

Pennsylvania Base Program Description Appendices XIV - XX

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3. G	WASTE IVIAINI	-ES I Mailing Addres						A. Str P. B. Str	te Manifest AB2	is required Documen 884	t Number 803	law.	
5.1	Transporter 1 Comp	any Name		6. I .	US EPA	D Number		C. Stu	nte Trans. Il A-AH) 		ring and a second	
7. 1	Transporter 2 Comp	any Name		8. 1	US EPA	D Number		D. Tra	insporter's l	Phone (
9. 1	Designated Facility Nai	me and Site Ad	dreas	10.	US EPA I) Number		F. Tra G. Sta	A-AH nsporter's F nte Facility's	1 hone (<u>d</u>
11.	US DOT Description	Including Prope	er Shipping Name, Ha:	zard Class, a	nd ID Number)	r de ser	12. Cont	H. Fa	ility's Phon 13 Tota	en (Cressien) N Cressien	14. Unit	Waste	No.
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J. A 	Additional Descriptions Haz. Code Physic	for Materials L al State	sted Above (include)	physical stat Haz. Code	e and hazard co Physical State		an y ^A lag _{an} 1971 - Alagan Roman yang An	K. Han a.	dling.Codes	for Waste		lbove No. 19 No. 19	jan 44. 1
15.	Special Handling hostr	uctions and Ad	ditional Information			1	- X,- 24 		-	0.			
16.	GENERATOR'S CEI shipping name and highway according	RTIFICANON: are classified to applicate	hereby declare t , packed, marked, a (e) international and	hat the con and labeled d national	tents of this , and are in al governmenta	consignme l respects regulatio	ent are fu in proper ns, and	lly and conditi all appl	accurately on for tran icable Sta	describe sport by te laws/	d above	by pro	per
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17.	Transporter 1 Acknow Printed/Typed Name	vledgement of l	Receipt of Materials		Signature				·····		Month	Date Day	Yea
18.	Transporter 2 Ackn Printed/Typed Name	owiedgement o	of Receipt of Materials		Signatura				- · ·		Month	• Date Day	Yea
19.	Discrepancy Indication	n Space				-				nya ga ga da		•	
20.	Facility Owner or Ope	rator: Certificat	ion of receipt of haza	rdous materi	ials covered by	this manife	st except a	as noted	in Item 19.	<u></u>			
	Printed/Typed Name				Signature						Month	Date Day	Yea
1	••				-						1	, I I	1

US EPA ARCHIVE DOCUMENT

2BOBLOEST JATHEMHORIVUS TO TRACTACTED AND VOLUSE #INSTRUCTIONS FOR COMPLETION OF THE PA HAZARDOUS WASTE MANIFEST

-Please read these instructions before completing this form-

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GENERAL IN This Haza	NFORMATION ardous Waste Manifest cons	sists of eight copies. As the Manifest j	For APP 20 and thense of I s completed the copies are removed f	rom back to front strange
For inters	tate snipments, the copies, tents within Pennsylvania, t	he Generator shall retain Copies 6.7.	and 8. The TSD Facility shall retain Co	かかん かっこう かっ いのたる こうこうのみる とく j pples 1.2, and 4.
If there ar	e more than four different w	aste streams in a shipment, except for	lab packs, complete another Manifest.	If there are more than two transporter
or if the v	waste is a lab pack, use the	Uniform Hazardous Waste Manifest (Continuation Sheet. Continuation Shee	ts may be purchased commercially
If you have	ve any questions concerning	g-the completion of this Manifest, call	717-787-6239.	(de Comercia é Bazale -
NOTE: For	r interstate shipments you m	ay be required to supply additional info	rmation regarding the completion of le	ttered Items A through K. Please chec
Wit	th both the Generator and E	Destination States for specific requirem	ients.	
Item 1	Genefator's US EPA ID No	Center the twelve digit US EPA Identif	ination Number, Manifest Document N	The generator must assign a unique
110111 1.	five digit number	SE ENTER THE TWEIVE DIGIT US EFA Identit		o The generator must assign a uniqu
Item 2.	Page 1 of Enter the tota	I number of pages used to complete this	Manifest including the first page plus th	e number of Continuation Sheets, if any
Item 3.	Generator's Name and Ma	iling Address - Enter the complete nam	e of the generator and the complete r	nailing address. The address should b
	the location that will man	age the returned Manifest forms.		
Item A	State Manifest Document	Number This Number is preprinted, de	not alter it This Number must be place	ed in item L of each continuation sheet
Item 4	Generator's Phone Mumbe	ed for PA Generators. See Note above	aar Shipping Name, Nexuel Cless, ead Ch o tooso bosindatus as onder when	the Generator may be contacted
Item 5.	Transporter 1 Company N	ame - Enter the complete company pa	me of the first transporter who will tra	ansport the waste
Item 6.	US EPA ID Number - Enter	the twelve digit US EPA Identification	Number of the transporter identified	in Item 5.
ltem C.	State Trans ID - Enter the	Hazardous Waste Transporter Licens	No. issued by PA Dept. of Environm	ental Resources. See Note (above)
Item D.	Transporter's Phone - Ente	er the area code and telephone numbe	r where an authorized agent of the Tra	ansporter may be contacted.
Item 7.	Transporter 2 Company N	ame - If applicable, see Item/5.		
Item 8.	US ERA ID Number - If ap	plicable, see Item 6.		
Item E.	State Trans. ID - If applica	ble, see Item C.		
Item F.	Transporter's Phone - If an	oplicable, see Item D. /	والمرابع والمراجع و	
dem.s.	Uesignated Facility Name a	and Site Address - Enter the complete of	address, which may differ from the m	alling address
Item 10.	US FPA ID Number - Enter	the twelve digit US FPA Identification	Number of the Designated Facility	
Item G.	State Facility's ID - Not Re	aquired.		
Item H	Facility's Phone - Enter the	e area code and phone number where	an authorized agent of the Designated	Facility may be contacted.
Item 11.	US DOT Description [Includ	ling Proper Shipping Name, Hazard Clas	s, and ID Number (UN/NA Number)) #Er	nter the US DOT Proper Shipping Name
а 1 1	Hazard Class, and ID Num	ber (UN/NA Number) for each waste a	is identified in 49 CFR 171 through 1	77. 21. 20 Contraction of the second s
Item 12.	Containers (No. and Type)	Taken the house of an attack of the		
	men per sur un en la contente anecessitate de la contente de la contente de la contente de la contente de la c	- Enter the number of containers for e	ach waste and the appropriate abbrevi	ation from Table I (below) for the typ
	of container.	- Enter the humber of containers for e	ach waste and the appropriate abbrevi	ation from Table I (below) for the typ
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US EPA ARCHIVE DOCUMENT

INSTRUCTIONS FOR HAZARDOUS WASTE TREATMENT, STORAGE AND DISPOSAL (TSD) PERMIT APPLICATIONS

- All TSD facility permit applications must be prepared in accordance with the Pennsylvania Hazardous Waste Management Regulations, Chapter 75, Subchapter D, as published on September 4, 1982. Information on the permit program is contained in Subsection 75.265(z); Section 75.264 addresses operation and design standards for all types of facilities.
- 2. Enclosed in this mailing is a reference checklist to assist you in verifying the completeness of your application. The checklist contains the minimum information acceptable to the Department for a permit application, therefore it should not be considered a substitute for reading and addressing the regulations themselves.
- 3. Because you may be anticipating multiple facilities at your location, you have received checklists for each type of facility. Complete and return with the application only those sections which apply to your facility. For each item that is provided, reference the page number or specific place in the application where it is addressed in the comments column. If the item is not provided, you should explain briefly in the comments column. Particular attention should be given to the Operational Concept Report, since this report will be essential in providing a detailed and integrated description of the hazardous waste activities at your facility.

The checklist contains sections on the following:

General Information (that applies to all facilities)

- A. General Requirements (one set for landfills, surface impoundments and land treatment, and another set for all other facilities)
- B. Waste Characteristics
- C. Security
- D. Inspection
- E. Personnel Training
- F. Preparedness, Prevention and Contingency Plan
- G. Ignitable, Reactive or Incompatible Wastes
- H. Financial Assurance Requirements (April 14, 1984)
- I. Closure

Specific Requirements (that apply only to the facilities indicated)

- J. Groundwater monitoring (for landfills, surface impoundments and land treatment only)
- K. Post-Closure (for all disposal facilities, except incinerators)

Specific Process Information (that apply to specific types of facilities)

- L. Containers
- M. Tanks
- N. Waste Piles
- O. Incinerators
- P. Landfills
- Q. Surface Impoundments
- R. Land Treatment

Note that there are no specific design standards for chemical, physical and biological treatment facilities due to their diversity. At a minimum, these facilities should meet the requirements for the equipment in which the treatment takes place, e.g., tanks.

- 4. Also enclosed are Modules 9 and 10, the Landowner Consent Form and a Part A Application, which are part of the General Information Requirements.
- 5. The application fees, which are listed in 75.265(z)(26) are cumulative. Your fee will be the sum of those listed for each type of facility for which you are applying for a permit.

		PENNSYLVANIA E	IAZARDOUS WASTE TSI	JAP	PLIC	AT	ION CHECKLIST		August, 1985
Cł	SNERAL REQU'REMENTS For: Containers Tanks	Thermal Treatmer Incinerators Chemical, Physica	it I, or Biological Treatmen	TDED Y/N	UATE Y/N	APPLICABLE	Facility I ID Nu Facility Loc PAGE NUMBER	Name _ mber _ ation _	
	REQUIREMEN	TS	SECTION	PROV	ADE	TON	IN APPLICATION		COMMENTS
1.	Part A Application - For	m ER-SWM-59	(265)(z)(11),(274)						
2.	Environmental Assessme Module 9	nt Report -	(265)(z)(11),(18)(iv)						
3.	Compliance History Rep	ort - Module 10	(265)(z)(11),(18)(v)						
4.	Contractual Consent of L	andowner	(265)(z)(11)(iii)				, 		
5.	 Certification A. Registered Profess seal on all reports a drawings B. Registered Profess seal and signature of C. Certification parag responsible official D. Signature of Princip Officer or acceptat 	ional Engineer and design ional Engineer on title sheet raph with 's signature pal Executive ole substitute	(280)(a) (265)(z)(19) (265)(z)(19) (265)(z)(13)(iii) (265)(z)(13)(i)				······································		
6.	 Application Fees, check p Commonwealth of Pennsy A. Storage \$1,000 B. Thermal treatment C. Chemical, physical, treatment \$2,500 D. Incinerators \$2,500 	payable to ylvania \$2,000 and biological	(265)(z)(11),(26) (265)(z)(26)(i) (265)(z)(26)(vi) (265)(z)(26)(vii) (265)(z)(26)(viii)						

PENNSYLVANIA HAZARDOUS WASTE TSD APPLICATION CHECKLIST

August, 1985

GE	NER	AL REQUIREMENTS	(Continued)			k	ILB.			
۲]	For: Con'siners	Thermal Treatme	nt	N/X	Y/N	ICAB	Facility	Name	
		Tanks	Incinerators		ជ	TE	ΒΓ	ID N	umber	
		· ·	Chemical, Physica	al, or Biological Treatment	ROVID	DEQUA	IOT AP	PAGE NUMBEI IN	Ŕ	
		REQUIREME	NTS	SECTION	р. 	¥ 	Z	APPLICATION	COMMENTS	<u> </u>
7.	Ope	rational Concept Re	eport, including							
	desc	riptions of:		(265)(z)(18)(i)						
	Α.	Hazardous waste l	facility and its re-						······································	
		lationship to the in	nstallation							
	В.	General facility d	escription				-	•		
	c.	Daily operational	methodology					-		
	D.	Expected waste ty volumes	pes, sources and							
	Ε.	Unit processes wit	th detailed flow							
		diagrams							•	
8.	Site	location map on 7.5	' USGS map	(265)(z)(18)(ii)				1 		
9.	Gene	eral arrangement pl	an(s) showing:					ł		
	A.	Facility layout		(265)(z)(18)(ii)				4 1		
	B.	Buildings and strue	tures			<u> </u>		. <u> </u>		
	C.	Legal boundaries o	f the sites							
	D.	Access control								
	E.	Operational units								
	F.	Roads and loading/	unloading areas							
	G.	Drainage or flood of	control barriers							
			· · · · · ·							
0.	Торо	graphic map(s) show	ving within 🕇 mile					:		
	the	Iollowing:		(205)(2)(21)(i)						
	A.	Public and private	water supplies					;		
	в.	wells, springs, swal	mps and other							
	C	Dodles of water	·							
	U. n	Luu-year floodplain	l Iomio fontur					1		
	ט. ד	Geologic and nydro	ologic leatures							
	С. Р	Uas and on wells	line and pinaline					÷		
	r.	right-of-ways	nne and pipenne	_						
	G.	Previously mined as	reas, adversely 🧹 🧹	•						
		arrected or anomal	ous areas	-						

,ı	For: Con ainers Tanks	Thermal Treatment Incinerators Chemical, Physical	, or Biological Treatment	DVIDED Y/1	EQUATE Y/1	r APPLICAI	Facility Nam ID Numbe PAGE NUMBER	e r
	REQUIREMI	2NTS	SECTION	PR(NO	IN APPLICATION	COMMENTS
). To th H. I.	pographic map(s) sho e following (Continue Traffic flow patt Surrounding land	wing within ‡ mile ed): erns uses						
1. Ma A. B.	ap and drawing requi Maps are 30"x36" and legible Plans are 1" < 20 contour intervals	rements or smaller, clear D', with 10'	(2 65)(z)(18)(ii)					
C. D.	Sections and elev horizontal scale 1 vertical scale 1" Grid is tied to a p marker on-site Vertical control t	ations have a " < 200' and < 10' ermanent fixed			,			
F. G.	elevation Orientation of ma Date and scale	ips (north arrow)						
: Spe tha A. B.	ecifications, reports, at fully detail: Construction and calculations Quality control m and tests to be use construction	or narratives manufacturing design ethods, procedures ed during	(265)(z)(18)(iii) (265)(z)(21)(iii)			_		
c.	Specifications of a formation not sho that will be suppli	construction in- wn on drawings ed to Contractor				_		

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	For: Containe Tanks	rs	Thermal Treatment Incinerators Chemical, Physical,	or Biological Treat	ment dad	EQUATE Y/1	T APPLICA	Facility N ID Nun PAGE NUMBER	ame
	REQUI	REME	NTS	SECTION	PR	AD	ON	APPLICATION _	COMMENTS
Dra	wings and/or s	pecifi	cations with details						
rela	ting to:	_		(265)(z)(21)(ii)	<u>منت بين</u>				
Α.	Management	of su	rface water						
В.	Erosion cont	rol							
C .	Revegetatio	n proc	edures						
D.	Site prepara	tion							
Е. р	Monitoring a	nd me	asuring devices					-	
Ľ.	Location and	limit	s of construction						
0	by grid conti	'01S	ion and summers of		-				
G.	Location, de	seripti	ion and purpose of						
	definition of	S EXIS	ling on-site and a						
	uermition of	tions	ile, deed or						
н	Logation of		l and other walls					-	
11.	and all utilit	ias, or	site						
ī	Location of r	ublia	and private water			 .			
**	supplies on-s	ito	and private water					•	
J.	Cross-section	ne is shoi	wn on drawings and						
•••	referenced to	the g	rid system for						
	horizontal lo	cation	. whenever applicable						
к.	Grades requi	red for	r drainage of			—	—		******
	property								
L.	Cross-section	ns of t	he access roads	<i>i</i>					
	and all weath	er roa	ds, identifying						
	construction	mater	ials, slopes, grades						
	and/or profile	es							
Μ.	Cross-section	is, gra	des and/or profiles					لمحمد المراجع المراجع من المراجع	
	of surface dr	ainage	diversion ditches,						
	capacities an	d calc	ulations for						
	ditch volume								
N.	Process and i	nstrun	nentation diagrams				*******		
	for unit proce	esses t	o be employed					4 (
	at facility							1	
Ο.	Wind rose								

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For:	Cor.ainers Tanks	Thermal Treat Incinerators Chemical, Phy	tment /sical, or Biological Treatm	ient Gadino	EQUATE Y/N	T APPLICAE	Facility Nat ID Numb PAGE NUMBER	me ber
	REQUIREME	NTS	SECTION	PR	AD	NO	IN APPLICATION	COMMENTS
For faci	ilities located in	ı a 100-vear flood						
alain ini	f and the second s	. a ree jear mood						
UIZINI I 111	tormation demo	nstrating that the					1	
facility	is designed, con	nstrating that the structed, operate	e ed					
facility and mai	is designed, con	nstrating that the istructed, operate ent washout of	e ed					
facility and mai hazardo	is designed, con intained to preve ous waste, includ	nstrating that the structed, operate ent washout of ling:	e ed (265)(z)(22)(ii)					
facility and mai hazardo A. Hy	is designed, con intained to preve ous waste, includ ydrodynamic and	nstrating that the structed, operate ent washout of ling: 1 hydrostatic	e ed (265)(z)(22)(ii)					
facility and mai hazardo A. Hy fo	is designed, con intained to preve ous waste, includ ydrodynamic and orce analysis	nstrating that the istructed, operate ent washout of ling: l hydrostatic	e ed (265)(z)(22)(ii) (265)(z)(22)(ii)(A)				:	
facility and mai hazardo A. Hy fo B. St	is designed, con intained to preve ous waste, includ ydrodynamic and prce analysis ructural method	nstrating that the istructed, operate ent washout of ling: 1 hydrostatic ls of preventing	e ed (265)(z)(22)(ii) (265)(z)(22)(ii)(A)					
facility and mai hazardo A. Hy fo B. St	is designed, con intained to preve ous waste, includ ydrodynamic and orce analysis cructural method ashout	nstrating that the istructed, operate ent washout of ling: 1 hydrostatic ls of preventing	e ed (265)(z)(22)(ii) (265)(z)(22)(ii)(A) (265)(z)(22)(ii)(B)					
facility and mai hazardo A. Hy fo B. St wa C. Ol	is designed, con intained to preve ous waste, includ ydrodynamic and orce analysis cructural method ashout R, a description	nstrating that the istructed, operate ent washout of ling: d hydrostatic ls of preventing of emergency	ed (265)(z)(22)(ii) (265)(z)(22)(ii)(A) (265)(z)(22)(ii)(B)					
facility and mai hazardo A. Hy fo B. St wa C. Ol	is designed, con intained to preve ous waste, includ ydrodynamic and orce analysis cructural method ashout R, a description rocedures to rem	nstrating that the istructed, operate ent washout of ling: d hydrostatic ls of preventing of emergency love the	ed (265)(z)(22)(ii) (265)(z)(22)(ii)(A) (265)(z)(22)(ii)(B)					
facility and mai hazardo A. Hy fo B. St Wa C. Ol pry ha	is designed, con intained to preve ous waste, includ ydrodynamic and orce analysis cructural method ashout R, a description rocedures to rem azardous waste p	nstrating that the istructed, operate ent washout of ling: d hydrostatic ls of preventing of emergency ove the prior to a flood	ed (265)(z)(22)(ii) (265)(z)(22)(ii)(A) (265)(z)(22)(ii)(B) (265)(z)(22)(ii)(C)					

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PENNSYLVANIA HAZARDOUS WASTE TSD APPLICATION CHECKLIST

GĔ	NERAL REQUIREMENTS - PHASE I				щ	í.		
	For: Lancfills Surface Impoundments Land Treatment	Waste Piles	N/Y CIED	ATE Y/N	PPLICABI	Facility Name ID Number Facility Location		
	REQUIREMENTS	SECTION	PROVI	ADEQU	NOT A	PAGE NUMBER IN APPLICATION	COMMENTS	
1.	Part A Application - Form ER-SWM-59	(265)(z)(11),(274)						
2.	Environmental Assessment Report-Module 9	(265)(z)(11),(20)(i)(D)		_		,		
3.	Compliance History Report-Module 10	(265)(z)(11),(18)(v)				: 		
4.	Contractual Consent of Landowner	(265)(z)(11)(iii)				[.		
5.	Certification A. Registered Professional Engineer	(280)(a)				-		
	drawings B Registered Professional Engineer cool	(265)(z)(19)			-			
	and signature on title sheet	(265)(z)(19)		, 				
	responsible officials signature D. Signature of Principal Executive	(265)(z)(13)(iii)						
	Officer or acceptable substitute	(265)(z)(13)(i)				: 		
6.	 Application fee, check payable to Commonwealth of Pennsylvania A. Surface impoundment-\$3500 B. Landfill-\$5000 C. Land treatment-\$3500 D. Waste pile-\$1000 	(265)(z)(11),(26) (265)(z)(26)(ii) (265)(z)(26)(v) (265)(z)(26)(iv) (265)(z)(26)(iii)						
7.	Site location map on 7.5' USGS map	(265)(z)(18)(ii)						

GĽ	NERAL REQUIREMENTS - PHASE I For: Lan fills Surface Impoundments REQUIREMENTS	Land Treatment Waste Piles	PROVIDED Y/N	ADEQUATE Y/N	Facility Name ID Number PAGE NUMBER IN APPLICATION COMMENTS
	REQUIREMENTS	BECHON			
8.	 7.5' topographic map showing within ¹/₄ mile of the property boundaries: A. On-site and off-site borrow areas B. Public and private water supplies C. Wells, springs, streams, swamps, other bodies of water D. Gas and oil wells E. High-tension power line or pipeline right-of-way F. Hydrologic and geologic features G. Location of 100 year flood plain 	(265)(z)(20)(i)(A),(B) (265)(z)(20)(i)(A),(B) (265)(z)(20)(i)(A),(B) (265)(z)(20)(i)(A),(B) (265)(z)(20)(i)(A),(B) (265)(z)(20)(i)(A),(B) (265)(z)(20)(i)(A),(B) (265)(z)(20)(i)(A),(B)			
	 H. Previously mined areas or adversely affected or anomalous areas I. Traffic flow patterns J. Surrounding land uses 	(265)(z)(20)(i)(A),(B) (265)(z)(20)(i)(A),(B) (265)(z)(20)(i)(A),(B)			
9.	Soils, geologic, and groundwater report, including: A. Description of borings and/or wells B. Water table contour map C. Detailed soil descriptions	(265)(z)(20)(i)(C)			
10.	 Operational Concept Report, including brief descriptions of: A. Hazardous waste facility and its relationship to the installation B. General facility description C. Facility operations, methods and practices D. Daily operational methodology E. Written operational plans F. Expected waste types, sources and volumes G. Unit processes with detailed flow diagrams 	(265)(z)(20)(i)(E)			

PENNSYLVANIA HAZARDOUS WASTE TSD APPLICATION CHECKLIST

GE	NERAL REQUIREMENTS – PHASE II		Z	X	BLB
	For: Land. ills Surface Impoundments	Land Treatment Wasta Pilos	/7 0	/X 3	Facility Name
	surrace impoundments	waste rifes	IDE	UAT	Pacility Location
	REQUIREMENTS	SECTION	PROV	ADEC	AGE NUMBER IN APPLICATION COMMENTS
1.	 Reports or narratives and specifications that fully detail: A. The operations, methods and practices, and all unit processes to be employed at the facility B. Waste types, volumes, and sources C. All plans required by these regulations that affect the proposed facility and its operations D. Quality control methods, procedures, and tests to be used during construction E. Specifications including, but not limited to, all construction information not shown on the drawings F. Other reports, narratives or specifications as required by the 	(265)(z)(20)(ii)(B)		,	
2.	Department Certification A. Registered Professional Engineer seal on all reports and design drawings B. Registered Professional Engineer seal and signature on title sheet C. Certification paragraph with responsible official's signature D. Signature of Principal Executive Officer or acceptable substitute	(280)(a) (265)(z)(19) (265)(z)(19) (265)(z)(13)(iii) (265)(z)(13)(i)			

