



**A06-0038 5-1-02**

*Application Form*

MD Anderson Cancer Center

Name of facility\*

University of Texas

Name of parent company (if any)

1515 Holcombe Blvd.

Street address

Street address (continued)

Houston, Texas 77030

City/State/Zip code

Give us information about your contact person for the National Environmental Performance Track Program.

Name Mr./Mrs./Ms./Dr. Mr. John H. Gamble

Title EH&S Compliance Officer

Phone 713-745-1422

Fax 713-745-2025

E-mail jgamble@mdanderson.org

Facility/Company Website

http://www.mdanderson.org/departments/ems/

\* If you are applying for multiple facilities, you must call 1-888-339-PTRK(7875)

# Section A

*Tell us about your facility.*

**Why do we need this information?**

EPA needs background information on your facility to evaluate your application.

**What do you need to do?**

- ◆ Provide background information on your facility.
- ◆ Identify your environmental requirements.

1 What do you do or make at your facility?

Cancer Research Center; Hospital

2 List the North American Industrial Classification System (NAICS) codes that you use to classify business at your facility.

NAICS  
62231      \_\_\_\_\_

3 Does your company meet the Small Business Administration definition of a small business for your sector?

Yes       No

4 How many employees (full-time equivalents) currently work at your facility? If you checked "Yes" in question 3 and have fewer than 50 employees at your facility, then you are considered a "small facility" by the Performance Track Program.

- Fewer than 50
- 50-99
- 100-499
- 500-1,000
- More than 1,000

5 Complete the Environmental Requirements Checklist on pages 32-38 of the instructions and enclose it with your application.

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*Section A, continued*

*Expiration Date:*

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6 Optional: Is there anything else you would like to tell us about your facility? Do you participate in other voluntary programs at the local, tribal, State, or Federal level?

ISO 14001 Registered Health Care Institution; Participant in TNRCC's Clean Texas Program at the Leader Level

**Why do we need this information?**

Facilities need to have an operating Environmental Management System (EMS) that meets certain requirements.

**What do you need to do?**

- ◆ Confirm that your EMS meets the Performance Track requirements.
- ◆ Tell us if you have completed a self-assessment or have had a third-party assessment of your EMS.

# Section B

## Tell us about your EMS.

Read the EMS requirements on page 9-12 of instructions.  
Tell us if your EMS meets these requirements for:

- 1 Environmental policy \_\_\_\_\_  Yes  No
- 2 Planning \_\_\_\_\_  Yes  No
- 3 Implementing and operation \_\_\_\_\_  Yes  No
- 4 Checking and corrective action \_\_\_\_\_  Yes  No
- 5 Management review \_\_\_\_\_  Yes  No
- 6 Have you done a comprehensive review of all activities conducted at your facility that could impact the environment? (i.e., have you done an aspect analysis?)  Yes  No
- 7 Have you classified your aspects based on their potential harm to the environment, on community concerns, and/or on other objective factors? (i.e., have you determined your significant aspects?)  Yes  No
- 8 When did you last update your aspect analysis? (mo/yr) 10/01
- 9 Have you completed at least one EMS cycle (plan-do-check-act)?  Yes  No
- 10 Did this cycle include both an EMS and a compliance audit?  Yes  No
- 11 Have you completed an objective self-assessment or third-party assessment of your EMS?  Yes  No

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If yes, what method of EMS assessment did you use?

Self-assessment

GEMI

CEMP

Other ADL protocols

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Third-party assessment

ISO 14001 Certification

Other

**Why do we need this information?**

Facilities need to show that they are committed to improving their environmental performance. This means that you can describe past achievements and will make future commitments.

**What do you need to do?**

Refer to the Environmental Performance Table in the instructions to answer questions 1 and 2.

# Section C

*Tell us about your past achievements and future commitments.*

**Part 1 You must report past achievements for at least two environmental aspects, and you must choose these aspects from the Environmental Performance Table on pages 29-31 of the instructions.**

Please quantify each of your aspects using the units listed for that aspect in the Environmental PTrack Information Hotline at 1-888-339-PTRK.

**Note to small facilities:** If you are a small facility, you must report past achievements for only one environmental aspect.

**First achievement**

<b>1</b> What aspect have you selected from the Table on page 29-31?	Emissions of Ozone-Depleting Gases	
<b>2</b> What units are you using to quantify this aspect? (See Table, page 29-31.)	tons	
	PAST	CURRENT
<b>3</b> List the past annual quantity of the aspect (from two years ago) and the current annual quantity of the aspect (from the most recent year for which you have data).	5 tons	4.65 tons
<b>4</b> What are the years for which you are reporting these quantities?	1998	2001
<b>5</b> Estimate your past normalizing factor (Page 18 of the Instructions will help you calculate this.)	0.76 Eliminated one air emission source in a severe non-attainment for VOC; Provided waste feedstock to a higher efficiency, constant volume incinerator in a VOC attainment area.	1.0

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<p>6 What is your normalizing factor based on (e.g., production, employment)?</p>	<p>employment (8,764 - 11,568)</p>
<p>7 You reported an improvement in the quantity of the aspect in Question 3. How did you achieve this improvement?</p>	<p>In April 1999 MD Anderson removed the Medical Waste Incinerator from service in a severe non-attainment area for VOC and contracted with a licensed third party disposal firm to incinerate the biological wastes in a VOC attainment area. MD Anderson voided the incinerator operating permit.</p>

