FORM **MA-200** (3-14-2006)

U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. CENSUS BUREAU

## 2005 SURVEY OF POLLUTION ABATEMENT COSTS AND EXPENDITURES (PACE)

Mail your completed form to:

**U.S. CENSUS BUREAU** 1201 East 10th Street Jeffersonville, IN 47132-0001

Please read the accompanying instructions and definitions before completing the form.

Need help, a copy of the instructions, or have questions about filling out this form?

Visit our Web site at www.census.gov/econhelp/pace In correspondence pertaining to this report refer to the ID number (ID) (11 digits)

## INFORMATION COPY DO NOT USE TO REPORT

Please correct errors in name, address, and ZIP Code. ENTER street and number if not shown.

NOTICE - YOUR RESPONSE IS REQUIRED BY LAW (Title 13, United States Code). By section 9 of the same law, YOUR REPORT IS CONFIDENTIAL. It may be seen only by persons sworn to uphold the confidentiality of Census Bureau information and may be used only for statistical purposes. The law also provides that copies retained in your files are immune from legal process.

Ite	em 1	FACILITY INFORMATION			
Α.	A. Mark "X" the box that best describes the status as of December 31, 2005, of the facility identified in the address box above.				
		In operation as of December 31, 2005  Temporarily idle (intend to resume operations)  How long as of December 31, 2005?			
	106	Permanently ceased operations  Date closed?			
	104	Date sold or leased?  105    Wonth Year   SOLD OR LEASED TO			
		Name			
		Street			
		City State ZIP Code			
	110	time period covered by this report a calendar year?  Yes  No – Enter time period covered  To  112  Month Year  To  113			
	CONTINUE WITH Item 1 ON PAGE 2.				

R D F	JOW TO DEPORT DOLLAR JIGURES	Dollar figures should be <b>rounded to thousands</b> of dollars.  If a figure is \$1,025,628.79:		\$Mil. Thou.	Dol.
	<ol> <li>Report the followi</li> <li>Capital expending other structures fixed asset acco</li> <li>Total value of p</li> </ol>	r INFORMATION – Continued  Ing information for this facility in 2005.  Itures, including all outlays during the year for buildings and in machinery, and equipment that are chargeable to the fount and for which depreciation or amortization reserves are maintaine roducts shipped, including interplant transfers, exports, ots.		\$Mil. Thou.	Dol.
	<b>3.</b> Total employment	ent, including full- and part-time and leased employees		Mark "X" if Zero Nu	mber
D.	abatement capital  120 These expenexpenditures  121 These expenexpenexpenexpenexpenexpenexpenexp	that best describes this facility's pollution abatement expenditures and operating costs for treatment, disposal, recyclin additures were \$0 in 2005. (There were NO pollution abatement is for 2005.) Inditures were included in rent, taxes, or lease agreements. Inditures were between \$1 and \$999.	for 2005. Inc g and polluti Go to Item on page 7. → Go to Ite	on prevention.	
	THOSE EXPE	inates of the more than poor.	on page :		