GĘI	ÈNERAL REQUIREMENTS – PHASE II		N/J	K/N	CABLE	• *		
•	For: Lan itills Surface Impoundments	Land Treatment Waste Piles	ROVIDED 3	DEQUATE 3	OT APPLIC	Facility Name ID Number PAGE NUMBER	}	
	REQUIREMENTS	SECTION	<u> </u>	¥	Ż	APPLICATION	COMMENTS	-
3.	General arrangement plans showing:	(265)(z)(18)(ii)			<u></u>	• • • • • • • • • • • • • • • • • • •		-
	A. Facility layout					• • • • • • • • • • • • • • • • • • •		
	B. Buildings, structures and operational	•						
	units C Logal gite boundaries	·				F .		
	D Agoos control							-
	B. Roads and loading/unloading areas							
	E. Roads and loading/unloading areas							-
	r. Dramage or mood control partiels					: •		-
1.	Drawings and/or specifications with					1		
- •	details relative to:	(265)(z)(20)(ii)(A)						
	A. Compaction of solid waste	(~~~)(2)(2)(2)(1)(1)				· · · · · · · · · · · · · · · · · · ·		-
	B. Application of daily cover material					• • • • • • • • • • • • • • • • • • •		-
	C. Elevations and grades of final cover					••••••••••••••••••••••••••••••••••••••		-
	D. Management of surface water							-
	E. Erosion control							-
	F. Revegetation procedures to be used			,				•
	G. Schedule of fillings					••••••••••••••••••••••••••••••••••••••		•
	H. Site preparations							•
	I. Monitoring and measuring devices							•
	J. Location and limits of areas previously							•
	filled							
	K. Cross sections indicating the interface							•
	details between areas previously filled					•		
	and areas to be filled, where					1		
	applicable			-		· · · · · · · · · · · · · · · · · · ·		
	L. Limits of construction defined by							
	grid controls							
	M. Borrow areas on-site defined by grid							
	controls					معرب المراجع معرب المراجع الم		
	N. Location, description, and purpose of						и 	
	all easements existing on-site and							
	a definition of all title, deed, or					•		
	usage restrictions relative to the							
	site							
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]	For: Lan Ifills Surface Impoundments	Land Treatment Waste Piles	KOVIDED Y/	DEQUATE Y/	DT APPLICA	Facility N ID Nur PAGE NUMBER	ame nber
		REQUIREMENTS	SECTION	- BI	N -	N	IN APPLICATION	COMMENTS
4.	Drav	wings and/or specifications with					:	
	deta	ils relative to (Continued):					4	
	υ.	and all utilities on-site						
	p	Location of public and private water					• •	an a
	1.	supplies on-site						
	۵.	Location of underground and					• • • • • • • • • • • • • • • • • • •	
		surface mines on-site						
	R.	Cross sections shown on the plans						
		and referenced to the grid system						
		for horizontal location, whenever						
		applicable						
	S.	Grades for						
		drainage of the facility						
	Т.	Cross sections of the access roads and						
		all weather roads, identifying						
		construction materials, slopes, grades,						
	v	and distances						
	۷.	Grades indicating the depth of soll						
		available at the site for suitable					t.	
	W.	A construction schedule in a format			<u> </u>			
		established by the Department						
	X.	Process and instrumentation diagrams		<u> </u>				· · · · · · · · · · · · · · · · · · ·
		for unit processes to be employed					1	
		at the facility					1 - F	
	Y.	Ground-water contour map					den biel Migna og sen biel provinser ser befor hag, gå berge	
	Z.	Wind rose						
) .	Map	and drawing requirements	(265)(z)(18)(ii)					
	Α.	Maps are 30" x 36" or smaller, clear						
	n	and legible						
	в.	Plans are $1'' \leq 200'$, with $10'$						•
		contour intervais						

	For: La Su R	n itills rface Impoundments EQUIREMENTS	Land Treatment Waste Piles SECTION	PROVIDED	ADEQUATE	Facility Name ID Number PAGE NUMBER N APPLICATION	COMMENTS
. Ма С.	ap and dra Sectio horizo vertica	twing requirements (Continued): ns and elevations have a ntal scale $1'' \le 200'$ and al scale $1'' \le 10'$					
D.	Desigr contro feet se	n drawings have a grid/coordinate 1 system, grid <u><</u> 200 square ections					
E.	Grid is marke	s tied to a permanent fixed r on-site					·
г. G.	benchr Orient	al control fied to a nark elevation ation of maps (north arrow)					
н.	Date a	nd scale					******
		1999 - Carlos Ca					
		· · · · ·					

WASTE CHARAC	FERISTICS - FOR: ALL FAC	CILITIES	KOVIDED Y/N	DEQUATE Y/N	Facility Name ID Number PAGE NUMBER	
RE	UIREMENTS	SECTION	Ц ——	N N	APPLICATION	COMMENTS
 For each haz or disposed: A. A gener B. EPA Haz C. Hazard D. Basis fo E. Laborate chemica represen OR a comple hazardou facilities 	ardous waste stored, treated al description of the waste zardous waste number characteristics r hazard designation ory report detailing the l and physical analyses of tative samples ete Module 1 for each as waste (required for s receiving off-site wastes)	(264)(c)(1)				
2. A copy of th	e Waste Analysis Plan	(264)(e)(3)			; ; • • • • • • • • • • • • • • • • • •	s
3. Liner compa (if applicable	tability test results e) for each hazardous waste	(264)(c)(4)		,		
IGNITABLE, REAC	TIVE OR INCOMPATIBLE WA	STES - POR: ALL P	ACILITII	?S	PAGE NUMBER	
REG	UIREMENTS	SECTION			APPLICATION	COMMENTS

1.	Description of precautions taken to prevent accidental ignition or reaction of ignitable, reactive, or incompatible		
	wastes, including:	(264)(g)	
	A. Provisions to protect waste from		ੑੑੑਗ਼ੑਸ਼ਗ਼੶੶ੑੑਸ਼ਜ਼ਗ਼੶੶ੑਸ਼ਜ਼ਗ਼੶੶ੑੑਗ਼ਖ਼ੑਸ਼ੵਗ਼ੑਗ਼ੑਖ਼ਖ਼ਖ਼ੑਸ਼ੑਖ਼ਖ਼ਖ਼ਗ਼ਗ਼ੑਗ਼ੑਜ਼੶ਗ਼੶ਖ਼੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶੶
	sources of ignition or reaction	(264)(g)(1)	
	B. Special handling procedures for		
	storing, treating, disposing or mixing	(264)(g)(2)	•
	C. Other specific process requirements	(264)(g)(2)	
	i. Containers	(264)(a)(2.7.8.9)	
	ii. Tanks	(264)(r)(2.3,10,11,12)	
	iii Waste Piles	(264)(1)(28,29)	anana amaa aana aana aana aana aana aan
	iv Londfilla	(264)(1)(26)(25)	
	iv. Landrins	(204)(V)(4)(11,111)	

<u>.</u>

REQUIREMENTS	SECTION	PROVIDED	ADEQUATE	NOT APPLICABLI APPLICABLI	Facility Name ID Number NUMBER IN ICATION	COMMENTS
 Description of precautions taken to prevent accidental ignition or reaction of ignitable, reactive, or incompatible wastes, including (Continued): Other specific process requirements (Continued): v. Surface Impoundments vi. Land Treatment vii. Chemical, physical or biological treatment 	(264)(s)(4)(i,ii,iv,v) (264)(u)(28,29) (265)(y)(9),(8)					
ECURITY - FOR: ALL FACILITIES				PAGE	Facility Name _ ID Number _ NUMBER IN	
REQUIREMENTS	SECTION		,	APPLI	CATION	COMMENTS
 Description of security procedures and equipment A. 24-hour surveillance system or B. Artificial or approved natural barrier C. Warning signs 	(264)(d)(2)					
2 In lique of the above demonstration that				• • •		
intrusion would not cause injury or violation of RCRA	(264)(d)(1)	واسينين		1 		
intrusion would not cause injury or violation of RCRA	(264)(d)(1)					

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INS	PECTION - FOR: ALL FACILITIES		PROVIDED Y/N	ADEQUATE Y/N	Facility P Facility P F F F F F S PAGE NUMBER IN	Name mber
	REQUIREMENTS	SECTION	.		APPLICATION	COMMENTS
1.	 Copy of the general inspection schedule kept at the facility for security devices and monitoring, safety, emergency, operating, and structural equipment A. Identification of types of problems to be inspected B. Frequency of inspections 	(264)(e)(2),(3)			· · · · · · · · · · · · · · · · · · ·	
2.	 Specific process inspection requirements for: A. Containers B. Tanks C. Waste Piles D. Incinerators E. Surface Impoundments F. Loading and unloading areas G. Landfills H. Land treatment facilities 	(264)(q)(5) (264)(r)(8) (264)(t)(18) (264)(w)(9)(v) (264)(s)(4)(iii) (264)(e)(3) (264)(v)(4)(xix) (264)(u)(16)				
3.	Description of remedial action procedures	(264)(e)(4)				
4.	Copy of the inspection log	(264)(e)(5)				
5.	Construction schedule and description of quality control procedures, tests and inspections	(264)(e)(6)				
	•					
	4					

PÉR:	SONNEL TRAINING – FOR: ALL FACILITH REJUIREMENTS	SECTION	PROVIDED Y/N	ADEQUATE Y/N	NOT APPLICAB	Facility Nat ID Numt PAGE NUMBER IN APPLICATION	me er COMMENTS
1.	Description of introductory and continuing		·		*****		999-1999-1999-1999-1999-1999-1999-1999
	training programs	(264)(1)(1, 4, 5)				. <u> </u>	
2.	 An outline of the training program which briefly describes: A. Job titles and duties of each employee position requiring training B. Content, frequency, and technique used in both introductory and continuing 	(264)(ſ)(6)				: 	
	training for each employee C. Training directors qualifications	(264)(f)(2)					
	D. Relevance of training to job						41
	position E Training for bogondous wests	(264)(f)(2)					
	management	(264)(f)(2)		•			
	F. Training for contingency plan						
	implementation	(264)(f)(2)	<u></u>			· · · · · · · · · · · · · · · · · · ·	······································
	G. Training for emergency response,	(964)(()(9)					
	i. Procedures for using, inspecting, repairing and replacing facility monitoring and emergency equip- ment	(204)(1)(3)					
	ii. Key parameters for automatic						
	iji Communications or alarm systems					· · · · · · · · · · · · · · · · · · ·	
	iv. Response to fires or explosions					·	
	v. Response to ground water					· · ·	
	contamination incidents					· · · · · · · · · · · · · · · · · · ·	
	vi. Shutdown of operations						
•	Provisions for implementing and maintaining the training program including annual update and training for new employees			/			

PER	SONNEL TRAINING - FOR: ALL FACI	LITIES (Continued)	PROVIDED Y/N ADEOUATE Y/N	NOT APPLICABI	Fi PAGE NU IN	acility Nam ID Numbe JMBER	e r
	REQUIREMENTS	SECTION			APPLICA	TION	COMMENTS
4.	Sample personnel training record forms and provisions for maintainting these documents	(264)(f)(7),(6)		. <u></u>	, ,	ub,asadap qaddabaq	
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			ROVIDED	\DEQUATE	VOT VPPL.TCARI	Facility Nar ID Numb PAGE NUMBER IN	ne er
	REQUIREMENTS	SECTION			<u>д</u> ң	APPLICATION	COMMENTS
Ac	copy of the PPC plan addressing						
the	following:	(264)(i) and "Guide-					
Α.	General description of the industrial	lines for Development					
	or commercial activity	and Implementation					
Β.	Organizational structure for implemen-	of PPC Plans"		_		;	
	tation of the PPC Plan					· · · · · · · · · · · · · · · · · · ·	
с.	Material and waste inventory						
D.	Plant operations						
E.	Material compatibility						
F.	Inspection and monitoring program						
G.	Preventive maintenance					· · · · · · · · · · · · · · · · · · ·	
Н.	Housekeeping program			1			
Ι.	Security						
J.	External factors					·	
K.	Internal and external communications						
L.	Employee training program						
Μ.	List of emergency coordinators						
N.	Duties and responsibilities of the					i.	
	emergency coordinator					;	
0.	Chain of command						
P.	List of agencies to be notified						
Q.	Emergency equipment						
R.	Provisions for water at adequate						
	pressure and volume					1	
S.	Aisle space						
Т.	Evacuation plan for installation					· · ·	
	personnel						
U.	Arrangements with emergency response					· ·	
	contractors						
۷.	Agreements with state and local					· · · · · · · · · · · · · · · · · · ·	
	emergency response teams and						
	hospitals						
₩.	Pollution incident history						, ,
Χ.	Implementation schedule					· · · · · · · · · · · · · · · · · · ·	
Υ.	Amendments as required by process					· · · · · · · · · · · · · · · · · · ·	
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REQUIREMENTS	SECTION	PROV	ADEC	NOT	IN APPLICATION	COMMENTS
 A copy of the PPC plan addressing the following (Continued) Z. Procedures, structures, or equipment used at the facility to: (i) Prevent hazards in unloading operations (ii) Prevent runoff from hazardous waste handling areas to other areas of the facility or environment, or to prevent flooding (iii) Prevent contamination of water supplies (iv) Mitigate effects of equipment failure and power outages (v) Prevent undue exposure of personnel to 						
hazardous waste		_	_			

CLC	SURE - FOR: ALL FACILITIES	SECTION	PROVIDED Y/N	ADEQUATE Y/N	NDT APPLICABLE	Facility Name ID Number PAGE NUMBER IN APPLICATION	COMMENTS
1.	A copy of the closure plan, including: A. If applicable, a description of	(264)(0)(3)			<u> </u>		
	 partial closure including partial closure activities B. A description of final closure patialities and how these will be activities. 	(264)(o)(3)(i)				· · ·	
	 conducted according to the regulations C. A description of the maximum waste inventory in storage and treatment at any time during the life of the 	(264)(o)(3)(i)					
	facility D. A description of how closure minimizes the need for post-closure maintenance	(264)(o)(3)(ii)				enter ante ante internet ante ante ante ante ante ante ante a	
	 and minimizes the release of wastes E. An estimate of the schedule for final closure, including the expected year of closure and the total time 	(264)(o)(2)				, 	
	required for closure activities (F. A description of procedures for the disposal or decontamination of	(264)(o)(3)(iv)					****
	equipment (G. Specific closure procedures as	(264)(o)(3)(iii)			—		
	i. Containers ((ii. Tank ((iii. Waste Piles ((iv. Incinerators ((v. Landfills ((vi. Surface impoundments ((vii. Land treatment (() viii. Thermal treatment (() ix. Chemical, physical or biological treatment (()	(264)(0)(3)(1) (264)(q)(13) (264)(r)(40),(9) (264)(t)(34,35) (264)(w)(10) (264)(v)(3)(xxvi) (264)(s)(3)(xxx,xxxi) (264)(s)(3)(xxx,xxxi) (264)(u)(17,18,24,25) (265)(x)(5) (265)(y)(7)					
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	STCLOSURE For: All disposal facilities, except incine	rators	ROVIDED Y/N	DEQUATE Y/N	Facility Name II Facility Name ID Number PAGE NUMBER	
	REQUIREMENTS	SECTION	. <u></u>	A 	APPLICATION	COMMENTS
1.	 A copy of the postclosure plan identifying activities to be conducted after closure and their frequency, including: A. Groundwater monitoring and reporting program B. Planned maintenance activities C. Name, address and phone number of program 	(264)(o)(16) (264)(o)(16)(i) (264)(o)(16)(ii)				
	after closure	(264)(0)(16)(iii)				
2.	A photocopy of the notation in the				3 - -	
	activities on the site	(264)(0)(20)		. <u></u>	anan aala aala aala ahaa ahaa ahaa ahaada	
71N.	ANCIAL ASSURANCE - FOR: ALL FACILIT	(264)(o)(20) NES				
?IN.	activities on the site	(264)(o)(20) TIES		, ,	PAGE NUMBER	
?IN.	ANCIAL ASSURANCE - FOR: ALL FACILIT	(264)(0)(20) TIES <u>SECTION</u>	_		PAGE NUMBER IN Application	COMMENTS
?IN. 	ANCIAL ASSURANCE - FOR: ALL FACILIT REQUIREMENTS Bond filed on proper form with proper collateral or surety company	(264)(0)(20) TIES <u>SECTION</u> (311)(a)			PAGE NUMBER IN APPLICATION	COMMENTS
?IN/ 1. 2.	ANCIAL ASSURANCE - FOR: ALL FACILIT REQUIREMENTS Bond filed on proper form with proper collateral or surety company Cost estimate for closure and post-closure care	(264)(0)(20) TIES <u>SECTION</u> (311)(a) (319)(a)			PAGE NUMBER IN APPLICATION	COMMENTS
?IN. 1. 2.	ANCIAL ASSURANCE - FOR: ALL FACILIT REQUIREMENTS Bond filed on proper form with proper collateral or surety company Cost estimate for closure and post-closure care Proof of insurance filed for sudden accidental liability	(264)(o)(20) TIES <u>SECTION</u> (311)(a) (319)(a) (332)(a),(334)			PAGE NUMBER IN APPLICATION	COMMENTS

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GROU	NDWATER MONITORING PROGRAM For: Lan fills Surface Impoundments	Land Treatment Waste Piles	PROVIDED Y/N	ADEQUATE Y/N	Facility Name ID Number PAGE NUMBER NUMBER
	REQUIREMENTS	SECTION			APPLICATIONCOMMENTS
1. Gr de wa po	round-water monitoring system capable of etecting the entry of any hazardous aste, hazardous constituents or decom- osition by products	264(n)(1,2)			
2. Co ou A. B. C.	opy of ground water quality assessment tline capable of determining: Which hazardous constituents entered g.w., Rate and extent of migration Concentrations of constitutents	264(n)(3)(i-iii)			
3. De con A. B. C.	escription of the monitoring system nsisting of: At least one upgradient well At least three down gradient wells Locations and ID of each well shown on map (none greater than 200 feet from edge of waste management area)	264(n)(4)(i-iv) or 264(n)(5)			
4. De cor	scription of how each waste management mponent is monitored	264(n)(6)			
5. De A. B. C. D.	scription of required well casing: Screened and gravel or sand packed Annular space sampling depth sealed Outer protective casing present as required Cap with lock present	264(n)(7),(8)			
	· · ·				

, -	GR	OUNDWATER MONITORING PROGRAM For: Lan ifills Surface Impoundments	Land Treatment Waste Piles	PROVIDED Y/N	ADEQUATE Y/N	Facility Name ID Number PAGE NUMBER IN	
	********	REQUIREMENTS	SECTION			APPLICATION	COMMENTS
	6.	Copy of ground water sampling and analysis plan kept at facility outlining procedures and techniques for: A. Sample collection B. Sample preservation and shipment C. Analytical procedures D. Chain-of-custody	264(n)(9),(10)				
	7.	Minimum list of test parameters to include at least, pH, TOC, SpC, and TOH	264(n)(11)				
	8.	For existing facilities, copy of back- ground concentrations for upgradient well sites	264(n)(12)(i-iii) 264(n)(13)(i-ii) and 264(n)(14)				
	9.	For new facilities, a description of how background concentrations will be collected	264(n)(12)(i-iii) 264(n)(13)(i-ii) and 264(n)(14)		,	· · · · · · · · · · · · · · · · · · ·	
,	10.	A description of the statistical procedure to be followed in evaluating the ground-water data	264(n)(17)-(19)			: : : :	
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	REQUIREMENTS	SECTION	FROVIDED Y/N	ADEQUATE Y/N	NOT APPLICABI	Facility Name ID Number PAGE NUMBER IN APPLICATION	COMMENTS
1. C	ontainers	(264)(q)(1-6)					
A	For each containers type:						
	i. Containerized waste(s)	(964)(a)(1-6)					
	(EFA nazardous waste number) ii. DOT shinning container	(204)(q)(1-0)					
	specification number	(264)(a)(1-6)					
	iii. Capacity and dimensions	(264)(q)(1-6)				ىلانىكىزىرىزى «مىينە	
	iv. Materials of construction	(264)(q)(1-6)					
	v. Type of container	(264)(q)(1-6)					
_	vi. Maximum number of containers	(264)(q)(1-6)					
в.	Description of container management						
	inspection, procedures) to insure						
	container integrity	(264)(a)(1-6)					
op co of A.	eration specifications for secondary ntainment system including drawings all design aspects of the system, and Demonstration of structural integrity	(264)(q)(10)				: : : :	
в.	base to contain leaks, spills and accumulated precipitation Description of how containers are	(264)(q)(10)	·		gaune tit	· [
	керт from contact with standing liquids (drainage)	(264)(q)(10)					
c.	Containment system capacity relative to number and volume of stored	(964)(-)(10)					
D	Containment system provisions for	(204)((10)					
	preventing run-on	(264)(g)(11)			<u> </u>	: 	
с.	for accumulated liquids	(264)(q)(12)				-	
						•	

CO	NTAINERS (Continued)		OVIDED Y/N	EQUATE Y/N	T APPLICAB	Facility Name ID Number
	REQJIREMENTS	SECTION	PR	QN	NO	IN APPLICATION COMMENTS
3.	Description of container storage configur- ation meeting minimum requirements for: A. Setback B. Height, width C. Aisle space	(264)(q)(14) (264)(q)(14) (264)(q)(14)				
4.	Sample inspection form outlining inspection techniques, correction procedures and schedule					,
5.	Special procedures for treating, storing, and handling potentially incompatible wastes, including separation and protection of containers	(264)(q)(7,8,9) (264)(g)(2)				
6.	Special procedures for treating, storing, and handling ignitable waste and reactive wastes	(264)(q)(14) (264)(g)(2)		,		
7.	For facilities receiving wastes from off-site, a description of the weighing or measuring facilities	(2 64)(q)(6)				
8.	Special closure requirements	(264)(q)(13)	<u> </u>			
9.	50' setback from the property line for ignitable or reactive wastes	(264)(q)(15)				·

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TA I	TANKS			UATE Y/N	APPLICABL	Facility Nan ID Numb	ne
	REQJIREMENTS	SECTION	PROV	ADEQ	TON	PAGE NUMBER IN APPLICATION	COMMENTS
1.	Tank dimensions, capacity, shell thickness and strength	(264)(r)(15)			_	· · · · · · · · · · · · · · · · · · ·	
2.	References to design standards or other information used in tank design	(264)(r)(15)					
3.	Description of design specifications, including identification of construction and lining materials for assessment of corrosion and erosion potential	(264)(r)(3,15)				i i	
4.	Diagram of piping, instrumentation, and process flow	(264)(r)(15)				1 (
5.	Description of feed systems, safety cut- off, by-pass systems, pressure controls, and alarm systems	(264)(r)(5,16)			,	·	
6.	For above ground and partially above ground tanks, containment structure design information	(264)(r)(6)					
7.	Uncovered tanks: freeboard or overflow alarm/system	(264)(r)(4)					
8.	Special procedures for treating, storing, and handling potentially imcompatible wastes	(264)(r)(2,7,12,13)				• • • • • •	an a
9.	Special procedures for treating, storing, and handling ignitable waste and reactive wastes	(264)(g)(2) (264)(r)(10,11)					
10.	Run-off collection and management system, including supporting calculations	(264)(r)(29)		_/			-
						1.	