**Second achievement**

1 What aspect have you selected from the Table on page 29-31?	Hazardous Materials Use	
2 What units are you using to quantify this aspect? (See Table, page 29-31.)	lbs	
	PAST	CURRENT
3 List the past annual quantity of the aspect (from two years ago) and the current annual quantity of the aspect (from the most recent year for which you have data).	250 lbs. (estimated)	50-60 lbs. (estimated)
4 What are the years for which you are reporting these quantities?	1999	2001
5 Estimate your past normalizing factor (Page 18 of the Instructions will help you calculate this.)	0.85	1.0
6 What is your normalizing factor based on (e.g., production, employment)?	employment (9,788 - 11,568)	
7 You reported an improvement in the quantity of the aspect in Question 3. How did you achieve this improvement?	Over the last three years MD Anderson reduced the quantities of ethylene oxide usage. As a result, MD Anderson voided their ETO permit and are currently operating under a TNRCC permit by rule status.	

**Part 2 You must make future commitments for at least four environmental aspects, and you must choose these aspects from the Environmental Performance Table on pages 29-31 of the Instructions.** The aspects you select for your future commitments should be related to the objectives and targets in your EMS. Where possible, they also should be identified as having a significant environmental impact in your EMS. No more than two of your aspects can be from the same environmental category. If you're not sure how your objectives and targets fit into our aspects or whether your aspects are significant, call the PTrack Information Hotline at 1-888-339-PTRK.

Once you have chosen your four environmental aspects, then fill in all the necessary information for these aspects in the tables on pages 7-10 of this form. Please quantify each of your aspects using the units listed for that aspect in the Environmental Performance Table. Each table that you must fill in corresponds to one of the environmental aspects you have chosen.

We will assume that your performance commitments are based on a constant production or employment level. If you would like to base your commitment on changing production or employment, please fill out optional questions 6a and 6b.

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**Note to small facilities:** If you are a small facility, you must report future commitments for only two environmental aspects.

**First commitment**

<b>1</b> What aspect have you selected from the Table on pages 29-31?	Hazardous Materials Use	
<b>2</b> What units are you using to quantify this aspect?	tons	
<b>3a</b> Is this aspect considered significant in your EMS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>3b</b> If no, please explain why you believe this aspect should be included as a performance commitment.		
	CURRENT	FUTURE
<b>4</b> List the current annual quantity of the aspect and the annual quantity you are committing to achieve by the end of the third year of your participation in Performance Track.	19.2 tons (estimated) of flammable chemicals stored in laboratories	14.4 tons (estimated) Expand the program to include reduced storage of toxic chemicals stored in laboratories and chemical exchange.
<b>5</b> What are the years for which you are reporting these quantities?	2001	2004
<b>6a</b> (Optional) What is your future normalizing factor. (Page 21 of the Instructions will help you calculate this.)	1.0	
<b>6b</b> (Optional) What is your normalizing factor based on (e.g., production, employment)?		
<b>7</b> You committed to an improvement in the quantity of this aspect in Question 4. How do you plan to achieve this improvement?	Phase I of the project involves implementing a program to remove hazardous materials from the laboratories, store them in a secure off site location and provide the materials back the laboratories utilizing 'just-in-time' delivery. Phase II involves product exchange within the institution.	
<b>8a</b> Are you subject to Federal, State, tribal, or local regulatory requirements for this aspect?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>8b</b> If yes, please list those requirements, including the quantitative limits and compliance deadlines that apply to you. Explain how your commitment exceeds requirements.	MD believes that by reducing the volume of hazardous materials stored in laboratories, fire and life safety risk can be reduced and the management of chemical feedstocks and wastes can be improved.	

### Second commitment

<b>1</b> What aspect have you selected from the Table on pages 29-31?	Recycled/Reused Material Use	
<b>2</b> What units are you using to quantify this aspect?	tons	
<b>3a</b> Is this aspect considered significant in your EMS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>3b</b> If no, please explain why you believe this aspect should be included as a performance commitment.		
	CURRENT	FUTURE
<b>4</b> List the current annual quantity of the aspect and the annual quantity you are committing to achieve by the end of the third year of your participation in Performance Track.	0.217 tons	0.250 tons
<b>5</b> What are the years for which you are reporting these quantities?	2001	2004
<b>6a</b> (Optional) What is your future normalizing factor. (Page 21 of the Instructions will help you calculate this.)	1.0	
<b>6b</b> (Optional) What is your normalizing factor based on (e.g., production, employment)?		
<b>7</b> You committed to an improvement in the quantity of this aspect in Question 4. How do you plan to achieve this improvement?	MD Anderson operates ethanol, xylene and formalin recycling units. MD Anderson is exploring off-site manufacturing operations that could utilize MD Anderson's solvent streams as a feedstock.	
<b>8a</b> Are you subject to Federal, State, tribal, or local regulatory requirements for this aspect?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>8b</b> If yes, please list those requirements, including the quantitative limits and compliance deadlines that apply to you. Explain how your commitment exceeds requirements.	MD Anderson is subject to TNRCC's Waste Minimization Program Requirements. MD Anderson began recycling ethanol, xylene and formalin in June 2000. As part of the objectives and targets tracking, MD Anderson is committed to continual improvement of this significant aspect.	

