



**INDIANA ENVIRONMENTAL STEWARDSHIP PROGRAM
ANNUAL PERFORMANCE REPORT**

State Form 53475 (R3 / 1-11)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
ENVIRONMENTAL STEWARDSHIP PROGRAM

Indiana Department of Environmental Management
Office of Pollution Prevention and Technical Assistance
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Indianapolis, IN 46204-2251
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Please use this form if you are a member of the Indiana Environmental Stewardship Program (ESP) to report on progress toward objectives and targets AND certify ESP requirements continue to be achieved. Indiana ESP facilities must submit an Annual Performance Report (APR) by April 1st of every year, for each calendar year in which the entity has been a member for at least three (3) full months. Section C of your APR should be signed by your ISO 14001:2004 EMS Lead Auditor. Your APR should be reviewed and signed by a senior manager at your facility prior to submittal. Once signed, e-mail the APR to IDEM at esp@idem.IN.gov. Please do not include any confidential business information in your annual performance report. Public access laws require IDEM to make the APR publicly available, which may include posting all portions of your report on the Indiana ESP Web site. If you have any questions, please contact IDEM at esp@idem.IN.gov or (800) 988-7901.

SECTION A FACILITY INFORMATION

Name of facility
Metaldyne SinterForged, LLC

Name of parent company (If applicable)
Metaldyne, LLC

Street address (number and street)
310 N. State Hwy 3

City / State / ZIP code
North Vernon, IN 47265

Web site of Facility/Company
www.metaldyne.com

CONTACT INFORMATION

Name of Contact (Mr. / Mrs. / Ms. / Dr.)
Mr. Jeff Gee

Title
Environmental Coordinator/Facilities Maintenance Group Leader (FMGL)

Telephone number
812-346-0363

FAX number
812-346-4970

E-mail address
jeffgee@metaldyne.com

Mailing address (if different from facility address)

City / State / ZIP Code

REPORTING PERIOD

Reporting period dates (month, day, year)

1a. Is this the third Annual Performance Report of your membership term?
 Yes—If yes, answer question 1b.
 No—If no, skip to the "Change in Information" section of this report.

1b. Do you wish to renew your Indiana Environmental Stewardship Program membership?
 Yes—If yes, please complete all sections of this annual report.
 No—If no, please complete all sections of this annual report except for Section F.

CHANGE IN INFORMATION

In your ESP application and, perhaps, in previous annual performance reports, you described what your facility does or makes. Have there been any changes or additions to your facility's list of products or activities?
 Yes—If yes, please describe them:
 No

SECTION B PUBLIC OUTREACH AND PERFORMANCE REPORTING

Why do we need this information?
IDEM needs to know how environmental information was shared with the public.

What do you need to do?
Describe how the facility has shared and plans to share environmental information.

Please briefly describe the activities that your facility conducted during this reporting period to interact with the community on environmental issues and to report publicly on its environmental performance. All environmental communication is handled via corporate EHS/Legal

Please indicate which of the following methods your facility plans to use to make its ESP Annual Performance Report available to the public. Please check as many as appropriate.
 Web site (<http://www.>) Open house Meetings Press releases Other

SECTION C

ENVIRONMENTAL MANAGEMENT SYSTEM ASSESSMENT

Why do we need this information?

Facilities need to have implemented an EMS that meets certain criteria and use an ISO 14001:2004 EMS Lead Auditor at least every 36 months to assess the EMS.

What do you need to do?

Answer the following questions about your EMS.

