



OMB No. 2010-0032  
Expiration Date 08/30/06

## Performance Track Membership Application

**Southeastern Connecticut Resource Recovery Facility**  
**American Ref-Fuel Company of Southeastern**  
**Connecticut**  
A010051

See Section C..... APPLICATION COMMITMENTS  
Yellow Below

Highlighted in

## CONTACT INFORMATION

Name of your facility:

Southeastern Connecticut Resource Recovery Facility

Name of your parent company (if any):

American Ref-Fuel Company of Southeastern Connecticut

### Facility location

Street Address: 132 Military Highway

Address Cont:

City: Preston

State: CT

Zip Code: 06365

If your facility has multiple street addresses,  
please list any other addresses for its sites or buildings.

### Contact Information

Name: Mr. Anthony Dell'Anno  
Title: Environmental Manager  
Phone: 508-291-4420  
Fax: 508-291-1522  
Email: anthony.dellanno@ref-fuel.com  
Facility/Company: ref-fuel.com  
Website:

### Mailing Address (if different from facility location)

Street Address:  
Address Cont:  
City:  
State:  
Zip Code:

## SECTION A: TELL US ABOUT YOUR FACILITY

1. How did you learn about Performance Track? (select all that apply)

Through a trade association  
Internally within your company

2. What do you do or make at your facility?

American Ref-Fuel Company of Southeastern Connecticut (Ref-Fuel) owns and operates the Southeastern Connecticut Resource Recovery Facility (Facility). The Facility consists of two mass burn municipal waste combustors that process solid waste for volume reduction and energy recovery in a safe and environmentally sound manner. Solid waste combusted at the Facility is reduced to ash at 10% of its original volume with ferrous material being recovered for recycling. Ash residue is disposed of at a modern landfill designed with a ground water protection system consisting of a double liner system and a leachate collection system. Energy recovery occurs through heat release from the combustion process. This energy is captured by the Facility in its boilers to produce steam that is then sent to a turbine for electrical power generation that is exported to the local power grid. The electrical power exported by the Facility is enough to power approximately 16,000 households. Each of the Facility's combustor units is equipped with state-of-the-art air pollution control equipment including a spray dryer absorber, fabric filter, powdered

activated carbon injection system and a selective non-catalytic reduction system (urea injection).

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

562213 221119

4. Number of employees (full-time equivalents) who currently work in the facility:

Fewer than 50

5. Identify the environmental requirements that apply to your facility by completing the Environmental Requirements Checklist following Section E of this application. If there is something else that you would like to tell us about your facility, e.g, receipt of environmental awards, participation in other voluntary programs at the local, tribe, state, or Federal level, please describe them in the space below.

Ref-Fuel is a participant in OSHA's Voluntary Protection Program (VPP). The Facility was awarded STAR designation under the VPP in 1995 and recertified in 1998 and 2003. Additionally, the Facility has been recognized by the Connecticut DEP in 1998 through issuance of the Green Circle Award to Ref-Fuel for its stormwater reuse project. Finally, the Connecticut Business and Industry Association has recognized Ref-Fuel as a leader in environmental and safety management by issuing their Environmental and Safety Success Awards in 1998.

6. Is your facility currently a member of a state voluntary environmental leadership program?

No

If yes: What is the name and level of the program?

If No: (For Colorado, Georgia, Texas, Utah and Virginia applicants only) Your facility can simultaneously apply to Performance Track and your state's voluntary environmental leadership program. Do you want to apply now to both programs?