### Third commitment

<b>1</b> What aspect have you selected from the Table on pages 29-31?	Total Materials Use	
<b>2</b> What units are you using to quantify this aspect?	tons	
<b>3a</b> Is this aspect considered significant in your EMS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>3b</b> If no, please explain why you believe this aspect should be included as a performance commitment.		
	CURRENT	FUTURE
<b>4</b> List the current annual quantity of the aspect and the annual quantity you are committing to achieve by the end of the third year of your participation in Performance Track.	312.39 tons + 4.6 tons from Medical Bridges = 316.85tons	500 tons est.+ 6 tons from Medical Bridges = 506 tons
<b>5</b> What are the years for which you are reporting these quantities?	2001	2004
<b>6a</b> (Optional) What is your future normalizing factor. (Page 21 of the Instructions will help you calculate this.)	1.0	
<b>6b</b> (Optional) What is your normalizing factor based on (e.g., production, employment)?		
<b>7</b> You committed to an improvement in the quantity of this aspect in Question 4. How do you plan to achieve this improvement?	MD Anderson plans to add other buildings and sites to the general recycling program and continues to gain/ increase customer base through educational events.	
<b>8a</b> Are you subject to Federal, State, tribal, or local regulatory requirements for this aspect?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>8b</b> If yes, please list those requirements, including the quantitative limits and compliance deadlines that apply to you. Explain how your commitment exceeds requirements.	MD Anderson recycles cardboard, paper, toner cartridges, scrap metal and aluminum cans. MD Anderson continues to expand the program through the addition of other facilities and off-site locations. MD Anderson participates in the Medical Bridges Program that collects and ships medical equipment and supplies to third world countries.	

### Fourth commitment

<b>1</b> What aspect have you selected from the Table on pages 29-31?	Energy Use	
<b>2</b> What units are you using to quantify this aspect?	kWH	
<b>3a</b> Is this aspect considered significant in your EMS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>3b</b> If no, please explain why you believe this aspect should be included as a performance commitment.		
	CURRENT	FUTURE
<b>4</b> List the current annual quantity of the aspect and the annual quantity you are committing to achieve by the end of the third year of your participation in Performance Track.	157,758,810 kWH	154,603,634 kWH
<b>5</b> What are the years for which you are reporting these quantities?	2001	2004
<b>6a</b> (Optional) What is your future normalizing factor. (Page 21 of the Instructions will help you calculate this.)	1.0	
<b>6b</b> (Optional) What is your normalizing factor based on (e.g., production, employment)?		
<b>7</b> You committed to an improvement in the quantity of this aspect in Question 4. How do you plan to achieve this improvement?	Develop an energy reduction plan by May 31, 2002. Monitor and track the reduction goals with the building automation program, i.e., design and install site wide system (SCADA) to monitor all electrical power system. The system would monitor all breaker status, date stamp and record cause of problem. The system will allow for a proactive response and provide documentation for troubleshooting; Replace the seven emergency generators in the hospital (20 plus years old) with more efficient and up-to-date emergency back up power; Install total metering on all departmental electrical, natural gas, water, chilled water, and steam into all buildings. Install submetering internally to all buildings for proper allocation, monitoring and immediate discrepancy determination.	
<b>8a</b> Are you subject to Federal, State, tribal, or local regulatory requirements for this aspect?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>8b</b> If yes, please list those requirements, including the quantitative limits and	UT Systems has mandated MD Anderson achieve 5-10% energy reduction on or before August 2006. As part of the objectives and targets tracking, MD Anderson is committed to continual improvement of this	

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compliance deadlines that apply to you. Explain how your commitment exceeds requirements.	significant aspect.
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**Why do we need this information?**

Facilities need to demonstrate their commitment to public outreach and performance reporting. You should have appropriate mechanisms in place to identify community concerns, to communicate with the public, and to provide information on your environmental performance.

**What do you need to do?**

- ◆ Describe your approach to public outreach.
- ◆ List three references who are familiar with your facility.



**1** How do you identify and respond to community concerns?

Community related concerns are directed through the Communications office. Environmentally related concerns are tracked through MD Anderson's EMS web.

**2** How do you inform community members of important matters that affect them?

External stakeholders are notified of MD Anderson's EMS program and current activities through MD Anderson's web.

**3** How will you make the Performance Track Annual Performance Report available to the public?

Website [www.mdanderson.org/ems](http://www.mdanderson.org/ems)

Newspaper

Open Houses

Other

Presentations to professional organizations, such as the Campus Health, Safety and Environmental Management Association and UT System Components. ISO 14001 banners are located throughout the Institution.

MD Anderson's EMS Web is available to the UT System safety and legal staff as well as other UT Components.

4 Are there any ongoing citizen suits against your facility?  Yes  No

If yes, describe briefly in the right-hand column.

5 List references below

	<i>Organization</i>	<i>Name</i>	<i>Phone number</i>
<i>Representative of a Community/Citizen Group</i>	University of Texas School of Public Health	George Delclos, MD, MPH	713-500-9459
<i>State/tribal/local regulator</i>	Texas Natural Resources Conservation Commission (TNRCC)	Rob Borowski	512-239-3187
<i>Other community/local reference (e.g., emergency management official or business associate)</i>	DNV (MD Anderson's ISO 14001 Registrar)	Bob Gillespie	713-392-7955

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*Section E*  
*Application and Participation Statement.*

On behalf of MD Anderson Cancer Center  
[my facility],

I certify that

I have read and agree to the terms and conditions for Application and Participation in the National Environmental Performance Track, as specified in the *National Environmental Performance Track Program Guide* and in the *Application Instructions*;

- I have personally examined and am familiar with the information contained in this Application, including the Environmental Requirements Checklist. The information contained in this Application is, to the best of my knowledge and based on reasonable inquiry, true, accurate, and complete, and I have no reason to believe the facility would not meet all program requirements;
- My facility has an environmental management system (EMS), as defined in the Performance Track EMS requirements, including systems to maintain compliance with all applicable Federal, State, tribal, and local environmental requirements in place at the facility, and the EMS will be maintained for the duration of the facility's participation in the program;
- My facility has conducted an objective assessment of its compliance with all Federal, State, tribal, and local environmental requirements, and the facility has corrected all identified instances of potential or actual noncompliance;
- Based on the foregoing compliance assessment and subsequent corrective actions (if any were necessary), my facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with applicable Federal, State, tribal, and local environmental requirements.

