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
MC 64-00, Room IGCS W041
100 North Senate Avenue
Indianapolis, IN 46204-2251
Telephone: (800) 988-7901
FAX: (317) 233-5627
E-mail: esp@idem.IN.gov

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
Sony DADC

Name of parent company (*If applicable*)
Sony Corporation of America

Street address *(number and street)*
1800 North Fruitridge Ave

City / State / ZIP code
Terre Haute, Indiana 47804

Web site of Facility/Company
www.sonydadc.com

CONTACT INFORMATION

Name of Contact (Mr. / Mrs. / Ms. / Dr.)
Mr. Tony C. New

Title
Director Sustainability and Technology

Telephone number
812-462-8112

FAX number
812-462-8760

E-mail address
tony.new@sonydadc.com

Mailing address (*if different from facility address*)

City / State / ZIP Code

REPORTING PERIOD

Reporting period dates (*month, day, year*)
January 1, 2011 to December 31, 2011

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: Added the manufacturing of the Vita chip for PlayStation
- ☐ 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. See Attachment 1

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? December 2011

2. Is the date of the most recent EMS assessment performed by an ISO 14001:2004 EMS Lead Auditor within the past 36 months?

   ☒ Yes—If yes, skip to Question 3.

   ☐ 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:

   ☐ 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 14001:2004 EMS Lead Auditor *Date (month, day, year)*

3. Were any deficiencies found during the most recent EMS assessment?

   ☐ No—If no, skip to Question 4.

   ☒ Yes—If yes, describe any deficiencies found and the corrective action taken to address each deficiency: See Attachment 2

4. Name, title, and organization of ISO 14001:2004 EMS Lead Auditor that conducted the most recent EMS assessment: Denise Lank, Auditor, Bureau Verit

5. What type of protocol was used to perform the independent EMS assessment?

   ☒ ISO 14001:2004 Certified audit
   ☐ Responsible Care EMS audit
   ☐ Responsible Care 14001 audit
   ☐ ESP Independent Assessment Protocol
   ☐ Other *(please specify)*:

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 14001:2004
   ☐ Responsible Care EMS
   ☐ Responsible Care 14001

   ☐ No.

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

   Month / Year: March 7, 2012

   Who headed the review *(name and title)*? Michael L . Mitchell, Executive Vice President , Chief Technology Officer

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: EMS documentation, Structure and Objectives and Targets

Month(s) / Year(s): February/2012

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?

No environmental emergencies in 2011. Plan has been updated due to retirement of Emergency Coordinators.

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).
See Attachment 2 with minor findings. Internal auditing findings required update to titles and names in EMS documents.

☐ 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.
2011 Indiana Governor's Award for Five Years Continuous Improvement, Conserving Hoosier Industrial Power (CHIP) grant 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.
No

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?
Previously registered.

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: Energy Use Indicator: CO2 equivalent	Baseline Quantity	Future Goal Quantity	Current Quantity	Cost Savings
Calendar year	2010	2011	2011	
Actual quantity (per year)	41,031	37673	32832	
Normalized quantity (per year)	0.000064	.00005	0.000047	
Basis for your normalizing factor (e.g., gallons of paint produced)	Shipped discs produced			
Measurement unit (e.g., pounds)	metric tons CO2e			

Briefly describe how you achieved improvements for this environmental initiative or, if relevant, any circumstances that delayed progress.
See Attachment 3

Please list any state, U.S. EPA, or other partnership programs to which you are reporting this data (e.g., Energy Star, Project XL).
DOE Better Buildings, Better Plants (was Save Energy Now)

(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.