No

## SECTION B: TELL US ABOUT YOUR EMS

1. Tell us if your EMS meets these requirements for:

Environmental policy:

Yes

Planning:

Yes

Implementing and operation:

Yes

Checking and corrective action:

Yes

Management review:

Yes

2. 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
3. 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
4. When did you last update your aspect analysis? (mo/yr):  
August 2004
5. Have you completed at least one EMS cycle (plan-do-check-act)?:  
Yes
6. Did this cycle include both an EMS and a compliance audit?:  
Yes
7. Have you completed an independent assessment of your EMS in conformance with the Performance Track Independent EMS Assessment Criterion?  
Yes  
  
If yes, what method of EMS assessment did you use?:  
Other : Third party review
8. Is your facility certified to the American Chemistry Council's Responsible Care Program?  
No
9. What was the date of your last assessment? (mo/yr):  
April 2002
10. Who performed this assessment?

## SECTION C: PAST ACHIEVEMENTS

### First Achievement

**1a.** What category have you selected from the Environmental Performance Table?

Water Use

**1b.** What indicator have you selected from the Environmental Performance Table?

Total Water Use

**1c.** Please provide any additional detail to describe your indicator (e.g., specific hazardous waste component, specific chemical that was reduced)

Most stormwater collected at the Facility is no longer discharged to surface waters but instead is used for Facility operations. This project reduces potential pollution to surface waters and reduces the amount of city supplied raw water needed to maintain Facility operations.

**1d.** What activities or process changes did you undertake at your facility to accomplish your commitment (e.g., technology changes in a particular process line, employee training)?

In 2002, Ref-Fuel expanded the Facility's existing stormwater reuse system, thereby further reducing the need to use clean raw water, supplied by the City of Norwich, CT, as process water. Specifically, stormwater runoff collected from several catch basins located at, and just beyond, the Facility's entrance was connected into the existing stormwater collection system so that it could be reused by the Facility as process water. Stormwater runoff from this area was originally discharged to the environment where it would ultimately enter the Thames River. Since the Facility is an industrial site that accepts a significant amount of truck traffic, there is a potential that the stormwater runoff from this area and these catch basins contain contaminants that would impact stormwater quality. Although the Facility has a stormwater reuse system, it still maintains a General Permit to discharge stormwater from an industrial activity in the event significant rainfall events occur that produce excessive stormwater beyond the Facility's capacity to retain prior to use. To date, however, virtually all of the stormwater collected at the Facility is reused within the Facility as process water thereby conserving the need to use clean water from local public water supplies.

		Past	Current
<b>2a.</b>	Please provide information for these calendar years.	2001	2003
<b>2b.</b>	List the past annual quantity of the indicator (from two years ago) and the current annual quantity of the indicator (from the most recent year for which you have data).	103,378,000	104,802,000
<b>2c.</b>	What units are you using to quantify this indicator?	Gallons	
<b>2d.</b>	Estimate your past normalizing factor.	0.9400	1.0
<b>2e.</b>	What is your normalizing factor based on? (e.g., production, employment)	The normalizing factor in 2d is based on solid waste processed in the past year divided by solid	

## SECTION C: Application Commitments

### Commitment 1

1a What category have you selected from the Environmental Performance Table? Energy Use

1b What indicator have you selected from the Environmental Performance Table? Transportation energy use

1c Does your commitment include everything covered by the indicator (e.g., all VOCs, all non-hazardous waste), or a specific substance or component (e.g., ethane, cardboard)? All measurements should represent the performance level for the indicator across the entire facility. For many indicators, however, you may choose to focus your commitment on a specific subset of the indicator, e.g. a specific material, a specific group of toxic air emissions, a particular waste component, a specific VOC, etc. Specific

If your commitment is to a specific substance or component, please provide additional detail on your indicator (e.g., specific chemical to be reduced, specific waste component).

This commitment is specific to diesel fuel consumption at the Facility.

1d What activities or process changes do you plan to undertake at your facility to accomplish your commitment (e.g., technology changes in a particular process line, employee training)?

Ref-Fuel proposes to purchase fuel conditioning devices from the Rentar Environmental Solutions (Rentar) and install them on two of the Facility's front-end loaders (Volvo L-120 and Volvo L-90). These devices are expected to yield improved engine efficiencies and thereby reduce diesel fuel usage and the tailpipe emissions from these front-end loaders. As such, the use of this device is expected to reduce diesel fuel usage and the tailpipe emissions from these front-end loaders. The technology involves

passing the fuel through a catalyst device that contains a combination of metallic and earth elements which oxygenate the fuel prior to combustion.

