



# Annual Performance Report

OMB No. 2010-0032  
Expiration Date: 06/30/03

**Facility Name:** Lockheed Martin Naval Electronics & Surveillance Systems-Syracuse  
**Performance Track ID #:** A020026  
**Annual Performance Report #:** 1  
**Reporting Year:** 2001  
**Due Date:** 07/01/2002

## Section A. General Facility Information

Please supply or revise information in A.1 – A.8 as is necessary to ensure that it is accurate, complete, and up-to-date. Items A.9 and A.10 cannot be pre-completed; please respond as directed in A.9 and A.10 below.

**A.1 Name of your facility:** Lockheed Martin Naval Electronics & Surveillance Systems-Syracuse

**A.2 Name of your parent company:** Lockheed Martin Corporation

**A.3 Facility contact person for the Performance Track program:**

**Name:** Ms. Heather Daniels

**Title:** Sr. Environmental Engineer

**Phone:** (315) 456-2459

**Fax:** (315) 456-0151

**E-mail:** heather.d.daniels@lmco.com

**A.4 Facility's location**

**Street Address:** 497 Electronics Parkway

**Address (cont.):** EP6 Room 48

**City:** Liverpool

**State:** NY

**Zip Code:** 13088

**A.5 Facility's Website address (if any):**

<http://www.lockheedmartin.com/syracuse/>

**A.6 Number of employees (full-time equivalents) who currently work in the facility:**

More than 1000

**A.7 Does your company meet the Small Business Administration definition of a small business for your sector?**

No

**A.8 North American Industrial Classification System (NAICS) Code(s) that are used to classify business at the facility:**

334511

**A.9 In your application and, perhaps, in previous annual performance reports, you described what your facility does or makes. Have there been any (additional) changes to your facility's list of products and/or activities? If so, please list them here:**

No

**A.10 Please update the list of environmental requirements that apply to your facility by listing any changes that have taken place during this reporting period. If you have no changes to report, please enter "No changes".**

No changes.

**Section B.  
Environmental Management System**

**B.1 Environmental Management System Assessment. Please summarize EMS assessments conducted *during the year*.**

**a. Was an EMS audit or other assessment done by an independent third party?**

Yes

**If yes, please provide the type (e.g., ISO 14001 certification), the scope, and the dates (mo/yr) of each assessment.**

Type	Scope	Dates (mo/yr)
ISO 14001 certification	The audit was a continuing assessment that included a focus on the following ISO 14001 elements: EMS documentation, document control, operational control, emergency preparedness and response, monitoring and measurement, nonconformance and corrective and preventive action, records, management system audit, and management review. Objectives and targets and communication were also reviewed in summary only.	12/01

**b. Was an internal or corporate EMS audit conducted?** Yes

**If yes, please provide the scope and dates (mo/yr) of each audit.**

Scope	Date (mo/yr)
Lockheed Martin Corporate Energy, Environment, Safety & Health conducted a review of our management system to assure compliance with Lockheed Martin Corporate requirements. EMS elements audited included: ESH policy, compliance requirements, risk assessment, objectives, programs, training, self-assessment, and senior management review.	05/01
The manager of Environment, Safety and Health for the Lockheed Martin Naval Electronics & Surveillance Systems-Radar business in Akron, Ohio conducted a peer review audit of the NE&SS-Syracuse EMS. All of the elements of the ISO 14001 standard were included in the audit.	11/01

**c. Was a compliance audit conducted?**

Yes

**If yes, please provide the scope and the dates (mo/yr) of each audit, and indicate who conducted the audit(s) (e.g., facility staff, corporate groups, third party).**

Scope	Dates	Who conducted the audit
Twenty-six (26) individual compliance audits were conducted throughout the year 2001. Audits are performed by process areas within the facility and cover compliance with all applicable ESH regulations and internal programs and procedures.	01/01	NE&SS-Syracuse ESH staff.

**d. (Optional) If you would like to describe any other audits or inspections that were conducted at your facility, please do so here.**

NE&SS-Syracuse has approximately 70 ESH self-auditors who conduct quarterly ESH audits within their own work areas (manufacturing, office, etc.). These self-auditors receive instructions from the ESH staff, use standard audit checklists and submit results of their audits to the ESH office.

NE&SS-Syracuse is an OSHA Voluntary Protection Program (VPP) Star site and, in accordance with the program, conducted an annual on-site evaluation in 01/01. The on-site evaluation was conducted by both NE&SS-Syracuse facility staff and by individuals from BAE in Johnson City, NY (also a VPP Star facility).

