



INDIANA ENVIRONMENTAL STEWARDSHIP PROGRAM ANNUAL PERFORMANCE REPORT

State Form 53475 (R5 / 2-17)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
ENVIRONMENTAL STEWARDSHIP PROGRAM

Indiana Department of Environmental Management
Office of Program Support
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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. Membership terms are renewed every four (4) years through submitting your APR. 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 Marion Metal Center			
Name of parent company (if applicable) General Motors, LLC			
Street address (number and street) 2400 West Second Street			
City / State / ZIP code Marion, IN 46952			
Website of facility / company			
CONTACT INFORMATION			
Name of Contact (Mr. / Mrs. / Ms. / Dr.) Jeff Blankenberger		Title Supervisor, Environmental Engineering	
Telephone number (765) 668-2358	FAX number ()	E-mail address jeffrey.blankenberger@gm.com	
Mailing address (if different from facility address)			
City / State / ZIP Code			
REPORTING PERIOD			
Reporting period dates (mm/dd/yyyy – mm/dd/yyyy) 01/01/2017 - 12/31/2017			
1a. Is this the fourth Annual Performance Report of your membership term? <input checked="" type="checkbox"/> Yes—If yes, answer question 1b. <input type="checkbox"/> 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? <input checked="" type="checkbox"/> Yes—If yes, please complete all sections of this annual report. <input type="checkbox"/> 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? <input type="checkbox"/> Yes—If yes, please describe them: _____ <input checked="" type="checkbox"/> 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. City of Marion Earth Day, Maintenance of Community Gardens, Expanded Wildlife Habitat footprint with addition of pollinator garden.			
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. <input type="checkbox"/> Web site (http://www.) <input type="checkbox"/> Open house <input checked="" type="checkbox"/> Meetings <input type="checkbox"/> Press releases <input checked="" type="checkbox"/> Other IDEM Website			

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 EMS Lead Auditor at least every thirty-six (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 EMS Lead Auditor performed an EMS assessment at your facility? October 25 and 26, 2017.
2. Name, title, and organization of ISO 14001 EMS Lead Auditor who conducted the most recent EMS assessment: Larry Wade, Senior Environmental Engineer, General Motors, Defiance Foundry
3. Is the date of the most recent EMS assessment performed by an ISO 14001 EMS Lead Auditor within the past thirty-six (36) months?
 - ☒ Yes—If yes, skip to Question 4.
 - ☐ No—If no, please have your ISO 14001 EMS Lead Auditor complete and sign the following checklist, indicating whether or not your EMS meets the listed criteria for ESP membership:
 - ☐ Yes ☐ No Evidence of senior management support, commitment, and approval.
 - ☐ Yes ☐ No A written environmental policy directed toward compliance, pollution prevention, and continuous improvement.
 - ☐ Yes ☐ No Identification of the environmental aspects at the entity.
 - ☐ Yes ☐ 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.
 - ☐ Yes ☐ 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.
 - ☐ Yes ☐ 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.
 - ☐ Yes ☐ No Incorporation of environmental and pollution prevention planning in the development of new products, processes, and services and modifications of existing processes.
 - ☐ Yes ☐ 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.
 - ☐ Yes ☐ No Documentation of the implementation procedures and the results of implementation.
 - ☐ Yes ☐ No Appropriate written EMS procedures.
 - ☐ Yes ☐ No An annual evaluation of the EMS with written results provided to senior management and affected employees.

Signature of ISO 14001 EMS Lead Auditor

Date (month, day, year)

4. Were any deficiencies found during the most recent EMS assessment?
 - ☒ Yes—If yes, describe any deficiencies found and the corrective action taken to address each deficiency: Contractor generated universal waste container (fluorescent bulbs) not properly labeled in all cases. Retrained contract personnel on requirement and added ongoing layered audit process conducted by GM personnel to verify conformance to requirements.
 - ☐ No
5. What type of protocol was used to perform the independent EMS assessment?
 - ☐ ISO 14001:2015 Certified audit
 - ☐ ISO 14001:2004 Certified audit
 - ☐ ESP Independent Assessment Protocol
 - ☒ Other (please specify): Self-Declaration Audit to ISO 14001:2004 protocol by GM external auditor.
6. Is the EMS certified to a recognized standard?
 - ☒ Yes—If yes, what standard does the EMS follow (please provide a copy of the most recent certificate)?
 - ☐ ISO 14001:2015
 - ☒ ISO 14001:2004
 - ☐ Responsible Care EMS
 - ☐ Responsible Care 14001
 - ☐ No

