



# 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  
MC 64-00, Room IGCN 1316  
100 North Senate Avenue  
Indianapolis, IN 46204-2251  
Telephone: (800) 988-7901  
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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 1<sup>st</sup> 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](mailto: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](mailto:esp@idem.IN.gov) or (800) 988-7901.

SECTION A		FACILITY INFORMATION	
Name of facility DSM Coating Resins			
Name of parent company (if applicable) Royal DSM			
Street address (number and street) 3110 W. St. Rd. 28			
City / State / ZIP code Frankfort, IN 46041			
Website of facility / company DSM.com			
CONTACT INFORMATION			
Name of Contact (Mr. / Mrs. / Ms. / Dr.) Mr. Kevin Goodnight or Ms. Laura Pirtle		Title US Safety, Health and Environmental Manager	
Telephone number (765) 654-2662	FAX number (765) 659-4725	E-mail address Kevin.Goodnight@dsm.com	
Mailing address (if different from facility address)			
City / State / ZIP Code			
REPORTING PERIOD			
Reporting period dates (mm/dd/yyyy – mm/dd/yyyy) April 2016- April 2017			
<b>1a.</b> Is this the fourth Annual Performance Report of your membership term? <input type="checkbox"/> Yes—If yes, answer question 1b. <input checked="" type="checkbox"/> No—If no, skip to the "Change in Information" section of this report.			
<b>1b.</b> Do you wish to renew your Indiana Environmental Stewardship Program membership? <input 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. DSM Frankfort is a member of the Clinton County LEPC and the Clinton County Safety Council. The site shares environmental performance information to the public through both committees. The site also hosted an open house in 2016.			
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 checked="" type="checkbox"/> Web site ( <a href="http://www.DSM.com">http://www.DSM.com</a> ) ) <input type="checkbox"/> Open house <input checked="" type="checkbox"/> Meetings <input type="checkbox"/> Press releases <input type="checkbox"/> 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 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? <u>3/6/2017</u>																																	
2.	Name, title, and organization of ISO 14001 EMS Lead Auditor who conducted the most recent EMS assessment: <u>Conducted by SRI, Lead Auditor Karen Reamue</u>																																	
3.	<p>Is the date of the most recent EMS assessment performed by an ISO 14001 EMS Lead Auditor within the past thirty-six (36) months?</p> <p><input checked="" type="checkbox"/> Yes—If yes, skip to Question 4.</p> <p><input type="checkbox"/> 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:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%; text-align: center;"><input type="checkbox"/> Yes</td> <td style="width: 10%; text-align: center;"><input type="checkbox"/> No</td> <td>Evidence of senior management support, commitment, and approval.</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> <td>A written environmental policy directed toward compliance, pollution prevention, and continuous improvement.</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> <td>Identification of the environmental aspects at the entity.</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> <td>Prioritization of the environmental aspects and a determination of those aspects deemed significant considering, at the minimum, environmental impacts and applicable laws and regulations.</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/> Yes</td> <td style="text-align: center;"><input type="checkbox"/> No</td> <td>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. 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<div style="display: flex; justify-content: space-between;"> <span>Signature of ISO 14001 EMS Lead Auditor</span> <span>Date (month, day, year)</span> </div>																																		
4.	<p>Were any deficiencies found during the most recent EMS assessment?</p> <p><input type="checkbox"/> Yes—If yes, describe any deficiencies found and the corrective action taken to address each deficiency: _____</p> <p><input checked="" type="checkbox"/> No</p>																																	
5.	<p>What type of protocol was used to perform the independent EMS assessment?</p> <p><input type="checkbox"/> ISO 14001:2015 Certified audit</p> <p><input type="checkbox"/> ISO 14001:2004 Certified audit</p> <p><input type="checkbox"/> ESP Independent Assessment Protocol</p> <p><input checked="" type="checkbox"/> Other (please specify): <u>RC14001:2014 Certified Audit</u></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 (please provide a copy of the most recent certificate)?</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 10%; text-align: center;"><input type="checkbox"/></td> <td>ISO 14001:2015</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>ISO 14001:2004</td> </tr> <tr> <td style="text-align: center;"><input type="checkbox"/></td> <td>Responsible Care EMS</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Responsible Care 14001</td> </tr> </table> <p><input type="checkbox"/> No</p>	<input type="checkbox"/>	ISO 14001:2015	<input type="checkbox"/>	ISO 14001:2004	<input type="checkbox"/>	Responsible Care EMS	<input checked="" type="checkbox"/>	Responsible Care 14001																									
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## SECTION C

