that Item 4. LIMIT OF LIABILITY of the Declarations is deleted and replaced with the following:

Item 4.

Limit of Liability:

Waste Unit A:

\$18,467,478

Total Policy Aggregate:

\$18,467,478

All other terms and conditions remain unchanged.

Countersigned this

day of August 19

Authorized Representative

This Endorsement changes the Policy. Please read it carefully

POLICY NUMBER	EFF. DATE OF POL.	EXP. DATE OF POL.	EFF. DATE OF END.	PRODUCER	ADD'L PREM.	RETURN PREM.
PLC 2887558-00	1/28/98	1/28/99	6/16/98	09-989	N/A	N/A

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994

Pasadena, TX 50358

#### **Retrospective Rating Plan**

It is hereby understood and agreed that this endorsement supersedes Endorsement No. 7. Item 5 POLICY PREMIUM of the Declarations is subject to a Retrospective Rating Plan as follows:

At termination, this policy will be subject to a retrospective rating calculation using the formula:

Retrospective Premium = Basic Premium + (Incurred Losses x LCF)

where:

Basic Premium = \$253,630

LCP = 1.08

All Retrospective Premium calculations will be subject to Minimum Premium of \$261,163 and Maximum Premium of \$323,508.

All other terms and conditions remain unchanged.

Countersigned this 35

day of Across, 1998

Authorized Representative

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Endorsement No.

This Endorsement changes the Policy. Please read it carefully.

POLICY NUMBER	EFF. DATE OF POLICY	EXP. DATE OF POLICY	: EFF. DATE OF END.	: PRODUCER : ADI	O'L PREM.	RETURN PREM.
PLC 2887558-00	1/28/98	1/28/99	6/16/98	09-989	N/A	N/A

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994

Pasadena, TX 50358

It is hereby understood and agreed that Endorsement No. 8 of this policy is deleted in its entirety and replaced with the following:

## **Limit of Liability**

In consideration of the revised premium plan outlined in Endorsement No. 9 of this policy, it is hereby understood and agreed that Item 4. LIMIT OF LIABILITY of the Declarations is deleted and replaced with the following:

Item 4.

Limit of Liability:

\$18,467,478

For each Claim

\$18,467,478

**Total Policy Aggregate** 

All other terms and conditions remain unchanged.

Countersigned this 19TH day of OCTOBER Caul & Service

Endorsement No. 11

This Endorsement changes the Policy. Please read it carefully.

POLICY NUMBER	EFF. DATE OF POLICY	EXP. DATE OF POLICY	EFF. DATE OF END.	PRODUCER	ADD'L PREM.	RETURN PREM
PLC 2887558-00	1/28/98	1/28/99	1/28/98	09-989	N/A	N/A

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994

Pasadena, TX 50358

It is hereby understood and agreed that Item E. of Section V. CONDITIONS, is deleted in its entirety and replaced with the following:

E. REGULATORY PROVISIONS: Any term or condition of this policy to which any federal or state administrative or regulatory provisions apply shall be governed only by those regulations or provisions in effect at the inception date of this policy or at each annual renewal date if the policy is extended.

All other terms and conditions remain unchanged.

Countersigned this 19<sup>TH</sup> day of OCTOBER

Authorized Representative

Endorsement No. 12

This Endorsement changes the Policy. Please read it carefully

POLICY NUMBER	EFF. DATE OF POLICY	EXP. DATE OF POLICY	EFF. DATE OF END.	PRODUCER	ADD'L PREM.	RETURN PREM.
PLC 2887558-00	1/28/98	1/28/99	1/28/98	09-989	N/A	N/A

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994

Pasadena, TX 50358

It is hereby understood and agreed that any provision of this Policy inconsistent with the regulations of Title 25 Texas Administrative Code Chapter 289 s201, s202, s252 and s254; and Texas Regulations for Control of Radiation Parts 12, 13, and 22 is hereby amended to eliminate such inconsistency.

All other terms and conditions remain unchanged.

Countersigned this 19<sup>TH</sup> day of OCTOBER Authorized Representative

**Endorsement No.** 

13

This Endorsement changes the Policy. Please read it carefully

	OF POLICY EXP. DATE OF PO	DLICY : EFF. DATE OF EN	D. : PRODUCER :	ADD'L PREM.	RETURN PREM.
PLC 2887558-00 1/2	8/98 1/28/99	1/28/98	09-989	N/A	N/A

NAMED INSURED:

Waste Control Specialists, LLC

ADDRESS:

P.O. Box 1994

Pasadena, TX 50358

It is hereby understood and agreed that Endorsement No. 2 of this policy is deleted in its entirety and replaced with the following:

#### Additional Insured(s)

It is hereby understood and agreed that the following entities are included as Additional Insured(s), but solely for Claims for Decontamination and Decommissioning Costs covered under this policy:

Birmingham Steel Corporation 1000 Urban Center Parkway Birmingham, AL 35242

Industrial Waste Technologies

99 Chapel Street Newark, NJ 07105

Navistar Financial Corporation and Harco Leasing

2850 West Golf Road

Rolling Meadows, IL 60008-4036

RAILTEX 4040 West Broadway No. 200 San Antonio, TX 78209

CET Environmental Services 170 West Dayton, Suite 106-A Edmonds, WA 98020

All other terms and conditions remain unchanged.

GPM Gas Services Company, a Div. of Phillips Petroleum

4044 Penbrook Odessa, TX 79762

NALCO Chemical Company

One NALCO Center Naperville, IL 60563-1198

PACCAR, Inc. P.O. Box 1518 Bellevue, WA 98004

Safety-Kleen Corporation 1000 North Randall Elgin, IL 60123-7857

Countersigned this 19<sup>TH</sup> day of OCTOBER Caul Assessed

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#### TEXAS DEPARTMENT OF HEALTH

#### **MEMO**

To:

Ruth McBurney, Director

Division of Licensing, Registration and Standards

Thru:

Pete Myers, Deputy Director

Licensing

From:

Philip Shaver, Chief

Special Licensing Program

Subject:

Waste Control Specialists Letter of 2/22/00 to Dr. Carl Paperiello

Date:

3/3/00

I wish to point out some items to which I take exception in the Waste Control Specialists (WCS) letter dated February 22, 2000 addressed to Dr. Carl Paperiello of the Nuclear Regulatory Commission.

The second sentence in the second paragraph implies that WCS has authorization for an unlimited amount of radioactive waste. The fact is that Conditions 7 and 23 of Radioactive Material License No. L04971 limits WCS in terms of activities and quantities, respectively.

The last sentence in the second paragraph speaks of WCS' plans to construct ... shield storage ... The license does not currently authorize such a facility and to date we have not received a request from WCS to so amend their license to allow for a modification to an existing structure or the inclusion of a new structure of this nature. To date none of the amendment requests received from WCS have requested an expansion of the facility or an increase in the activity or quantity of radioactive waste which they are currently authorized to received.

Finally, Paul Lohaus of the NRC's Office of State Programs requested that any comments which we may have concerning the subject letter be forwarded to his office. Please feel free to forward these comments, if you wish.