Based on discussions with Rentar and Ref-Fuel's assessment of the technology, the Facility should achieve a 5 percent reduction in the amount of diesel fuel used by the two front-end loaders that will have this device installed. These loaders are operated approximately 6 days a week at the Facility.

With respect to a reduction of tailpipe emissions, a study completed by Ref-Fuel at another of its facilities in 2003/2004 tested the Rentar devices and it showed reductions in tailpipe emissions. The results of the emissions testing were submitted to the Massachusetts Department of Environmental Protection and showed a 75.9% reduction for carbon monoxide (CO), a 43.6% reduction for carbon dioxide (CO<sub>2</sub>), a 47.1% reduction of nitrogen oxide (NO<sub>x</sub>), and a 51.6% reduction for particulate matter (PM) greater than 2 microns. These reduction values represent the average emission reduction of all vehicles tested.

This Commitment has been listed only once even though it should reduce both diesel fuel usage and air emissions from the two front-end loaders operated at the Facility

2a Does this commitment address a significant aspect in your EMS?

If no, please explain why you believe 2b this indicator should be included as a performance commitment.

No

The installation of a fuel catalytic device on two of the Facility's loaders should reduce the amount of diesel

fuel they combust and it will also have the benefit of reducing the emissions generated by their diesel engines. Some of these emissions, e., g., CO2, NOx, are considered significant by the Facility's aspect analysis.

	Baseline	Future
3a Please provide information for these calendar years.	2003	2007
3b What units are you using to quantify this indicator?	gallons	
3c List the baseline annual quantity of the indicator and the annual quantity you are committed to achieve by the future year.	11,033	10,696

4 Does the quantity presented in the future quantity column represent an absolute goal or a normalized goal? Absolute goal (i.e., demonstrates improvement even if production increases)

Whether your goal is absolute or normalized, in your annual performance reports you will need to provide normalizing factors and normalized quantities of your annual data.

5 In the textbox to the right, please briefly describe your basis for normalizing. Examples of potential normalizing bases include: Normalization is based on the annual tons of solid waste processed by the facility. Please note that the basis for the normalization is difficult to determine because these vehicles are constantly operating and to a large extent are independent of variations in facility operations.

- gallons of paint produced
- square feet of circuit boards sold
- number of patients seen
- dollars of sales adjusted for inflation
- number of employees (for R&D and administrative sites only)

Are you subject to Federal, State, Tribal, or local regulatory requirements for this indicator? No

If yes, please list those requirements, including the quantitative limits and compliance deadlines that apply to you. Explain how your commitment exceeds requirements.

The installation of a fuel catalytic device on two of the Facility's loaders should reduce the amount of diesel fuel they combust and it will also have the benefit of reducing the emissions generated by their diesel engines. Some of these emissions, e., g., CO2 and NOx, are considered significant in the Facility's Aspect Analysis.

## Commitment 2

1a What category have you selected from the Environmental Performance Table? Water Use

1b What indicator have you selected from the Environmental Performance Table? Total water used

Does your commitment include everything covered by the indicator (e.g., all VOCs, all non-hazardous waste), or a specific substance or component (e.g., ethane, cardboard)? All measurements should represent the performance level for the indicator across the entire facility. All

1c For many indicators, however, you may choose to focus your commitment on a specific subset of the indicator, e.g. a specific material, a specific group of toxic air emissions, a particular waste component, a specific VOC, etc.

1d What activities or process changes do you plan to undertake at your facility to accomplish your commitment (e.g., technology changes in a particular process line, employee training)?

