National Environmental Achievement Track

Application Form

IBM Endicott

Name of facility

International Business Machines Corporation

Name of parent company (if any)

1701 North Street

Street address

Street address (cont.)

Endicott, New York 13760

City/State/Zip code

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

Name **Paul A. Speranza**

Title **Manager, Environmental and Chemical Programs**

Phone **607-755-6179**

Fax **607-755-7867**

E-mail **speranza@us.ibm.com**

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?

The Endicott site develops and manufactures microelectronic interconnect products including printed wiring boards and high performance chip carriers.

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

3672 3674 3679

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

Section A, continued

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

If yes, list in the right-hand column.

[X] Yes [ ] No

NYD002233039

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.

See attached checklist

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

[ ] I've listed the requirements above.

[X] I've enclosed the Checklist with my application.

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

IBM Endicott Site has recently won 2 New York State Governor's Awards for environmental excellence.

In 1996, IBM Endicott won the NY State Governor's Waste Reduction and Recycling Award for Excellence for recycling cathode ray tube computer monitors and plastics diverting significant waste volumes from landfilling.

In 1999, IBM Endicott won the NY State Governor's Award for Pollution Prevention for implementing a new Thin Panel Plating copper process which reduces consumption of chemicals, waste generation , air emissions and energy consumption.

Section B

Tell us about your EMS

Why do we need this information?
Facilities must 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	X	Yes
b. Planning	X	Yes
c. Implementation and operation	X	Yes
d. Checking and corrective action	X	Yes
e. Management review	X	Yes

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

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

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

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

X Self-assessment

Note 1: IBM Professional Self Assessment - Internal Protocol, and Location Internal EMS (ISO 14001) Audits

GEMI X Other See Note 1

CEMP _____

X Third-party assessment

X ISO 14001 Certification - Bureau Veritas Quality International Inc. (BVQI), Rec'd 12/9/97

Note 2: IBM Corporate Internal Audit - Independent Audit Organization within IBM

X Other See Note 2

Section C

Tell us about your past achievements and future commitments

Why do we need this information?
Facilities must 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 are required 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)? (1997)		What is the current level? (1999)	
	Quantity	Units	Quantity	Units
Air Emissions (TRI reportables)	76,301	pounds	50,800	pounds

i. How is the current level an improvement over the previous level?

In 1990, IBM Endicott reported air emissions of 760,000 pounds under EPA's Toxic Release Inventory. Since 1990 the IBM Endicott Site has reduced its emissions by 93%, including a 33% reduction over the last 2 years (1997 to1999).

ii How did you achieve this improvement?

The IBM Endicott Site has had an ongoing program to reduce its use and emissions of certain hazardous organic solvents for many years. This has been done by re-engineering a large number of our manufacturing processes to use aqueous based chemistries or alternative less hazardous solvents. In 1993, a program was completed which eliminated manufacturing use of methylene chloride, methyl chloroform, and chlorofluorocarbon-113. In 1994, the hazardous solvent ethylene glycol ether was eliminated. Throughout the 1990's, there has been an ongoing effort to phase out the use of perchloroethylene. In 1999, perchloroethylene elimination was achieved with the re-engineering of a new chip carrier product line to use alternate chemistries.

A02-0028

Section C continued

Second aspect you've selected

What aspect have you selected?	What was the previous level (2 years ago)? (1997)		What is the current level? (1999)	
	Quantity	Units	Quantity	Units

i. How is the current level an improvement over the previous level?

The current (1999) over the previous (1997) level represents a combined energy savings of 12.4%. This savings was achieved during a period of growth in production and facilities services infrastructure requirements.

ii How did you achieve this improvement?

The Endicott facility has had an ongoing energy conservation program, focusing on use reduction, installation of energy-efficient equipment and use minimization.

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 section.

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

First aspect you've selected

a. What is the aspect? Waste - Nonhazardous Solid Waste

b. Is this aspect identified as significant in your EMS? [redacted] Yes [redacted] 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.

[redacted] Option A: Absolute value — 92% recycle rate; 27,206 T Category 1 Waste Processed; 25,042 T Category 1 Waste Recycled

[redacted] Option B:

	or output	(Quantity/Units)

Section C, continued

d.	What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.	X Option A: Absolute value	* Improve the recycle rate by identifying additional streams to be reused and /or recycled. (Quantity/Units)
		Option B: In terms of units of production or output	(Quantity/Units)
e.	How will you achieve this improvement?	Identify and segregate material and waste streams suitable for reuse and/or recycling. This will minimize quantities requiring disposal in landfills. The IBM Endicott Site's recycle rate has improved from 50% in 1990 to 92% in 1999.	