I agree that EPA's decision whether to accept participants into or remove them from the National Environmental Performance Track is wholly discretionary, and I waive any right that may exist under any law to challenge EPA's acceptance or removal decision.

I am the senior facility manager and fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is applying to this program.

Signature/Date	_____
Printed Name/Title	<u>Mr./Mrs./Ms./Dr. Mr. Leon Leach</u>
Phone Number/E-mail	<u>lleach@mdanderson.org</u>
Facility Name	<u>MD Anderson Cancer Center</u>
Facility Street Address	<u>1515 Holcombe Blvd.</u>

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## **Paperwork Reduction Act Notice**

The public reporting and recordkeeping burden for this collection of information is estimated to average 40 hours per response. Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for

The National Environmental Performance Track is a U.S. Environmental Protection Agency program. Please direct inquiries to 1-888-339-PTRK (7875) or e-mail ptrack@indecon.com.

## *Environmental Requirements Checklist*

If you cannot e-mail the application, mail a hard copy of the entire completed application to:

The Performance Track Information Center  
c/o Industrial Economics Incorporated  
2067 Massachusetts Avenue  
Cambridge, MA 02140

minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Use the Environmental Requirements Checklist to answer Question 5 in *Section A, Tell us about your facility*. This Checklist will help you identify the *major* Federal, State, tribal, and local environmental requirements that apply at your facility, but it is not an exhaustive list of all environmental requirements that may be applicable at your facility.

Fill in your facility information below and enclose the completed Checklist with your application.

### **Air Pollution Regulations**

*Check all that apply*

- 1. **National Emission Standards for Hazardous Air Pollutants (40 CFR 61)**  
*The asbestos NESHAP applies to MD Anderson. The program is managed according to an Asbestos Operation & Maintenance Plan (O&M). It is administered by the Facilities and Site Services Department. The O&M Plan is available to the staff and UT System on MD Anderson's EMS website.*
- 2. **Permits and Registration of Air Pollution Sources**  
*MD Anderson submitted a Clean Air Act permit application to the TNRCC in August of 1999. The TNRCC deemed the application technically complete but a final permit has not yet been issued. The main emission source noted in the application was the pathological waste incinerator. The incinerator was taken out of service, disassembled and removed from the site in 2000. Cooling towers and several boilers were also dismantled and removed from the site. The remaining emission sources include the diesel powered emergency generators and three natural gas fired boilers. MD Anderson is in the process of updating its Emission Inventory to determine if it remains a major source for NOx.*

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**3. General Emission Standards, Prohibitions, and Restrictions**

*M.D. Anderson is located in Harris County in Houston. The following table describes Harris County's attainment status with respect to applicable ambient air quality standards:*

	<b>Pollutant Attainment Status Regulatory Citation</b>
Sulfur Dioxide Attainment	40 CFR 50
Ozone Severe non-attainment area	
Nitrogen Dioxide* Attainment	
Carbon Monoxide Attainment	
Particulate Matter (PM-10) Attainment	
Lead Attainment	

*\*MD Anderson is updating its emissions inventory to determine if it remains a major stationary source for NOx and therefore subject to the requirements of 30 TAC Regulation 117. A NOx Control Plan was submitted in order to demonstrate compliance in August 1999.*



**4. Control of Incinerators**

*The pathological waste incinerator was dismantled and removed from the site.*



**5. Process Industry Emission Standards**

*Not applicable*



**6. Control of Fuel Burning Equipment**

*An Emissions Inventory is currently being updated to determine if MD Anderson remains a major source based on potential to emit from the diesel powered emergency generators and natural gas fired boilers.*



**7. Control of VOCs**

*MD Anderson's air operating permit is pending with the TNRCC. When approved, it will establish air emission limitations and operating conditions.*



**8. Sampling, Testing, and Reporting**

*The pending air permit establish record-keeping and reporting requirements. When the permit is approved applicable requirements will be met.*



**9. Visible Emissions Standards**

*No incinerators remain at MD Anderson.*

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- 10. **Control of Fugitive Dust**  
*Not applicable.*
- 11. **Toxic Air Pollutants Control**  
*Not applicable.*
- 12. **Vehicle Emissions Inspections and Testing**  
*MD Anderson operates a fleet safety program. All mechanical and maintenance services performed on vehicles under that program are done by outside mechanics.*

Other (you must list these if applicable)

- 13. **Federal, State, tribal, or local regulations not listed above.**
  - 1. State Operating Permit Programs (40 CFR 70)** - Title V of the 1990 Clean Air Act Amendments established a new federal operating permit program. Title V operating permits are intended to contain a facility's requirements for compliance with all air quality regulations in one enforceable document. The major provisions of the Title V permitting program include: stack-by-stack emission limits, compliance monitoring, emission reporting, annual compliance certification, five-year maximum term, and significant permit fees. Air emission sources at MD Anderson were constructed pursuant to Title V Operating Permit Application for submission to the TNRCC. The MD Anderson's current permit is pending. MD Anderson is currently updating its emissions inventory to determine if it remains a major stationary source for NOx and therefore subject to the requirements of 30 TAC Regulation 117.
  - 2. New Source Performance Standards (NSPSs)**  
*Boilers are currently subject to promulgated NSPSs.*
- 14. **ID Numbers (specify whether State or Federal).**  
*Permit pending*

## Hazardous Waste Management Regulations

Check all that apply.