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., 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 11	Future Year 20 12	Unit
☐ Material Procurement	☐ Recycled content			Pounds, tons
	☐ Hazardous/toxic components			Pounds, tons
☐ Suppliers' Environmental Performance	☐ Specify indicator: _____			As specified for the particular indicator
☐ Material Use	☐ Materials used			Pounds, tons
	☐ Hazardous materials used			Pounds, tons
	☐ Ozone depleting substances used			CFC-11 equivalent pounds
	☐ Total packaging materials used			Pounds, tons
☐ Water Use	☐ Total water used			Gallons
☐ Energy Use	☐ Electricity			kWh / MWh, Btu / MMBtu
	☐ Steam			kWh / MWh, gallons, ft^3
	☐ Natural gas			Btu / MMBtu
	☐ Diesel			Gallons
	☐ Propane / LPG			Btu / MMBtu, gallons
	☐ Gasoline			Gallons
	☐ Solar			kWh / MWh
	☐ Wind			kWh / MWh
	☐ Landfill gas			Btu / MMBtu
	☐ Combined heat and power			kWh / MWh, Btu / MMBtu
	☐ Other: _____			_____
☐ Land and Habitat	☐ Land and habitat conservation			Square feet, acres
	☐ Community land revitalization			Square feet, acres
☐ Air Emissions	☐ Total GHGs			MTCO2E
	☐ VOCs			Pounds, tons
	☐ NOx, SOx, $PM_{2.5}$, PM_{10}, or CO			Pounds, tons
	☐ Air toxics			Pounds, tons
	☐ Odor			European Odour Units
	☐ Radiation			Curies, Becquerels
	☐ Dust			Pounds, tons
☐ Discharges to Water	☐ COD or BOD			Pounds, tons
	☐ Toxics			Pounds, tons
	☐ Total suspended solids			Pounds, tons
	☐ Nutrients			Pounds, tons of N or P
	☐ Sediment from runoff			Pounds, tons
	☐ Pathogens			MPN/ml, CFU/ml
☒ Non-hazardous Waste ☐ Hazardous Waste	☐ Landfill			Pounds, tons
	☐ Incineration			Pounds, tons
	☒ Reused/recycled off-site	6900 tons	6700 tons	Pounds, tons, gallons
	☐ Other: _____			Pounds, tons, gallons
☐ Noise	☐ Noise			dBA
☐ Vibration	☐ Vibration			Inches per second
☐ Products	☐ Expected lifetime energy use			kWh / MWh, Btu / MMBtu
	☐ Expected lifetime water use			Gallons
	☐ Expected lifetime waste to air, water, or land from product use			Pounds, tons
	☐ Waste to air, water, or land from disposal or recovery			Pounds, tons

2. 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)? Case Recycling (See Attachment 4)

3. 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*) Sony DADC

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, Sony DADC, 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	Date (*month, day, year*)
	Executive Vice President & CTO	March 30, 2012
Printed signature Michael L. Mitchell		

Attachment 1 - PUBLIC OUTREACH AND PERFORMANCE REPORTING

- Sony DADC had our annual Earth Day Calendar Contest. Employees can sponsor a child from age 6-14. The contest theme was "Earth: Use only what you need". A 12-month calendar is produced using the winning artwork. As part of the contest, Sony DADC has an Earth Day celebration for the winners and semi-finalist. Each child received a recycled bag with two DVD movies (made in our facility), a live tree to plant, recycled notebook, Earth Day activity sheets and a copy of the calendar. One of the activities was a demonstration of how to correctly plant the tree they were given.
- Sony DADC received the 2011 Indiana Governor's Award for Five Years Continuous Improvement.
- Sony DADC received a Conserving Hoosier Industrial Power (CHIP) grant for $374K to install a power sub-metering system to measure power use at 165 points in the facility.
- Sony DADC participated in a Zero Landfill Forum sponsored by the Our Green Valley alliance for sustainability. The Forum gathered industrial and governmental representatives to discuss their successes in waste management and reduction.

Attachment 2 – ISO Audit Minor Findings

1. Significant aspects are required to have operational controls through work instructions, procedures or some other written manner. A few aspects were missing operational controls.
    a. CORRECTIVE ACTION: The Aspect List was updated and, where needed, the key references were listed for operational controls.
2. A damaged super sack full of filter-cake was observed next to the covered roll-off container that is used to store the filter-cake.
    a. CORRECTIVE ACTION: The filter-cake was placed into the container. Work instructions have been modified, and a visual survey of the area will be completed on a daily basis.
3. An unmarked drum partially filled with a liquid was observed.
    a. CORRECTIVE ACTION: The drum was properly disposed of, and a visual survey of the area will be completed on a daily basis.
4. Waste drums in Chemical Storage require proper aisle space.
    a. CORRECTIVE ACTION: Waste drums are stored correctly with aisle space.
5. There is no evidence of a required leak rate being calculated for chiller refrigerant replacement.
    a. CORRECTIVE ACTION: The existing leak log spreadsheet has a calculation column added and is controlled in the document management system.

Attachment 3 – Energy Initiatives

Last year Sony DADC listed the Machine Air Supply project for energy reduction. During the installation of the project, the filtration system for the ozone was found to be very labor and cost intensive. For this reason, the project is being reviewed and re-engineered.

During 2011, the following energy projects were completed.

- Reset of temperature in chilled water system from 44 degrees to 48 degrees F
- Installation of reduced pressure drop HEPA filters in clean room air handler units
- Compressor air leak detection and repair
- Equipment shutdown scheduling procedure improvements
- Increase in wind energy certificate use

Attachment 4 – Waste/Recycling Initiative

Sony DADC will collect scrap DVD and Blu-ray polypropylene (PP) cases from our manufacturing operations and will send them to our case supplier. The case supplier will grind the scrap and blend the ground material with virgin PP in a 50/50 blend. This blended material is then used to manufacture new DVD cases for Sony DADC use in our final product. This completes the closed loop for polypropylene case scrap. For CY2012, Sony DADC estimates over 200 US tons of PP cases will be taken out of our waste stream and recycled into new 50/50 blend cases.