The Onondaga County Department of Drainage and Sanitation (POTW) conducted one unannounced inspection of the facility in 12/01 and five unannounced sampling events at the facility outfalls throughout the year 2001. Results of all sampling analysis and the inspection indicated compliance with all permit requirements.

**e. Briefly summarize corrective actions taken and other improvements made as a result of your EMS assessments and compliance audit**

Improvements to NE&SS-Syracuse internal ESH procedures and documentation were made as a result of EMS assessments conducted. These improvements included formal references to procedures developed during 2001 within the management system documentation to accurately reflect all components of the management system. In addition, an ESH procedure was developed that includes a ranking system for significant aspects. This ranking system was utilized during the 2002 aspect review. Employee communications were conducted throughout the year to increase awareness of key ESH programs (by internal newsletters, emails, metrics boards and an internal ESH Website).

**f. Has your facility corrected all instances of potential non-compliance and EMS non-conformance identified during your audits and other assessments?**

No such instances identified

**If no, please explain your plans to correct these instances.**

**g. When was the last Senior Management review of your EMS completed?**

01/2002

**Who headed the review? Name:** Mr. Michael Smith **Title:** President, NE&SS-Syracuse

**B.2 ISO 14001 Certification. Is your facility currently certified to ISO 14001?**

Yes

**B.3 Environmental Aspects Identification. When did your facility last conduct a systematic identification and/or review of your environmental aspects?**

01/2002

**B.4 Progress Toward Achieving Objectives and Targets. In the table below, please provide a narrative summary of progress made toward EMS objectives and targets. You may limit the summary to environmental aspects that are *significant* and towards which progress has been made during the *reporting year*. In cases where progress relates specifically to a Performance Track performance commitment, complete the Environmental Aspect column, but in the *Progress* column simply refer to the performance commitment tables in Section C, i.e. "See Section C."**

<b>Environmental Aspect</b>	<b>Progress Made This Year (e.g., quantitative or qualitative improvements, activities conducted)</b>
Accidental Release	NE&SS-Syracuse had zero accidental releases during 2001. This was achieved through adherence to ESH procedures and management plans (SPCC, BMP, etc.) and equipment preventive maintenance programs.
Chemical Tracking and Usage	NE&SS-Syracuse achieved over a 50% reduction in the number of chemicals approved to use at the site by performing a thorough review of chemical usage data by individual work centers and eliminating redundant chemicals.

Industrial Waste Generation	NE&SS-Syracuse achieved a 5% reduction in the amount of waste Isopar generated in our Towed Array business through the purchase and installation of an Isopar recycling and recovery system. The system was installed in October of 2001.
Hazardous Solid Waste Generation	See Section C.
Solid Waste Generation	See Section C.

**Section C.  
Environmental Performance Commitments**

Please use the tables below to summarize your facility's environmental performance against your Performance Track performance commitments. Complete only those boxes related to the baseline, current year, and performance commitment.

**C.1 Performance Commitment 1**

a. Use this table to report data related to your first performance commitment.

<b>Category:</b>	<b>Waste</b>				
<b>Aspect :</b>	<b>Hazardous Solid Waste</b>				
	<b>Aspect Specifics (Optional):</b>				
	<b>Baseline (as stated in your application)</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Performance Commitment (the goal stated in your application)</b>
<b>Calendar Year</b>	<b>1999</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2003</b>
<b>Actual Quantity (per year)</b>	<b>16.6</b>	<b>10.3</b>			<b>Optional:14.9</b>
<b>Measurement Units</b>	<b>tons</b>				
<b>Normalizing Factor</b>	<b>1.0</b>	<b>1</b>			<b>Optional: 1</b>
<b>Basis for your Normalizing Factor</b>	<b>N/A</b>				
<b>Normalized Quantity* (per year)</b>	<b>16.6</b>	<b>10.3</b>			<b>14.9</b>
<b>*Calculated for you</b>					

b. Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

The most significant waste reductions were in the lead ceramic operations associated with transducer manufacturing. Reduced volumes of both waste ceramic powder and waste fired solids waste were achieved through improvements in engineering design of product and equipment upgrades. Also, a photo fixer wastestream was reduced through use of computer imaging in place of traditional development techniques. Note: A normalization factor was not utilized for this aspect due to the fact that a significant portion of the waste reduction was achieved in a product line that was in engineering development phase during the baseline year. Normalization based on overall production levels will be utilized in outgoing years.