1	What is the most recent date that an ISO 14001:2004 EMS Lead Auditor performed an EMS assessment at your facility?
2	<p>Is the date of the most recent EMS assessment performed by an ISO 14001:2004 EMS Lead Auditor within the past 36 months?</p> <p><input checked="" type="checkbox"/> Yes—If yes, skip to Question 3.</p> <p><input type="checkbox"/> No—If no, please have your ISO 14001: 2004 EMS Lead Auditor complete and sign the following checklist, indicating whether or not your EMS meets the listed criteria for ESP membership:</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Evidence of senior management support, commitment, and approval.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No A written environmental policy directed toward compliance, pollution prevention, and continuous improvement.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Identification of the environmental aspects at the entity.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Prioritization of the environmental aspects and a determination of those aspects deemed significant considering, at the minimum, environmental impacts and applicable laws and regulations.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Established priorities, and environmental objectives and targets for continuous improvement in environmental performance and for ensuring compliance with applicable environmental laws, regulations, and permit conditions. Objectives and targets must go beyond current legal requirements and specify the environmental media, types of pollution to be prevented or reduced, implementation activities, and projected time frames.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No An established community outreach mechanism that includes identifying and responding to community concerns; informing the community of important matters that affect the community; and reporting on the EMS, including reporting to the public on the environmental policy and significant aspects.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Incorporation of environmental and pollution prevention planning in the development of new products, processes, and services and modifications of existing processes.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Evidence of clear responsibility for implementation, training, monitoring, EMS maintenance, taking corrective action, and ensuring compliance with applicable environmental laws, regulations, and permit conditions.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Documentation of the implementation procedures and the results of implementation.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Appropriate written EMS procedures.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No An annual evaluation of the EMS with written results provided to senior management and affected employees.</p>
<hr/> <p><i>Signature of ISO 14001:2004 EMS Lead Auditor</i> <i>Date (month, day, year)</i></p>	
3	<p>Were any deficiencies found during the most recent EMS assessment?</p> <p><input checked="" type="checkbox"/> No—If no, skip to Question 4.</p> <p><input type="checkbox"/> Yes—If yes, describe any deficiencies found and the corrective action taken to address each deficiency:</p>
4	Name, title, and organization of ISO 14001:2004 EMS Lead Auditor that conducted the most recent EMS assessment: Fraser Mackay, Client Mgr, BSI
5	<p>What type of protocol was used to perform the independent EMS assessment?</p> <p><input checked="" type="checkbox"/> ISO 14001:2004 Certified audit</p> <p><input type="checkbox"/> Responsible Care EMS audit</p> <p><input type="checkbox"/> Responsible Care 14001 audit</p> <p><input type="checkbox"/> ESP Independent Assessment Protocol</p> <p><input type="checkbox"/> Other (<i>please specify</i>):</p>
6	<p>Is the EMS certified to a recognized standard?</p> <p><input checked="" type="checkbox"/> Yes—If yes, what standard does the EMS follow (<i>please provide a copy of the most recent certificate</i>)?</p> <p><input checked="" type="checkbox"/> ISO 14001:2004</p> <p><input type="checkbox"/> Responsible Care EMS</p> <p><input type="checkbox"/> Responsible Care 14001</p> <p><input type="checkbox"/> No.</p>
7	<p>When was the last Senior Management review of your EMS completed?</p> <p>Month / Year: <u>November 2013</u></p> <p>Who headed the review (<i>name and title</i>)? <u>Dave Tempest, Plant Manager</u></p>

8 When did your facility last conduct an internal or corporate environmental compliance audit? Do not include inspections or site visits by regulatory organizations.
 Scope of the compliance audit: The continuing suitability of the EMS in meeting all required procedures of the company and standards
 Month(s) / Year(s): December 2013
 Who conducted the audit(s) (e.g., facility staff, corporate, third party)? Facility Staff

9 Explain the emergencies experienced within the facility during the past year. Were the applicable emergency and contingency plans detailed in the EMS effective? What changes, if any, have been made to your facility's emergency or contingency plans?
 None

10 Has your facility corrected all instances of potential environmental non-compliance and EMS non-conformance identified during your audits and other assessments?
 Yes—If yes, briefly summarize corrective actions taken and other improvements made as a result of your EMS assessment(s) or compliance audit(s).
 No—If no, please explain your plans to correct these instances. No such instances identified.

11 (Optional) Please provide a narrative summary of progress made toward EMS objectives and targets other than those reported as an Environmental Performance Initiative in Section E. You may limit the summary to environmental aspects that are *significant* and towards which *progress* has been made during the last calendar year. Attach additional sheets as necessary.

Environmental aspect	Progress made this year (e.g., quantitative or qualitative improvements, activities conducted)

SECTION D ADDITIONAL INFORMATION

Why do we need this information? This information will help IDEM to effectively manage the Environmental Stewardship Program. **What do you need to do?** Answer the questions as completely as possible.

1 In addition to ESP, please list environmental awards received or voluntary programs participated in during the past twelve months.
 Corporate EHS Blue Flag

2 Has your facility taken advantage of any ESP incentives? If so, please describe the implementation process and list additional benefits IDEM should consider.
 Utilized the access to Permit Writers for Title V (visit by writers); CTAP assistance for storm water issue

3 If your facility was not registered to the ISO 14001 standard prior to becoming an ESP member, has ESP helped you to pursue registration? If so, how has ESP been instrumental in achieving registration?
 N/A

SECTION E ENVIRONMENTAL IMPROVEMENT INITIATIVE RESULTS

Why do we need this information? Facilities need to share the results of the environmental improvement initiative that was pursued during the reporting period. **What do you need to do?** Summarize your facility's progress on achieving the initiative you identified in the application or last year's APR.

