



A04-0061 10/31/01

***National
Environmental
Achievement Track***

Application Form

John C. Stennis Space Center

Name of facility

National Aeronautics and Space Administration

Name of parent company (if any)

Code RA02

Street address

Building 1100, Room 3012

Street address (continued)

Stennis Space Center/MS/39529

City/State/Zip code

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

Name Ronald G. Magee

Title Environmental Officer

Phone 228-688-7384

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E-mail ronald.magee@ssc.nasa.gov

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?

Stennis Space Center (SSC) tests and flight certifies rocket propulsion systems for current and future space vehicles and provides test services for government and commercial customers. SSC also conducts a broad range of remote sensing applications research and development projects. NASA manages SSC as a major government multi-agency center.

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

SIC
9661

NAICS

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?

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

5 Does your facility have an EPA ID number(s)?

Yes No

If yes, list in the right-hand column.

MS800016123

6 Identify the environmental requirements that apply to your facility. Use the Environmental Requirements Checklist, at the back of the instructions, as a reference. List your requirements to the right **or** enclose a completed Checklist with your application.

7 Check the appropriate box in the right-hand column.

I've listed the requirements above.
 I've enclosed the Checklist with my application.

8 Optional: Is there anything else you would like to tell us about your facility?

Stennis Space Center (SSC) is located near the Gulf of Mexico in western Hancock County, Mississippi, approximately 55 miles northeast of New Orleans. The facility is situated 30.38 north latitude and 89.60 west longitude at its centerpoint. In May 1962, the Federal government acquired approximately 13,800 acres that constitute the "Fee Area", or confines within the gates of SSC. Within this area, NASA along with numerous Federal and State agencies have constructed administrative, research, remote sensing, and propulsion testing facilities. The latter activity is restricted to NASA and is the major function of the center. SSC has been named NASA's Lead Center for propulsion testing. Rocket testing operations necessitated development of a "Buffer Zone" for safety and acoustic considerations. A perpetual restrictive easement on 125,000 acres was acquired, which extends six miles in all directions of the Fee Area. The majority of the Buffer Zone is located in Hancock County, Mississippi, although portions extend into Pearl River County, Mississippi and St. Tammany Parish, Louisiana. The region is bounded on the east and west by the Pearl River and Jourdan River watersheds, respectively. At present, the government owns 6,808 acres of the Buffer Zone with the remainder being held by individuals or corporations. Provisions of the restrictive

easement prohibit maintenance or construction of dwellings and other buildings suitable for human habitation. Predominant land use in the Buffer Zone includes sand and gravel mining, timber production, raising livestock, and recreational pursuits such as hunting and fishing.

Section B

Tell us about your EMS.

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 Achievement Track requirements.
- Tell us if you have completed a self-assessment or have had a third-party assessment of your EMS.

1 Check **yes** if your EMS meets the requirements for each element below as defined in the instructions.

- a.* Environmental policy Yes
- b.* Planning Yes
- c.* Implementation and operation Yes
- d.* Checking and corrective action Yes
- e.* Management review Yes

2 Have you completed at least one EMS cycle (plan-do-check-act)? Yes

3 Did this cycle include both an EMS and a compliance audit? Yes

4 Have you completed an objective self-assessment or third-party assessment of your EMS? Yes

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

- Self-assessment
- GEMI Other
- CEMP
- Third-party assessment
- ISO 14001 Certification
- Other

Section C

Tell us about your past achievements and future commitments.

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.

1 Describe your past achievements for at least two environmental aspects. If you need more space than is provided, attach copies of this page.

Note to small facilities: If you qualify as a small facility as defined in the instructions, you need to report past achievement for at least one environmental aspect.