ENVIRONMENTAL MANAGEMENT SYSTEM ASSESSMENT  
CONTINUED

7. When was the last Senior Management review of your EMS completed?  
 Month / Year: April 2016  
 Who headed the review (name and title)? Krijn van-Loon, Director of Manufacturing US

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: Annual Corporate SH&E review  
 Month(s) / Year(s): November 2016  
 Who conducted the audit(s) (e.g., facility staff, corporate, third party)? Ken Jones, US Regional Safety, Health and Environmental Manager

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?  
 The site did not experience any emergency situation in 2016. We did have 2 accidental trips of the site alarm systems and used these situations as an evaluation for response. The emergency response plan is reviewed and updated annually in December via MOC (Management of Change). No changes were required of the emergency or contingency plans.

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.

## 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.  
 The site received the DSM Corporate Safety, Health and Environmental award.
2. Has your facility taken advantage of any ESP incentives? If so, please describe the implementation process and list additional benefits IDEM should consider.  
 Our facility has not yet needed to take advantage of any ESP incentives at this time.
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?  
 The site was already registered prior to ESP membership.

## 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](mailto:esp@idem.IN.gov).

## Initiative #1

Category 1: _____ Indicator 1: _____	Baseline (indicate measurement unit)	Current (indicate measurement unit)	Cost Savings
Calendar year	2015 water usage	2016 water usage	Reduction in water usage over previous year
Actual quantity (per year)	2,299,000 Cu Ft	1,962,300 Cu Ft	\$4,914
Production unit (select one)	Earned Labor Hours      Production units      XProduction lbs. Other -- specify (e.g. Gallons, length, etc.)		
Production Quantity	45,225,314	43,351,324	NA
Normalization factor (Current year production ÷ Baseline year production) .9585632			
Normalized quantity (Actual current year quantity - Actual baseline quantity) x Normalization factor 1,796,337			

Briefly describe *how* you achieved improvements for this environmental initiative or, if relevant, any circumstances that delayed progress.  
 The site implemented a Automated High Pressure Water Cleaning system for cleaning vessels/tanks. The old system was dependent upon operators to complete the cleaning manually and did not have a set time for tank cleaning. Often the operators set the system and did other tasks so the time for cleaning varied and water usage was not regulated. The automated system cleans at a set programed frequency/time using water at a higher pressure resulting in less water usage.

## 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. NA			
1. Briefly describe the <i>impacts or wastes</i> eliminated resulting from the environmental initiative(s). If multiple initiatives, please indicate which specifically. 4.2% Less production in 2017 14.6% Less water used in 2017 = 10.4% total reduction in water usage			
2. Are there other best management practices (BMPs) you can share correlating to your initiative(s)? Our site used best available technology, corporate initiatives and practices used at other DSM facilities as guidance.			
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. NA			
4. Please provide a narrative summary of progress made toward <i>qualitative, significant</i> EMS objectives and targets, if any. NA for 2016			

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).

NA

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? ☒ Yes ☐ No

## 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 2015	Future Year 2020	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	2,486,750 kWh	1,989,400 kWh	kWh / MWh, Btu / MMBtu
	<input type="checkbox"/> Steam			kWh / MWh, gallons, ft <sup>3</sup>
	<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 <sub>2</sub> E
	<input type="checkbox"/> VOCs			Pounds, tons
	<input type="checkbox"/> NO <sub>x</sub> , SO <sub>x</sub> , PM <sub>2.5</sub> , PM <sub>10</sub> , 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](mailto: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. Energy usage reduction of 20% by year 2020
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)? Use of shared Best Practices and Best Available Technology
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) DSM Coating Resins

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, DSM Coating Resins Frankfort, Indiana, 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 1<sup>st</sup> 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 Ben Hopkins Date (month, day, year)  
March 31, 2017

Printed signature  
Ben Hopkins Title  
Site Manager