Item 2 POLLUTION ABATEMENT ACTIVITIES  A. In column (1), report the number of air pollution treatment control devices that were operating at the beginning of 2005. In column (2), report the number of newly installed devices during 2005. (See page 7 in the guidelines for instructions.)				
Control Device	Mark "X if Zero	(1) Total Number of Devices Operating Facility-Wide (Beginning of 2005)	Mark "X"	(2) Number of Devices Newly Installed (During 2005)
1. Electrostatic precipitators (ESP)	. 201		214	
<b>2.</b> Baghouses	. 202		215	
3. Fabric filters	. 226		227	
4. Venturi scrubbers	. 203		216	
<b>5.</b> Non-Venturi wet scrubbers	. 228		229	
6. Acid-gas scrubbers	. 204		217	
7. Carbon adsorbers			218	
9. Low-NOx burners	. 239		240	
<b>10.</b> Flares	. 207		220	
11. Process incinerators/boilers	. 253		284	
12. Refrigerated condensers	. 208		221	
<b>13.</b> Biofilter/bioreactor	. 209		222	
<b>14.</b> Selective non-catalytic reduction (SNCR)	. 210		223 🗆	
15. Selective catalytic reduction (SCR)	_		224	
16. Continuous Emissions Monitoring Systems (CEMS)	_		288 🗆	
<b>17.</b> Other	. 212		225	
Describe –				
B. Mark "X" the water pollution abatement techniques guidelines for instructions.)  230 Physical (containing, screening, filtration, U 231 Biological (activated sludge, aeration lagod 232 Chemical (oxidation, reduction, neutralization) 233 Thermal (incineration, pyrolysis, etc.)	JV disinfe on, biolog	ction, underground injecti ical filter, etc.)		e 7 in the
What quantity of wastewater was treated on-sit	·o?	004		
2. What quantity of wastewater was treated off-sit				
C. Mark "X" the solid waste pollution abatement techniquidelines for instructions.)	niques tha	at were used at this facility	in 2005. <i>(Se</i>	e page 7 in the
270 Physical (containment, dewatering, landfill. 271 Biological (composing, landfarming, phyto 272 Thermal (incineration, pyrolysis, etc.)  1. What quantity of solid waste was treated on-sit	remediati			Indicate units.  k "X" only one box.)  Short tons
	274		276 🗆 (	Other – <i>Describe 📈</i>
3. What quantity of solid waste was disposed of off-site?	278		J <sub>277</sub>	

POLLUTION ABATEMENT CAPITAL EXPENDITURES				
Report the value of <b>TOTAL POLLUTION ABATEMENT CAPITAL EXPENDITURES</b> is provide separate values for each component of pollution abatement capital expending		even if yo	u are unab	ole
<ul> <li>Report only the incremental capital expenditures for pollution abatement activities discussion of "incremental" costs and page 8 for an example.)</li> <li>Include only the incremental cost of facility/process upgrades/modifications for where the process is a suppression of the process of</li></ul>				
abatement. (See page 5 in the guidelines for a discussion of "primary purpose.")  • Include all installation and start-up costs for pollution abatement expenditures. Inc	lude labor only whe	en contrac	ted	
specifically for installation.  • Include capital expenditures related to monitoring and testing.				
<ul> <li>Do NOT include pollution abatement capital expenditures from a previous year.</li> <li>Do NOT include depreciation. (Depreciation expenses should be reported in Item</li> </ul>	4 A5.)			
<ul> <li>Do NOT include capital expenditures related to site cleanup. (Site cleanup costs sl</li> <li>Do NOT include capital expenditures related to product redesign or reformulation generated by consumers or users of products manufactured at this facility. (Produshould be reported in Item 5 C.)</li> </ul>	intended to reduce	the pollut	ion	
A. Report the value of pollution abatement capital expenditures by the following to 2005. (See page 3 in the guidelines for definitions and pages 8 and 13–14 for expenditures.)	our activity catego (xamples.)	ries for tl	nis facility	in
	Mark "X" if less than \$500.00	\$Mil.	Thou.	Dol.
1. Treatment/capture	301			
<b>2.</b> Recycling	302			
<b>3.</b> Disposal	303			
Pollution prevention		nd in		
Item 3 A4 above. (Mark "X" all that apply.) (See page 3 in the guideline		eu III		
Raw materials substitution or modifications Leak and spill prevention Process/equipment modification/redesign  Other				
3. Add Item 3 A1-4 to calculate TOTAL POLLUTION ABATEMENT CAPITAL EXPOSITION ABATEMENT CAPITAL EXPENDITURES even if you are	PENDITURES in 200 unable to provide s	05. Repor separate	t the value values for	е
Item 3 A1–4.	Mark "X" if less than	\$Mil.	Thou.	Dol.
TOTAL POLLUTION ABATEMENT CAPITAL EXPENDITURES	\$500.00 <sub>. 310</sub>			
What percentage of TOTAL POLLUTION ABATEMENT CAPITAL EXPENDITURE three types of media for this facility in 2005? (See page 3 in the guidelines for continuous)	definitions and pag		structions	:.)
		if Zero	Percent	
<b>1.</b> Air emissions		. 321		%
2. Water discharges		. 322		%
<b>3.</b> Solid waste		323		%
<b>4.</b> Total			100	%
D. Report the gross book value (acquisition costs) of pollution abatement capital a December 31, 2005 (adjusted for assets sold, retired, scrapped, and destroyed; (See page 9 in the guidelines for a definition.)	not adjusted for de	ty as of epreciation	on charges	; <i>)</i> .
	Mark "X" if less than \$500.00	\$Mil.	Thou.	Dol.