TAN	NKS (Continued)		ΧΟΥΙDED Υ/Ν	JEQUATE Y/N	DT APPLICABI	Facility F ID Nu PAGE NUMBER	Name mber
	REQJIREMENTS	SECTION	на 	AI	Ň	IN APPLICATION	COMMENTS
11.	Measures to prevent run-on	(264)(r)(30)	تن نی ب				
12.	Surface water management system	(264)(r)(28)					*****
13.	Vector, Odor and Noise Control (VONC) Pla	an (264)(r)(34)					
14.	Provision of 50' buffer zone between hazardous waste facility and property line	(264)(r)(27)					******
15.	Inspection procedures for assessing tank condition; capable of detecting cracks, leaks, corrosion, erosion or wall thinning	(264)(r)(8),(14)				• 	
16.	TER Plan	(264)(r)(23)					
17.	Access road dimensions and construction description	(264)(r)(26)		<u> </u>			
18.	List of equipment and standby equipment used in operation of the facility	(264)(r)(35,36)					
19.	Description of unloading areas	(264)(r)(37)		æ 			
20.	Measures to control dust and waste tracking	(264)(r)(38,39)		/			
21.	For facilities receiving wastes from off-site, a description of the weighing or measuring facilities	(264)(r)(17)					· .
22.	Special closure requirements	(264)(r)(9,40)					

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INCINER	ATORS		ROVIDED Y/N	DEQUATE Y/N	DT APPLICABI	Facility Name ID Number PAGE NUMBER	
	REGJIREMENTS	SECTION	на — — —	AI AI	N	IN APPLICATION	COMMENTS
1. Inci Bur	nerator Plan Approval Application - eau of Air Quality Form ER-AQ-16						
2. The foll A.	trial burn plan, which includes the owing information: An analysis of each waste or mixture of wastes to be burned	(264)(w)(27)(i)					
	which includes: i. Heating value ii. Viscosity	(264)(w)(3)(i)					
	 iii. An identification of hazardous organic constituents iv. An approximate quantification 						
	of the hazardous consituents v. Other general properties (moisture, ash, density,						Nga ang ang ang ang ang ang ang ang ang a
	PCB, and flash point) vi. Ultimate analysis (carbon, hydrogen, oxygen, nitrogen, water, phosphorus, bromine, chlorine, fluorine, arsenic,		_		. —		
	vii. Sample data, methods, description and collection						
	viii. Analytical data, techniques					etriferantino estatuto estatu	
В.	A detailed engineering description of the incinerator for which the					· · · · · · · · · · · · · · · · · · ·	. •
	following information: i. Manufacturer's name and model number of incinerator (if quailable)	(264)(w)(27)(ii)					
	(II avanabie)				******		

CINERATORS (Continued)		ROVIDED Y/N	DEQUATE Y/N	명 I Facility Nat ID Numb 역 PAGE NUMBER 등 IN	ne er
REQJIREMENTS	SECTION	Id	N	Ž APPLICATION	COMMENTS
B. A detailed engineering description of the incinerator for which the permit is sought including the following information (Continued):			1		
 Type of incinerator Linear dimensions of the incinerator unit including the cross sectional area of combustion chamber 					*****
iv. Description of the auxiliary fuel system - type/feed		_			
v. Capacity of prime mover vi. Description of automatic waste feed cut-off systems vii Stack gas monitoring and					
viii. Nozzle and burner design			 		
 x. Location and description of temperature, pressure, and flow indicating and control devices 					
C. A detailed description of the sampling and monitoring procedures,					
including: i. Sampling and monitoring locations	(264)(w)(27)(iii)				۵.۰۰۰۵ ۵۰۰ میروند و در میرو مربوع
ii. The equipment to be usediii. Frequencyiv. Procedures for sample					
analysis					

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NCINERATORS (Continued)		ROVIDED Y/N	DEQUATE Y/N	OT APPLICAB	Facility Nam ID Numbe PAGE NUMBER	e
REQJIREMENTS	SECTION	<u>д</u> ,	- A	Z	APPLICATION	COMMENTS
D. A detailed test schedule for each waste, including date(s), duration and quantities of waste to be burned	(264)(w)(27)(iv)					
 E. A detailed test protocol, including, for each waste identified: Temperature ranges Waste feed rate Combustion gas velocity 	(264)(w)(27)(v)					
 iv. Use of auxiliary fuel F. A description of, and planned operating conditions for, emission control equipment which will be used 	(264)(w)(27)(vi)					
G. Procedures for rapidly stopping waste feed, shutting down the incinerator, and controlloing emissions in the event of an equipment malfunction	(264)(2)(27)(vii)					
 H. For new incinerators, a statement identifying suggested conditions to comply with (264)(w)(6-7) 	(264)(w)(27)(viii)		_			
 Results from each approved trial burn, including: A. A quantitative analysis of the trial POHCs in the waste feed to the 	(264)(w)(29)(i)					
incinerator B. A quantitative analysis of the exhaust gas for the concentration and mass emissions of the trial POHCs, oxygen (O ₂) and hydrogen balide				_		

REGUREMENTS SECTION E Q D APPLICATION COMMENTS C. A quantitative analysis of the scrubber water	INCINERATORS (Continued)		OVIDED Y/N EQUATE Y/N	H D H H H H PAGE NUMBER	e r
C. A quantitative analysis of the scrubber water D. A computation of destruction and removal efficency (DRE) E. A computation of particulate efficiency P. A computation of particulate emissions G. An identification of sources of fugitive emissions and their means of control H. A measurement of average, maximum, and minimum temperatures and combustion gas velocity I. A continuous measurement of earbon monoxide (CO) in the exhaust gas J. Other relevant data as necessary K. Certification that the trial burn has been conducted according to the approved plan (264)(w)(29)(ii) A. A description and analysis of the waste for which data are provided to support the contention that a trial burn is not needed, which includess i. Heating value	REÇJIREMENTS	SECTION	PR(APPLICATION	COMMENTS
D. A computation of destruction and removal efficency (DRE) E. A computation of the hydrogen halide removal efficiency P. A computation of particulate emissions G. An identification of sources of fugitive emissions and their means of control H. A measurement of average, maximum, and minimum temperatures and combustion gas velocity I. A continuous measurement of carbon monoxide (CO) in the exhaust gas J. Other relevant data as necessary K. Certification that the trial burn has been conducted according to the approved plan 4. In lieu of a trial burn, the following: 6. A description and analysis of the waste to be burned, compared with the waste for which data are provided to support the contention that a trial burn is not needed, which includes: i. Heating value	C. A quantitative analysis of the scrubber water				
 E. A computation of the hydrogen halide removal efficiency F. A computation of particulate emissions G. An identification of sources of fugitive emissions and their means of control H. A measurement of average, maximum, and minimum temperatures and combustion gas velocity I. A continuous measurement of carbon monoxide (CO) in the exhaust gas J. Other relevant data as necessary K. Certification that the trial burn has been conducted according to the approved plan (264)(w)(29)(ii) 4. In lieu of a trial burn, the following: (264)(w)(7) A. A description and analysis of the waste for which data are provided to support the contention that a trial burn is not needed, which includes: i. Heating value 	D. A computation of destruction and removal efficency (DRE	on ()			
 F. A computation of particulate emissions G. An identification of sources of fugitive emissions and their means of control H. A measurement of average, maximum, and minimum temperatures and combustion gas velocity I. A continuous measurement of carbon monoxide (CO) in the exhaust gas J. Other relevant data as necessary K. Certification that the trial burn has been conducted according to the approved plan (264)(w)(29)(ii) A description and analysis of the waste to be burned, compared with the waste for which data are provided to support the contention that a trial burn is not needed, which includes: i. Heating value 	E. A computation of the hydrogen halide removal	, 			
 G. An identification of sources of fugitive emissions and their means of control H. A measurement of average, maximum, and minimum temperatures and combustion gas velocity I. A continuous measurement of carbon monoxide (CO) in the exhaust gas J. Other relevant data as necessary K. Certification that the trial burn has been conducted according to the approved plan (264)(w)(29)(ii) A. A description and analysis of the waste to be burned, compared with the waste for which data are provided to support the contention that a trial burn is not needed, which includes: i. Heating value 	F. A computation of particulat	e			
 their means of control H. A measurement of average, maximum, and minimum temperatures and combustion gas velocity I. A continuous measurement of carbon monoxide (CO) in the exhaust gas J. Other relevant data as necessary K. Certification that the trial burn has been conducted according to the approved plan (264)(w)(29)(ii) In lieu of a trial burn, the following: (264)(w)(7) A. A description and analysis of the waste to be burned, compared with the waste for which data are provided to support the contention that a trial burn is not needed, which includes: i. Heating value 	G. An identification of sources of fugitive emissions and				*******
gas velocity	their means of control H. A measurement of average, maximum, and minimum temperatures and combustio	n			
J. Other relevant data as necessary K. Certification that the trial burn has been conducted according to the approved plan 4. In lieu of a trial burn, the following: A. A description and analysis of the waste to be burned, compared with the waste for which data are provided to support the contention that a trial burn is not needed, which includes: i. Heating value	gas velocity I. A continuous measurement o carbon monoxide (CO) in the	of		· · · · · · · · · · · · · · · · · · ·	
 K. Certification that the trial burn has been conducted according to the approved plan 4. In lieu of a trial burn, the following: (264)(w)(29)(ii) A. A description and analysis of the waste to be burned, compared with the waste for which data are provided to support the contention that a trial burn is not needed, which includes: i. Heating value 	J. Other relevant data as		<u>میں میں </u>		
plan (264)(w)(29)(ii) 4. In lieu of a trial burn, the following: (264)(w)(7) A. A description and analysis of the waste to be burned, compared with the waste for which data are provided to support the contention that a trial burn is not needed, which includes: i. Heating value 	 K. Certification that the trial burn has been conducted according to the approved 			· · · · · · · · · · · · · · · · · · ·	*******
 In lieu of a trial burn, the following: (264)(w)(7) A. A description and analysis of the waste to be burned, compared with the waste for which data are provided to support the contention that a trial burn is not needed, which includes: i. Heating value 	plan	(264)(w)(29)(ii)			
A. A description and analysis of the waste to be burned, compared with the waste for which data are provided to support the contention that a trial burn is not needed, which includes: i. Heating value	 In lieu of a trial burn, the following: 	(264)(10)(7)			
support the contention that a trial burn is not needed, which includes: i. Heating value	A. A description and analysis of the waste to be burned, compared with the waste for which data are provided to	(203)(W)(7)			*****
	support the contention that a trial burn is not needed, which includes: i. Heating value				

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		REQUIREMENTS	SECTION	PR	A	APPLICATION	COMMENTS	
	A. A d of t com whice	escription and analysis he waste to be burned, ipared with the waste for ch data are provided to						
	supr that need ii.	port the contention a trial burn is not ded, which includes (Continued): Viscosity						
	111.	An identification of hazardous organic constituents		_		4 1 - 1 2 - 2 3		
,	IV.	An approximate guantification of the hazardous constituents A guantification of			_			
	vi.	the POHCs Other general properties (moisture, ash, density, PCB and flash point)				, i		
	vii.	Ultimate analysis (carbon, hydrogen, oxygen, nitrogen, water, phosphorus, bromine, chlorine, fluorine, arsenic, beryllium, lead, mercury, cadmium, chromium, and romaindon os osb)						
	viii.	Sample data, methods, description and collection information						
	ix.	Analytical data, techniques and laboratory information						
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CINERATORS (Continued)			N∕X CECUIN		T APPLICAL	Facility Na ID Num PAGE NUMBER	ame ber
	REQJIREMENTS	SECTION	PR	AD	N	APPLICATION	COMMENTS
в.	The engineering design and						
	operating conditions of the					ł	
	incinerator unit to be used,						
	compared with that for which					:	
	burn data are available,					3	
	Including:						
	i. Manufacturer's name and						
	mouer number or						
	ii Type of inginerator						
	iii. Linear dimension of					، ويون والان التي والتركيم التي والتي وا	
	incinerator unit including					,	
	cross sectional area of					2	
	combustion chamber					1 -	
	iv. Description of auxiliary		<u>مېرمېنې -</u>				
	fuel system (type/feed)						
	v. Capacity of prime mover						
	vi. Description of automatic						•
	waste feed cutoff system(s)						
	vii. Stack gas monitoring and						
	polition control						
	viii. Nozzle and hurner design	•				: 	
	ix. Construction materials						
	x. Location and description					·····	
	of temperature, pressure,						
	and flow indicating devices						
	and control devices					i	
с.	A description of the results from					3	
	previously conducted trial burns, including:						
	i. Sampling and analysis techniques						
	ii. Methods and results of						
	monitoring temperatures, waste						
	feed rates, combustion gas						
	velocity, and carbon monoxide					· ·	

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INCINERAT	ORS (Continued)		DED Y/N	PAGE NUMBER	ame nber
	REQJIREMENTS	SECTION	ркои рвери	A INCLUSION _	COMMENTS
C. A pr ind iii	description of the results from eviously conducted trial burns, eluding (Continued): . Identification of hazardous combustion by-products				
D. Th inf wi i. ii. iii. iv. v. vi. vii. viii	 e expected incinerator operation formation demonstrating compliance th (264)(w)(6,7) including: Expected carbon monoxide (CO) level in the stack exhaust gas Waste feed rate Indication of combustion gas velocity and temperature Expected stack gas volume, flow rate, and temperature Computed residence time for waste in the combustion zone Expected hydrogen halide removal efficiency Expected fugitive emissions and their control procedures Proposed waste feed cut-off limits based on the identified significant operating parameters 				
. Provisic for disp residues residues	n for obtaining Department approval osal of ash, scrubber, water , scrubber water and other	(264)(w)(11)			

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INC	INERATORS (Continued)		N/X	N/Y	ICABL	Faci	lity Name	
	REQJIREMENTS	SECTION .	PROVIDED	ADEQUATE	NOT APPL.	I PAGE NUM IN A <u>PPLICAT</u>	D Number BER	COMMENTS
6.	Provision of 50' buffer zone between hazardous waste facility and property line	(264)(w)(13)				; 		
7.	Odor and noise control program description	(264)(w)(17)						
8.	Access road dimensions and construction description	(264)(w)(22)				an a		
9.	List of equipment and standby equipment used in operation of the facility	(264)(w)(18,19)				ean. Tean the an an of the second of		
0.	Description of unloading areas	(264)(w)(20)	-			•		
1.	Measures to control waste tracking	(264)(w)(21)						
2.	For facilities receiving wastes from off-site, a description of the weighing or measuring facilities	(264)(w)(23)						
3.	Special closure requirements	(264)(w)(10)						
	· · · · · · · · · · · · · · · · · · ·					-		

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·			PROVIDE	ADEQUAT	PAGE NUMBER	Pr
	REGUIREMENTS	SECTION			APPLICATION	COMMENTS
1. De	esign drawings, specifications and					
re	ferenced standards pertaining to the				·	
su	rface impoundment, including:	(264)(s)(3)				
Α.	Dimensions, capacity					
B.	Freeboard	(264)(s)(3)(i)				****
Č.	Surface grades	(261)(3)(3)(1)				
n.	Dikog horme	(264)(3)(3)(41)				
υ.	Dikes, bernis	(204)(5)(3)(11, XV),				
17	Motorials of construction	xviii, xix)				
12. 17	Statio and dynamic loadings	(9(14)(2)(2)(2)(2))				
r.	Static and dynamic loadings	(264)(S)(S)(XIII)				
и. П	Designation procedures					
п.	Wind control	(264)(S)(3)(XX111)				
1.	Wind Control Distance from the toff	(264)(S)(4)(X111)			f	
ีป. 17	Piping, reed shutorr	(264)(s)(3)(x1V)				
к.	Seasonal and ground water					
Ŧ	table provisions	(264)(s)(3)(xx11)				
. با ۲	Cap	(264)(s)(3)(xvii)(F)		<u> </u>		
M.	Daily and intermediate cover	(264)(s)(3)(x, xi)				
N.	Gas venting	(264)(s)(3)(xii)				
0.	Surface water management	(264)(s)(3)(viii)and				
_		(4)(xv)				
P.	Run-on water diversion	(264)(s)(3)(ix)				
Q.	Groundwater protection	(264)(s)(3)(xv)				
. Lin	ner system design drawings and					
spe	ecifications including:	(264)(s)(3)(xvii)				
Α.	Subbase design					
В.	Primary top liner				· ·	
с.	Secondary (bottom) liner					
D.	Slopes					
Ε.	Leachate detection zone system					
F.	Protective cover zone					
G.	Material and installation					
- •	information	(264)(s)(3)(xx, xxi)			-	
		(

SU1	RFACE IMPOUNDMENTS (Continued)		ROVIDED Y/N	DEQUATE Y/N	OT APPLICABL	Facility Name ID Number AGE NUMBER IN	
<u></u>	REGUIREMENTS	SECTION	р. 	A 	A	PPLICATION	COMMENTS
3.	Leachate collection and storage system details, including: A. Storage capacity B. Storage C. Piping system D. Containment system (sump)	(264)(s)(3)(xxiv)			· ·		
4.	Leachate/Run-off treatment system design	(264)(s)(3)(xxix)			=		
5.	Inspection procedures for assessing surface impoundment and components condition	(264)(s)(4)(iii)					
6.	Inspection schedule during construction and while in operation			م سند بن) 	
7.	SIER (Surface Impoundment Evaluation and Repair) Plan	(264)(s)(4)(x)		 ,			
8.	Special procedures for treating, storing and handling potentially incompatible wastes	(264)(s)(4)(i,ii,v)					****
9.	Special procedures for treating, storing, and handling ignitable or reactive wastes	(264)(s)(4)(iv)					
10.	Provision of 50' buffer zone between hazardous waste facility and property line	(264)(s)(3)(vi)			<u></u>	· · · · · · · · · · · · · · · · · · ·	
11.	Vector, Odor, and Noise Control (VONC) Plan	n (264)(s)(4)(xiv)					
12.	Access road dimensions and construction description	(264)(s)(3)(iii)				1	
13.	List of equipment and standby equipment used in operation of the facility	(264)(s)(4)(xvi,xvii)			anaan 16aa	•	

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SUR	SURFACE IMPOUNDMENTS (Continued)		DVIDED Y/N	ZQUATE Y/N	r APPLICABL.	Facility Name ID Numbe PAGE NUMBER	e r
	REGJIREMENTS	SECTION	PRO	IDA	LON	IN APPLICATION	COMMENTS
14.	Description of unloading area design and operation	(264)(s)(4)(xviii,xix)					
15.	Measures to control dust and waste tracking	(264)(s)(4)(xx,xxi)					
16.	Design and management procedures to prevent overtopping						
17.	For facilities receiving wastes from off-site, a description of the weighing or measuring facilities	(264)(s)(3)(iv)					
18.	Special closure and postclosure requirements	(264)(s)(3)(xxx,xxxi)					
19.	Dike stability certification	(264)(s)(3)(xxxii)		,		: 	*****
	:						• •
	• :						
						·	

WA	STE PILES		IDED Y/N	DUATE Y/N	APPLICABL	Facility I ID Nu DACK NUMBER	Name Imber
	REGJIREMENTS	SECTION	PROV	ADE	TON	IN APPLICATION	COMMENTS
1.	 Design specifications of the pile base and liner system, including: A. Estimate of subbase loadings and a description of the foundation design B. Liner material, permeability, thickness, strength C. Estimated liner life D. Estimated waste pile life E. Protection from plant growth F. Construction materials and installation procedures G. Seasonal and ground water table considerations H. Perimeter requirements I. Ground water protection Description of leachate and run-off collection and control system including: A. Estimated volumes B. Storage capacity C. Piping design D. Management of units 	(264)(t)(4) (264)(t)(4) (264)(t)(5) (264)(t)(5) (264)(t)(6) (264)(t)(4,18) (264)(t)(7) (264)(t)(7) (264)(t)(36) (264)(t)(2,33) (264)(t)(9,8)					
3.	Leachate detection, collection and treatment system details: A. Capacity B. Construction details C. Treatment capabilities	(264)(t)(11) (264)(t)(10) (264)(t)(12)			-		
4.	Practices to control dispersal of hazardous waste by wind or water erosion	(264)(t)(19,20)	·		_	· · · · · · · · · · · · · · · · · · ·	
5.	Description of equipment and procedures used for waste pile movement	(264)(t)(2)	<u> </u>			· · · · · · · · · · · · · · · · · · ·	

WA	STE PILES (Continued)		N/Y CELLIN	EQUATE Y/N	T APPLICABL	Facility ID Nu PAGE NUMBER	Name _ Imber _	
	REQUIREMENTS	SECTION	PR	AD	NON	IN APPLICATION		COMMENTS
6.	 If the pile is used for treatment, details of: A. The process and equipment used B. The nature and quality of the residues 							
7.	WPER (Waste Pile Evaluation and Repair) Plan	(264)(t)(25)						
8.	For indoor waste piles only, a descrip- tion of how the facility provides ground- water protection in lieu of the ground- water monitoring requirements of (264)(n).	(264)(t)(3)						
9.	Special procedures for treating, storing, and handling potentially incompatible wastes	(264)(t)(38,39)		,				
10.	Special procedures for treating, storing, and handling ignitable or reactive wastes	(264)(t)(37)						
11.	Description of surface water management measures	(264)(t)(32)						
12.	Surface water run-off collection and treatment facilities, including supporting calculations	(264)(t)(8) -(84)(1)(26)-				-		
13.	Measures to prevent run-on	(264)(t)(13)				-	÷	
14.	Provision of 50' buffer zone between hazardous waste facility and property line	(264)(t)(31)						******

WA	STE PILES (Continued)		W/Y GZUIVO	EQUATE Y/N	T APPLICAB	Facility Name ID Number PAGE NUMBER	
	REGJIREMENTS	SECTION		AD	NC	IN APPLICATION	COMMENTS
15.	Vector, Odor and Noise control (VONC) Plan	(264)(t)(40)				: 	
16.	Access road dimensions and construction description	(264)(t)(30)				-	
17.	List of equipment and standby equipment used in operation of the facility	(264)(t)(41,42)				: ;;	
18.	Description of unloading areas	(264)(t)(43)					
19.	Measures to control dust and waste tracking	(264)(t)(44,45)					
20.	For facilities receiving wastes from off-site, a description of the weighing or measuring facilities	(264)(t)(28)			•••••		
21.	Special closure requirements	(264)(t)(34,35)					