SECTION C		ENVIRONMENTAL MANAGEMENT SYSTEM ASSESSMENT <i>CONTINUED</i>	
7.	When was the last Senior Management review of your EMS completed? Month / Year: <u>December 14, 2017</u> Who headed the review (name and title)? <u>Jeff Blankenberger, Supervisor Environmental Engineering, and Maya Collins, Associate Environmental Engineer</u>		
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: <u>Local, state, federal compliance, and conformance to GM requirements.</u> Month(s) / Year(s): <u>March - May, 2017</u> Who conducted the audit(s) (e.g., facility staff, corporate, third party)? <u>Facility and corporate staff.</u>		
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? No reportable releases requiring activation of emergency response plans.		
10.	Has your facility corrected all instances of potential environmental non-compliance and EMS non-conformance identified during your audits and other assessments? <input checked="" type="checkbox"/> Yes—If yes, briefly summarize corrective actions taken and other improvements made as a result of your EMS assessment(s) or compliance audit(s). <u>Utilizing problem solving tools, continuous improvement made in cold-cleaner labeling,</u> <u>misc. record-keeping updates, and repair of a small leak in tank secondary containment unit.</u> <input type="checkbox"/> No—if no, please explain your plans to correct these instances. <input type="checkbox"/> No such instances identified.		

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 (12) months. Wildlife Habitat recertification (Silver Certified) - November 2, 2016, Partners for Pollution Prevention, City of Marion Earth Day, Expanded Wildlife Habitat area with addition of pollinator garden.			
2. Has your facility taken advantage of any ESP incentives? If so, please describe the implementation process and list additional benefits IDEM should consider. None in report year 2017			
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? Currently ISO 14001:2004 self-certified			

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. IDEM needs to report cumulative program reduction results.		What do you need to do? Reference Section F for "Category" and "Indicator" options to complete this section. Summarize your facility's progress on achieving the initiative you identified in the application or last year's APR. For assistance, please call (800) 988-7901 or email esp@idem.in.gov .	
Initiative #1			
Category 1: <u>Non-Hazardous Waste</u> Indicator 1: <u>Reduce trash (Waste to Energy)</u>	Baseline <i>(indicate measurement unit)</i>	Current <i>(indicate measurement unit)</i>	Cost Savings
Calendar year	2016	2017	
Actual quantity (per year)	239.53 tons	207.34 tons	
Production unit (select one)	<div style="display: flex; justify-content: space-between;"> Earned Labor Hours Production units Production lbs. </div> Other -- specify (e.g. Gallons, length, etc.) Production Tons		
Production Quantity	185,472.7 tons	173,827.9 tons	NA
Normalization factor (Current year production ÷ Baseline year production) 0.937			
Normalized quantity (Actual current year quantity ÷ Actual baseline quantity) x Normalization factor -30.16 tons trash (waste to energy)			
Briefly describe how you achieved improvements for this environmental initiative or, if relevant, any circumstances that delayed progress. Established CY 2017 goal to reduce trash (waste to energy) volume by 3%. Achieved 12.6% actual reduction in waste to energy quantity normalized to production volume through enhancements to existing recycling programs (increased awareness and education, optimized location of recycling containers, layered audits, etc.), and identification of new waste streams for recycling such as corrugated plastic.			