If you have additional information that you would like to include please attach it here:

Any attachments will be located at the end of the report.

c. Please list any other EPA voluntary programs to which you are also reporting these data (e.g. Energy Star, Project XL).

None.

## C.2 Performance Commitment 2

- a. Use this table to report data related to your second performance commitment.

<b>Category :</b>	<b>Materials Use</b>				
<b>Aspect :</b>	<b>Hazardous Materials Use</b>				
	<b>Aspect Specifics (Optional):</b>				
	<b>Baseline (as stated in your application)</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Performance Commitment (the goal stated in your application)</b>
<b>Calendar Year</b>	<b>1999</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2003</b>
<b>Actual Quantity (per year)</b>	<b>8.36</b>	<b>10.6</b>			<b>Optional: 7.95</b>
<b>Measurement Units</b>	<b>tons</b>				
<b>Normalizing Factor</b>	<b>1.0</b>	<b>1.33</b>			<b>Optional:1</b>
<b>Basis for your Normalizing Factor</b>	<b>33% production increase on ground based radars (minimum increase)</b>				
<b>Normalized Quantity* (per year)</b>	<b>8.4</b>	<b>8</b>			<b>7.95</b>
<b>*Calculated for you</b>					

- b. Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

The increase in material usage is most directly related to new a product line in ceramic powder business. Engineering development of this ceramic powder required the purchase of lead powders that are then processed into lead zirconate titanate powder for sale. Because this is a new product line, and does not represent the only type of product manufactured, it is not possible to normalize this data. The normalization shown above relates to existing products which were manufactured during both 1999 and 2001, which showed a minimum of a 33% increase (the minimum was used for the normalization). Despite these production increases, a normalized reduction in hazardous materials usage was achieved through the design and equipment modifications described in C.1 above and reduction in redundant material usage which aids in reducing over purchasing.

**Attach:**

Any attachments will be located at the end of the report.

- c. Please list any other EPA voluntary programs to which you are also reporting these data (e.g. Energy Star, Project XL).

None.

### C.3 Performance Commitment 3

a. Use this table to report data related to your third performance commitment.

<b>Category :</b>	<b>Waste</b>				
<b>Aspect :</b>	<b>Total Solid Waste</b>				
	<b>Aspect Specifics (Optional):</b>				
	<b>Baseline (as stated in your application)</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Performance Commitment (the goal stated in your application)</b>
<b>Calendar Year</b>	<b>1999</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2003</b>
<b>Actual Quantity (per year)</b>	<b>121</b>	<b>206</b>			<b>Optional: 115</b>
<b>Measurement Units</b>	<b>tons</b>				
<b>Normalizing Factor</b>	<b>1.0</b>	<b>1.22</b>			<b>Optional:1</b>
<b>Basis for your Normalizing Factor</b>	<b>1.115 employee and 1.33 production increases: <math>(1.115+1.33)/2 = 1.22</math> factor</b>				
<b>Normalized Quantity* (per year)</b>	<b>121</b>	<b>168.9</b>			<b>115</b>
<b>*Calculated for you</b>					

b. Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

This represents the portion of the solid waste stream which is not currently recycled. As reported in our original application, the amount of solid waste generated did increase due to implementation of a clean-out program which focuses on having employees improve housekeeping through elimination of unused items. The clean-out program will continue on a quarterly basis, focusing on one building within the facility where employees are asked to clean out their areas. By continuing the program on a regular basis, employee awareness is increased not only to dispose of waste items, but to eliminate items which will become wastes in the first place. Communications of the program and waste reduction initiatives are made through information boards, employee newsletters, emails and Websites. In 2000, solid waste generation per employee was 193.2. Therefore a nearly 5% reduction (prior to normalization by production) was achieved from 2000 to 2001 due to increased awareness and waste reduction programs.

**Attach:**

Any attachments will be located at the end of the report.

c. Please list any other EPA voluntary programs to which you are also reporting these data (e.g. Energy Star, Project XL).

None.

## C.4 Performance Commitment 4

a. Use this table to report data related to your fourth performance commitment.