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REGJIREMENTS SECTION A 4 4 A PPLICATION COMMENTS 1. A copy of plan that specifies: 264(u)(3)(i-iv)	LAND TREATMENT	,		ROVIDED Y/N	DEQUATE Y/N	OT APPLICABI	Facility ID Nu PAGE NUMBER IN	Name Jmber
1. A copy of plan that specifies: 264(u)(3)(1-iv)	REQJIRI	EMENTS	SECTION	<u>А</u>	A	Z	APPLICATION	COMMENTS
A. The wastes that were treated at the facility B. Design measure and operating practices necessary for proper treatment C. Run-on and run-off control and collection measures D. Unsaturated zone monitoring program E. Ground-water monitoring program 2. Specify wastes constituents that shall be treated 264 (u)(4) 3. Specify the vertical and horizontal dimensions of the treatment zone 264 (u)(5) 4. A copy of the plan for demonstrating that waste constituents can be treated including: 264 (u)(6,7,8) A. Field test B. Laboratory tests C. Available data D. Operating requirements F. Design requirements F. Design requirements F. Design requirements F. Asplication rates and number of applications I. Duration of demonstration J. Monitoring procedures K. Treatment zone dimensions and soil descriptions L. Closure requirements S. The method of pH control described 264(u)(9)(i)	1. A copy of plan that	t specifies:	264(u)(3)(i-iv)					·····
B. Design measure and operating practices necessary for proper tireatment	A. The wastes th facility	at were treated at the						
treatment	B. Design measur practices nece	e and operating ssary for proper					[
D. Unsaturated zone monitoring program	treatment C. Run-on and ru	n-off control and					1 	********************************
2. Specify wastes constituents that shall be treated 264(u)(4)	D. Unsaturated z E. Ground-water	one monitoring program monitoring program						
3. Specify the vertical and horizontal dimensions of the treatment zone 264(u)(5)	2. Specify wastes con be treated	stituents that shall	264(u)(4)					
4. A copy of the plan for demonstrating that waste constituents can be treated including: 264(u)(6,7,8) A. Field test 264(u)(6,7,8) B. Laboratory tests	3. Specify the vertica dimensions of the t	l and horizontal reatment zone	264(u)(5)					
A. Field test 264(u)(6,7,8)	4. A copy of the plan that waste constitut	for demonstrating ents can be				,		
C. Available data D. Operating data (if available) E. Operating requirements F. Design requirements G. Area to be used for testing H. Application rates and number of applications I. Duration of demonstration J. Monitoring procedures K. Treatment zone dimensions and soil descriptions L. Closure requirements Output Month of pH control described 264(u)(9)(i)	A. Field test B. Laboratory tes	ts	264(U)(6,7,8)				*****	
F. Design requirements	C. Available data D. Operating data E. Operating requ	(if available) irements						
 He will be used for resting H. Application rates and number of applications I. Duration of demonstration J. Monitoring procedures K. Treatment zone dimensions and soil descriptions L. Closure requirements D. The method of pH control described 264(u)(9)(i) 	F. Design require	ments 1 for testing						
I. Duration of demonstration	H. Application rates	es and number of				-		
K. Treatment zone dimensions and soil descriptions	I. Duration of de J. Monitoring pro	monstration cedures			_			
L. Closure requirements	K. Treatment zon and soil descri	e dimensions otions				_		
5. The method of pH control described 264(u)(9)(i)	L. Closure require	ements						
	5. The method of pH of	ontrol described	264(u)(9)(i)					

LAND TREATMENT (Continued)		OVIDED Y/N	EQUATE Y/N	T APPLICABI	Facility Nat ID Numb PAGE NUMBER	ne
REQJIREMENTS	SECTION	- PR	AD	ON	IN APPLICATION	COMMENTS
6. The method of application and application rates described	264(u)(9)(ii)		_			
7. Methods to enhance microbial or chemical reactions described	264(u)(9)(iii)	_		_		
8. Methods to control moisture content in soils described	264(u)(9)(iv)		_			
9. Methods for incorporating waste in soil described	to 264(u)(9)(v)			_		
10. On-site soils described according to USDA-SCS classification system	264(u)(9)(ix-xiii)					
 Map locating: A. Streams B. Public and private water supple C. Bedrock outcrops D. Property lines E. Sink holes or closed depression 	ies s					
12. Run-on and run-off control system design plans (25-year storm)	264(u)(10,13)	حنيب				
 13. If food chain crops are to be grown, a copy of demonstration describing: A. How waste constituents will no be transferred to the food or feed portions of the crop or occur in greater concentrations than background levels 	264(u)(18)(i-iv) and 264(u)(19)(i-ii) t					
B. Field testsC. Greenhouse studies				_		

LAND	TREATMENT (Continued)	SECTION	PROVIDED Y/N	ADEQUATE Y/N	NOT APPLICABI	Facility Name ID Number E NUMBER IN PLICATION	COMMENTS
13. 	 f food chain crops are to be grown, a copy of demonstration describing: Available data and data evaluation Operating data (if available) Soil characteristics Waste characteristics Laboratory tests Application rates and methods Crop management plan Operating plan Food chain crop characteristics 						
14. C	opy of crop management plan	264(u)(20)			: : :		
15. C p A B C D E F. G	 opy of unsaturated zone monitoring lan that details: Constituents to be monitored and justification for their selection Soil core monitoring Soil pore liquid monitoring Background values for soils and soil pore liquid and procedures for establishing them Frequency and times for sampling soil and soil pore liquids including equipment and procedures utilized Statistical procedure for comparing monitoring Sample collection procedures 	264(u)(21)					
H I.	Analytical procedures Procedures for selecting sampling locations			 			

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LAND TREATMENT (Continued)		ROVIDED Y/N DEQUATE Y/N	III Facility III ID N PAGE NUMBER O IN	Name umber {
REQJIREMENTS	SECTION	а. 	² APPLICATION	COMMENTS
 16. A copy of closure plan that details during closure: A. Operational procedures necessary B. Run-on controls C. Run-off controls D. Wind dispersal controls E. Food-chain crop restriction F. Unsaturated zone monitoring G. Revegetation procedures 	264(u)(24)			
 A copy of post-closure plan that details during post-closure A. Operational procedures necessary B. Maintenance of vegetative cover C. Run-on control measures D. Run-off control measures E. Wind dispersal measures F. Food-chain crop restrictions G. Unsaturated zone monitoring measures H. Ground-water monitoring 	264(u)(25)			
18. Property deed stipulation clause	(264)(u)(40)			
9. UZM (Unsaturated Zone Monitoring) Plan	(264)(u)(21,22)			
20. Sample operating record	(264)(u)(23)		: : :	
1. Special procedures for treating, storing, and handling potentially incompatible wastes	(264)(u)(29)			
2. Special procedures for treating, storing, and handling ignitable waste or reactive wastes	(264)(u)(28)			•

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; 	REQJIREMENTS	SECTION	PRO	ADE	Market In APPLICATION	COMMENTS
23. Measures	s to prevent run-on	(264)(u)(10)				
24. Vector, C Plan	Ddor, and Noise Control (VONC)	(264)(u)(9)(viii),(39)				
25. Access ro description	oad dimensions and construction	(264)(u)(36)				**********
6. List of ecused in o	guipment and standby equipment peration of the facility	(264)(u)(30,31)				
7. Descripti practices	on of unloading areas and	(264)(u)(32,33)				
8. Measures of particu tracking	to control dust, wind dispersal llate matter, and waste	(264)(u)(34,35)				
9. For facil off-site, or measur	ities receiving wastes from a description of the weighing ing facilities	(264)(u)(37)				
0. Special c requireme	losure and postclosure ents	(264)(u)(17,18,24,25)				

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	IFF2		OVIDED	EQUATE	T APPLI	Facility Nam ID Numbe PAGE NUMBER	e
REGJIREMENTS		SECTION			ON	IN APPLICATION	COMMENTS
D	esign drawings, specifications and						
re	defended standards pertaining to the	(964)(1)(2)					
181 A	Retingted life of the landfill	(204)(0)(3)				• ••••••••••••••••••••••••••••••••••••	
B	Final surface grades	(264)(y)(3)(y,y)				• • • • • • • • • • • • • • • • • • •	
C.	Surface and run-off water management	(264)(v)(3)(vii,vii)				•	
0	burrace and run orr water management	and $(4)(xyiii)$					
D.	Run-on water diversion	(264)(y)(3)(ix)				· · · · · · · · · · · · · · · · · · ·	
Ε.	Daily and intermediate cover	(264)(v)(3)(x,xi)				· · · · · · · · · · · · · · · · · · ·	
F.	Gas venting	(264)(v)(3)(xii)					
G.	Anticipated static and dynamic						
	loadings	(264)(v)(3)(xiii)					
н.	Liner system description, including	(264)(v)(3)(xiv)					
	1. Subbase	(264)(v)(3)(xiv)(A)					·
	n. Emer materials, permeability,						
	iji Bottom liner	(264)(y)(3)(y)(B)				· · · · · · · · · · · · · · · · · · ·	
	iv. Leachate detection zone system	(264)(y)(3)(xiy)(C),(xix)			, —		
	v. Top (primary) liner	(264)(v)(3)(xiv)(D)				••••••••••••••••••••••••••••••••••••••	
	vi. Protective cover zone/leachate	(====/(-/(=)/(=)/(=)/					
	collection zone	(264)(v)(3)(xiv)(E)					
Ι.	Сар	(264)(v)(3)(xiv)(F)		_			
J.	Seasonal and ground water table						
	provisions	(264)(v)(3)(xv)				498.000000000000000000000000000000000000	
К.	Perimeter markings	(264)(v)(3)(xvi)					
ц.	Protection from existing landfill	(964)(
м	area leachate Leachate collection storage and	(204)(V)(S)(XVII)					
141 •	removal system	(264)(y)(3)(xyiji)					
N.	Leachate and/or runoff treatment	(
	system	(264)(v)(3)(xviii.					
		xxiv, xxv				,	
0.	Groundwater protection	(264)(v)(4)(viii)					

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	NDFILLS (Continued)		ROVIDED Y/N	DEQUATE Y/N	OT APPLICABL	Facility Na ID Numl AGE NUMBER IN	me be r
<u></u>	REQJIREMENTS	SECTION	д 	A 	A	PPLICATION	COMMENTS
2.	Description of general operating standards A. Wind dispersal protection B. Incompatible waste provisions C. Separation from municipal and	(264)(v)(4) (264)(v)(4)(i,xvi) (264)(v)(4)(ii)			·		
, ÷	liquid wastes D. Layering E. Inspection	(264)(v)(4)(iv,v) (264)(v)(4)(x) (264)(v)(4)(xix)					
3.	Provision of 50' buffer zone between hazardous waste facility and property line. No buildings or structures within 25' of disposal area	(264)(v)(3)(iv)		_			
4.	Vector, Odor, and Noise Control (VONC) Plan	n (264)(v)(4)(vii)					
5.	Access road dimensions and construction description	(264)(v)(3)(i)		<u> </u>		· · · · · · · · · · · · · · · · · · ·	
6.	List of equipment and standby equipment used in operation of the facility	(264)(v)(4)(ix,xi)				· · · · · · · · · · · · · · · · · · ·	
7.	Description of unloading areas	(264)(v)(4)(xii,xiii)					
8.	Measures to control dust and waste tracking	(264)(v)(4)(xv,xvii)					
9.	For facilities receiving wastes from off-site, a description of the weighing or measuring facilities	(264)(v)(3)(ii)					
10.	Special closure requirements	(264)(v)(3)(xxvi)				·	
							•

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF SOLID WASTE MANAGEMENT

HAZARDOUS WASTE PERMIT APPLICATION - PART A

GENERAL INFORMATION

NUMBER OF COPIES

Six (6) copies of the Part A permit application and all attachments must be submitted to the Department.

COMPLETION OF FORMS

Unless otherwise specified in instructions to the forms, each item must be answered. To indicate that each item has been considered, enter "NA," for not applicable, if a particular item does not fit the circumstances or characteristics of your facility or activity.

If you have previously submitted information to DER or to EPA which answers a question, you may either repeat the information in the space provided or attach a copy of the previous submission. Some items in the form require narrative explanation. If more space is necessary to answer a question, attach a separate sheet entitled "Additional Information."

CONFIDENTIAL INFORMATION

All information submitted in this form will be subject to public disclosure, to the extent provided by Section 502(c) of Act 97, The Solid Waste Management Act of 1980. Persons filing this form may make claims of confidentiality. Such claims must be clearly indicated by marking "confidential" on the specific information on the form for which confidential treatment is requested or on any attachments, and must be accompanied, at the time of filing, by a written substantiation of the claim, by answering the following questions:

CONFIDENTIAL INFORMATION (continued)

A. Which portions of the information do you claim are entitled to confidential treatment?

B. For how long is confidential treatment desired for this information?

C. What measures have you taken to guard against undesired disclosure of the information to others?

D. To what extent has the information been disclosed to others, and what precautions have been taken in connection with that disclosure?

E. Has EPA or any other Federal agency made a pertinent confidentiality determination? If so, include a copy of such determination or reference to it, if available.

F. Will disclosure of the information be likely to result in substantial harmful effects to your competitive position? If so, what would those harmful effects be and why should they be viewed as substantial? Explain the causal relationship between disclosure and the harmful effects.

If no claim of confidentiality or no substantiation accompanies the information when it is submitted, DER may make the information available to the public without further notice to the applicant.

LINE BY LINE INSTRUCTIONS

SECTION I

Space is provided at the upper left hand corner of page 1 for insertion of your EPA Identification Number. If you have an existing facility, enter your Identification Number. If you don't know your EPA Identification Number, please contact EPA at 215-597-8751.

SECTION II

Enter the facility's official or legal name. Do not use a colloquial name.

SECTION III

Give the name, title, and work telephone number of a person who is thoroughly familiar with the facts reported in this application and who can be contacted by the person reviewing this application if necessary.

SECTION IV

Give the complete mailing address of the office where correspondence should be sent. This may or may not be the address used to designate the location of the facility.

SECTION V

Give the location of the facility identified in Section IV of this form. If the facility lacks a street name or route number, give the most accurate alternative geographic information (e.g., at intersection of Rts. 425 and 22). Include the name of municipality (e.g., township, boro, city, etc.) and the county.

SECTION VI

List, in descending order of significance, the four 4-digit standard industrial classification (S/C) codes which best describe your facility in terms of the principal products or services you produce or provide. Also, specify each classification in words. These classifications may differ from the SIC codes describing the operation generating the hazardous wastes.

SIC code numbers are descriptions which may be found in the "Standard Industrial Classification Manual" prepared by the Executive Office of the President, Office of Management and Budget, which is available from the Government Printing Office, Washington, D.C. Use the current edition of the manual.

SECTION VII-A

Give the name, as it is legally referred to, of the person, firm, public organization, or any other entity which operates the facility described in this application. This may or may not be the same name as the facility. The operator of the facility is the legal entity which controls the facility's operation rather than the plant or site manager. Do not use a colloquial name.

SECTION VII-B

Indicate whether the entity which operates the facility also owns it by marking the appropriate box.

SECTION VII-C THRU F

Enter the telephone number and address of the operator identified in Section VII-A.

SECTION VII-H

Enter the appropriate letter to indicate the legal status of the operator of the facility. Indicate "public" for a facility solely owned by local government(s) such as a city, town, county, etc.

SECTION VIII

Give the number of each currently effective Federal or State permit issued to the facility for each program or, if you have previously filed an application but have not yet received a permit, give the number of the application, if any. Fill in the unshaded area only. If you have more than one currently effective permit for your facility under a particular permit program, you may list additional permit numbers on a separate sheet of paper.

SECTION IX

³rovide a topographic map or maps of the area extending at least to one nile beyond the property boundaries of the facility which clearly show the following:

The legal boundaries of the facility;

The location and serial number of each of your existing and proposed intake and discharge structures;

All hazardous waste management facilities;

Each well where you inject fluids underground; and

All springs, surface water bodies, and any wells within 1/4 mile of the facility.

f an intake or discharge structure, hazardous waste disposal site, or njection well associated with the facility is located more than one mile rom the plant, include it on the map, if possible. If not, provide an idditional map on which the structure, site, or well has been plotted.

On each map, include the map scale, a meridian arrow showing north, ind latitude and longitude at the nearest whole second. On all maps of treams, show the direction of the current, and in tidal waters, show the lirections of the ebb and flow tides. Use a 7-1/2 minute series map published by the U.S. Geological Survey, which may be obtained from:

Eastern Mapping Center National Cartographic Information Center U.S.G.S. 536 National Center Reston, Va. 22092 Phone No. (703) 860-6336

ECTION X

Sriefly describe the nature of your business (e.g., products produced or ervices provided).

ECTION XI-A

IRST APPLICATION. If this is the first application that is being filed or the facility place an "X" in either the Existing Facility box or the lew Facility box.

ECTION XI-B

EVISED APPLICATION. If this is a subsequent application that is being iled to amend data filed in a previous application, place an "X" in the ppropriate box to indicate whether the facility has interim status or a ermit.

NOTE: When submitting a revised application, applicants must resubmit their entirety each item on the application for which changes are reuested. It is not necessary to resubmit information for other items that vill not change.)

ECTION XII

he information in Section XII describes all the processes that will be sed to treat, store, or dispose of hazardous waste at the facility. The esign capacity of each process must be provided as part of the description. he design capacity of injection wells and landfills at existing facilities rould be measured as the remaining, unused capacity. See the form for he detailed instructions.

SECTION XIII

The information in Section XIII describes all the hazardous wastes that will be treated, stored, or disposed at the facility. In addition, the processes that will be used to treat, store, or dispose of each waste and the estimated annual quantity of each waste must be provided. See the form for the detailed instructions.

SECTION XIV

All existing facilities must include a drawing showing the general layout of the facility. This drawing must be approximately to scale and fit in the space provided on the form. This drawing must show the following:

The property boundaries of the facility;

The areas occupied by all storage, treatment, or disposal operations that will be used during interim status;

The name of each operation. (Example – multiple hearth incinerator, drum storage area, etc.);

Areas of past storage, treatment, or disposal operations;

Areas of future storage, treatment, or disposal operations; and

The approximate dimensions of the property boundaries and all storage, treatment, and disposal areas.

New facilities do not have to complete this item.

SECTION XV

All existing facilities must include photographs that clearly delineate all existing structures; all existing areas for storing, treating, or disposing of hazardous waste; and all known sites of future storage, treatment, or disposal operations. Photographs may be color or black and white, ground-level or aerial. Indicate the date the photograph was taken on the back of each photograph.

SECTION XVI

Enter the latitude and longitude of the facility in degrees, minutes, and seconds. For larger facilities, enter the latitude and longitude at the approximate mid-point of the facility.

SECTION XVII

See the form for the instructions to Section XVII.

SECTIONS XVIII AND XIX

All facility owners must sign Section XVIII. If the facility will be operated by someone other than the owner, then the operator must sign Section XIX. The certification must be signed as follows:

A. For a corporation, by a principal executive officer at least the level of vice president;

B. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or

C. For a municipality, State, Federal, or other public facility, by either a principal executive officer or ranking elected official.

EH-SWM 59:1/82	E	BUREAU OF SOLI	D WASTE MA	NAGEMENT				
с	HAZARDO	OUS WASTE PER	MIT APPLIC	ATION -	PART A.			•
Please print or type in the u	nshaded areas only	and the second second second			•			
I. EPAILD. NUMBER						مع معهود (Constraint) مع		
				An fairte anns				
II. NAME OF FACILITY								
HIN FACILITY CONTACT			ki kana kana kana kana kana kana kana ka	a the second			a sta lista a statu i	na se dest
	A. NAME & TIT	LE <i>(last, first, & title</i>	n)				3. PHONE (are	a code & no
-	· · ·				~			
IV. FACILITY MAILING A	DDRESS							sen hein n sing Marine
								·
		S. CITY OF TO	//N				C. State	D. Zip C
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V. FACILITY LOCATION		ar sala sa sa sa sa sa sa sa sa		an a			:	
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IX. MAP Attach to this application a outline of the facility, the lo storage, or disposal facilities	topographic map of cation of each of it , and any well when	the area extendin s existing and prop e it injects fluids u	g to at least of posed intake a inderground. I	ne mile bey nd discharg nolude all s	and proper e structures prings, river	ty boundarie , each of its s and other	s. The map r hazardous w surface water	nust show aste treatm * bodies in

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XII.

DESCRIPTION OF HAZARDOUS WASTES XIII.

PROCESSES (continued)

HAZARDOUS WASTE NUMBER - Enter the four-digit number from 75.261(h) for each listed hazardous weste you will handle. If you handle hazardous westes which are not listed in 75.261(h), antar the four-digit number/s/ from 75.261(g) that describes the characteristics and/or the EP toxic contaminants of those hazardous wester.

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "704"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY;

BE ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quentity of that waste that will handled on an annual basis. For each characteristic or EP toxic conteminant entered in column A estimate the total annual quantity of all the non-listed westers that will be handled which possess that characteristic or contaminant.

UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE POUNDS p. TONS

METRIC UNIT OF MEASURE CODE KILOGRAMS

METRIC TONS

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

PROCESSES

PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained

in Section XII to indicate how the waste will be stored, treated, and/or disposed of at the facility. For non-listed hazardous wastes: For each characteristic or EP toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Section XII to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous westes that possess the characteristic or toxic contaminent.

Note: Four spaces are provided for entering process codes. If more are needed; [1] Enter the first three as described above; [2] Enter "000" in the extreme right box of Item XIII-D(1); and [3] Enter in the space provided on page 5, the line number and the additional code(s),

PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the 2. form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one Hazardous Wasta Number shall be described on the form as follows:

- 1. Select one of the Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste
- In column A of the next fine enter the other Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- 9 Repeat step 2 for each other Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING SECTION XIII (Shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of leaded tank bottoms from the petroleum refining industry, in addition, the facility will treet and dispose of three non-listed wastes. Two wastes are corrosive only and there will be in estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

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NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

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(enter "A", "B", "C", etc. behind the "4" to identify photocopied pages)

XIII. DESCRIPTION	OF HAZARDOUS	WASTES (contil	nued) 💦					
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ER-SWM-66:8/82

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Commonwealth of Pennsylvania Department of Environmental Resources Bureau of Solid Waste Management

Date Prepared:

I.D. Number:

GENERAL ENVIRONMENTAL, SOCIAL AND ECONOMIC INFORMATION

MODULE NO. 9

Prepared by:

This module is to be completed and submitted with applications for the following:

1) Municipal Waste Landfills including:

- a) new landfills;
- an expansion, enlargement or alteration of the facility beyond the original design capacity or beyond the area specified in the permit obtained from the Department;
- c) existing landfills where the permit is to be revised, modified or re-issued to reflect the application of technology which is significantly different than that previously permitted by the Department.
- . 2) Municipal waste (Class V) incinerators.
- 3) Residual waste landfills and expansions thereof.
- Non-captive hazardous waste treatment and disposal facilities.
- 5) Captive hazardous waste treatment and disposal facilities which are not located at the facility where the waste is generated.
- 6) Other individual permit applications at the discretion of the Bureau of Solid Waste Management when a particular project appears to have a significant effect on environmental values.
- NOTE: Construction and demolition waste landfills, agricultural utilization of sewage sludge, commercial waste incinerators and hospital incinerators are not included.

The purpose of this module is to obtain information to assist the Department in evaluating the potential impact of a proposed project on the natural, scenic, historic and aesthetic values of the environment, in accordance with Article I, Section 27 of the Pennsylvania Constitution. A positive response to a particular question will not necessarily indicate significant environmental harm nor result in the denial of a permit. The actual determination of whether the potential for significant environmental harm exists will be made by the Department after consulta-tion with the applicant and other concerned governmental agencies. If the Department determines that there may be a significant impact on natural, scenic, historic or aesthetic values of the environment, the Department will consult with the applicant to examine ways to reduce the environmental harm to a minimum. If, after consideration of mitigation measures, the Department finds that significant environmental harm will occur, the Department will evaluate the public social and economic benefits of the project to determine whether the harm outweighs the benefits.