Ref-Fuel proposes to connect the employee parking lot to the Facility's stormwater collection system so that the stormwater runoff from this area can be collected, stored, and used within the Facility as process water. This project will allow the Facility to reuse additional amounts of stormwater, thereby further reducing the need to use clean raw water, supplied by the City of Norwich, CT, was process water. Additional details are described above in the first achievement section.

This project will involve the services of an

outside contractor to excavate an area for a catch basin and drainage pipe to direct the stormwater, by gravity feed, from the employee parking lot to the Facility's stormwater collection system.

This project will further expand the Facility's stormwater reuse system so that stormwater collected in the employee parking lot are directed to the detention basis and can be used at the Facility.

2a Does this commitment address a significant aspect in your EMS? Yes

If no, please explain why you believe this indicator should be included as a performance commitment.

	Baseline	Future
3a Please provide information for these calendar years.	2003	2007
3b What units are you using to quantify this indicator?	Gallons	
3c List the baseline annual quantity of the indicator and the annual quantity you are committed to achieve by the future year.	104,802,000	104,552,000

4 Does the quantity presented in the future quantity column represent an absolute goal or a normalized goal? Absolute goal (i.e., demonstrates improvement even if production increases)

5 Whether your goal is absolute or normalized, in your annual performance reports you will need to provide normalizing factors and normalized quantities of your annual data. Normalization is based on the annual tons of solid waste processed by the facility. Note, however, that the reduction of raw water is dependent on the amount of stormwater collected, stored and reused by the facility, which is subject to the amount, duration, and intensity of future rainfall events. The uncertainty in the amount of stormwater available for reuse may influence the normalization of this estimated absolute goal.

In the textbox to the right, please

briefly describe your basis for normalizing. Examples of potential normalizing bases include:

- gallons of paint produced
- square feet of circuit boards sold
- number of patients seen
- dollars of sales adjusted for inflation
- number of employees (for R&D and administrative sites only)

6a Are you subject to Federal, State, Tribal, or local regulatory requirements for this indicator? No

6b If yes, please list those requirements, including the quantitative limits and compliance deadlines that apply to you. Explain how your commitment exceeds requirements.

Attachments (if applicable) :

**SECTION D: Tell us about your public outreach and reporting.**

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

Ref-Fuel has worked diligently to be an active member of the community it serves. We have sponsored a number of community activities including a college scholarship program, youth sports team sponsorship, United Way employee matching funds program. We maintain a 24-hour telephone communication system so that community concerns can be registered and a follow-up response can be provided. We have conducted a number of open house events that allow the public an opportunity to visit and tour our Facility. We also conduct Facility tours for area high schools, colleges, and universities as well as community groups.

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

Local leaders are informed about Facility activities that impact the community through participation in the Southeastern Connecticut Regional Resources Recovery Authority (SCRRA) board meetings. These meetings occur on a monthly basis with each member community having representation at the meeting. Ref-Fuel personnel participate in the meeting to provide updates on the Facility (including environmental performance) and to respond to concerns raised during the meeting. Significant maintenance activities at the Facility are coordinated through the local Fire Marshals Office. Connecticut state regulatory personnel are notified of major Facility shutdowns.

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

Other

Please Specify Other: Performance Track Annual Reports will be made public to the SCRRA board members, EPA Performance Track website and to the public upon request.

4. Are there any ongoing citizen suits against your facility?

No

If yes, describe briefly below:

5. List references below:

Representative of a Community/ Citizen Group

Organization: Southeastern Connecticut Regional Resource Recovery Authority

Name: Gerald Tyminski, Executive Director  
Phone: 860-887-9643

State/tribal/local regulator

Organization: Connecticut Department of Environmental Protection  
Name: Ronald Freeto, Permit Engineer  
Phone: 860-424-3392

Other community/local reference

(e.g., emergency management official or business associate)

Organization: Town of Preston, Connecticut  
Name: Robert Congdon, First Selectman  
Phone: 860-887-5581

## SECTION E: Application and Participation Statement

On behalf of Southeastern Connecticut Resource Recovery 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.