**1. Identification and listing of hazardous waste (40 CFR 261)**

**- Characteristic waste**

*MD Anderson generates various hazardous and non-hazardous waste streams. The each waste stream generated has been evaluated and characterized in accordance with 40 CFR 261. A Waste Material Data Sheet (WMDS) is on file for each waste stream generated.*

**- Listed waste**

*The Waste Material Data Sheets (WMDS) provides information about each waste stream generated. The WMDS are reviewed annually by the Chemical Safety Officer. These documents are kept on file in the EH&S Office.*

### SUMMARY OF WASTE GENERATION STATUS

#### Waste Category Generation Status

##### Hazardous waste

*The facility at 1515 Holcombe Blvd. generates hazardous waste in volumes greater than 1000 kg per month and therefore, is regulated as a large quantity generator (LQG) of hazardous waste. The facility has been assigned U.S. EPA ID No. TXD078426020 for its hazardous waste generation activities.*

##### Universal waste

*The facility accumulates less than 5,000 kg (11,000 lbs.) of universal waste onsite at any one time, and therefore, is regulated as a Small Quantity Handler of Universal Waste.*

[http://inside2.mdanderson.org/ems/environmental/waste/waste\\_programs.htm](http://inside2.mdanderson.org/ems/environmental/waste/waste_programs.htm) - A.4. Universal Waste Management

##### Used oil

*The facility generates an estimated average of 30 gallons per month of used oil.*

[http://inside2.mdanderson.org/ems/environmental/waste/waste\\_programs.htm](http://inside2.mdanderson.org/ems/environmental/waste/waste_programs.htm) - A.2. Used Oil Management

##### Asbestos

*Based on the results of past asbestos surveys, the materials which typically are asbestos containing materials are in listed in MD Anderson's Asbestos O&M / Management Plan*

##### Medical waste

*The facility generates medical waste. It is handled as special waste in accordance with state regulations.*

##### PCBs

*To the knowledge of the EH&S, all PCBs have been removed from the Institution; however, occasionally items such as ballasts may be found to have trace amounts of PCBs.*

**2. Standards Applicable to Generators of Hazardous Waste (40 CFR 262)**

**- Manifesting**

*As a LQG of hazardous waste, the hazardous waste manifests are used in MD Anderson when shipping the hazardous waste off-site. The records are maintained for three years. Wastes that are transported and disposed of out of state are required to be accompanied by the receiving state's manifest. For the waste subject to land disposal restriction (LDR) then the manifest are accompanied by an LDR notification form. The copies are maintained in EH&S for five years.*

**- Pre-transport requirements**

*MD Anderson utilizes only properly licensed commercial waste transporters and treatment, recycling and disposal facilities to manage its wastes. Only institutional and UT System approved transporters and TSD facilities are used to manage hazardous and universal wastes.*

- **Record keeping/reporting**

As a LQG of hazardous waste, MD Anderson conducts the following reporting activities: **Annual Reporting** - MD Anderson prepares and submits a Hazardous Waste Annual Report to the TNRCC by March 1 of each year using TNRCC supplied forms. The report covers hazardous waste generator activities during the previous calendar year.

**Exception Reporting** - For each off-site shipment of hazardous waste, MD Anderson submits an Exception Report to the TNRCC if a copy of the manifest with the handwritten signature of the owner or operator of the designated facility has not been received within 45 days following the date waste was accepted by the initial transporter

**Release Reporting** - In the event of a discharge or spill of hazardous waste in amounts equal to or greater than the applicable reportable quantity (RQ), the Institution notifies the TNRCC.

**Record-keeping** - Below is a summary of the waste-related records, that the facility is required to maintain, including minimum records retention periods. All records are retained in the EH&S Department:

**Record Type  
Retention Period**

RCRA Waste Characterizations, Tests and Analysis

Three years, but must be able to rebut presumption that material was/is waste/hazardous waste at any time in future

Hazardous Waste Management Fee Records, Annual Reports, and Exception Reports

Three years

Completed Hazardous Waste Inspections

Three years from date of inspection

Hazardous Waste Manifests

Three years from shipment date

Notification of Hazardous Waste Activity (EPA Identification No. TXD 07642620)

Life of facility

Personnel Training Records

Indefinitely during employment - three years after employee leaves facility

Contingency Plans

Life of facility

Records of Hazardous Waste Discharge / Incident Reports

Life of facility

Land Disposal Restrictions

Three years from shipment date

PCB Manifests

Three years from the date the PCB waste was accepted by the initial transporter

PCB-Containing Ballast Manifests or Shipping Papers

Three years from the date the PCB containing ballasts were accepted by the initial transporter

Hazardous Waste Source Reduction and Management Review Plan & Report

Four years from due date

Used Oil Filters - Bills of Lading

Three years from the date the shipment date

**3. Standards Applicable to Transporters of Hazardous Waste (40 CFR 263)**

- Transfer facility requirements

- Manifest system and record-keeping

- Hazardous waste discharges

MD Anderson utilizes a LQG transporter and the Licenses Number is TXD 078426020. Requirements under 40 CFR 263 are being tracked.