SECTION E ENVIRONMENTAL IMPROVEMENT INITIATIVE RESULTS CONTINUED			
Initiative #2			
Category 2: _____ Indicator 2: _____	Baseline (indicate measurement unit)	Current (indicate measurement unit)	Cost Savings
Calendar year			
Actual quantity (per year)			
Production unit (select one)	Earned Labor Hours Other -- specify (e.g. Gallons, length, etc.)	Production units	Production lbs.
Production Quantity			NA
Normalization factor (Current year production ÷ Baseline year production)			
Normalized quantity (Actual current year quantity - Actual baseline quantity) x Normalization factor			
Briefly describe <i>how</i> you achieved improvements for this environmental initiative or, if relevant, any circumstances that delayed progress.			
Initiative #3			
Category 3: _____ Indicator 3: _____	Baseline (indicate measurement unit)	Current (indicate measurement unit)	Cost Savings
Calendar year			
Actual quantity (per year)			
Production unit (select one)	Earned Labor Hours Other -- specify (e.g. Gallons, length, etc.)	Production units	Production lbs.
Production Quantity			NA
Normalization factor (Current year production ÷ Baseline year production)			
Normalized quantity (Actual current year quantity - Actual baseline quantity) x Normalization factor			
Briefly describe <i>how</i> you achieved improvements for this environmental initiative or, if relevant, any circumstances that delayed progress:			
<p>1. Briefly describe the <i>impacts</i> or <i>wastes</i> eliminated resulting from the environmental initiative(s). If multiple initiatives, please indicate which specifically. Successfully reduced the quantity of trash sent to a waste to energy (WTE) facility through enhancements to site-wide recycling programs. Additionally, reduced used oil quantity sent off-site for energy recovery by reclaiming 6,243 gallons on-site for reuse. These efforts positively impacted a site significant environmental aspect (waste generation).</p>			
2. Are there other best management practices (BMPs) you can share correlating to your initiative(s)?			
<p>3. If the objectives and targets associated with the environmental improvement initiative(s) were not attained, please verify continued progress toward the environmental initiative(s). If multiple initiatives, please indicate which specifically.</p> <p>NA</p>			
<p>4. Please provide a narrative summary of progress made toward <i>qualitative, significant</i> EMS objectives and targets, if any.</p> <p>Completed 3 community outreach activities. Implemented 3rd year of 5 year site environmental improvement plan (installed additional pollinator garden to support maintenance of site Wildlife Habitat Certification. Continued integration of environmental requirements into GM global manufacturing system.</p>			
<p>5. Please list any state, U.S. EPA, or other partnership programs to which you are reporting this data (e.g., Energy Star, Project XL).</p> <p>Partners for Pollution Prevention</p>			
<p>6. Is your entity willing to share the environmental improvement initiative(s) and its best management practices (BMPs) at the ESP Annual Meeting and/or a Partners for Pollution Prevention quarterly meeting or conference? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>			

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.

1. 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., 2015) and the future year (e.g., 2016). 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 17	Future Year 20 18	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 checked="" type="checkbox"/> Water Use	<input checked="" type="checkbox"/> Total water used	9,225,681	8,962,565	Gallons
<input checked="" type="checkbox"/> Energy Use	<input checked="" type="checkbox"/> Electricity	47,594 MWh	45,594 MWh	kWh / MWh, Btu / MMBtu
	<input type="checkbox"/> Steam			kWh / MWh, gallons, ft ³
	<input checked="" type="checkbox"/> Natural gas	126,000 MMBtu	124,437 MMBtu	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"/> NO _x , SO _x , 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"/> Pathogens			MPN/ml, CFU/ml
<input type="checkbox"/> Non-hazardous Waste	<input type="checkbox"/> Landfill			Pounds, tons
<input type="checkbox"/> Hazardous Waste	<input type="checkbox"/> Incineration			Pounds, tons
	<input type="checkbox"/> Reused/recycled off-site			Pounds, tons, gallons
	<input type="checkbox"/> Other: _____			Pounds, tons, gallons
<input type="checkbox"/> Noise	<input type="checkbox"/> Noise			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

If you need assistance filling out the form, please contact the ESP program manager at either esp@idem.in.gov or 1-(800) 988-7901.

SECTION F

FUTURE YEAR ENVIRONMENTAL IMPROVEMENT INITIATIVE

CONTINUED

2. If the environmental improvement initiative(s) will be *qualitative* in nature, please describe. _____
3. 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)? _____

See attachment 1.

4. 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) General Motors LLC - Marion Metal Center

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, Marion Metal Center, 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 we must meet the requirement of implementing one (1) new, independent environmental improvement initiative each year of membership (for a total of four (4) initiatives), 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 four (4) 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



Date (month, day, year)

3/24/2018

Printed signature

Thomas A. Gallagher III

Title

Plant Manager

Attachment 1 – GM-Marion Metal Center

Section F

3. What activities or process changes do you plan to undertake to accomplish your initiative (e.g. technology changes in a particular process line, employee training)?

Water Use

- Optimize operation of cooling towers
- Optimize operation of weld water circulation
- Shutdown steam during heating season as opportunities are available
- Shutdown cooling towers during suitable times and when weld water flow allows

Electricity

- Replace andon boards with digital TV screens
- Replace select pneumatic pumps with electric
- Improve Sunday shutdowns
- Repair of compressed air leaks
- Shutdown of production lines

Natural Gas

- Shutdown steam during heating season as opportunities are available

Preliminary Goals for the next four years:

- Continued focus on water, electricity, and natural gas reduction opportunities
- Reduction in plant-fault scrap metal quantity
- Additions/enhancements to certified wildlife habitat footprint
- Material use reductions