Category: <u>Air Emissions</u> Indicator: <u>Visual</u>	Baseline Quantity	Future Goal Quantity	Current Quantity	Cost Savings
Calendar year	176,159 lbs (2012)	115,203 lbs (target 2013)	111,254 lbs actual 2013	\$1,200.73 In addition kept 64,905 pounds from being released to air
Actual quantity (per year)				
Normalized quantity (per year)				
Basis for your normalizing factor (e.g., gallons of paint produced)	Installed 4 new state-of-the art dust collectors with HEPA filter quality air return			
Measurement unit (e.g., pounds)				
Briefly describe how you achieved improvements for this environmental initiative or, if relevant, any circumstances that delayed progress. See attached progress report				
Please list any state, U.S. EPA, or other partnership programs to which you are reporting this data (e.g., Energy Star, Project XL). N/a				
(Optional) If your facility has experienced continued results for environmental improvement initiatives pursued in past years of ESP membership, please share those results here.				

SECTION F

ENVIRONMENTAL IMPROVEMENT INITIATIVE

Why do we need this information?

Facilities need to show they are committed to improving their environmental performance.

What do you need to do?

Refer to the Environmental Performance Table and answer the following questions.

Select the appropriate boxes in the following table to indicate the **category** and **indicator(s)** that represents the environmental improvement initiative selected by your facility. For the category and indicator selected, list the **baseline year** (e.g., 2009) and the **future year** (e.g., 2010). Next, list the **baseline annual quantity** (e.g., 5 tons) and **future annual quantity** (e.g., 2 tons) you are committing to achieve by the end of the future year.

Category	Indicator	Baseline Year 20__13	Future Year 20__14	Unit
<input type="checkbox"/> Material Procurement	<input type="checkbox"/> Recycled content			Pounds, tons
	<input type="checkbox"/> Hazardous/toxic components			Pounds, tons
<input type="checkbox"/> Suppliers' Environmental Performance	<input type="checkbox"/> Specify indicator: _____			As specified for the particular indicator
<input type="checkbox"/> Material Use	<input type="checkbox"/> Materials used			Pounds, tons
	<input type="checkbox"/> Hazardous materials used			Pounds, tons
	<input type="checkbox"/> Ozone depleting substances used			CFC-11 equivalent pounds
	<input type="checkbox"/> Total packaging materials used			Pounds, tons
<input type="checkbox"/> Water Use	<input type="checkbox"/> Total water used			Gallons
<input checked="" type="checkbox"/> Energy Use	<input checked="" type="checkbox"/> Electricity	2,966,836.0 kWh	2,606,800.0	kWh / MWh, Btu / MMBtu
	<input type="checkbox"/> Steam			kWh / MWh, gallons, ft ³
	<input type="checkbox"/> Natural gas			Btu / MMBtu
	<input type="checkbox"/> Diesel			Gallons
	<input type="checkbox"/> Propane / LPG			Btu / MMBtu, gallons
	<input type="checkbox"/> Gasoline			Gallons
	<input type="checkbox"/> Solar			kWh / MWh
	<input type="checkbox"/> Wind			kWh / MWh
	<input type="checkbox"/> Landfill gas			Btu / MMBtu
	<input type="checkbox"/> Combined heat and power			kWh / MWh, Btu / MMBtu
<input type="checkbox"/> Other: _____			_____	
<input type="checkbox"/> Land and Habitat	<input type="checkbox"/> Land and habitat conservation			Square feet, acres
	<input type="checkbox"/> Community land revitalization			Square feet, acres
<input type="checkbox"/> Air Emissions	<input type="checkbox"/> Total GHGs			MTCO ₂ E
	<input type="checkbox"/> VOCs			Pounds, tons
	<input type="checkbox"/> NOx, SOx, PM _{2.5} , PM ₁₀ , or CO			Pounds, tons
	<input type="checkbox"/> Air toxics			Pounds, tons
	<input type="checkbox"/> Odor			European Odour Units
	<input type="checkbox"/> Radiation			Curies, Becquerels
	<input type="checkbox"/> Dust			Pounds, tons
<input type="checkbox"/> Discharges to Water	<input type="checkbox"/> COD or BOD			Pounds, tons
	<input type="checkbox"/> Toxics			Pounds, tons
	<input type="checkbox"/> Total suspended solids			Pounds, tons
	<input type="checkbox"/> Nutrients			Pounds, tons of N or P
	<input type="checkbox"/> Sediment from runoff			Pounds, tons
<input type="checkbox"/> Non-hazardous Waste <input type="checkbox"/> Hazardous Waste	<input type="checkbox"/> Pathogens			MPN/ml, CFU/ml
	<input type="checkbox"/> Landfill			Pounds, tons
	<input type="checkbox"/> Incineration			Pounds, tons
	<input type="checkbox"/> Reused/recycled off-site			Pounds, tons, gallons
	<input type="checkbox"/> Other: _____			Pounds, tons, gallons
<input checked="" type="checkbox"/> Noise	<input type="checkbox"/> Noise	125-128	75-78	dBA
<input type="checkbox"/> Vibration	<input type="checkbox"/> Vibration			Inches per second
<input type="checkbox"/> Products	<input type="checkbox"/> Expected lifetime energy use			kWh / MWh, Btu / MMBtu
	<input type="checkbox"/> Expected lifetime water use			Gallons
	<input type="checkbox"/> Expected lifetime waste to air, water, or land from product use			Pounds, tons
	<input type="checkbox"/> Waste to air, water, or land from disposal or recovery			Pounds, tons

What activities or process changes do you plan to undertake at your facility to accomplish your initiative (e.g., technology changes in a particular process line, employee training)? Replace the current 400 horsepower twin rotary screw air compressor with state-of-the-art 400 horsepower centrifugal air compressor

Does this initiative address a significant aspect in your EMS?