**4. Standards for Owners and Operators of TSD Facilities (40 CFR 264)**

- General facility standards

- Preparedness and prevention
- Contingency plan and emergency procedures
- Manifest system, record-keeping, and reporting
- Groundwater protection
- Financial requirements
- Use and management of containers
- Tanks
- Waste piles
- Land treatment
- Incinerators

*Not applicable*

- 5. **Interim Standards for TSD Owners and Operators (40 CFR 265)**  
*Not applicable*
- 6. **Interim Standards for Owners and Operators of New Hazardous Waste Land Disposal Facilities (40 CFR 267)**  
*Not applicable*
- 7. **Administered Permit Program (Part B) (40 CFR 270)**  
*Not applicable*

**Other (you must list these if applicable)**

- 8. **Federal, State, tribal, or local regulations not listed above**

**Land Disposal Restrictions (LDR, 40 CFR 268):** The facility is required to comply with Federal regulations on Land Disposal Restriction requirements. The facility must identify applicable land disposal restrictions for each hazardous waste stream and either: 1. Certify that the waste stream meets the applicable land disposal restriction, or 2. Notify the ultimate destination facility that the waste stream requires further treatment prior to land disposal.

**OSHA Blood-borne Pathogens Standard and 30 TAC 330.1001-330.1010** Medical waste generated in facility is handles as special waste in accordance with OSHA Blood-borne Pathogens Standard and 30 TAC 330.1001-330.1010.

- 9. **ID Numbers (specify whether State or Federal).**  
*Federal TXD078426020*  
*State ID 71019*

## Hazardous Materials Management

Check all that apply.

1. **Control of Pollution by Oil and other Hazardous Substances (33 CFR 153)**  
*MD Anderson maintains a SPCC plan.*
2. **Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302)**  
*MD Anderson is subject to emergency planning requirements for extremely hazardous substances under Sections 302 and 303 of EPCRA. The Chemical Inventory lists the hazardous materials present onsite, and their quantities. The hazardous substances are stored onsite in quantities that exceed the established thresholds and therefore, are subject to Tier II reporting requirements. The Institution submits Tier II Hazardous Chemical Inventory Forms to the TNRCC/TDH by March 1st of each year for regulated substances.*  
  
*As required, the Institution has named Primary and Alternate Emergency Response Coordinators (ERCs). MD Anderson has not experienced a release of a CERCLA hazardous substance at a quantity greater than its respective RQ. All releases are evaluated and, if required, notifications are provided to appropriate regulatory agencies in accordance with release reporting procedures established in the SPCC Plan.*
3. **Hazardous Materials Transportation Regulations (49 CFR 172-173)**  
**Packaging, Labeling, Marking, Placarding** *Prior to transporting or offering hazardous waste for transportation off-site, the facility packages, labels and marks each package of hazardous waste in accordance with the Department of Transportation regulations under 49 CFR 172, 173, 178, and 179. Before offering hazardous wastes for transportation off-site, the generator shall placard or offer the initial transporter the appropriate placards according to United States Department of Transportation regulations for hazardous materials under 49 CFR Part 172, Subpart E.*
4. **Worker Right-to-Know Regulations (29 CFR 1910.1200)**  
*MD Anderson is subject to Worker Right-to-Know Regulations (29 CFR 1910.1200) and State Hazard Communication requirements. Laboratory Safety Inspection Programs and Maintenance Shop Safety Inspection Programs are in place. The EH&S Department provides mandatory training for facility personnel as well as annual training for research and clinical personnel.*

**5. Community Right-to-Know Regulations (40 CFR 350-372)**

MD Anderson has assessed the types and quantities of chemicals stored and used onsite to determine the applicability of the following federal and state regulatory programs and statutes:

**CHEMICAL MANAGEMENT AND RELEASE REPORTING LAWS AND REGULATIONS**

**Federal**

**State**

Emergency Planning and Community Right-to-Know Act (EPCRA)

TX Hazard Communication (TDH)

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA)

TNRCC Solid Waste Management

Clean Water Act (CWA)

Emergency Planning Community Right to Know Act (TDH)

Toxic Substances Control Act (TSCA)

SARA Title III

Resource Conservation and Recovery Act (RCRA)

Clean Air Act (CAA)

The Institution has developed and implemented a Hazard Materials Management Plan, a Hazardous Waste Contingency Plan, a waste minimization plan, a Laboratory Safety Management Plan, a Hazard Communication Plan, an EMS/Environmental Compliance Audit Inspection Program, a SPCC plan and a SWPPP plan. These programs and plans are accessible to the staff and UT System on MD Anderson's EMS website.

The Chemical Inventory for the Institution provides detailed information regarding onsite chemical storage. The Institution annually reviews the types and volumes of chemicals onsite and updates the chemical inventory accordingly.

The Toxic Substance Control Act (TSCA) Compliance Plan details a step-by-step procedure the research staff can utilize to comply with this EPA regulation.

Regulated toxic chemicals have been used at the Institution in excess of established thresholds. Therefore, the Institution is subject to Toxic Chemical Release Reporting requirements for certain toxic chemicals. The Institution submits Tier II Hazardous Chemical Inventory Forms to the TNRCC/TDH by March 1st of each year for regulated substances.