<b>Category:</b>	Waste				
<b>Aspect :</b>	Other				
	<b>Aspect Specifics:</b> Recycling rate				
	<b>Baseline (as stated in your application)</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Performance Commitment (the goal stated in your application)</b>
<b>Calendar Year</b>	1999	2001	2002	2003	2003
<b>Actual Quantity (per year)</b>	NA	NA			<b>Optional:</b>
	Exclude	Exclude			
<b>Measurement Units</b>	Other				
	<b>Other:</b> Percent				
<b>Normalizing Factor</b>	NA	NA			<b>Optional:</b>
	Exclude	Exclude			
<b>Basis for your Normalizing Factor</b>	N/A				
<b>Normalized Quantity (per year)</b>	73	70			75
	Exclude	Exclude	Exclude		

### Footnotes:

### Explain Exclusions:

b. Briefly describe how you achieved improvements for this aspect or, if relevant, any circumstances that delayed progress.

The above table represents the recycling rate for solid waste generated at the facility (not total tons). This includes all solid waste generated at the facility, both production and office related. New recycling programs instituted since 1999 included the recycling of records sent to off-site storage and the sale for reuse of office furniture that would no longer be used at our facility. Implementation of these programs in 2000 resulted in 75% recycling rate for the year. In 2001, the rate dropped to 70% in large part due to an overall 13% reduction in total solid waste generation (due to paper conservation programs, use of electronic tools, etc.). NE&SS-Syracuse will continue to pursue new recycling programs with a goal of achieving and maintaining a 75% recycling rate.

### Attach:

Any attachments will be located at the end of the report.

c. Please list any other EPA voluntary programs to which you are also reporting these data (e.g. Energy Star, Project XL).

None.





**Section D.  
Public Outreach and Performance Reporting**

**D.1 Please briefly summarize the public outreach and reporting activities that your facility has conducted during the year. Feel free, but not obligated, to attach supporting materials (e.g., meeting agendas, public announcements).**

Public reporting activities included a press release issued in January 2001 regarding NE&SS-Syracuse acceptance into the EPA Performance Track Program. NE&SS-Syracuse also maintains an external website available to the general public.

NE&SS-Syracuse participates in several public outreach programs including being a sponsor of an Explorer Post focused on science and engineering careers. The program, sponsored by the Boy Scouts of America, gives aspiring engineers a chance to work in a series of hands-on project teams held at the Syracuse facilities during the evening hours. Volunteer Lockheed Martin employees, including members of the ESH staff, serve as mentors and advisors. This program has been very popular with the surrounding communities.

NE&SS-Syracuse also has a relationship with Clary Math Science Magnet Middle School. Through that relationship our engineers frequently visit the school to discuss engineering; environmental, health and safety; math and science concepts. The school also participates in Lockheed Martin-sponsored Space Day activities annually.

**Attachment:**

Any attachments will be located at the end of the report.

**D.2 Please indicate which of the following methods your facility plans to use to make its Performance Track Annual Report available to the public. Please check as many as appropriate.**

Web Site

URL: <http://www.lockheedmartin.com/syracuse/>

Other:

**Section E.  
Self-Certification of Continued Program Participation**

**On behalf of**     **Lockheed Martin Naval Electronics & Surveillance  
Systems-Syracuse,  
(name of my facility)**

**I certify that**

- I have read and agree to the terms and conditions as specified in the *National Environmental Performance Track Program Guide*. This facility, to the best of my knowledge, continues to meet all program criteria;
  
- I have personally examined and am familiar with the information contained in this Annual Performance Report. The information contained in this report is, to the best of my knowledge and based on reasonable inquiry, true, accurate, and complete;
  
- My facility has an environmental management system (EMS), as defined in the Performance Track EMS criteria, 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 assessments 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 Environment 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 manager with responsibility for the facility and am fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is part of the National Environmental Performance Track program.

**Signature/Date**

**Printed Name**

Mr. Robert Fiorentini

**Title**

Director, Manufacturing Ops.

**Phone Number**

(315) 456-6802

**E-mail Address**

robert.o.fiorentini@lmco.com

**Facility Name**

Lockheed Martin Naval Electronics & Surveillance  
Systems-Syracuse

**Facility Street Address**

497 Electronics Parkway EP6 Room 48

Liverpool, NY 13088

**Performance Track ID#**

A020026

**Appendix:****Do you want to add Appendix?****When adding additional comments, please refer to question number.****Comments:****Attachment:**

Paperwork Reduction Act Notice

The public reporting and recordkeeping burden for this collection information is estimated to average 188 hours per respondent annually. 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 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.