Part A must be completed by all applicants. Part B should be completed by applicants who determine that the potential for significant environmental harm exists. The Department may request more detailed information on environmental, social, and economic impacts, if necessary.

- A. The following questions request information concerning the potential impact of the proposed facility on natural, scenic, historic, and aesthetic values of the environment. Circle the appropriate answer. Map requested information on a U.S.G.S. 7.5 minute topographic quadrangle map where possible. Use additional paper to provide written responses.
- Is the project located in the <u>corridor</u> of a stream or river designated as a national or state wild, scenic, recreational, or modified recreational river in accordance with the National Wild and Scenic Rivers Act of 1968, or the Pennsylvania Scenic Rivers Act?

No

If yes,

Yes

- Identify the river, the outline of the designated corridor, and the location of the project within the corridor.
- b) Describe how the project conforms to the Land Management Quidelines and Studies or Plans for the corridor.
- 2. Is the project located within one mile of the nearest bank of a stream or river listed as a 1-A priority for study by the Pennsylvania Department of Environmental Resources as a state wild, scenic, recreational, or modified recreational river; or mandated by the U.S. Congress for study or determined by the U.S. Heritage Conservation and Recreation Service to meet the criteria for study for potential inclusion into the National Wild and Scenic Rivers System?

No

Yes

- If yes,
 - a) Identify the river or stream and its distance from the project.
 - b) Conduct visual and traffic analyses as specified in the applicant guidelines.
 - c) Describe the characteristics of the project which might create adverse environmental, visual, or traffic impacts on or in the vicinity of the river or stream.
 - d) Describe measures to be taken to minimize adverse impacts on the river or stream.
- 3. Is the project located within one mile of a unit of the National Parks System; a state, county, or municipal park; a recreation facility operated by the U.S. Army Corps of Engineers; a state forest picnic area; or the Allegheny River Reservoir in the Allegheny National Forest?

Yes No

If yes,

- a) Identify the park or other area and its distance from the project.
- b) Conduct visual and traffic analyses as specified in the applicant guidelines.
- c) Describe the characteristics of the project which might create adverse environmental, visual, or traffic impacts on the park or other area.
- d) Describe measures to be taken to minimize adverse impacts on the park or other area.

Is the project located within one mile of the footpath of the Appalachian Trail?

Yes No

If yes,

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- a) Indicate the distance from the project to the Appalachian Trail.
- b) Conduct visual and traffic analyses as specified in the applicant guidelines.
- c) Describe the characteristics of the project which might create adverse environmental, visual, or traffic impacts on the Appalachian Trail.
- d) Describe measures to be taken to minimize adverse impacts on the Appalachian Trail.

No

Is the project located within one mile of a national natural landmark designated by the U.S. National Park Service; or a natural area or wild area designated by the Pennsylvania Environmental Quality Board?

If yes.

Yes

- a) Identify the natural landmark, natural area, or wild area and its distance from the project.
- b) Conduct visual and traffic analyses as specified in the applicant guidelines.
- c) Describe the characteristics of the project which might create adverse environmental, visual, or traffic impacts on the natural landmark, natural area, or wild area.
- d) Describe measures to be taken to minimize adverse impacts on the natural landmark, natural area, or wild area.
- 6. Is the project located within one mile or within an identified potential impact area of a national wildlife refuge, national fish hatchery, or national environmental center operated by the U.S. Fish and Wildlife Service?

Yes No

If yes,

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- a) Identify the wildlife refuge, fish hatchery, or environmental center and its distance from the project.
- b) Conduct visual and traffic analyses as specified in the applicant guidelines.
- c) Describe the characteristics of the project which might create adverse environmental, visual, or traffic impacts on the wildlife refuge, fish hatchery, or environmental center.
- d) Describe measures to be taken to minimize adverse impacts on the wildlife refuge, fish hatchery, or environmental center.
- 7. Is the project located within one mile of an historic property owned by the Pennsylvania Historical and Museum Commission?

Yes No

If yes,

- a) Identify the historic property and its distance from the project.
- b) Conduct visual and traffic analyses as specified in the applicant guidelines.
- c) Describe the characteristics of the project which might create adverse environmental, visual, or traffic impacts on the historic property.
- d) Describe measures to be taken to minimize adverse impacts on the historic property.

8. Is the project located within 4 mile of an historic site listed in the National Register of Historic Places or the Pennsylvania Inventory of Historic Places; or an archaeological site listed in the Pennsylvania Archaeological Site Survey?

No

Yes

If yes,

- a) Identify the historic or archaeologic site, and its distance from the project.
- b) Describe the characteristics of the project which might create adverse impacts on the historic or archaeological site.
- c) Describe measures to be taken to minimize adverse impacts on the historic or archaeological site. d) Indicate any contact you have had with the
- Pennsylvania Historical and Museum Commission about the project.
- Is the project within ½ mile of the boundary of a 9. state forest or state game land; or the proclamation boundary of the Allegheny National Forest?

No

If yes,

Yes

- a) Identify the forest or game land and its distance from the project.
- b) Describe the characteristics of the project which might create adverse impacts on the forest or game land.
- c) Describe measures to be taken to minimize adverse impacts of the project on the forest or game land.
- 10. Is the project located within an area which is a habitat of a rare, threatened, or endangered species of plant or animal protected by the Federal Endangered Species Act of 1973, or recognized by the Pennsylvania Fish Commission or Pennsylvania Game Commission?

No

If yes,

Yes

- a) Identify the species and the habitat area and the location of the project within the area.
- b) Describe the characteristics of the project which might create adverse impacts on the species or habitat.
- c) Describe measures to be taken to minimize adverse impacts on the species or habitat.
- d) Describe any contact you have had with the Pennsylvania Fish Commission, Pennsylvania Game Commission, Pennsylvania Historical & Museum Commission, or U.S. Fish and Wildlife Service about the project.
- 11. Is the project located on prime farmland (Class I and II soils) as indicated in the U.S. Soil Conservation Service County Soil Survey?

No

If yes, identify the location and acreage of prime farmland and the location of the project.

12. Is the project located within a wetland?

Yes No

Yes

If yes,

- a) Identify the location and size of the wetland and the location of the project.
- b) Is a permit required for the project, for filling or dredging the wetland, under Section 404 of the Federal Clean Water Act?
- c) Describe any contact you have had with the U.S. Army Corps of Engineers or the U.S. Fish and Wildlife Service about the project.
- d) Is a permit required for the project for a dam or waterway obstruction in the wetland, under Chapter 105 of the Rules and Regulations of Pennsylvania Department of Environmental Resources?

- 13. Is the project located within a Special Protection Watershed, as designated in Chapter 93 of the Rules and Regulations of the Pennsylvania Department of Environmental Resources?
 - Yes No
 - If yes,.
 - a) Identify the stream and watershed, and the distance of the stream from the project.
 - b) Describe the characteristics of the project which might create adverse impacts on the stream.
 - c) Describe measures to be taken to minimize adverse impacts on the stream.
- 14. Is the project located within the watershed or aquifer, and within one mile of a public water supply facility dependent on groundwater sources; or upstream, within the watershed, and within three miles of a public water supply facility dependent on surface sources?
 - Yes No

If yes,

- a) Identify the public water supply facility, and its supply source; locate both on a topographic map; and indicate their distances from the project.
- b) Briefly describe the public water supply facility, including capacity and population served.c) Describe measures to be taken to protect the
- public water supply facility from any potential harm.
- 15. Is the project located within a 100-year floodplain as indicated on a Flood Boundary and Floodway Map contained in a flood insurance study prepared by the Federal Insurance Administration, or as determined by some other method if a Flood Boundary and Floodway Map is not available?
 - Yes No

If yes,

- a) Is the project located in the floodway, based on available detailed studies?
- b) Is a permit required for the project under Chapter 105 of the Rules and Regulations of the Pennsylvania Department of Environmental Resources?
- c) Describe any contacts you have had with the Bureau of Dams and Waterway Management about the project.
- d) Is a permit required by the local municipality under the Floodplain Management Act?
- e) Describe any contact you had had with the municipality about the project.
- 16. Will the project, absent control measures, result in an increase in the peak discharge rate for stormwater drainage from the project site?
 - Yes No
 - If yes,
 - a) Describe the amount of increase in the peak discharge rate for stormwater drainage.
 - b) Describe adverse impacts that might result from the increase in peak discharge rate for stormwater drainage.
 - c) Describe measures to be taken to minimize adverse impacts from the increase in the peak discharge rate for stormwater drainage.

If no, provide documentation supporting this judgment.

17. Is the project located in a landslide, sinkhole, or mine-subsidence prone area?

No

Yes

If yes,

- a) Identify the geologic hazard and the location of the project.
- b) Indicate how the geologic hazard will affect the project.
- c) Describe engineering and design measures to be taken to minimize the geologic hazard to the project and prevent an increase in danger from the hazard to other property owners in the vicinity.
- 18. Will the project create an increase in traffic on the approach route(s) leading to the project?

No

Yes

If yes,

- a) Identify the approach route(s) to the project site, and describe them in terms of :
 - design capacities, roadway width and condition;
 average daily traffic counts (if available from Pennsylvania Department of Transportation);
 hazardous grades or curves.
- b) Describe the expected traffic increase; include number, type, size and weight of vehicles and distribution on approach routes.
- c) Identify and indicate number of residences fronting (50 feet setback or less) on approach route(s)
- to the project site.
- d) Identify any schools, hospitals, or nursing homes located on the approach route(s) to the project site.
- e) Describe any special routing or timing of traffic to the project site to be provided to minimize conflict with other traffic or to prevent safety hazards. Traffic impacts analyzed for previous questions should be briefly mentioned.
- If the project is a solid waste disposal facility disposing of putrescible wastes,
 - a) Is it located within 10,000 feet of a public use airport runway used by turbo jet aircraft?

Yes No

b) Is it within 5,000 feet of a public use airport runway used by only piston-type aircraft?

Yes No

If yes, identify the airport and its distance from the project.

- B. If the Department finds that the project will cause unavoidable significant environmental harm, the Department will then determine whether the harm outweighs the public social and economic benefits of the project. The following questions request information regarding social and economic benefits.
- Indicate the counties and/or municipalities which will comprise the service area of the project*, and the estimated proportion of the total volume and type of solid wastes which will come from each.
- Describe how wastes will be transported from their source to the project (include mode & handling enroute).

- Is the project consistent with local, county or regional solid waste plans, if such plans exist? Indicate which plans have been consulted and explain why the project is or is not consistent with each.
- 4. What factors indicate the need for the project in the identified service area? Cite local plans, if applicable; present and future expected solid waste volumes and their sources within the service area; adequacy of existing facilities to meet present and future needs, etc.
- 5. If the project will handle industrial wastes, indicate the types of industries which need disposal services, number of establishments to be served, general locations of establishments, employment in these establishments, and their economic importance. Describe why these wastes are not presently being handled adequately. What will be the impact on industries if a disposal facility is not available?
- 6. Describe factors (such as location, transportation, geology, etc.) which make the proposed project site well-suited to serve the needs described above. Compare the proposed site with other potential sites which have been considered, or which may be available within, or reasonably close to, the service area.
- 7. What revenues will be generated by the project for local jurisdictions (counties, local governments, school districts, etc.) in the form of fees, taxes, royalties, etc.? List type, amount and frequency of payment (yearly, monthly, one-time, etc.).
- How many people will be employed directly in operating the project and what are their occupations? What will the estimated yearly payroll (in present dollars) be for the project.
- 9. Include any additional relevant information which would indicate the public social and economic benefits to be provided by the project.

*Service area is that area or areas in which wastes handled at the project will be generated.

February 1985

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL RESOURCES

BUREAU OF SOLID WASTE MANAGEMENT

ADDENDUM TO MODULE NO. 9

General Environmental, Social and Economic Information

Question number twelve of <u>Module No. 9</u>, Form ER-SWM-66:82 is modified to read as follows:

 Is the project, including any incidental earthmoving or construction activities, located in or within 300 feet of a wetland.

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ER-SWM-58:4/27

DATE PREPARED

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF SOLID WASTE MANAGEMENT

IDENTIFICATION NO.

COMPLIANCE HISTORY MODULE NO. 10

COMPLETION OF THIS MODULE IS REQUIRED AS A PART OF THE APPLICATION FOR ANY TYPE OF SOLID WASTE MANAGEMENT PERMIT OR LICENSE

ATTACH ADDITIONAL SHEETS AS NECESSARY TO ANSWER THE FOLLOWING:

- A. Purpose and Applicability:
 - The purpose of this application module is to assess the applicant's history of compliance with laws, regulations and standards relating to environmental protection in conformance with Sections 503(c) and (d) of the Pennsylvania Solid Waste Management Act. Failure to provide valid information required may result in the denial, suspension or revocation of your permit [license] as well as the imposition of civil and criminal sanctions.
 - 2. Completion of this module is required in order for the Department to process and review the application and/or permit [license] pursuant to the Solid Waste Management Act.
 - 3. This module may also be required as part of a facility [transporter's] annual report, when a permit is to be amended, revised or otherwise modified, or when the Department determines such information is necessary to properly monitor a permit [license].
 - 4. Unless otherwise noted herein, this module applies to compliance history in regard to the following statutes and regulations promulgated thereunder.
 - a. Pennsylvania Solid Waste Management Act of July 31, 1968, (P.L. 788, No. 241).
 - b. Pennsylvania Solid Waste Management Act of July 7, 1980. (F.L. 380, No.97).
 - c. Clean Streams Law of June 22, 1937, (P.L. 1987, No. 394).
 - d. The Air Pollution Control Act of January 8, 1960 (1959 P.L. 2119, No. 787).
 - e. The Surface Mining Conservation and Reclamation Act of May 31, 1945 (P.L. 1198, No. 418).
 - f. Dam Safety and Encroachments Act of November 26, 1978 (P.L. 1375, No. 325).
 - g. Other State and Federal statutes relating to environmental protection, air or water quality, solid waste management or surface mining.
 - 5. If the Applicant is a corporation, this module shall be signed by two corporate officers authorized to execute this module, or by one corporate officer and one corporate employee in Pennsylvania with sufficient authority over the solid waste management activity being licensed or permitted to be authorized to execute this module. A corporate seal shall be affixed; however, if no seal is required by the state of incorporation of the applicant, the applicant should so state and no seal will be required.

B. Applicant Background:

The following questions are to be completed by the applicant:

- 1. State the legal name and address of the applicant.
- 2. Identify all of the applicant's places of business and terminals where municipal or residual waste processing or disposal or hazardous waste generation (with the exception of small quantity generators), transportation, storage, treatment or disposal facilities or activities are conducted in Pennsylvania.

3. Identify the form of management under which the applicant conducts its business in Pennsylvania (check appropriate box):

Individual Municipality Proprietorship Corporation	 Partnership Limited Partnership Government Agency Other (identify the nature of the business relationship)

- 4. Complete the following where applicable:
 - a. If the applicant is a corporation (as indicated in Question B. 3 above), list names and addresses of all principals of the corporation. This shall include the following: corporate officers, members of the board of directors, and principal stockholders who own, hold, or control stock of five percent (5%) or more of a publicly held corporation or ten percent (10%) or more of a privately held corporation. List the social security number* of all individuals identified, and the IRS tax identification number and/or employer identification number of corporations and other business entities.

*Supplying individual social security numbers is optional; failure to provide all applicable numbers, however, will make processing of the application more difficult.

b. List and designate the relationship of all United States parent corporations of the applicant, including ultimate parent corporations, and all United States subsidiary corporations of the applicant and of the ultimate parent corporation (if any) and their principal places of business. Include the IRS tax identification number of the corporations listed.

c. If the applicant is a partnership (as indicated in Question B.3 above), list the names, social security numbers* and addresses of all partners, both general and limited.

d. List the name, social security number*, or IRS tax identification number and/or employer ID number and affiliation of any other person or entity having or exercising control over any Pennsylvania DER-regulated aspect of the proposed facility or activity, such as associates, contractors, subcontractors, agents, or landowners. 5. List all Pennsylvania DER permits or licenses, issued pursuant to the statutes listed in item A(4) (a-e) above, that the applicant, including all persons and organizations identified in this Section B, currently has in effect or has had in effect in the past ten year. (Include type of permit or license, number and location, date issued, expiration date, if any.)

6. Identify any solid waste processing or disposal facility, area or activity in Pennsylvania since 1970 or hazardous waste storage, treatment, transportation, or disposal facility, area, or activity in Pennsylvania since 1980 which the applicant, or any person or entity identified anywhere in Section B, currently owns or operates, or previously owned or operated, but which is not listed under any of the above responses to this Module. This shall include any solid waste management activities which are no longer permitted or which were never under permit. Include the locations(s) of all such facilities, areas, or activities, the type of operation, and identify any state or federal permits pursuant to which they operate or have operated.

- C. Compliance Background:
 - 1. Identify any "Notice of Violation" sent to the applicant or those persons or entities identified anywhere in response to Section B over the past five year period from Pennsylvania DER. Include the date of the "Notice of Violation", the location of the alleged violation, the nature of the alleged violation and the disposition. (Attach copies or make available upon request.)

2. Identify any administrative orders issued by Pennsylvania DER, civil penalties assessed by Pennsylvania DER, bond forfeiture actions brought by Pennsylvania DER, and civil penalties actions adjudicated by the Environmental Hearing Board since January 1, 1970, against the applicant or those entities identified anywhere in Section B. Describe the date, location of the violations, and nature of the violations. (Attach copies of orders, assessments and adjudications or make available upon request.)

3. Identify any summary, misdemeanor, or felony convictions or pleas of guilty or nolo contendere that have been obtained since 1970 in Pennsylvania against the applicant or those persons or entities identified anywhere in Section B pursuant to those statutes identified in Section A.4 or for any acts in Pennsylvania involving the storage, treatment, transportation, processing, or disposal of solid wastes.

4. Identify any court proceedings in Pennsylvania since January 1, 1970 which relate to those statutes listed in Section A.4 that those persons or entities identified anywhere in Section B have been a party to. State the disposition of those proceedings. Do not include those proceedings listed in Section C.3 above.

- 5. Identify any consent order, consent adjudication, consent decree or settlement agreement in Pennsylvania entered into since January 1, 1970 by the applicant, or those persons or entities identified anywhere in Section B, to which either a county health department, the Pennsylvania DER, or the U.S. Environmental Protection Agency was a party and which concerned any facility or activity in Pennsylvania regarding an environmental protection statute or ordinance.
- 6. For all facilities and activities identified in response to Question B.6 above, indicate whether such facility or activity was the subject of an administrative order, consent agreement, consent adjudication, consent order, settlement agreement, court order, consent decree, civil penalties, bond forfeiture proceedings, consent decree, conviction, or permit or license suspension or revocation pursuant to the statutes listed in Section A(4). If any of these facilities or activities were subject to any of the actions identified herein, include the date of the action, the location of the violation, the nature of the violation, and disposition. (Attach copies or make available upon request.)

7. Where the applicant is a corporation, list all principals who have also been principals of other corporations which have committed past violations of Act 97.

8. Compliance Outside of Pennsylvania

- a. [Note: For corporate applicants which are publicly traded, are diversified and have done business in Pennsylvania long enough to provide an in-state basis for evaluating compliance history, Item 8 may be answered through the submission of SEC 10K reports for the past five years, a current proxy statement, and any corporate statements or directives which articulate the corporation's policy with regard to compliance with environmental laws in general or solid waste management laws in particular. Any applicant which wishes to make such submission in response to Item 8 questions should ask for further instructions from the Pennsylvania DER office to which the permit or license application is being submitted.]
 - a. Identify any misdemeanor or felony convictions of, or pleas of guilty or *nolo contendere* by, persons or entities listed anywhere in Section B for violations of any state or federal statutes for activities outside of Pennsylvania relating to environmental protection within the past five years. Include convictions and pleas for any acts involving the storage, treatment, transportation, processing or disposal of solid waste. (Describe the date of the convictions and offenses, the location of the offenses, and the nature of the offenses.)

 b. Identify any final administrative orders issued to those persons or entities identified anywhere in Section B within the past five years pursuant to any state or federal statutes for activities outside of Pennsylvania relating to environmental protection. (Describe the date of the order(s), the location of the violation(s), and the nature of the violation(s).) (Attach copies or make available upon request.)

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- c. Identify any court order, court decree, consent decree, consent adjudication, consent order, final civil penalty adjudication, final action on bond forfeiture, or settlement agreement in the past five years between those persons or entities identified anywhere in Section B and any state or federal agencies responsible for environmental protection. (Describe the date of the order, decree, etc., the location of the violation(s), and the nature of the violation(s).) (Attach copies or make available upon request.)
I (we) hereby certify that I(we) have the authority to respond to the above questions on behalf of the applicant, and that the information provided herein is true and correct to the best of my(our)knowledge, information and belief.

	(Signature)
•	Name:
	Title:
	Social Security No.:
Sworn to and subscribed before me this	
day of,	•
19	
Notary Public	
	-
	(Signature)
	Name:
	Title
	Social Security No.:
Sworn to and subscribed before me this	
day of,	
19	
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Notary Public	
	Affix Corporate Seal:

1

(For Corporations, see instructions in A(5) regarding seal and signatures.)

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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF SOLID WASTE MANAGEMENT DIVISION OF HAZARDOUS WASTE MANAGEMENT

APPLICATION NO. (Department Use Only)

CONTRACTUAL CONSENT OF LANDOWNER

(I)(We), the undersigned, hereinafter sometimes referred to as "landowner", being the owner(s) of _ acres of land located in _ (TOWNSHIP BOBOUGH OB CITY) County, Pennsylvania, as described in the deed(s) recorded in the Recorder of Deeds Office at Deed Book(s) and page(s) _____ _____ and shown by crosshatched lines on the map attached hereto which is signed in the original by the landowner upon which _proposes to engage in hazardous waste (HAZARDOUS WASTE MANAGEMENT FACILITY OPERATOR) storage, treatment or disposal activities for which application for permit will be made to the Department of Environmental Resources under the Pennsylvania Solid Waste Management Act, Act of July 7, 1980 (P.L.380,35 P.S.§6018.10 et seq., and of which application this consent will be made a part, DO HEREBY ACKNOWLEDGE THAT THE HAZARDOUS WASTE MANAGEMENT FACILITY OPERATOR AND HIS PERSONNEL HAVE THE RIGHT TO ENTER UPON AND USE THE LAND FOR THE PURPOSES OF CONDUCTING HAZARDOUS WASTE MANAGEMENT ACTIVITIES, Furthermore, (I)(We), the undersigned, do hereby irrevocably grant to the hazardous waste management facility operator and to the Commonwealth of Pennsylvania or any of its authorized agents, or employees, the right to enter upon the aforesaid land before the beginning of the hazardous waste management activities, during the hazardous waste management activities and for a period of 20 years after final closure of the facility, for the purposes of inspection and for the purpose of conducting such pollution abatement or pollution prevention activities required under the Act, the regulations promulgated thereunder and the terms of the permit as the Department deems necessary. (I)(We) do hereby grant in addition to the Commonwealth, for the aforesaid period of time, a right of entry across any adjoining or contiguous lands owned by (us)(me) in order to have access to the land described herein. It is specifically agreed and understood that this contractual consent gives the Commonwealth the right to enter, inspect the premises, and abate or prevent pollution as a matter within the police power but does not obligate the Commonwealth to do so, does not constitute any ownership interest by the Commonwealth in the aforesaid land, and does not affect or limit any rights available to the Commonwealth under applicable law.