First aspect you've selected

What aspect have you selected?	What was the previous level (2 years ago)?		What is the current level?	
	Quantity	Units	Quantity	Units
Remediation	0	acres	25.45	acres
<p>i. How is the current level an improvement over the previous level?</p> <p>We have completed the Remedial Investigations and Feasibility Studies (RI/FS) on seven clean-up sites (44.45 acres) and have implemented remediation at 5 sites (25.45 acres). We are presently finalizing RI/FSs for two other sites (61 acres). Each site is unique and the number of acres per site varies.</p>				
<p>ii. How did you achieve this improvement?</p> <p>We developed a funding plan to provide an accelerated schedule to implement remediation as soon as possible. A Memorandum of Agreement was developed with the State of Mississippi to foster communication allowing a rapid "turn around" on the review of documents by regulators. NASA is a member of the Mississippi Remediation Tier II team which is composed of other major federal facilities, the Mississippi Department of Environmental Quality and the Environmental Protection Agency Region IV.</p>				

Second aspect you've selected

What aspect have you selected?	What was the previous level (2 years ago)?		What is the current level?	
Emissions of Ozone Depleting Gases	Quantity	Units	Quantity	Units
	1,280	lbs	0	
i. How is the current level an improvement over the previous level?				
We no longer have emissions of 1,1,1, Trichloroethane from a degreaser.				
ii. How did you achieve this improvement?				
The component processing facility is now using an aqueous cleaner rather than a vapor degreaser to clean parts.				

2 Select at least four environmental aspects (no more than two from any one category) from the Environmental Performance Table in the instructions and then tell us about your future commitments. If you need more space than is provided, attach copies of this page.

Note to small facilities: If you are a small facility, you need to make commitments for at least two environmental aspects in two different categories.

First aspect you've selected

a. What is the aspect? Total Energy Use

b. Is this aspect identified as significant in your EMS? Yes No

c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.

Option A:
Absolute value 85% Power Factor
(Quantity/Units)

Option B:
In terms of units of production or output (Quantity/Units)

d. What is the level you are committing to achieve over the next three years? You may choose to state this as an absolute level or in terms of units of production or output.

- Option A:
Absolute value 99% Power Factor
(Quantity/Units)
- Option B:
In terms of
units of production (Quantity/Units)
or output

e. How will you achieve this improvement?

Power factor is the ratio of power (watts or kilowatts) to the product of voltage and current (volt-amperes or kilovolt-amperes). It is the ratio of real power to apparent power, and can be assumed to be a measure of efficiency of the power delivery system. Since real power is energy we use to make light and turn motors, the greater the power factor, the greater the efficiency of the system, and the smaller the energy losses are.

Second aspect you've selected

a. What is the aspect?

Hazardous Solid Waste

b. Is this aspect identified as significant in your EMS?

Yes No

c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.

- Option A:
Absolute value 46,472 lbs/year
- Option B:
In terms of
units of production (This includes an estimate of
the December 2001
shipment of hazardous
waste)
(Quantity/Units)
or output (Quantity/Units)

d. What is the level you are committing to achieve over the next three years? You may choose to state this as an absolute level or in terms of units of production or output.

- Option A:
Absolute value 41, 824 lbs/year
(Quantity/Units)
- Option B:
In terms of
units of production (Quantity/Units)
or output

e. How will you achieve this improvement?

We are compiling information about chemicals that are used, wastes that are generated and disposed which are the result of Stennis Space Center Operations for a baseline year of 2001. By implementing various pollution prevention opportunities throughout the site in shops and laboratories we anticipate reducing hazardous waste by 10% within the next three years.

Third aspect you've selected

a. What is the aspect?

Total Solid Waste

b. Is this aspect identified as significant in your EMS?

Yes No

c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.

Option A:
Absolute value 150,000 lbs/month
(Quantity/Units)

Option B:
In terms of
units of production
or output (Quantity/Units)

d. What is the level you are committing to achieve over the next three years? You may choose to state this as an absolute level or in terms of units of production or output.

Option A:
Absolute value 142,500 lbs/month
(Quantity/Units)

Option B:
In terms of
units of production
or output (Quantity/Units)

e. How will you achieve this improvement?

We plan to use awareness training on the Pollution Prevention Plan to enhance recycling activity for paper and cardboard and encourage source reduction opportunities by individuals. Growth of SSC over the next five years will double the employee population so total solid waste may increase although actual waste per person will decrease. This should reduce total solid waste by 5% over the next three years. We will start with a baseline year of 2001.

Fourth aspect you've selected

a. What is the aspect?

Removal

b. Is this aspect identified as significant in your EMS?