I	em 4 POLLUTION ABATEMENT OPERATING COSTS				
	port the value of <b>TOTAL POLLUTION ABATEMENT OPERATING COSTS</b> in <b>Item 4</b> B bovide separate values for each component of pollution abatement operating costs in <b>Item</b>		you are	unable to	
	<ul> <li>Report only the incremental operating costs for pollution abatement activities. (See page of "incremental" costs and page 9 for an example.)</li> </ul>	5 in the guid	delines fo	r a discus	ssion
	<ul> <li>Include operating costs related to monitoring, testing, and on-site administration costs as protection.</li> </ul>	ssociated wit	h environ	mental	
	<ul> <li>Do NOT include operating costs related to site cleanup. (Site cleanup costs should be rejected)</li> </ul>	ported in Ite	m 5 B.)		
	<ul> <li>Do NOT include operating costs related to product redesign or reformulation intended to consumers or users from products manufactured at this facility. (Product redesign and/or reported in Item 5 C.)</li> <li>Cost offsets, such as revenue from recycling, should NOT be deducted from costs reported.</li> </ul>	r reformulatio	on costs s	should be	·
	be reported in Item 6 A.)	eu iii tiiis itei	11. (COSt C	7115615 5110	Julu
Α.	Report the value of pollution abatement operating costs by the following five cost cat (See pages 9–12 in the guidelines for definitions and examples.)	Mark "X" if less than	this facili \$Mil.	ty in 200 Thou.	5. Dol.
	<b>1.</b> Salaries, wages, and benefits (for all time spent by professional, administrative, operating, and maintenance employees on pollution abatement activities)	\$500.00			
	2. Energy costs (electricity, fuels, and other energy costs)	_			
	<b>3.</b> Materials and supplies (treatment chemicals, catalysts, replacement parts, etc.)	403			
	<b>4.</b> Contract work, leasing, and other purchased services (including payments to government for industrial sewage services and solid waste disposal, and recycling	404 🗀			
	<b>5.</b> Depreciation	428			
В.	Add Item 4 A1–5 to calculate TOTAL POLLUTION ABATEMENT OPERATING COSTS TOTAL POLLUTION ABATEMENT OPERATING COSTS even if you are unable to prov Item 4 A1–5.				
		if less than \$500.00	\$Mil.	Thou.	Dol.
	TOTAL POLLUTION ABATEMENT OPERATING COSTS	. 410			
C.	What percentage of TOTAL POLLUTION ABATEMENT OPERATING COSTS in Item 4 following four pollution abatement activity categories for this facility in 2005? (See p. definitions and pages 12, 14 for exemples)	<b>B</b> was sperage 3 in the	nt for ead guideline	ch of the es for	
	definitions and pages 13–14 for examples.)		Mark "X	" Perce	nt
	<b>1.</b> Treatment/capture		if Zero		%
	<b>2.</b> Recycling				%
	<b>3.</b> Disposal		. 423		%
	<b>4.</b> Pollution prevention			100	%
	<b>5.</b> Total			. —	
	a. Indicate which components are included in the POLLUTION PREVENTION value Item 4 C4 above. (Mark "X" all that apply.) (See page 3 in the guidelines for de		ed in		
	425 Raw materials substitution or modifications 426 Leak and spill prevention				
	427 Process/equipment modification/redesign 428 Other				
D.	What percentage of TOTAL POLLUTION ABATEMENT OPERATING COSTS in types of media for this facility in 2005? (See page 3 in the guidelines for definitions a	<b>B</b> was spend page 12 i	nt for eac for instru <b>Mark</b> "X	ctions.)	
	<b>1.</b> Air emissions		if Zero		%
	2. Water discharges				%
	<b>3.</b> Solid waste		. 407		%