THE LANDOWNER ______ TO ALLOW THE ABOVE-NAMED HAZARDOUS WASTE MANAGEMENT FACILITY OPERATOR TO TRANSFER OR ASSIGN, BY WRITTEN AGREEMENT, THIS CON-TRACTUAL CONSENT TO ANOTHER HAZARDOUS WASTE MANAGEMENT FACILITY OPERATOR.

This Consent shall terminate and become null and void if the hazardous waste management facility operator does not apply to the Department of Environmental Resources for a permit to conduct hazardous waste management activities on the aforesaid land within ______ year(s) from the date of this Consent. Nothing in this Consent shall preclude or limit the landowner's authority to terminate the right or privilege of the hazardous waste management facility operator to conduct hazardous waste management activities on the aforesaid land.

In witness whereof and intending to legally bind (myself) (ourselves), (my) (our) heirs, successors and assigns, (I) (we) have hereunto set (my) (our) hand(s) and seal this _____ day of _____, 19 _____.

(SEAL)

LANDOWNER

(Print Name)

By: _____ Signature

(Print Name)

By: _

Signature

(Print Name)

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ACKNOW	LEDGEMENT OF INDIVIDUALS OR PARTNERS
STATE OF	:
	: SS
COUNTY OF	
On	before me the undersigned Notary pe
sonally appeared	E) known to me (or satisfactorily pr
ven) to be the person whose n	AME(S))
ven, to be the person whose h	ane is subscribed to this instrument, and who acknowledged the
(HE,SHE OR THEY)	executed the same and desires it to be recorded.
IN WITNESS WHEREOF, I have h	nereunto set my hand and official seal.
(SEAL)	_ My Commission Expires:
NOTARY PUBLIC	
ACI STATE OF	KNOWLEDGEMENT OF CORPORATIONS
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ACI STATE OF COUNTY OF On	KNOWLEDGEMENT OF CORPORATIONS : : SS , before me, the undersigned Notary, personally appeare , who acknowledged (herself) (himself) to be th , a corporation, ar NAME OF CORPORATION: nuthorized to do so, executed the foregoing instrument on behalf of th this instrument be recorded.
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COMMONWEALTH OF PENNSYLVANIA Department of Environmental Resources

Guidelines for the Development and Implementation of Preparedness, Prevention, and Contingency (PPC) Plans

> Bureau of Solid Waste Management Bureau of Water Quality Management P. O. Box 2063 Harrisburg, PA 17120 March 1981 January 1983 (revised)

Publication No. 1

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INTRODUCTION

A wide variety of industrial activities, both manufacturing and commercial, exist in Pennsylvania. Many of these activities have the potential for causing environmental degradation or endangerment of public health and safety through accidential releases of toxic, hazardous, or other pollutional materials.

In recognition of this fact, several State and Federal regulatory programs have been developed to encourage the use of preventive approaches to deal with unwarranted releases of toxic, hazardous, or other pollutional materials to the the environment.

Table 1 lists these programs and defines the statutory and regulatory basis for each. A more detailed summary of each program is shown in Table 2 which illustrates the similarities among them. A review of the regulations and guidelines pertaining to each program more clearly illustrates these similarities. The main differences between the programs are the types of industrial activities and the nature of the polluting materials addressed.

The Department's objective is to consolidate the similarities of the State and Federal pollution incident prevention and emergency response programs into one overall program. Industrial and commercial installations which have the potential for causing accidental pollution of air, land or water, or the endangerment of public health and safety are required to develop and implement *Preparedness, Prevention, and Contingency (PPC) Plans* which encompass the PIP, SPCC, BMP, and PPC/Contingency Planning program requirements.

TABLE I – STATE AND FEDERAL POLLUTION INCIDENT PREVENTION AND EMERGENCY RESPONSE PROGRAMS

Program	Implemented by	State and Federal Laws Which Apply	State and Federal Implementing Regulations	Effective Date of Regulations
Pollution Incident Prevention (PIP)	Pa. DER as part of its Water Quality Management Program	Pa. Clean Streams Law	25 Pa. Code, Ch. 101	1971
Spill Prevention Control and Countermeasure (SPCC) ¹ (For "hazardous substances" as defined under Section 311 of the Clean Water Act)	Pa. DER and U.S.EPA as part of the NPDES program	Pa. Clean Streams Law Fed'l Clean Water Act	25 Pa. Code, Ch. 101 40 CFR 151	1971 proposed 9/1/78
Best Management Practices (BMP)	Pa. DER and U.S.EPA as part of the NPDES program	Pa. Clean Streams Law Fed'l Clean Water Act	25 Pa. Code, Ch. 101 40 CFR 125, Subpart K	1971 5/19/80
Prepardness, Prevention, and Contingency (PPC), or Contingency Planning	Pa. DER and U.S.EPA as part of the RCRA program	Pa. Solid Waste Management Act	25 Pa. Code Ch. 75	11/19/80
		Fed'l Resources Conservation and Recovery Act	40 CFR 264, Subparts C and D, and 40 CFR 265, Subparts C and D	11/19/80

EPA has also promulgated SPCC regulations (40 CFR 112, 12/11/73) which establish requirements for preventing spills of oil into navigable waters of the U.S. by non-transportation related onshore and offshore facilities. These regulations are implemented and enforced by EPA only. As discussed in Section I of this guidance document, an oil-related SPCC plan developed to comply with EPA's regulations should be considered as *one part* of a facility's overall PPC Plan.

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TABLE 2 — COMPARISON OF STATE AND FEDERAL POLLUTION INCIDENT PREVENTION AND EMERGENCY RESPONSE PROGRAMS

Preparedness,

from the state free second	Aspect	Pollution Incident Prevention (PIP)	Spill Prevention, Control, and Countermeasure (SPCC)	Best Management Practices (BMP)	Prevention, and Contingency (PPC), or Contingency Planning
Annual and a second sec	Purpose	Prevention/control of ac- cidental discharge of pol- luting materials to surface or groundwater	Prevention of accidental discharges of hazardous substances to surface wa- ters	Prevention of accidental discharge of toxic and hazardous materials to sur- face waters	To minimize and abate hazards to human health and the environment from fires, explosions, or release of hazardous wastes to air, soil, or surface water
human harden human	Types of Industrial Activities Affected	All industrial activities having potential for for accidental pollution	Non-transportation related activities subject to the NPDES program, with potential for discharge of of hazardous substances	Industrial activities subject to the NPDES program where significant amounts of toxic or hazardous pollutants are involved	Activities which gen- erate, store, treat, trans- port, or dispose of hazardous wastes
Nuclei Companya San	Activities Covered?	Transportation, storage, processing or raw materials, intermediates, products, fuels, wastes	Production, storage, pro- cessing, refining, handling, transferring, distributing hazardous wastes	Use, manufacture, storage, handling of toxic and haz- ardous materials	Generation, storage, transport, treat- ment, disposal, of hazardous wastes
quelala transferie de la contra de la	What Polluting Materials are Addressed?	All polluting materials	"Hazardous Substances" defined pursuant to Sec. 311 of the Clean Water Act	"Toxic" materials de- fined pursuant to Sec. 307 and "Hazardous Substances defined pursuant to Sec. 311 of the Clean Water Act	"Hazardous Wastes" as defined under fined under Ch. 75 of DER's regulations
Analogo Provinsion Press	Hazards Addressed	Container leaks, reputures, spills, floods, power failures, mechanical failure, human error, strikes, van- dalism, etc.	Same as PIP	Same as PIP	Same as PIP, plus fires and explosions
speechs homeomore income in announcements	Plan Includes	Study of past incidents, training, preventive maintenance, house- keeping, security, backup equipment, internal, external com- municator, spill containment, drainage controls, inspections	Same as PIP	Same as PIP	Same as PIP plus ad- ditional local notification, emergency coordination, and evacuation requirements
www.composition.com	Amendments to Plan Required for Significance Facility or Operational Changes?	Yes	Yes	Yes	Yes
have been	Emergency Incident Report Required?	Yes	Yes	Yes	Yes

1. PROCEDURES FOR DEVELOPMENT AND REVIEW OF PPC PLANS

A. Who Must Develop PPC Plans?

In general, any manufacturing or commercial installation which has the potential for causing accidental pollution of air, land, or water, or for causing endangerment of public health and safety through accidental release to toxic, hazardous, or other polluting materials must develop, maintain, and implement a PPC Plan.

Manufacturing or commercial waste water dischargers, which are required to obtain NPDES permits, must develop PPC plans in order to satisfy the requirements of Chapter 101 of the Department's Rules and Regulations. In addition to NPDES discharges there are a variety of other non-NPDES manufacturing or commercial installations which may be directed by the Department of develop PPC plans on a case by case basis.

Manufacturing or commercial installations which generate hazardous waste, or which involve treatment, storage, or disposal of hazardous waste must develop PPC plans in conformance with Chapter 75 of the Department's regulations. (Note: hazardous waste transporters must also develop PPC plans under Chapter 75. A separate PPC guidance document has been developed for transporters.)

B. How Do Existing Emergency Response Plans Fit in With PPC Planning?

It should be noted that many manufacturing or commercial installations may have already developed a Pollution Incident Prevention (PIP) plan which should encompass most of the PPC considerations. In such cases the PIP plan may only need a slight amount of updating.

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It should further be noted that oil-related Spill Prevention, Control, and Counter-measure (SPCC) plans, which are or have been developed pursuant to EPA's oil-related SPCC regulations, should also be considered as part of aninstallation's overall PPC plan. Some installations may elect to integrate their oil-related SPCC plan with the PPC plan elements, or may elect to keep it as a separate chapter, or appendix, to the PPC plan.

Other types of existing emergency response plans should be handled in a similar manner.

C. Development and Submission of PPC Plans for Review and Approval.

The PPC Plan must be developed in accordance with good engineering practice by someone who is familiar with the day-to-day operations at the site. If an outside consultant is employed for this purpose, he must be authorized to conduct a thorough study of the material storage, handling, usage, and waste management practices conducted at the installation.

Section II below outlines the general content and format of PPC plans.

In general PPC plans should be submitted for review and approval by the Department in conjunction with applications for Water Quality Management or Hazardous Waste Management permits, as follows:

1. NPDES dischargers should submit (2) copies of the PPC plan for review along with the NPDES application materials. If a PIP plan has previously been approved for the installation by the Bureau of Water Quality Management, the PIP should be updated to the extent considered necessary to conform with the PPC guidelines.

Facilities which are not required to obtain NPDES permits, but which must obtain Water Quality Management Part II permits, should submit (2) copies of the PPC plan for review along with the Part II permit application.

Other facilities which are not normally required to obtain NPDES or WQM Part II permits may also be required to develop and submit PPC Plan, should conditions warrant, pursuant to Chapter 101 of the Department's regulations.

- 2. Hazardous waste *generators* are required to develop PPC plans* and to maintain them on site. They are required to submit PPC plans to the Department for review and approval upon request by the Department.
- 3. Hazardous waste *treatment, storage,* or *disposal* facilities should submit one copy of the PPC plan* for *each* copy of the Hazardous Waste Part B permit application being submitted. In these situations the PPC plan is considered as part of the overall Hazardous Waste Part B permit application. Final PPC plan approval will acccompany the issuance of a Hazardous Waste Management permit.

*Note: PPC plans developed by hazardous waste generators and/or treatment/storage/or disposal facilities, which would not otherwise be required to obtain NPDES or Water Quality Management Part II permits, generally need only to address the PPC planning requirements as they pertain to generation, treatment, storage or disposal of hazardous wastes (unless otherwise directed by the Department).

D. Distribution of the PPC Plan

A copy of the PPC Plan and any subsequent revisions must be maintained on-site. All members of the installation's organization for developing, implementing, and maintaining the PPC Plan and all emergency coordinators must review the Plan and be thoroughly familar with provisions.

In addition to the site copy, additional copies of the PPC plan should be made available to local fire, police, medical services, and other local emergency management agencies which may become involved in an actual emergency (see Description of PPC Plan Elements, Part U).

E. Implementation of the PPC Plan

The provisions of the PPC Plan must be carried out whenever emergency situations arise which endanger public health and safety, or the environment.

F. Revisions to the PPC Plan

The PPC Plan must be periodically reviewed and updated, if necessary. As a minimum, this must occur when:

- 1. Applicable Department regulations are revised;
- 2. The Plan fails in an emergency;
- 3. The installation changes in its design, construction, operation, maintenance, or other circumstances, in a manner that materially increases the potential for fires, explosions or releases of toxic or hazardous constituents; or which changes the response necessary in an emergency;
- 4. The list of emergency coordinators changes;
- 5. The list of emergency equipment changes; or
- 6. As otherwise required by the Department.

II. PPC PLAN CONTENT AND FORMAT

General Instructions

- Table 3 outlines the basic elements of a PPC Plan. Each of these elements is further described below. Certain PPC Plan elements may not be entirely applicable or appropriate for a specific manufacturing or commercial installation. In these cases the person preparing the PPC Plan should act accordingly and should provide a brief explanation as to why the Plan element(s) in question is not applicable or inappropriate.
- 2. The most important thing to remember in developing a PPC Plan is that the actual effectiveness of the Plan will depend upon its simplicity and readability.

PPC plans which are composed of several volumes of overly detailed narrative discussions and specifications tend to discourage the reader or user. Diagrams, charts, tables, maps, and plans must be easily readable and understandable, particularly in times of an actual emergency.

The Plan should additionally be indexed or tabbed in such away that the key portions which pertain to emergency response can be quickly referred to.

TABLE 3 — ELEMENTS AND FORMAT OF A PPC PLAN

- A. General description of the industrial or commercial activity
- B. Description of existing emergency response plans
- C. Organizational structure for implementation of the PPC Plan
- D. Material and waste inventory
- E. Spill and leak prevention and response
- F. Material compatibility
- G. Inspection and monitoring program
- H. Preventive maintenance
- I. Housekeeping program
- J. Security
- K. External factors
- L. Internal and external communications and alarm systems
- M. Employee training program
- N. List of emergency coordinators
- O. Duties and responsibilities of the emergency coordinator
- P. Chain of command
- Q. List of agencies to be notified
- R. Emergency equipment
- S. Evacuation plan for installation personnel*
- T. Arrangements with emergency response contractors*
- U. Agreements with local emergency response agencies and hospitals*
- V. Pollution incident history
- W. Implementation schedule

* These elements pertain primarily to installations which store, treat, or dispose of "hazardous waste," although they may also apply to installation handling or using other types of toxic or hazardous materials in quantities which pose a public health risk in times of fire, explosions, or other emergencies.

DESCRIPTION OF PPC PLAN ELEMENTS

A. General Description of the Industrial or Commercial Activity

- Briefly describe the nature of the industrial or commercial activity which occurs at the site. Include
 a general discussion of products manufactured, manufactuing processes used, wastes generated, etc.
- On an $8\frac{1}{2}$ " x 11" portion of a $7\frac{1}{2}$ -minute USGS map show the following:

North indicating arrow

name of the 7½ minute USGS quadrangle

location of the site and site boundaries

location of surface drainage courses leading away from the site, and major surface streams and tributaries near the site

location of any known public and private groundwater supplies in the vicinity of the site, and

location of any known public and private surface water intakes downstream from the site.

- Include drawings (suggested size no larger than 36" x 50") which show the following:
 - general layout of the site
 - property boundaries

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- areas occupied by manufacturing or commercial activities
- raw materials and product storage
- loading and unloading operations
- waste handling, storage, and treatment facilities
- drains, pipes, and channels which lead away from potential leak or spill areas
- outfall pipes which discharge to surface streams or drainage channels
- secure and open-access areas
- entrance and exit routes to the site

B. Description of Existing Emergency Response Plan(s)

- Briefly describe any existing plan which has been previously developed by the installation for the purpose of pollution incident prevention or emergency response preparedness. If the plan has previously been approved by the Department, this should also be noted, along with the date of approval.
- Provide a brief discussion as to how the existing plan relates to the overall PPC Plan being developed. The degree to which the existing plan encompasses some, or all, of the PPC Plan elements should also be noted.

As an example, existing Pollution Incident Prevention (PIP) Plans, which were previously developed to meet the Department's Water Quality Management program requirements may only need to be slightly modified or updated to satisfy the general PPC Plan requirements. A simple description which cross-references the PIP Plan with the various PPC Plan elements will generally suffice in lieu of a detailed rewrite to conform with the suggested PPC Plan format.

Similar plans which have been prepared for agencies other than DER should also be described and cross-referenced to the maximum extent possible to the PPC Plan elements so as to minimize rewriting. For example, an oil-related Spill Prevention Control and Countermeasure (SPCC) Plan which has been developed to comply with EPA's regulations 40 CFR 112, may be treated as an appendix, or as a separate chapter, to the overall PPC Plan for an installation.

C. Organizational Structure for Implementation of the PPC Plan

- Describe the organizational structure for implementation of the PPC Plan.
- Describe the duties and responsibilities of the individuals within the PPC organization.

Each installation must develop a permanent organizational structure for developing, implementing, and maintaining the PPC Plan. The exact nature and make-up of this structure will vary considerably, depending upon the size and complexity of the installation.

For example, a large manufacturing company may either establish a formal PPC committee, or it may assign this responsibility to an existing organization within the company, such as a safety committee or a preventive maintenance group. A small manufacturing or commercial facility may only have one or two individuals responsible for developing and implementing the PPC Plan. However, the PPC organization, regardless of its size, must be given both the responsibility and authority by management for developing, implementing, and maintaining the PPC Plan.

The main duties and responsibilities of the PPC organizational structure should include identification of materials and wastes handled (materials inventory), identification of potential spill sources (risk assessment), establishment of spill-reporting procedures, visual inspection programs, review of past incidents and spills, and countermeasures utilized. In addition, the PPC organizational structure should be responsible for coordination needed to implement the goals of the PPC Plan, coordination of the activities for spill cleanup, notification of authorities, and establishment of training and educational programs for installation personnel.

The PPC organizational structure should have the overall responsibility for periodically reviewing and evaluating the PPC Plan, and instituting appropriate changes at regular intervals. The organizational structure should also be responsible for the review of new construction and process changes at an installation relative to the PPC Plan. The organizational structure should also evaluate the effectiveness of the overall PPC Plan and make recommendations to management on related matters.

D. Material and Waste Inventory

Identify and list by common chemical name and trade name, the locations, sources and quantities
or raw chemical materials, commercial chemical products, manufacturing chemical intermediates,
and process wastes managed at the installation which have the potential for causing environmental
degradation or endangerment of public health and safety through accidental releases. Requests for
confidentiality of this information will be handled in accordance with Department regulations.

Detailed descriptions must be available for materials that have a high potential for spills, discharges, explosions, or fires (such as those stored in bulk storage. Materials that have a low potential for spills, discharges, explosions, or fires (such as those used and stored in small quantities in a laboratory) should be minimally detailed.

This information should be used to evaluate the prevention, containment, mitigation, cleanup, and disposal measures which would be used in the event of a spill, discharge, explosion, or fire. As new materials are added to the list their pollution potential should be evaluated.

• For each of the above listed materials, physical, chemical toxicological, health, and safety information based on available literature (e.g. technical bulletins, safety data sheets, scientific literature) shall be available for use in an emergency. Cite these references in the plan and their location.

E. Spill and Leak Prevention and Response

- Describe the sources and areas where potential spills and leaks may occur, the direction of flow of spilled materials, and the pollution incident prevention measures (see Appendix I) specific to the source or area.
- Provide separate drawings, plot plans (or include in the general layout drawings), showing sources and quantities of materials and wastes, sources and areas where potential spills may occur, and pollution incident prevention measures (see Appendix I).

The PPC Plan should include a prediction of the direction of the flow of materials spilled as a result of equipment failure, accident, or human error. Particular care and attention should be paid to evaluating the following: raw materials storage, in-plant transfer, process and materials handling, intermediary and product storage (if applicable), truck and rail car loading and unloading, and waste handling and storage.

Liquid storage areas must have containment capacity sufficient to hold the volume of the largest single container or tank, plus a reasonable allowance for precipitation based on local weather conditions and plant operations. Containment systems must be sufficiently impervious to contain spilled material or waste until it can be removed or treated. Tank or container materials must be compatible with the material or waste stored.

Pollution incident prevention practices to eliminate contaminated runoff, leaching, or windblowing must be implemented in non-liquid storage areas. Provisions must be made to contain or manage contaminated run-off or leachate from these areas.

Piping, processing, and materials handling equipment at in-plant transfer, process, and materials handling areas must be designed and operated so as to prevent spills. Containment practices should be instituted at processing and handling areas including floor drains, storm sewers, or drainage swales to prevent an accidental discharge. Protection such as covers or shields to prevent windblowing, spraying, and releases from pressure relief values from causing a discharge should be provided as appropriate.

Truck and rail car loading and unloading areas must have sufficient containment capacity to hold the volume of the largest tank truck or rail car loaded or unloaded at the installation, plus a reasonable allowance for precipitation. Containment systems must be sufficiently impervious to contain spilled material or waste until it can be removed or treated.

F. Material Compatibility

• Summarize the engineering practices followed with regard to material compatibility such as materials of construction, corrosion, etc.

Engineering practices with regard to material compatibility normally consist of an appraisement of the compatibility of construction materials of tanks, pipelines, etc., with their contents; the reaction of materials or wastes when intentionally or inadvertently mixed or combined; and, the compatibility of a container such as a storage tank or pipeline with its environment.

Specific consideration should be given to the procedures and practices delineating the mixing of materials and prohibiting mixing of incompatible materials which may result in fire, explosion, or unusual corrosion. Thorough cleaning of storage vessels and equipment before reuse should be standard practice to ensure that there is no residual incompatible with the next or later materials used. Coatings or cathodic protection should be considered for protecting buried pipelines or storage tanks from corrosion.

G. Inspection and Monitoring Program

 Describe the type and frequency of inspections and monitoring for leaks or other conditions that could lead to spills or emergency situations.

Typical inspections include the following: pipes, pumps, values, and fittings for leaks; tanks for corrosion; tanks supports and foundations for deterioration; chemical material piles for windblowing; evidence of spilled materials along drainage ditches; effectiveness of housekeeping practices; damage to shipping containers; leaks, seeps, or overflows at waste treatment, storage, or disposal sites; etc. Areas that should be inspected include the following: storage, loading and unloading, transfer pipelines, waste treatment facilities, and disposal sites.

Routine monitoring should be performed to determine the physical conditions and liquid levels in tanks, the quality of plant site run-off in diked areas, etc., either by manual testing or in situ instrumentation. Monitoring should be used to initiate a warning of the need for immediate corrective action to prevent a spill or other emergency condition. Monitoring systems should be used in conjunction with a communications or alarm system to immediately notify personnel of abnormal conditions.

An inventory system should also be considered for keeping track of those materials having the greatest potential for causing problems due to leaks, spills, or mishandling.

As a minimum, the frequency of inspection and monitoring must be in accordance with the applicable Department regulations and permits. Appendix I includes some additional inspection and monitoring examples.

H. Preventive Maintenance

- Describe the aspects of the preventive maintenance program for equipment and systems relating to conditions that could cause environmental degradation or endangerment of public health and safety.
- Describe the procedures for the correction of those conditions by adjustment, repair, or replacement before the equipment or system fails.