Second aspect you've selected Water Use Conservation

a.	What is the aspect?		
b.	Is this aspect identified as significant in your EMS?	X 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.	X Option A: Absolute value	732 M gallons (1999) (Quantity/Units)
		Option B: In terms of units of production or output	(Quantity/Units)
d.	What is the improvement you are committing to over the next three years? You may choose to state this as an absolute value or in terms of units of production or output.	Option A: Absolute value	(Quantity/Units)
		X Option B: In terms of units of production or output	2% average annual reduction, adjusted for production. (Quantity/Units)

e. How will you achieve this improvement?

Implement a water conservation program. A team will identify opportunities for water conservation, monitor water use, plan and implement selected projects.

Section C, continued

Third aspect you've selected

a. What is the aspect?

Waste - Hazardous Waste

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

X 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.

X Option A: Absolute value — 26,739 tons (1999) (Quantity/Units)

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

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

☐ Option A: Absolute value — (Quantity/Units)

X Option B: In terms of units of production or output — * continuous improvement when normalized to production (Quantity/Units)

e. How will you achieve this improvement?

The IBM Endicott Site will utilize a Hazardous Waste Reduction/Pollution Prevention Program to identify and evaluate opportunities for waste reduction, and implement selected projects.

** Note: Total waste generated will be normalized from year to year to account for changes in products mix and production levels.*

Fourth aspect you've selected

a. What is the aspect?

Energy Consumption

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

X 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.

X Option A: Absolute value — 567,487 MWh (Quantity/Units)

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

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

X	Option A: Absolute value	4% savings in energy (electricity and fuel) for 2000. Future years to be determined. (Quantity/Units)
	Option B: In terms of units of production or output	(Quantity/Units)

e. How will you achieve this improvement?

Establish energy conservation team to promote energy reductions through identification and evaluate of ideas for energy savings.

Section D

Tell us about your public outreach and reporting.

Why do we need this information?

Facilities must 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?

IBM Endicott maintains a Community Relations office which monitors and responds to community concerns that may arise. IBM is a member of the Local Emergency Planning Committee (LEPC). IBM works closely with local regulators and government officials. IBM participates annually in community Earth Day events, where we disseminate information on our environmental programs and interact with the public. As part of the Earth Day event, IBM has organized and sponsored a annual personal computer disposal /recycle program as a service to the community.

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

As appropriate, our Community Relations office may issue press releases, make direct calls to media (TV, radio, print), or contact individual community members directly, depending on the issue.

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

- [X] Website http://www.ibm.com/ibm/Environment/
- [ ] Newspaper
- [ ] Open Houses
- [X] Other
  Provide handouts at the local Earth Day and other community events, as appropriate. In addition, some direct mailings may be appropriate.

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

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

5 List references below.

	Organization	Name	Phone number
Representative of a Community/Citizen Group	Earth Day Southern Tier	Bruce Cameron	607-723-9533
State/Local regulators	NYSDEC Pollution Prevention Unit 50 Wolf Road Albany, NY 12233	Carlos Montes Cheryl O'Brien	518-457-2553 518-457-0914
Other community/local reference	Aurora Project	Lisa Foley	607-772-8863, ext. 310

Section E

Application and Participation Statement.

On behalf of

_____**IBM Endicott**_____
[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 applicable 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	Diana Bendz 9/26/00
Printed Name/Title	**Diana Bendz, Endicott Senior Location Executive**
Facility Name	**IBM Endicott**

Facility Street Address:	**1701 North Street, Endicott, New York 13760**
Facility ID Numbers:	**NYD002233039**

National Environmental Achievement Track

Environmental Requirements Checklist

The following *Checklist* is provided to assist facilities in answering *Section A, Tell us about Your facility, Question 6.* The *Checklist* is given to help facilities identify the major federal, state, tribal, and local environmental requirements applicable at their facilities. The *Checklist* is not intended to be an exhaustive list of all environmental requirements that may be applicable at an individual 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).

Facility Name: **IBM Endicott**

Facility Location: **Endicott, New York**

Facility ID Number(s) **NYD002233039**
(attach additional sheets if necessary)

		Check All That Apply
Air Pollution Regulations		
1.	National Emission Standards for Hazardous Air Pollutants (40 CFR 61)	X
2.	Permits and Registration of Air Pollution Sources	X
3.	General Emission Standards, Prohibitions and Restrictions	X
4.	Control of Incinerators	
5.	Process Industry Emission Standards	X
6.	Control of Fuel Burning Equipment	X
7.	Control of VOCs	X
8.	Sampling, Testing and Reporting	X
9.	Visible Emissions Standards	X
10.	Control of Fugitive Dust	
11.	Toxic Air Pollutants Control	X
12.	Vehicle Emissions Inspections and Testing	
Other Federal, State, Tribal or Local Air Pollution Regulations Not Listed Above *(identify)*		
13.	Title V Permit Application	X
14.	NYS Air emission regulations	X