Yes No

c. What is the current level? You may choose to state this as an absolute value or in terms of units of production or output.

Option A:
Absolute value 0 cubic feet
(Quantity/Units)

Option B:
In terms of
units of production
or output (Quantity/Units)

d. What is the level you are committing to achieve over the next three years? You may choose to state this as an absolute level or in terms of units of production or output.

Option A:
Absolute value 1.045 million cubic feet
(Quantity/Units)

Option B:
In terms of
units of production
or output (Quantity/Units)

e. How will you achieve this improvement?

We are removing unexploded ordnance to a depth of four feet from an area measuring approximately 6 acres.

Section D

Tell us about your public outreach and reporting.

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?

We identify community concerns by being involved in local community and civic groups, by holding public meetings, and by accepting questions and comments through our Public Affairs Office. We respond to those concerns by telephone, letter, or by comment through the news media.

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

We hold public meetings, make announcements in the local newspaper, release information through our Public Affairs Office to the news media, public libraries, and provide information on our environmental web site.

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

- Website www.ssc.nasa.gov/environmental
- Newspaper
- Open Houses
- Other

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>	Hancock County Chamber of Commerce	Sue Chamberlain	228-467-9048
<i>State/Local Regulator</i>	Mississippi Department of Environmental Quality	Charles Chisolm or Phil Bass	601-961-5000 601-961-5100
<i>Other community/local reference</i>	Local Emergency Planning Commission	Lynette Carbon	228-467-9226

Section E

Application and Participation Statement.

On behalf of John C. Stennis Space Center
[my facility],

I certify that

- I have read and agree to the terms and conditions, as specified in the *National Environmental Achievement Track Program Description* and in the *Application Instructions*;
- I have personally examined and am familiar with the information contained in this Application (including, if attached, 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 Achievement 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 Achievement 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 Williams Parsons
Director of Center Operations and Support Directorate

Facility Name John C. Stennis Space Center

Facility Street Address Building 1100

Facility ID Numbers MS800016123

National Environmental Achievement Track

Environmental Requirements Checklist

We've included the following Checklist to help you answer questions in Section A, Tell us about your facility. The 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.

If you use this Checklist and choose to submit it with your application, fill in your facility information below and enclose the completed Checklist with your application (see instructions).

Air Pollution Regulations

Check All That Apply

- 1. National Emission Standards for Hazardous Air Pollutants (40 CFR 61)
- 2. Permits and Registration of Air Pollution Sources
- 3. General Emission Standards, Prohibitions and Restrictions
- 4. Control of Incinerators
- 5. Process Industry Emission Standards
- 6. Control of Fuel Burning Equipment
- 7. Control of VOCs
- 8. Sampling, Testing and Reporting
- 9. Visible Emissions Standards
- 10. Control of Fugitive Dust
- 11. Toxic Air Pollutants Control
- 12. Vehicle Emissions Inspections and Testing

- 13. Other (you must list these) Federal, State, Tribal or Local Regulations Not Listed Above

Hazardous Waste Management Regulations

Check All That Apply

- 1. Identification and Listing of Hazardous Waste (40 CFR 261)
 - Characteristic Waste
 - Listed Waste
- 2. Standards Applicable to Generators of Hazardous Waste (40 CFR 262)
 - Manifesting
 - Pre-transport requirements
 - Record keeping/reporting
- 3. Standards Applicable to Transporters of Hazardous Waste (40 CFR 263)
 - Transfer facility requirements
 - Manifest system and record-keeping
 - Hazardous waste discharges
- 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
- 5. Interim Standards for TSD Owners and Operators (40 CFR 265)
- 6. Interim Standards for Owners and Operators of New Hazardous Waste Land Disposal Facilities (40 CFR 267)
- 7. Administered Permit Program (Part B) (40 CFR 270)
- 8. Other (you must list these) Federal, State, Tribal or Local Regulations Not Listed Above

Hazardous Materials Management

Check All That Apply

- 1. Control of Pollution by Oil and Other Hazardous Substances (33 CFR 153)
- 2. Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302)
- 3. Hazardous Materials Transportation Regulations (49 CFR 172-173)
- 4. Worker Right-to-Know Regulations (29 CFR 1910.1200)
- 5. Community Right-to-Know Regulations (40 CFR 350-372)
- 6. Other (you must list these) Federal, State, Tribal or Local Regulations Not Listed Above