**6. Underground Storage Tank Regulations (40 CFR 280-282)**

MD Anderson's Environmental Health and Safety Department is responsible for the regulatory compliance of all underground (UST) and aboveground (AST) storage tanks. Compliance includes various program responsibilities such as tank registration, project management and documentation of tank removal, abandonment and consultation services for new tank installations.

**Other (you must list these if applicable)**

**7. Federal, State, tribal, or local regulations not listed above.**

TX Hazardous Communication (TDH)  
TNRCC Solid Waster Management  
Emergency Planning Community Right to Know Act (TDH)  
SARA Title III

**8. ID Numbers (specify whether State or Federal).**

**Solid Waste Management**

**Check all that apply.**

- 1. **Criteria for Classification of Solid Waste Disposal Facilities and Practices (40 CFR 257)**  
*Not applicable*
- 2. **Permit Requirements for Solid Waste Disposal Facilities**
- 3. **Installation of Systems of Refuse Disposal**
- 4. **Solid Waste Storage and Removal Requirements**
- 5. **Disposal Requirements for Special Wastes**  
*Not applicable*

**Other (you must list these if applicable)**

- 6. **Federal, State, tribal, or local regulations not listed above.**
- 7. **ID Numbers (specify whether State or Federal).**

## Water Pollution Control Requirements

**Check all that apply.**

1. **Oil Spill Prevention Control and Countermeasures (SPCC) (40 CFR 112)**  
*MD Anderson is subject to federal Spill Prevention, Control, and Countermeasures requirements and has developed a SPCC plan.*
2. **Designation of Hazardous Substances (40 CFR 116)**  
*The same as the descriptions in 40 CFR 302.*
3. **Determination of Reportable Quantities for Hazardous Substances (40 CFR 117)**  
*The same as the descriptions in 40 CFR 302.*
4. **NPDES Permit Requirements (40 CFR 122)**  
*MD Anderson's storm water discharge is currently covered under the Storm Water Pollution Prevention Plan. The Institution submitted a Notice of Intent to EPA HQ in June 2001 for coverage under the National Pollutant Discharge Elimination System for construction activities.*
5. **Toxic Pollutant Effluent Standards (40 CFR 129)**  
*Effluent limitations and monitoring, recording and reporting requirements are currently not applicable to the Institution's wastewater discharges.*  
  
*Samples are collected and analyzed by an approved contractor. Analyses are performed using the approved test methods established in 40 CFR 136.*
6. **General Pretreatment Regulations for Existing and New Sources (40 CFR 403)**  
*No process water discharge limits and monitoring requirements have been established because an Industrial User Permit is not currently required through the City of Houston's NPDES permitting process.*  
  
*MD Anderson discharges sanitary and process wastewaters to the Almeda-Sims wastewater treatment plant under normal operating condition and the Sims Bayou wastewater treatment plant during peak-flow conditions. The Institution discharges approximately 783,000 gallons of wastewater per day. MD Anderson is currently not subject to the City of Houston Industrial User Discharge Permit requirements.*  
  
*The following wastewaters are discharged to the POTW:*  
**Wastewater Stream Discharge Source/Process**  
  
*Sanitary Wastes  
Restrooms, Lavatories*  
  
*Process Wastes  
Dietary Services, Grounds and Landscape Services*  
  
*Low Level Radioactive Wastes  
Laboratories, Nuclear Medicine/Clinical*  
  
*Fire Suppression Systems  
Fixed System Blowdown/Testing*  
  
*Chillers, Condensers, HVAC Systems  
Contact/Non-Contact Sources*  
  
**Name of POTW** *Almeda-Sims Waste Water Treatment Plant*  
**ID # of POTW** *WQ0010495-003*

- 7. **Organic Chemicals Manufacturing Point Source Effluent Guidelines and Standards (40 CFR 414)**  
*Not applicable*
- 8. **Inorganic Chemicals Manufacturing Point Source Effluent Guidelines and Standards (40 CFR 415)**  
*Not applicable*
- 9. **Plastics and Synthetics Point Source Effluent Guidelines and Standards (40 CFR 416)**  
*Not applicable*
- 10. **Water Quality Standards**  
*M D Anderson obtains its drinking water from surface water that is treated and supplied by the City of Houston. The potable water supply system within MD Anderson is routinely sampled according the Potable Water Sampling Program.*
- 11. **Effluent Limitations for Direct Dischargers**  
*Not applicable*
- 12. **Permit Monitoring/Reporting Requirements**  
*Not applicable*
- 13. **Classifications and Certifications of Operators and Superintendents of Industrial Wastewater Plants**  
*Not applicable*
- 14. **Collection, Handling, and Processing of Sewage Sludge**  
*Not applicable*
- 15. **Oil Discharge Containment, Control and Cleanup**  
*MD Anderson maintains a SPCC plan*
- 16. **Standards Applicable to Indirect Discharges (Pretreatment)**  
*Not applicable*

***Other (you must list these if applicable)***

- 17. **Federal, State, tribal, or local regulations not listed above.**
- 18. **ID Numbers (specify whether State or Federal).**

## Drinking Water Regulations

**Check all that apply.**

- 1. **Underground Injection and Control Regulations, Criteria and Standards (40 CFR 144, 146)**  
*Not applicable*
- 2. **National Primary Drinking Water Standards (40 CFR 141)**  
*MD Anderson obtains its drinking water from surface water that are treated and supplied by the City of Houston. The potable water supply system including the emergency water well is routinely sampled according to the Potable Water Sampling Program.*
- 3. **Community Water Systems, Monitoring and Reporting Requirements (40 CFR 141)**  
*Not applicable*
- 4. **Permit Requirements for Appropriation/Use of Water from Surface or Subsurface Sources**  
*Source sampling*
- 5. **Underground Injection Control Requirements**  
*Not applicable*
- 6. **Monitoring, Reporting and Record keeping Requirements for Community Water Systems**  
*Not applicable*

