# BONDING WORKSHEETS FOR WASTE INCINERATORS

Revised August 30, 2001



#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

### **General Information**

Permits: Please list all permits, approvals, licenses, registrations, other bonds, etc. for this facility.

I.D.# <sup>1</sup>	Authority <sup>2</sup>	Summary <sup>3</sup>

<sup>1</sup>. List the permit I.D. number, registration number, etc. If there is no number, put in "none".

<sup>2</sup> List the issuing authority's name, address and telephone number

<sup>3.</sup> List any closure features or monitoring requirements. As examples: For storage tanks, list the number, type and size of tanks. For NPDES permits list the number of outfalls to be monitored and ponds/plants to be maintained and/or closed.

Date Prepared

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

I.D. Number

## BONDING WORKSHEET A INCINERATOR DECONTAMINATION

*How do I start?* Select a likely "worst case" scenario where you would have a maximum amount of the facility open and in need of closure. Provide a description of the scenario with references to site development stages:

1.		kimum volume of waste to be removed from storage and n pipes, lines and equipment.		CY
2.	not	cost to dispose of waste off-site (this should include, but be limited to sampling, analysis, reporting and sportation costs).		\$/CY
3.	Volume of pipes, lines and equipment of the total incineration system to be decontaminated			CY
4.	Unit cost to decontaminate equipment.			\$/CY
5.			sq. ft.	
6.	Unit	cost to decontaminate surfaces.		\$/sq. ft.
7.	Volu	ume of waste generated during decontamination.		CY
8.	. Unit cost to dispose of decontamination wastes		\$/CY	
9.		nber of verification samples needed to verify ontamination.		
10.	<ol> <li>Unit cost to sample, analyze and report results (this should include any transportation and/or shipping costs)</li> </ol>			\$/sample
11.	<ol> <li>Estimate volume of process residuals (scrubber waste, quench water, ash, etc.)</li> </ol>			CY
12.	Cos	t for facility maintenance:		LS
13.				LS
14.	Cos	t Summary		
	a.	Waste removal (line 1 x line 2)	\$	
	b.	Equipment decontamination (line 3 x line 4)	\$	
	C.	Surface decontamination (line 5 x line 6)	\$	
	d.	Decontamination waste disposal (line 7 x line 8)	\$	
	e.	Sampling and analysis (line 9 x line 10)	\$	
	f.	Process residual disposal (line 11 x line 8)	\$	
	g.	Maintenance (line 12)	\$	
	h.	QA/QC (line 13)	\$	
		Total	\$	

(Place this total on Summary Cost Worksheet – line 1)

2540	-FM-B	WM0582 6/2005		
	Date	Prepared COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTE BUREAU OF WASTE MANAGEMENT		I.D. Number
L		BONDING WORKSHEET E SURFACE WATER MONITOR		
So	lid V	aste Surface Water Sampling		
1.	Nur	nber of surface points monitored for Solid Waste Permit		
2.		t cost to sample a surface point ord keeping and shipping)		\$/point
3.	Uni	t cost to analyze sample(s)		
	a.	Quarterly (25 PA Code §283.233)		\$/point
	b.	Annually (25 PA Code §283.233)		\$/point
4.		t cost to analyze data (includes review of lab QA/QC data, abase input, form completion, and data review)		\$/point
5.	Cos	t to sample and analyze: quarterly (line 2 + line 3a + line 4)		\$/point
6.	Cos	t to sample and analyze: annually (line 2 + line 3b + line 4)		\$/point
7.	Nur	nber of years of sampling ( + time to close)		years
NP	DES	Surface Discharge Sampling		
8.	Nur	nber of outfalls monitored		
9.	Мо	nitoring frequency (i.e. monthly, quarterly, etc)		
10.	0. Number of samples to be taken per point/year			
11.		t cost to sample a surface point (record keeping and oping)		\$/point
12.		t cost to analyze sample(s) (including data review and pleting DMR)		\$/point
13.	Nur	nber of years of sampling ( + time to close)		years
14.	Cos	st Summary –Surface Water Monitoring		
	a.	Cost of Quarterly Surface Water Monitoring (line 1 x "4" x line 5 x line 7)	\$	
	b.	Cost of Annual Surface Water Monitoring (line 1 x line 6 x line 7)	\$	
	C.	Cost of NPDES Monitoring (line 8 x line 10 x [line 11 + line 12] x line 13)	\$	
	d.	NPDES renewals (includes application development, fees, etc.) use 10% of line 14c	\$	
		Subtotal	\$	

Adjustment for resampling, assessments, etc.

- a. Use 0% of subtotal if no assessments in last 2 yrs.
- b. Use 5% of subtotal if assessment in last 2 yrs.
- c. Use 10% if in assessment, abatement or increased monitoring

\$

Total \$

(Place this total on Summary Cost Worksheet - line 2)

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### **BONDING WORKSHEET C** OTHER MONITORING AND REPORTING

Please list the annual costs to maintain the following permits/registrations that apply. Additional space is provided for items applicable to your facility, but not listed.

	<b>Total</b> (sum of lines 1 to 10 x line 11)	\$
11.	Number of years of monitoring/maintenance (+ time to close)	 years
10.	Other	\$
9.	Other	\$
8.	Other	\$
7.	Other	\$
6.	Other	\$
5.	UST/AST registration	\$
4.	Local permit or Host Agreement requirements	\$
3.	Solid Waste Annual Report preparation cost	\$
2.	NSPS Annual Report preparation cost	\$
1.	Title V or other air permit (include the annual permit fee, cost to complete emissions inventory and emissions fees)	\$

**Total** (sum of lines 1 to 10 x line 11)

(Place this total on Summary Cost Worksheet – line 3)

Date	Prepared COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT	I.D. Number
	BONDING WORKSHEET D SUMMARY COST WORKSHEET	
Cost S	ummary – Incinerators	
1.	Decontaminating the Facility	\$
2.	Surface Water Monitoring	\$
3.	Other Monitoring	\$
4.	Other Costs <sup>1</sup>	\$
5.	Other Costs <sup>1</sup>	\$
	Subtotal	\$
Inflatio	n	
6.	Inflation rate (projected inflation for the next three years based on the inflation for the prior three years).	%
7.	Inflation cost for facility (subtotal x line 6)	\$
Contingency and administrative fees		
8.	Administrative fees (10%) (subtotal x 0.1)	\$
9.	Contingency fee amount (subtotal x rate of contingency fee from Table 1)	\$
	<b>Total</b> (subtotal + line 7 + line 8 + line 9)	\$

<sup>&</sup>lt;sup>1</sup> You should include any costs that would be incurred by the Department, but were not included in these sheets. Provide separate sheets for documentation.