Solid Waste Management

Check All That Apply

- 1. Criteria for Classification of Solid Waste Disposal Facilities and Practices (40 CFR 257)
- 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
- 6. Other (you must list these) Federal, State, Tribal or Local Regulations Not Listed Above

Water Pollution Control Requirements

Check All That Apply

- 1. Oil Spill Prevention Control and Countermeasures (SPCC) (40 CFR 112)
- 2. Designation of Hazardous Substances (40 CFR 116)

- 3. Determination of Reportable Quantities for Hazardous Substances (40 CFR 117)
- 4. NPDES Permit Requirements (40 CFR 122)
- 5. Toxic Pollutant Effluent Standards (40 CFR 129)
- 6. General Pretreatment Regulations for Existing and New Sources (40 CFR 403)
Name of POTW
ID # of POTW
- 7. Organic Chemicals Manufacturing Point Source Effluent Guidelines and Standards (40 CFR 414)
- 8. Inorganic Chemicals Manufacturing Point Source Effluent Guidelines and Standards (40 CFR 415)
- 9. Plastics and Synthetics Point Source Effluent Guidelines and Standards (40 CFR 416)
- 10. Water Quality Standards
- 11. Effluent Limitations for Direct Dischargers
- 12. Permit Monitoring/Reporting Requirements
- 13. Classifications and Certifications of Operators and Superintendents of Industrial Wastewater Plants
- 14. Collection, Handling, and Processing of Sewage Sludge
- 15. Oil Discharge Containment, Control and Cleanup
- 16. Standards Applicable to Indirect Discharges (Pretreatment)
- 17. Other (you must list these) Federal, State, Tribal or Local Regulations Not Listed Above

Drinking Water Regulations

Check All That Apply

- 1. Underground Injection and Control Regulations, Criteria and Standards (40 CFR 144, 146)
- 2. National Primary Drinking Water Standards (40 CFR 141)
- 3. Community Water Systems, Monitoring and Reporting Requirements (40 CFR 141)
- 4. Permit Requirements for Appropriation/Use of Water from Surface or Subsurface Sources
- 5. Underground Injection Control Requirements
- 6. Monitoring, Reporting and Record keeping Requirements for Community Water Systems
- 7. Other (you must list these) Federal, State, Tribal or Local Regulations Not Listed Above

Toxic Substances

Check All That Apply

- 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)

- 10. Other (you must list these) Federal, State, Tribal or Local Regulations Not Listed Above

Pesticide Regulations

Check All That Apply

- 1. FIFRA Pesticide Use Classification (40 CFR 162)
- 2. Procedures Storage and Disposal of Pesticides and Containers (40 CFR 165)
- 3. Certification of Pesticide Applications (40 CFR 171)
- 4. Pesticide Licensing Requirements
- 5. Labeling of Pesticides
- 6. Pesticide Sales, Permits, Records, Application and Disposal Requirements
- 7. Disposal of Pesticide Containers
- 8. Restricted Use and Prohibited Pesticides

- 9. Other (you must list these) Federal, State, Tribal or Local Regulations Not Listed Above

Environmental Clean-Up, Restoration, Corrective Action

Check All That Apply

- 1. Comprehensive Environmental Response, Compensation and Liability Act (Superfund) (Please identify)
Preliminary Assessments indicate that we do not have any NPL sites. We identified Federal and State Applicable or Relevant and Appropriate Requirements (ARARs) as required by Section 121(d) of the CERCLA.

- 2. RCRA Corrective Action

- 3. Other (you must list these) Federal, State, Tribal or Local Regulations Not Listed Above

State Requirements: Mississippi Groundwater Quality Standards establish requirements to preserve the quality of groundwater as a drinking water source. Mississippi MCLs for groundwater are used to determine the permissible level of contamination at the sites.

Facility Name John C. Stennis Space Center
Facility Location: Stennis Space Center, MS
Facility ID Number(s): MS800016123

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. Mail completed applications to:

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