**Other (you must list these if applicable)**

- 7. **Federal, State, tribal, or local regulations not listed above.**  
*30 TAC 290 subpart F  
Public Drinking Water*
- 8. **ID Numbers (specify whether State or Federal)**  
*TX#1013142*

## Toxic Substances

**Check all that apply.**

*M.D Anderson's Toxic Substance Control Act (TSCA) Compliance Plan details a step-by-step procedure the research staff can utilize to comply with this EPA regulation, specifically with Sections 8 c, 8e and the import/export requirements.*

- 1. **Manufacture and Import of Chemicals, Record-keeping and Reporting Requirements (40 CFR 704)**
- 2. **Import and Export of Chemicals (40 CFR 707)**
- 3. **Chemical Substances Inventory Reporting Requirements (40 CFR 710)**
- 4. **Chemical Information Rules (40 CFR 712)**
- 5. **Health and Safety Data Reporting (40 CFR 716)**
- 6. **Pre-Manufacture Notifications (40 CFR 720)**
- 7. **PCB Distribution Use, Storage and Disposal (40 CFR 761)**
- 8. **Regulations on Use of Fully Halogenated Chlorofluoroalkanes (40 CFR 762)**
- 9. **Storage and Disposal of Waste Material Containing TCDD (40 CFR 775)**

**Other (you must list these if applicable)**

- 10. **Federal, State, tribal, or local regulations not listed above.**
- 11. **ID Numbers (specify whether State or Federal).**

## Pesticide Regulations

Check all that apply.

1. **FIFRA Pesticide Use Classification (40 CFR 162)**  
*The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), first passed in 1947 following discovery of synthetic organic pesticides, was amended significantly in 1972 by the Federal Environmental Pesticide Control Act. The act, further amended in more recent years, is administered and enforced by EPA. State laws have been changed to include regulation of all pesticide use. Pest control services at M D Anderson Cancer Center are In accordance with state rules and regulations by the Structural Pest Control Board of Texas (SPCB) and the Texas Department of Agriculture (TDA).*
2. **Procedures Storage and Disposal of Pesticides and Containers (40 CFR 165)**  
**Storage** - Pesticides at MD Anderson are stored in a dry, ventilated area at 1102 St. Agnes. In accordance with the requirement of the Texas Pesticide Control Act, this storage area has limited access and its use is for those who hold applicator licenses from the Structural Pest Control Board of Texas and / or the Texas Department of Agriculture.  
**Disposal** -Pesticide containers are to be disposed of as directed on the label or by any other method approved by the Texas Department of Agriculture (empty containers are disposed in regular trash after triple rinse and punched to inhibit further use.) Certain waste pesticides are considered "hazardous waste", disposal of which is subject to regulation under authority of the Resource conservation and Recovery Act (RCRA) and the Texas Solid Waste Disposal Act. The Texas Natural Resource Conservation Commission (TNRCC) administers the Texas solid Waste disposal Act.
3. **Certification of Pesticide Applications (40 CFR 171)**  
*Pesticide applicators at M.D Anderson hold non-commercial license by the Structural Pest Control Board of Texas and / or the Texas Department of Agriculture. Certification is provided by the Structural Pest Control Board of Texas and /or the Texas Department of Agriculture.*
4. **Pesticide Licensing Requirements**  
*Texas Control Pest Control Act (TPCA) repeals and replaces the Insecticide, Fungicide, and Rodenticide Act of Texas. Among other features, it incorporates certification requirements of commercial applicators as mandated by federal law. The state law also established an additional category of pesticide applicators the non-commercial pesticide applicator. The Texas Pesticide Control Regulations further define the requirements of the Texas Pesticide Control Act.  
The Texas Department of Agriculture is designated as the lead agency for developing and implementing the State of Texas Plan for certification of Pesticide Applicators.*
5. **Labeling of Pesticides**  
*General procedure for use of pesticides is on MD Anderson's EMS website. The directions for pesticide specimen labels are followed .A pesticide label is an end product of discovery, research, development and the federal and state registration process. Labeling requirements are part of registering a pesticide with EPA and the TDA. Federal laws define the label as the written, printed or graphic matter on, or attached to, the pesticide or any of its containers or wrappers. Labeling includes the label and other information such as brochures, flyers and other materials referenced on the label or accompanying the label at any time.*
6. **Pesticide Sales, Permits, Records, Application and Disposal Requirements**  
**Records** - The business licensee must keep and maintain a record of all uses of pesticides for a period of 2 years. These records are to be kept on the premise of either the business licensee or the certified applicator licensee. A designation will be made as to who will keep the records on the application for a business license or certified applicator license or renewal of such license. The records will include, but are not limited to, routine operational data; which includes the kinds of pesticides used, the amounts of pesticides used, purpose for which the pesticides were used, the date the pesticides were used, and the location where the pesticides were used, and shall be kept in a clear concise manner. These records must be made available to the board or its authorized agents in accordance with the act as amended. **Application** - An awareness of the potential for environmental harm illustrates the need for using pesticides in a manner consistent with minimal adverse environmental effects. This is characterized by proper selection, use and timing and the skill of the applicator in directing the pesticide to the target in accordance will all label directions an due consideration of local environmental situations.