A good preventive maintenance program includes the following: (1) identification of equipment and systems to which the program should apply; (2) periodic inspections of identified equipment and systems; (3) periodic testing of equipment and systems, (such as routine calibration of environmental monitoring equipment); (4) appropriate adjustment, repair, or replacement of parts; and (5) complete recordkeeping of the applicable equipment and systems.

- I. Housekeeping Program
 - Identify the areas and the type of housekeeping practices that should apply to reduce the possibility
 of accidential spills and safety hazards to plant personnel.

Examples of good housekeeping include the following: neat and orderly storage of chemicals; prompt removal of small spillage; regular refuse pickup and disposal; maintenance of dry, clean floors by use of brooms, vacuum cleaners, or cleaning machines; and, provisions for the storage of containers or drums to keep them from protruding into open walkways, pathways, or roads.

Dry chemicals should be swept or cleaned up to prevent possible washdown to drains and drainage ditches or windblowing of the material to other areas of the plant. Small liquid accumulations on the ground or on a floor in a building should be cleaned up to prevent discharge or transport to other areas. See Appendix I for additional examples.

J. Security

 Describe the security procedures employed at the installation to prevent accidental or intentional entry that could result in a violation of Departmental regulations, or injury to persons or livestock.

Security systems described in the PPC Plan should address, as necessary: fencing; lighting; vehicular traffic control; access control; visitors' passes; locked entrances; locks on drain valves and television monitoring. Security procedures must be in accordance with applicable Department regulations.

K. External Factors

• Describe the possible effects of power outages, strikes, floods, snowstorms, etc., and the action to be taken to alleviate any resulting effects to public health and safety or the environment.

L. Internal and External Communications or Alarm Systems

- Describe the internal communications or alarm used to provide immediate emergency instruction (voice or signal) to installation personnel.
- Describe the external communications or alarm system used to summon emergency assistance from local police or fire departments.

Examples of communications or alarms systems are: hand-held two-way radios; CB radios; telephones; fire or police alarms; PA systems; beeper or voice pagers; etc. This requirement must be in accordance with applicable Department regulations.

M. Employee Training Program

 Summarize the training program given to employees which will enable them to understand the processes and materials with which they are working, the safety and health hazards, the practices for preventing, and the procedures for responding properly and rapidly to spills.

At a minimum, the training program must be designed to ensure that personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment systems including, where applicable: procedures for using, inspecting, repairing, and replacing emergency and monitoring equipment; key parameters for automatic cut-off systems; communications and alarms systems; response to fires and explosions; site evacuation procedures; and, shutdown of operations.

In addition, the employee training program should address other aspects of the PPC program, such as preventive maintenance, inspection and monitoring, housekeeping practices, etc. The training program must be designed and conducted in accordance with applicable Department regulations.

N. List of Emergency Coordinators

 Provide an up-to-date list of names, and addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator. Where more than one is listed, one must be named as the primary coordinator and others shall be listed in the order in which they will assume responsibility as alternates.

At all times, there must be at least one employee either on the installation's premises or on-call with the responsibility for coordinating all emergency response measures. The emergency coordinator must be thoroughly familiar with all aspects of the Preparedness, Prevention, and Contingency Plan, all operations and activities, the location and characteristics of all materials handled, the location of all records, and the lay-out of the installation. In addition this individual should have the authority to commit the resources necessary to carry out the PPC Plan.

O. Duties and Responsibilities of the Emergency Coordinator

• Describe the duties and responsibilities of the emergency coordinator specific to your installation or activity in the event of an imminent or actual emergency.

During an emergency, the emergency coordinator should activate alarm systems, notify emergency response agencies, identify the problem, assess the health or environmental hazards, and take all reasonable measures to stabilize the situation. The emergency coordinator should also be responsible for follow-up activities after the incident such as treating, storing, or disposing of residues and contaminated soil, decontamination and maintenance of emergency equipment, and submission of any reports. Appendix II describes some example duties and responsibilities of the emergency coordinator.

P. Chain of Command

• Provide an internal list, by position, of key employees that must be contacted in the event of an emergency or spill.

List the positions, office telephone extensions, and home phone numbers (if applicable) of key employees, in the order of responsibility, that would be contacted in the event of an emergency or spill.

This list, along with the notification procedure, should be posted on bulletin boards or other conspicuous locations around the installation.

Q. List of Agencies to be Notified

• Provide a list of agencies and phone numbers that must be contacted in the event of an emergency or spill.

A list must be developed for notifying State, local, and Federal regulatory agencies of all spills. Such a list should include, as applicable: PA DER; PA Emergency Management Agency; County Health Department; PA Fish Commission; the National Response Center (U.S. EPA and U.S. Coast Guard); local police and fire departments; the local sewage treatment plant(for discharges to sewer system); and downstream public water supplies, industrial water users, and recreation areas.

R. Emergency Equipment

- Provide an up-to-date list of available emergency equipment. The list must include the location, a physical description, and a brief description of the intended use and capabilities of each item on the list.
- Describe the procedures for maintenance and decontamination of emergency equipment.

All installations should have equipment available to allow personnel to respond safely and quickly to emergency situations. Some examples of emergency equipment are portable fire extinguishers, fire control equipment (including special extinguishing equipment, such as that using foam, inert gas, or dry chemicals), spill control equipment, decontamination equipment, self-contained breathing apparatus, gas masks, and emergency tool and patching kits. See Appendix III for more examples.

All equipment must be tested and maintained as necessary to assure its proper operation in time of emergency. After an emergency, all equipment must be decontaminated, cleaned, and fit for its intended use before normal operations resume.

S. Evacuation Plan for Installation Personnel

• Describe the evacuation plan for installation personnel where there is a possibility that evacuation could be necessary.

The PPC Plan must describe signals to be used to begin evacuation, primary evacuation route, and alternate evacuation routes (in cases where primary routes could be blocked by releases of hazardous materials, wastes, gases, or fires), Periodic drills should be conducted to evaluate the effectiveness of the plan.

T. Arrangements with Emergency Response Contractors

• Provide a list of emergency response contractors, phone numbers, and the services they will provide.

The services of nearby contractors should be investigated and arrangements made for the prompt performance of contractual services on short notice. Equipment suppliers should be contacted to determine the availability and means of delivery of equipment needed for removing pollution or hazards to the public health and safety.

U. Arrangements with Local Emergency Response Agencies and Hospitals

• Provide a list of local emergency response agencies, and hospitals. Include the phone numbers and describe arrangements concerning the emergency services they will provide.

Arrangements must be made, as appropriate, to inform a local emergency response agencies, and hospitals concerning the type of materials or wastes handled at the installation and the potential need for services. Arrangements should be made which will designate who will be the primary emergency response agency and who will provide support services during emergencies.

Efforts should be made to familiarize police, fire departments, emergency response teams, and the County Emergency Management Coordinator with the layout of the installation, the properties and dangers associated with the hazardous materials handled, places where personnel would normally be working, entrances to roads inside the facility, and the possible evacuation routes. As minimum, this requirement must be in accordance with applicable Department regulations.

V. Pollution Incident History.

• List the previous pollution incidents, the date, the material or waste spilled, approximate amount spilled, environmental damage, and action taken to prevent a recurrence.

An important criteria in determining the effectiveness of the PPC Plan program is the history of incidents at the installation. A history of no incidents suggest that the practices and procedures at the site are effective. For a site with a history of incidents it is important to investigate the reasons for the spills and the response of the company in minimizing the potential for their recurrence.

W. Implementaion Schedule

 Provide a list of any missing or incomplete aspects of the PPC Plan and a time schedule when they will be implemented.

An implementation schedule of any elements of the PPC Plan not currently in place must be developed. Each missing or incomplete aspect of the plan should be addressed and discussed within the applicable elements of the plan. Missing or incomplete aspects must be implemented as soon as possible and in conformance with all Department regulations and requirements.

9

APPENDIX I

POLLUTION INCIDENT PREVENTION PRACTICES

Pollution incident prevention practices can be divided into the following four categories: prevention, containment, mitigation and ultimate disposition. The listings below provide specific examples of each category.

1. **PREVENTION**

Visual Observations of:

Storage facilities Transfer pipelines Loading and unloading areas Waste handling and storage areas

Detailed Inspections of:

Pipes, pumps, valves, and fittings for leaks Tanks for corrosion (internal and external) Dry material or waste stockpiles for windblowing Tanks supports or foundations for deterioration Walls for stains Drainage ditches and areas around old tanks for evidence of spilled materials Primary or secondary containment for deterioration Housekeeping practices Shipping containers for damage Material or waste conveyance systems for leaks, spills, or overflows Integrity of stormwater collection systems Waste storage, treatment, or disposal sites for leaks, seeps, and overflows

Monitoring

Liquid-level detectors Alarm systems Pressure and temperature gauges Analytical testing instrumentation Pressure drop shut-off devices Flow meters Valve positioning indicators Equipment operational lights Excess-flow valves Automatic runoff diversion devices Routine sample collection Redundant instrumentation

Nondestructive Testing

Hydrostatic pressure tests Acoustical emission tests Records of tank wall thicknesses

Labeling

U.S. DOT or National Fire Protection Association's (NFPA) designation on tanks and pipelines Color coding of tanks and pipelines Warning signs

Vehicle Positioning

Physical barriers (e.g., wheel chocks) Underlying drains Designated loading and unloading areas

Covering

Tarpaulins over outdoor dry waste or material stockpiles Buildings or roofs over outside processes or stockpiles Vegetation, rock, or synthetic covering on surface impoundments

Pneumatic and Vacuum Conveying

Loading and unloading by air pressure or vacuum Safety relief valves Dust collectors Air slide trucks and rail cars

Preventive Maintenance

Identification of equipment and systems Periodic inspections Periodic testing Appropriate adjustment, repair, or replacement of parts Complete recordkeeping

Good Housekeeping

Neat and orderly storage of chemicals Prompt removal of small spillage Regular garbage pickup and disposal Maintenance of dry, clean floors by use of brooms, vacuum cleaners, etc. Maintenance of proper spacing for pathways and walkways between containers and drums Stimulation of employee interest in good housekeeping

Employee Training Programs

Materials Inventory Systems

2. CONTAINMENT

Secondary Containment

Dikes Curbs Depressed areas Storage basins Sumps Drip pans Liners Double piping Sewer collection systems

Flow Diversion

Trenches Drains Graded pavement Grating Overflow structures Sewers Culverts

Vapor Control

Water spray Vapor space Vacuum exhaust

Dust Control

Hoods Cyclone collectors Bag-type collectors Filters Negative-pressure systems Water spraying

Sealing

Foamed plastic compounds used for plugging leaks in tanks

3. MITIGATION

Physical Clean-up

Brooms Shovels Plows

Mechanical Clean-up

Vacuum systems Pumps Pump/bag system

Chemical Clean-up

Sorbents

activated carbon polyurethane and polyolefin sphères, beads, and foam belts amorphous silicate glass foam clay sawdust

Gelling agents

polyelectrolytes polyacrylamide butylstyrene copolmyers polyacrylonitrile polyethylene oxide

Foams

rockwood alcohol protein fluoroprotein aqueous film-forming foam polar liquid foam surfactant-based foam

Volatilization

- distillation stripping evaporation
- Carbon absorption Coagulation/precipitation Neutralization Ion exchange Chemical oxidation Biological treatment

4. ULTIMATE DISPOSITION

Thermal oxidation Land disposal Recycle Recover Reuse Detoxification

APPENDIX II EXAMPLES OF AN EMERGENCY COORDINATOR'S DUTIES AND RESPONSIBILITIES

Whenever there is an imminent or actual emergency situation, the emergency coordinator must immediately:

- 1. Activate facility alarms or communications systems, where applicable, to notify facility personnel; and
- 2. Notify local emergency response agencies including the Department.

Whenever there is an emission or discharge, fire, or explosion, the emergency coordinator must immediately identify the character, exact source, amount, and areal extent of emitted or discharged materials. He may do this by observation of review of records and, if necessary, by chemical analysis.

Concurrently, the emergency coordinator must assess possible hazards to human health or the environment that may result from the emission or discharge, fire, or explosion. This assessment must consider both direct and indirect effects of the emission, discharge, fire, or explosion.

If the emergency coordinator must assess possible hazards to human health or the environment that may result from the emission or discharge, fire, or explosion. This assessment must consider both direct and indirect effects of the emission, discharge, fire, or explosion.

If the emergency coordinator determines that the installation has had an emission, discharge, fire, or explosion which would threaten human health or the environment, he must *immediately* notify the applicable local authorities and indicate if evacuation of local areas may be advisable; and, *immediately* notify the Department by telephone at 717-787-4343 and the National Response Center at 800-424-8802 and report the following:

- 1. Name of the person reporting the incident
- 2. Name and location of the installation
- 3. Phone number where the person reporting the spill can be reached
- 4. Date, time, and location of the incident
- 5. A brief description of the incident, nature of the materials or wastes involved, extent of any injuries, and possible hazards to human health or the environment
- 6. The estimated quantity of the materials or wastes spilled, and
- 7. The extent of contamination of land, water, or air, if known.

During an emergency, the emergency coordinator must take all reasonable measures necessary to ensure that fire, explosion, emission, or discharge do no occur, reoccur, or spread to other materials or wastes at the installation. These measures shall include, where applicable, stopping manufacturing processes and operations, collecting and containing released materials or wastes, and removing or isolating containers.

If the installation stops operations in response to a fire, explosion, emission, or discharge, the emergency coordinator must ensure that adequate monitoring is conducted for leaks, pressure buildup, gas generation, or ruptures in valves, pipes, or other equipment, wherever this is appropriate.

Immediately after an emergency, the emergency coordinator with Departmental approval must provide for treating, storing, or disposing of residues, contaminated soil, etc., from an emission, discharge, fire, or explosion at the installation.

The emergency coordinator must insure, that in the affected areas of the installation, no material or waste incompatible with the emitted or discharged residues is processed, stored, treated, or disposed of until cleanup procedures are completed; and, all emergency equipment listed in the PPC Plan is cleaned and fit for its intended use before operations are resumed.

Within 15 days after the incident, the installation must submit a written report on the incident to the Department. The report must include the following:

- 1. Name, address, and telephone number of the individual filing the report
- 2. Name, address, and telephone of the installation.
- 3. Date, time, and location of the incident
- 4. A brief description of the circumstances causing the incident
- 5. Description and estimated quantity by weight or volume of materials or wastes involved
- 6. An assessment of any contamination of land, water, or air that has occurred due to the incident
- 7. Estimated quantity and disposition of recovered materials or wastes that resulted from the incident, and
- 8. A description of what actions the installation intends to take to prevent a similar occurrence in the future.

APPENDIX III EXAMPLES OF EMERGENCY EQUIPMENT

Special equipment is often required and may be needed quickly in an emergency. Examples include the following:

Aerial ladder Absorbant materials Accident investigation kit Air compressor Air supply, for breathing equipment Backhoe Basket stretchers Bulldozer Bullhorn Camera/photo equipment Cellar pump Chain hoist Chain saw Chemical neutralizers Crane Cutters (power) Decontamination equipment with a clean water supply (70-80°F). Ejector - smoke Elevated platform truck **Explosimeters** Fans Firefighting equipment First aid supplies Foam concentrate supply Foam generators Forklift

Fuel Supply Geiger counter Generator trailer Heaters, portable Helicopter Hydraulic spreader jacks Inhalator Jack hammer Jacks Ladder Truck Lighting equipment, portable Medical supplies Metal saw (power) Public address system Radio Resuscitator Sand supply Self-contained breathing apparatus (SCBA) Self-contained underwater breathing apparatus (SCUBA) Submersible pump Tank truck Tool box Welding/cutting equipment Water pump

THE HAZARDOUS WASTE PERMIT PROCESS





COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL RESOURCES

PERMIT

FOR HAZARDOUS WASTE STORAGE, TREATMENT AND DISPOSAL

Permittee:

Permit Number:

Facility: _

The Permittee must comply with all terms and conditions of this permit. This permit consists of the conditions contained herein (Parts I - _____, consisting of pages 1 through ____ and Attachments 1 through ____) and the applicable regulations contained in 25 Pa. Code Chapter 75 as specified in the permit.

This permit is based on the assumption that the information submitted in the permit application attached to the Permittee's letter dated _______as modified by subsequent amendments dated ______

(hereafter referred to as the application) is accurate and that the facility will be constructed and/or operated as specified in the application. Any inaccuracies found in this information may be grounds for the revocation or modification of this permit [see 25 Pa. Code §§75.278, 75.279, and 75.280] and potential enforcement action. The Permittee must inform DER of any deviation from or changes in the information in the application which would affect the Permittee's ability to comply with the applicable regulations or permit conditions.

This permit is conditioned upon full compliance with all applicable provisions of the Act; DER regulations contained in 25 Pa. Code Chapter 75; the Clean Streams Law, 35 P.S. §691.1 <u>et seq</u>.; the Air Pollution Control Act, 35 P.S. §4001 <u>et seq</u>.; the Dam Safety and Encroachments Act, 32 P.S. §693.1 <u>et seq</u>.; the Surface Mining Conservation and Reclamation Act, 52 P.S. §1396.1 <u>et seq</u>.; the Coal Refuse Disposal Control Act, 52 P.S. §30.51 <u>et seq</u>.; all other Pennsylvania statutes related to the protection of the environment; and all Pennsylvania statutes related to the protection of public health, safety, and welfare.

This permit is effective as of ______, and shall remain in effect until ______, unless revoked and reissued, or revoked in accordance with 25 Pa. Code §§75.278, 75.279 and 75.280, or continued.

PART I - STANDARD CONDITIONS

A. EFFECT OF PERMIT*

This permit authorizes only the management of hazardous waste expressly described in this permit and does not authorize any other management of hazardous waste. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local laws or regulations. Compliance with the terms of this permit does not constitute a defense to any action brought under the Act or any other law governing protection of public health or the environment.

B. PERMIT ACTIONS*

This permit may be modified, revoked and reissued, revoked for cause as specified in 25 Pa. Code §§75.278, 75.279, and 75.280 or suspended in accordance with the Act. The filing of a request for a permit modification, revocation and reissuance, or revocation or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay or supersede the applicability or enforceability of any permit condition. permit condition.

C. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held to be invalid, the application of such provision to other circumstances and the remaining provisions of this permit shall not be affected thereby.

D. DEFINITIONS

For the purpose of this permit, terms used herein shall have the same meaning as those in Title 25 of the Pennsylvania Code (25 Pa. Code Chapter 75), unless this permit specifically states otherwise; where terms are not otherwise defined, the meaning associated with such terms shall be as defined by a standard dictionary reference or the generally accepted scientific or industrial meaning of the term. "The Department" is the Department of Environmental Resources of the Commonwealth of Pennsylvania.

E. REPORTS, NOTIFICATIONS AND SUBMISSIONS TO THE DEPARTMENT

All reports, notifications or other submissions which are required by this permit to be sent or given to the Department should be sent certified mail or given to:

F. SIGNATORY REQUIREMENTS*

All reports or other information requested by the Department shall be signed and certified as required by 25 Pa. Code §75.265(z)(13).

G. DOCUMENTS TO BE MAINTAINED AT THE FACILITY SITE

The Permittee shall maintain at the facility, until closure is completed and certified by an independent registered professional engineer, the following documents and amendments, revisions and modifications to these documents:

- Waste analysis plan required by 25 Pa. Code \$75.264(c)(3) and this permit.
- Personnel training documents and records required by 25 Pa. Code §75.264(f)(6) and this permit.

- Contingency plan required by 25 Pa. Code \$75.264(i)(9)(i) and this permit.
- 4. Closure [and post-closure] plan(s) required by 25 Pa. Code
 §75.264(o)(3) and §75.264(o)(16) and this permit.
- 5. Annually-adjusted cost estimate(s) for facility closure [and postclosure] required by 25 Pa. Code \$75.319 and this permit.*
- Operating record required by 25 Pa. Code §75.264(k) and Part II, Section H.1 of this permit.
- 7. Inspection schedules and logs required by 25 Pa. Code \$75.264(e)(2)(i) and this permit.
- Bocuments required by Part I, Sections _____, and Part II, Sections _____, of this permit.

H. DUTIES AND REQUIREMENTS*

 <u>Duty to Comply</u>. The Permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and the regulations promulgated thereunder and is grounds for enforcement action; for permit revocation, revocation and reissuance, or modification; or for denial of a permit renewal application.

- 2. <u>Duty to Reapply</u>. If the Permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the Permittee must submit a complete application for a new permit at least 180 days before this permit expires.
- 3. <u>Permit Expiration</u>. This permit and all conditions therein will remain in effect beyond the permit's expiration date if the Permittee has submitted a timely, complete application and through no fault of the Permittee, the Department has not issued a new permit.
- 4. <u>Need to Halt or Reduce Activity Not a Defense</u>. It shall not be a defense for the Permittee in an enforcement action to argue that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- 5. <u>Duty to Mitigate</u>. In the event of noncompliance with the Act, the regulations, or this permit, the Permittee shall take all necessary steps to prevent and abate any releases to the environment, and shall carry out such measures as are necessary to prevent significant adverse impacts on human health or the environment.
- 6. <u>Proper Operation and Maintenance</u>. The Pemittee shall at all times properly operate and maintain all facilities and systems of storage, treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the Act, the regu-

lations, and the conditions of this permit. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. The Permittee shall operate back-up or auxiliary facilities or similar systems if necessary to achieve compliance with the Act, the regulations and the conditions of the permit.

- 7. <u>Duty to Provide Information</u>. The Permittee shall furnish to the Department within a reasonable time, any relevant information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or revoking this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Department, upon request, copies of records required to be kept by the Permittee pursuant to the Act, the regulations, or any permit condition.
- 8. <u>Inspection and Entry</u>. The Permittee shall allow the Department, its agents and authorized representatives, upon the presentation of credentials and other documents as may be required by law, or without advance notice or a search warrant to:
 - a. Enter at reasonable times upon the Permittee's premises where a regulated facility or activity is located or conducted, or where
and a second second

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records concerning the regulated facility or activity are kept;

- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the Act, the regulations, or this permit;
- d. Sample or monitor any substances or parameters at any location for the purposes of assuring permit compliance or as otherwise authorized by the Act or the regulations; and
- e. Engage in any other activities necessary or appropriate to the documentation of events or conditions at any locations.

9. Monitoring and Records.

a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative sample of the waste to be analyzed must be the appropriate method from Appendix I of 25 Pa. Code \$75.261 or an equivalent method approved by the Department. Laboratory methods must be those specified in Appendix III of 25 Pa. Code \$75.261; <u>Test Methods for Evaluating Solid Waste: Physical/Chemical</u> <u>Methods</u> (U.S. EPA Document SW-846, July 1982; 2nd ed.); <u>Standard</u> <u>Methods of Waste Water Analysis</u> (U.S. EPA; 15th ed.; 1980); or an equivalent method approved by the Department and as specified in the attached waste analysis plan.