Yes

No—If no, please explain why you believe this indicator should be included as an environmental improvement initiative:

CERTIFICATION AND PLEDGE

On behalf of (name of facility) Metaldyne SinterForged Products, LLC

I certify that the information contained in this Annual Performance Report and attachments is accurate to the best of my knowledge and that this facility is, to the best of my knowledge and based on reasonable inquiry, currently in compliance with all applicable federal, state, and local environmental requirements, or has a corrective action program in place to attain compliance.

We, Metaldyne SinterForged Products, LLC, commit to maintaining the principles and goals outlined in our Environmental Management System for our facility's Indiana Environmental Stewardship Program status. We agree to strive for full compliance with all regulations promulgated by the U.S. EPA, state, or local jurisdictions. We agree to promote the Indiana Environmental Stewardship Program and to share our success stories with other facilities. We understand that the Annual Performance Report must be submitted to IDEM by April 1st of each year and that we must reapply to the Indiana Environmental Stewardship Program every three years.

I understand that the information provided in this Annual Performance Report will be public record. I am the senior facility manager or authorized facility signatory, and fully authorized to execute this statement on behalf of the corporation or other legal entity whose facility is submitting this Annual Performance Report.

Signature



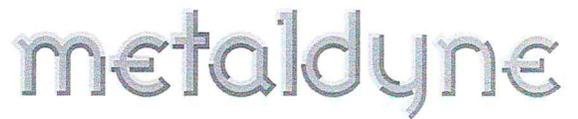
Title

Environmental Coordinator

Date (month, day, year)

04-01-14

Printed signature
Jeff Gee



2014 ESP Project

April 01, 2014

Project Champion: Jeff Gee, Facilities Maintenance Group Leader

Significant Aspect: Energy Use

Objective: Reduce kilowatt hours (kWh) used

Target: To reduce the kWh used by the 400 horsepower twin rotary screw air compressor

Project: Install new 400 horsepower centrifugal air compressor

- Replace current 400 horsepower twin rotary screw air compressor with new 400 horsepower centrifugal air compressor
- Current Air Compressor is “start/stop”; replacement is auto dial
- Current must be taken out of service for maintenance; new can have maintenance performed while in service

Plan for evaluation:

- Reduce kWh used to power the air compressors used in the facility
- Reduce noise level in the air compressor room

Test Results:

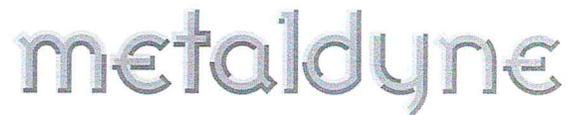
- Projections show a decrease of energy use of 10-15%
- Projections demonstrate decibel level decrease in air compressor room of approximately 50 dB

Cost Savings:

- Decrease annual energy costs by approximately \$31,323.14 at a 12% reduction
- Decrease annual kWh usage by approximately 360,036

Plan for Installation:

- Project completion target Fourth Quarter 2014
- Monitor



2013 ESP Project Update

April 1, 2014

Project Champion: Jeff Gee, Facilities Maintenance Group Leader

Significant Aspect: Air Emissions

Objective: Reduce Air Emissions

Target: To reduce the deflash dust collector emissions to HEPA quality air.

Project: Install new Avani dust collectors with HEPA after filter on each of the 4 exciting machines.

- Replace dust collector 1 for 1
- Current dust collectors are 99% efficient; replacing with dust collectors with HEPA after filters is anticipated to be 99.9999% efficient.

Plan for evaluation:

- Reduce air emissions discharged in the plant by replacing 1 for 1 dust collectors with higher efficiency and equipped with HEPA after filters.
- Maintain or increase the level of housekeeping throughout the facility

Test Results:

- Have demonstrated a decrease of emissions by 16,226.19 pounds annually per dust collector
- Improvement of 64,904.76 pounds of emissions overall annually

Cost Savings:

- No measurable tangible cost savings were projected or received
- Intangibles received were cleaner air for a cleaner plant resulting in a better working environment for our employees

Plan for Installation:

- Purchased and installed one Dust Collector with HEPA after filter per quarter
- Project completion December 2013

Note: As part of this project all in-take duct work was replaced due to the age of the previous duct work