100

%

ŀ	tem 5 COSTS NOT INCLUDED IN PREVIOUS ITEMS	Mark "X"			
		if less than	\$Mil.	Thou.	Dol.
A	What were the total payments to government entities for PERMITS AND FEES related to pollution abatement for this facility in 2005? (See page 12 in the guideling)	\$500.00			
	for instructions and page 14 for an example.).	<i>es</i> <sub>501</sub>			
	, , , , , , , , , , , , , , , , , , ,				
R	. What were the capital expenditures and operating costs for SITE CLEANUP for this	facility in 200	57 (See	nage 12 i	'n
٥.	the guidelines for instructions and page 14 for an example.)	racinty in 200	J: 1066	page 12 i	11
		Mark "X"			
		if less than \$500.00	\$Mil.	Thou.	Dol.
	1. Capital expenditures	503			
	<b>2.</b> Operating costs	505			
_	What was the social amonditure and social material to DDODUCT DEDE	CICNf		. !	-I
C.	<ul> <li>What were the capital expenditures and operating costs related to PRODUCT REDES to reduce the pollution generated by consumers or users of products manufactured</li> </ul>	SIGN or retori	nuiatioi <i>i (down</i>	i intende: stream	a
	pollutants) in 2005? (See page 12 in the guidelines for instructions and page 14 for	examples.)	, (aovii	Stream	
		Mark "X" if less than	\$Mil.	Thou.	Dol.
		\$500.00	φίνιιι.	Tilou.	DOI.
	1. Capital expenditures				
	1. Capital expenditures	507			
	2 On southing and the				
	2. Operating costs	509 L			
li	tem 6 COST OFFSETS				
	COST OFFSEIS				
Re	eport the value of cost offsets for your facility in 2005. (See page 12 in the guidelines for in	nstructions and	l page 1	4 for exan	nples.)
	,,				.,,
	<ul> <li>Include only cost offsets from activities whose primary purpose is pollution abatement.</li> </ul>				
		_			
	<ul> <li>Include only cost offsets associated with the activities for the costs reported in Item 4</li> </ul>				
	• Do NOT include cost reductions from energy-efficiency improvements or revenue from	recycling activ	vities tha	it are	
	profitable in the absence of environmental concerns.				
A.	. What was the total value of cost offsets for this facility in 2005?				
	,	Mark "X" if less than	\$Mil.	Thou.	Dol.
		\$500.00	φινιιι.	Tilou.	D01.
	COST OFFSETS	601			
R	. Which types of cost offsets were included in Item 6 A above? (Mark "X" all that a	nnly)			
٥.	without types of cost offsets were included in them of above: (mark X an that a	рргу./			
	603 Revenue from recycling				
	604 Energy cost savings				
	605 Reduced material costs				
	606 ☐ Other – <i>Describe</i> :				
	607				

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FORM MA-200 (3-14-2006)

Item 7 BURDEN				
Hours  Estimate the number of hours spent filling out this form. Include the time you and				
all other staff spent reviewing the instructions, preparing the estimates and completing the survey form.				
Item 8 CERTIFICATION				
A. Provide the following information on the person to contact	regarding this survey.			
Name of person to contact regarding this report (Please print)	Telephone			
	Area code Number Ext.			
E-mail address	Fax number			
<b>B.</b> Provide the name, title and signature of the person who verof their knowledge accurate. The authorizing official may be safety official.	rifies that the information reported in this survey is to the best e a plant manager, vice president, or environmental health and			
Name of authorized manager (Please print)	Title			
Signature of authorized manager	Date			
Feel free to add any comments about the survey in the space	provided below. Thank you for your participation.			
Comments:				