Hazardous Waste Management Regulations

1.	Identification and Listing of Hazardous Waste (40 CFR 261)	
	- Characteristic Waste	X
	- Listed Waste	X
2.	Standards Applicable to Generators of Hazardous Waste (40 CFR 262)	
	- Manifesting	X
	- Pre-transport requirements	X
	- Record keeping/reporting	X
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	X
	- Preparedness and prevention	X
	- Contingency plan and emergency procedures	X
	- Manifest system, Record keeping and reporting	X
	- Groundwater protection	X
	- Financial requirements	X
	- Use and management of containers	X
	- Tanks	X
	- Waste piles	
	- Land treatment	
	- Incinerators	
5.	Interim Status 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)	X

Other Federal, State, Tribal or Local Hazardous Waste Management Regulations Not Listed Above (*identify*)

8.	NYS Part 373 Permit	X
9.	NYS Parts 360 - 376 Solid & Hazardous Waste Management regulations	X

Hazardous Materials Management

1.	Control of Pollution by Oil and Hazardous Substances (33 CFR 153)	X
2.	Designation of Reportable Quantities and Notification of Hazardous Materials Spill (40 CFR 302)	X
3.	Hazardous Materials Transportation Regulations (49 CFR 172-173)	X
4.	Worker Right-to-Know Regulations (29 CFR 1910.1200)	X
5.	Community Right-to-Know Regulations (40 CFR 350-372)	X

Other Federal, State, Tribal or Local Hazardous Waste Management Regulations Not Listed Above (*identify*)

6.	NYS Major Oil Facility and Petroleum Bulk Storage Facility regs	X
7.	NYS Chemical Bulk Storage regulations	X

Solid Waste Management

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

Other Federal, State, Tribal or Local Hazardous Waste Management Regulations Not Listed Above (*identify*)

6. _____

7. _____

Water Pollution Control Requirements

1.	Oil Spill Prevention Control and Countermeasures (SPCC) (40 CFR 112)	X
2.	Designation of Hazardous Substances (40 CFR 116)	X
3.	Determination of Reportable Quantities for Hazardous Substances (40 CFR 117)	X
4.	NPDES Permit Requirements (40 CFR 122)	X
5.	Toxic Pollutant Effluent Standards (40 CFR 129)	X
6.	General Pretreatment Regulations for Existing and New Sources (40 CFR 403)	X
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	X
11.	Effluent Limitations for Direct Dischargers	X
12.	Permit Monitoring/Reporting Requirements	X
13.	Classifications and Certifications of Operators and Superintendents of Industrial Wastwater Plants	
14.	Collection, Handling, Processing of Sewage Sludge	
15.	Oil Discharge Containment, Control and Cleanup	X
16.	Standards Applicable to Indirect Discharges (Pretreatment)	

Other Federal, State, Tribal or Local Water Pollution Control Regulations Not Listed Above (*identify*)

17.	NYS SPDES Permit	X
18.	NYS SPDES regulations	X

Drinking Water Regulations

1.	Underground Injection and Control Regulations, Crieria 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	X
5.	Underground Injection Control Requirements	
6.	Monitoring, Reporting and Record keeping Requirements for Community Water Systems	

Other Federal, State, Tribal or Local Drinking Water Regulations Not Listed Above (*identify*)

7. NYSDOH Part 5 drinking water regulations applicable to non-transient, non-community water supplies
8.

Toxic Substances

1. Manufacture and Import of Chemicals, Record keeping and Reporting Requirements (40 CFR 704)
2. Import and Export of Chemicals (40 CFR 707) X
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) X
8. Regulations on Use of Fully Halogenated Chlorofluoroalkanes (40 CFR 762)
9. Storage and Disposal of Waste Material Containing TCDD (40 CFR 775)

Other Federal, State, Tribal or Local Toxic Substances Regulations Not Listed Above (*identify*)

10. _____

Pesticide Regulations

1. FTFRA Pesticide Use Classification (40 CFR 162)
2. Procedures for Disposal and Storage of Pesticides and Containers (40 CFR 165)
3. Certification of Pesticide Applications (40 CFR 17 1)
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

Other Federal, State, Tribal or Local Pesticides Regulations Not Listed Above (*identify*)

9. NYS Pesticide regulations (e.g., application of cooling tower pesticides) X
10. _____

Environmental Clean-Up. Restoration, Corrective Action

1. Comprehensive Environmental Response, Compensation and Liability Act (Superfund) *(identify)*
2. RCRA Corrective Action (*identify*)
   Module II of site's Part 373 Hazardous Waste Management Permit X

Other Federal, State, Tribal or Local Environmental Clean-Up, Restoration, Corrective Action Regulations Not Listed Above (*identify*)

3. _____