- b. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports and records required by the Act, the regulations, or this permit, and all records of all data used to complete the application for this permit for a period of at least 3 years from the date of the sample, measurement, report or record, or application. These periods may be extended by request of the Department at any time and are automatically extended during the course of any unresolved enforcement action regarding this facility.
- c. The Permittee shall maintain records of all groundwater quality and groundwater surface elevations for the active life of the facility and during the post-closure care period as well.
- d. The Permittee shall, at a minimum, keep monitoring records which include the following information:

(1) The dates, exact place, and times of sampling or measurements;

(2) The individuals who performed the sampling or measurements;

(3) The dates analyses were performed;

(4) The individuals who performed the analyses;

(5) The analytical techniques or methods used;

(6) The results of such analyses; and

- (7) [Insert here other sampling, measurement, or analysis conditions, if required.]
- 10. <u>Reporting Planned Changes</u>. The Permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. This notice must include a description of all incidents of noncompliance reasonably expected to result from the proposed changes. The Permittee shall not modify the facility without first obtaining a permit from the Department.
- 11. Anticipated Noncompliance. The Permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

- <u>Transfer of Permits</u>. This permit shall not be transferred or assigned to any other person or municipality.
- 13. <u>Twenty-Four Hour Reporting</u>. The Permittee shall report to the Department any noncompliance with the Act, the regulations or any condition of this permit or any occurrence or event at the facility which may endanger health or the environment.
 - a. Information shall be provided orally within twenty-four (24) hours from the time the Permittee becomes aware of the circumstances. This report shall include the following:
 - (1) Information concerning release or potential release of any hazardous waste from the facility that may endanger public drinking water supply sources.
 - (2) Any information of a release, potential release, or discharge of hazardous waste from the facility, or information of a potential or actual fire or explosion at the facility, which may threaten the environment or human health.

b. The description of the occurrence and its cause shall include:

(1) Name, address, and telephone number of the owner or operator;

(2) Name, address, and telephone number of the facility;

(3) Date, time, and type of incident;

(4) Name and quantity of material(s) involved;

(5) The extent of injuries, if any;

- (6) An assessment of actual or potential hazards to the environment and human health at or near the facility; and
- (7) Estimated quantity and disposition of recovered material that resulted from the incident.
- c. A written submission shall also be provided to the Department within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance (including exact dates and times); if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The Permittee need not comply with the five (5) day written notice requirement if the Department extends it to fifteen (15) days.

- 14. Other Noncompliance. The Permittee shall report to the Department all other instances of noncompliance not otherwise required to be reported above, at the time monitoring reports are submitted. The reports shall contain the information listed in permit condition I.H.13.
- 15. Other Information. Whenever the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Department, or whenever the Permittee becomes aware of circumstances which require a modification or clarification of any fact or representation made to the Department in connection with a permit application, it shall promptly submit such facts or information to the Department.

[OPTIONS]

[For New Facilities]

DOCUMENTS TO BE SUBMITTED PRIOR TO OPERATION*

The Permittee shall submit the following documents to the Department for written approval prior to commencing operation of the facility. [Specify documents, such as Form 6, as-built plans, waste analyses, etc.]

[For Facilities Requiring Compliance Schedules]

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COMPLIANCE SCHEDULE REPORTING*

The Permittee shall submit written reports of compliance or noncompliance with interim and final requirements contained in any compliance schedule of this permit to the Department no later than fourteen (14) days following each schedule date.

[For New or Modified Facilities]

CERTIFICATION OF CONSTRUCTION OR MODIFICATION*

The Permittee may not manage hazardous waste at the facility until:

- The Permittee has submitted to the Department by certified mail or hand delivery a letter signed by the Permittee and a registered professional engineer stating that the facility has been constructed or modified in compliance with the permit; and
- 2a. The Department has inspected the modified or newly constructed facility and finds it is in compliance with the conditions of the permit; or

2b. The Department has either waived the inspection or has not within

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fifteen (15) days notified the Permittee of its intent to inspect.

PART II - GENERAL FACILITY CONDITIONS

A. DESIGN AND OPERATION OF FACILITY

The Permittee shall maintain and operate the facility to minimize the possibility of a fire, explosion, or release of hazardous waste or hazardous waste constituents to air, soil, surface water, or groundwater which could threaten human health or the environment.

B. GENERAL WASTE ANALYSIS

The Permittee shall follow the procedures described in the attached waste analysis plan, Attachment 1. The Permittee shall verify its waste analysis as part of its quality assurance program, in accordance with current EPA practices (Test Methods for Evaluating Solid Waste: Physical/Chemical <u>Methods</u> SW-846, July 1982; 2nd ed.) or equivalent methods approved by the Department in accordance with procedures in 25 Pa. Code §75.260(c); and at a minimum maintain proper functional instruments, use approved sampling and analytical methods, verify the validity of sampling and analytical procedures, and perform correct calculations. [The attached waste analysis plan must cover the requirements of 25 Pa. Code \$75.264(c) and any additional requirements specific to the hazardous waste units covered by the permit.]

C. SECURITY

The Permittee shall comply with the security provisions of 25 Pa. Code \$75.264(d)(2) and (3).

[This permit condition should be deleted if the owner/operator submits a waiver request and the request is granted. The administrative record should include documentation of the basis for granting the waiver request.]

D. GENERAL INSPECTION REQUIREMENTS

The Permittee shall follow the inspection plan set out in the inspection schedule, Attachment 2. The Permittee shall remedy any deterioration or malfunction discovered by an inspection as required by 25 Pa. Code §75.264(e)(4). Records of inspections shall be kept as required by 25 Pa. Code §75.264(e)(5).

[The attached inspection schedule must include both the general inspec-

E. PERSONNEL TRAINING

The Permittee shall conduct personnel training as required by 25 Pa. Code §75.264(f). This training program shall follow the attached outline, Attachment 3. The Permittee shall maintain training documents and records as required by 25 Pa. Code §75.264(f)(6) and (7).

- F. PREPAREDNESS AND PREVENTION
 - <u>Required Equipment</u>. At a minimum, the Permittee shall equip the facility with the equipment set forth in the PPC plan, Attachment 4, as required by 25 Pa. Code §75.264(h)(2).
 - 2. <u>Testing and Maintenance of Equipment</u>. The Permittee shall test and maintain the equipment specified in the previous permit condition and in Attachment 4 as necessary to assure its proper operation in time of emergency.

[The inspection schedule must include periodic inspections and/or testing of the equipment.]

- Access to Communications or Alarm System. The Permittee shall maintain access to the communications or alarm system as required by 25 Pa. Code §75.264(h)(4) and (5).
- 4. <u>Required Aisle Space</u>. At a minimum, the Permittee shall maintain aisle space as required by 25 Pa. Code §75.264(h)(6) and as shown on the plans and specifications, Attachment 5.
- 5. <u>Arrangements with Local Authorities</u>. The Permittee shall maintain arrangements with State and local authorities as required by 25 Pa. Code §75.264(h)(7). If State or local officials refuse to enter into

or renew existing preparedness and prevention arrangements with the Permittee, the Permittee must document this refusal in the operating record.

G. PREPAREDNESS, PREVENTION AND CONTINGENCY (PPC) PLAN

Inplementation of PPC Plan. The Permittee shall immediately carry out the provisions of the PPC plan, Attachment 4, and follow the emergency procedures described by 25 Pa. Code §75.264(i)(12)-(21) whenever there is a fire, explosion, emission or discharge of hazardous waste or hazardous waste constituents which could threaten human health or the environment.

- <u>Copies of Plan</u>. The Permittee shall comply with the requirements of 25
 Pa. Code §75.264(i)(9).
- 3. <u>Amendments to Plan</u>. The Permittee shall review and immediately amend, if necessary, the PPC plan, as required by 25 Pa. Code \$75.264(i)(10).
- 4. <u>Emergency Coordinator</u>. The Permittee shall comply with the requirements of 25 Pa. Code §75.264(i)(11).
- 5. <u>Emergency Procedures</u>. The Permittee shall comply with the requirements of 25 Pa. Code §75.264(i)(12)-(21).

[The PPC plan must include, when applicable, evaluation and repair plans for tanks, waste piles, and surface impoundments.]

H. RECORDKEEPING AND REPORTING

- <u>Operating Record</u>. The Permittee shall maintain a written operating record at the facility in accordance with 25 Pa. Code \$75.264(k)(1) and (2).
- Quarterly Facility Report. The Permittee shall comply with all applicable quarterly facility report requirements of 25 Pa. Code \$75.264(m)(1).

[This condition should be used for off-site treatment and disposal facilities.]

3. <u>Annual Report</u>.* The Permittee shall comply with all applicable annual report requirements of 25 Pa. Code §75.264(m)(3).

[This condition should be used for storage facilities and for captive treatment and disposal facilities.]

4. <u>Required Reports</u>. The Permittee shall comply with all applicable reporting requirements as described in Part I, Sections _____, and Part II, Sections _____ of this permit.

I. CLOSURE

[The attached closure plan must cover the general closure requirements of 25 Pa. Code \$75.264(o) and specific closure requirements for the hazardous waste units covered by the permit.]

 Performance Standard. The Permittee shall close the facility as required by 25 Pa. Code §75.264(o)(2) and in accordance with the closure plan, Attachment 6.

- Amendment to Closure Plan. The Permittee shall amend the closure plan in accordance with 25 Pa. Code \$75.264(o)(4) whenever necessary.
- 3. <u>Notification of Closure</u>. The Permittee shall notify the Department in writing at least 180 days prior to the date he expects the final volume of waste.
- 4. <u>Time Allowed for Closure</u>. After receiving the final volume of hazardous waste, the Permittee shall remove from the site all hazardous waste and shall complete closure activities in accordance with the schedules specified in the closure plan, Attachment 6.

[If the facility is a disposal facility, insert "or dispose of on-site" after "remove from the site".]

- 5. <u>Disposal or Decontamination of Equipment</u>. The Permittee shall decontaminate and/or dispose of all facility equipment and structures as required by 25 Pa. Code \$75.264(o)(8) and the closure plan, Attachment 6.
- 6. <u>Certification of Closure</u>. The Permittee shall certify that the facility has been closed in accordance with the specifications in the closure plan as required by 25 Pa. Code §75.264(o)(9).
- J. COST ESTIMATE FOR FACILITY CLOSURE [AND POST-CLOSURE CARE]*
 - 1. Annual Adjustment. The Permittee shall adjust the closure [and post-

closure] cost estimate for inflation within 30 days after each anniversary of the date on which the first cost estimate was made as required by 25 Pa. Code §75.319(b).

2. <u>Adjustment for Changed Conditions</u>. The Permittee shall revise the cost estimate whenever there is a change in the facility's closure plan or in the measures necessary to prevent adverse effects upon the environment as required by 25 Pa. Code §75.319(c).

K. BONDING REQUIREMENT*

The Permittee shall maintain the [surety bond, collateral bond, phased deposit of collateral bond] submitted to and approved by the Department as required by 25 Pa. Code §75.321. The Permittee shall comply with all applicable bond replacement requirements of 25 Pa. Code §75.316.

L. LIABILITY INSURANCE*

The Permittee shall comply with the liability insurance requirements of 25 Pa. Code §75.332 and the documentation requirements of 25 Pa. Code §75.333, and **334**. These include the requirements to have and maintain liability coverage for sudden pollutional occurrences in the amount of at least \$2 million per occurrence with an annual aggregate of at least \$4 million, exclusive of legal defense costs, and for non sudden pollutional occurrences in the

amount of at least \$4 million per occurrence with an annual aggregate of at least \$8 million, exclusive of legal defense costs. The Permittee shall submit new certificates of liability insurance 60 days prior to the expiration of the current certificate.

[If a determination is made pursuant to 25 Pa. Code §75.332 that a larger amount of insurance is required, the permit writer should specify the larger amount in this permit condition.]

[OPTIONS]

[For Off-Site Facilities]

REQUIRED NOTICES

- <u>Notice to The Department</u>.* The Permittee shall notify the Department in writing at least four (4) weeks in advance of the date the Permittee expects to receive hazardous waste from a foreign source. Notice of subsequent shipments of the same waste from the same foreign source is not required.
- 2. <u>Notice to Generator</u>. When the Permittee plans to receive hazardous waste from an off-site source (except where the Permittee is also the generator), he must inform the generator in writing that he has the appropriate permits for, and will accept, the waste the generator is

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shipping. The Permittee must keep a copy of this written notice as part of the operating record. (See permit condition II.H.l).

[For Ignitable, Reactive or Incompatible Wastes] GENERAL REQUIREMENTS FOR IGNITABLE, REACTIVE, OR INCOMPATIBLE WASTE

The Permittee shall comply with the requirements of 25 Pa. Code §75.264(g). [Conditions specific to the hazardous waste units covered by the permit are specified in the appropriate modules. For example, requirements for ignitable wastes stored in the containers are specified in Module III.]

[For Off-Site Facilities]

MANIFEST SYSTEM

The Permittee shall comply with the manifest requirements of 25 Pa. Code \$75.264(j).

[For Disposal Facilities]

POST-CLOSURE

1. <u>Monitoring and Maintenance</u>. The Permittee shall monitor and maintain the facility as required by 25 Pa. Code §75.264(o)(15) and (16) and [(s)(3)(xxx)(E)*,(u)(25)*,(v)(3)(xxvi)(F) and (G)*] and in accordance with the post-closure plan, Attachment____.

 <u>Amendment to Post-Closure Plan</u>. The Permittee shall amend the postclosure plan in accordance with 25 Pa. Code \$75.264(o)(17) and (18) whenever necessary.

[For Disposal Facilities]

NOTICE TO LOCAL LAND AUTHORITY

The Permittee shall submit to the Department and to the municipality in which the facility is located a survey plat indicating the location and dimensions of landfill cells or other disposal areas with respect to permanently surveyed benchmarks in accordance with 25 Pa. Code §75.264(o)(19). In addition, the Permittee shall submit to the municipality and to the Department a record of the type, location, and quantity of hazardous waste disposed of within each cell or area of the facility in accordance with 25 Pa. Code §75.264(o)(19).

[For Facilities Located in the 100-Year Floodplain]

FLOODPLAIN STANDARD

The Permittee shall comply with the requirements of 25 Pa. Code \$75.264(z)(22).

PART III - STORAGE IN CONTAINERS

A. WASTE IDENTIFICATION

The Permittee may store the following wastes in containers at the facility, subject to the terms of this permit.

Hazardous Waste Code

Description

B. DURATION OF STORAGE

The Permittee shall not store containers of hazardous waste at this facility in excess of one year. [The definition of storage establishes a rebuttable presumption that containment of waste in excess of one year is disposal. If the permit application presents clear and convincing evidence to the contrary, then this permit condition should be deleted. The permit writer may establish a longer duration, rather than deleting the permit condition. The basis for allowing a longer duration must be documented.]

C. CONDITION OF CONTAINERS

If a container holding hazardous waste is not in good condition (e.g., severe rusting, apparent structural defects) or if it begins to leak, the Permittee shall transfer the hazardous waste from such container to a container that is in good condition or otherwise manage the waste in compliance with the conditions of this permit.

D. PLACEMENT REQUIREMENTS

The Permittee shall store all hazardous waste containers in accordance with the following volume, content and location requirements:

1.	Area #		Permitted Waste Codes			
	Location _		[For each area or each cell]			
	-					
	-					
	·		·			

а.	Cell#					
	(1) Description					
	(2) Maximum Volume of Waste Allowed					
	(3) Maximum Number of Containers Allowed					
Ъ.	Cell#					
	(1) Description					
	(2) Maximum Volume of Waste Allowed					
	(3) Maximum Number of Containers Allowed					
Are	a # Permitted Waste Codes					
Loc	ation[For each area or each cell]					
a.	Cell#					
	(1) Description					
	(2) Maximum Volume of Waste Allowed					
	(3) Maximum Number of Containers Allowed					
	•					
Ъ.	Cell#					
	(1) Description					

(2) Maximum Volume of Waste Allowed

(3) Maximum Number of Containers Allowed

E. COMPATIBILITY OF WASTES WITH CONTAINERS

The Permittee shall assure that the ability of the container to contain the waste is not impaired as required by 25 Pa. Code \$75.264(q)(2).

F. MANAGEMENT OF CONTAINERS

The Permittee shall manage containers as required by 25 Pa. Code \$75.264(q)(3) and (4).

G. CONTAINMENT

The Permittee shall construct and/or maintain the containment system as required by 25 Pa. Code 575.264(q)(10)-(12) and the attached plans and specifications, Attachment

H. CONTAINER STACKING HEIGHT, WIDTH, AND DEPTH

The Permittee shall store containers of hazardous waste as required by 25 Pa. Code 575.264(q)(14) and the attached plans and specifications, Attachment

[OPTIONS]

[For Facilities Which Handle Ignitable or Reactive Wastes] SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTES

The Permittee shall not locate containers holding ignitable or reactive wastes within 15 meters (50 feet) of the facility's property line, nor within 40 feet of a building.

[For Facilities Which Handle Incompatible Waste]

SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES

 <u>Placement of Incompatible Wastes</u>. Prior to placing incompatible wastes and/or materials in the same container, the Permittee shall follow the procedures specified in Attachment . [If the application does not address this requirement or if the application specifies that incompatible wastes will <u>not</u> be placed in the same container, the permit writer should draft a condition prohibiting this activity.]

- 2. <u>Incompatible Wastes in Unwashed Containers</u>. The Permittee shall not place hazardous waste in an unwashed container that previously held an incompatible waste or material.
- 3. <u>Storage of Incompatible Wastes</u>. The Permittee shall store containers of incompatible wastes as indicated in the attached plans, Attachment ____, as required by 25 Pa. Code §75.264(q)(9).
- 4. <u>Documentation</u>. The Permittee must document compliance with sections (1) and (2) of this condition as required by 25 Pa. Code §75.264(g)(3) and place this documentation in the operating record (permit condition II.H.1.).

[For Facilities Which Handle Containers From Off-Site]

WEIGHING OR MEASURING FACILITIES

The Permittee shall provide, maintain, and operate weighing or measuring facilities as required by 25 Pa. Code \$75.264(q)(6).

[For Facilities Which Handle Containers From Off-Site]

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OPERATING HOURS

The Permittee shall maintain at the entrance to the facility a sign displaying the hours of operation. The lettering shall be a minimum of four inches in height and of a color contrasting with its background.

___ [Other conditions necessary to specify liner materials, location of specific wastes, materials of construction, requirements for the base or containment system, etc.]

PART IV - STORAGE/TREATMENT IN TANKS

A. WASTE IDENTIFICATION

The Permittee may store/treat the following hazardous waste in tanks, subject to the terms of this permit:

a. Tank No(s).

Hazardous Waste No.

b. Tank No(s).

Hazardous Waste No.

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B. DURATION OF STORAGE

The Permittee shall not store hazardous wastes in tanks at this facility in excess of one year. [The definition of storage establishes a rebuttable presumption that containment of waste in excess of one year is disposal. If the permit application presents clear and convincing evidence to the contrary, then this permit condition should be deleted. The permit writer may establish a longer duration, rather than deleting the permit condition. The basis for allowing a longer duration must be documented.]

C. DESIGN AND CONSTRUCTION OF TANKS

The Permittee shall construct, modify, and maintain all tanks in accordance with the plans and specifications in Attachment ____. The Permittee shall

maintain the minimum shell thickness specified below at all times to ensure sufficient structural strength.

D. PROTECTION FROM OVERFILLING

The Permittee shall prevent overfilling of tanks by the methods specified in Attachment _____ and summarized below.

The Permittee shall construct and/or maintain the containment structure as required by 25 Pa. Code §75.264(r)(6) and the attached plans and specifications, Attachment ____.

F. EMERGENCY REPAIRS; CONTINGENCY PLAN

- The Permittee shall inspect the tanks in accordance with the Tank Evaluation and Repair (TER) Plan whenever there is any indication of a possible failure as required by 25 Pa. Code \$75.264(r)(20).
- 2. Whenever there is evidence of tank failure, the Permittee shall remove the tank from service as required by 25 Pa. Code §75.264(r)(21) and implement the procedures required by 25 Pa. Code §75.264(r)(22) and specified in the PPC Plan, Attachment ____.
- 3. Prior to restoring it to service, the Permittee shall repair the tank and obtain a certification from a registered professional engineer that it meets the design specifications approved in this permit, as required by 25 Pa. Code §75.264(r)(24).

4. If a tank has been removed from service due to failure and is not being repaired, the permittee shall close it as required by 25 Pa. Code \$75.264(r)(25).

G. ACCESS ROADS

The Permittee shall construct and/or maintain access roads as required by 25 Pa. Code \$75.264(r)(26) and the attached plans and specifications, Attachment ____.

H. BUFFER ZONE

The Permittee shall establish and maintain a buffer zone of 50 feet between the property line and the permitted facility within which no solid waste treatment, storage, or disposal activities shall occur.

I. EQUIPMENT

 Equipment Maintenance. The Permittee shall maintain tank operating equipment in operable condition and adequate in size and performance capability to assure that the facility operation will not be interrupted during normal working periods and that the facility operation is non-rend Thursdan and stand

in accordance with this permit.

2. <u>Standby Equipment</u>. The Permittee shall maintain standby equipment onsite or readily available for use in the event of a major equipment breakdown.

[OPTIONS]

[For Facilities Which Treat Wastes]

TREATMENT OF WASTES IN TANKS

The Permittee shall conduct all treatment operations in accordance with the procedures in Attachment ____.

[For Facilities Which Handle Corrosive Wastes]

PROTECTION FROM CORROSION

The Permittee shall protect tanks from accelerated corrosion, erosion, and abrasion as specified in Attachment _____ and summarized below.

Tan	k 1	No ((ε	3)	•

а.

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Type of Protection



[For Facilities Which Handle Ignitable or Reactive Wastes] ______SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTES

- <u>Documentation</u>. The Permittee shall document compliance with the above permit condition as required by 25 Pa. Code §75.264(g)(3) and place this documentation in the operating record (permit condition II.H.1).
- 3. <u>NFPA Requirements</u>. The Permittee shall comply with all applicable requirements for covered tanks listed in the National Fire Protection Association's "Flammable and Combustible Liquids Code, 1981", or latest revised edition.

[For Facilities Which Handle Incompatible Wastes] SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTE

- 1. <u>Incompatible Waste Precautions</u>. The Permittee shall not place incompatible wastes in the same tank or place hazardous waste in an unwashed tank that previously held an incompatible waste or material unless the procedures specified in Attachment _____ are followed.
- <u>Documentation</u>. The Permittee shall document compliance with the above permit condition as required by 25 Pa. Code §75.264(g)(3) and place this documentation in the operating record (permit condition II.H.1).

[For Facilities Which Treat or Store Varying Types of Wastes]

WASTE ANALYSIS

The Permittee shall conduct waste analyses and trial treatment or storage tests, or shall obtain written, documented information as required by 25 Pa. Code §75.264(r)(7) and the Waste Analysis Plan, Attachment ____, before chemically treating or storing a hazardous waste which is substantially different from waste previously treated or stored in a tank or before chemically treating hazardous waste with a substantially different process than previously used in a tank. The analyses, tests, and information shall be placed in the operating record (permit condition II.H.1).

[For Facilities Which Handle Wastes From Off-Site] WEIGHING OR MEASURING FACILITIES The Permittee shall provide, maintain and operate weighing or measuring facilities as required by 25 Pa. Code \$75.264(r)(17).

[For Facilities Which Handle Wastes From Off-Site]

OPERATING HOURS

The Permittee shall maintain at the entrance to the facility a sign displaying hours of operation. The lettering shall be a minimum of four inches in height and of a color contrasting with its background.

[For New or Modified Facilities]

TANK CONSTRUCTION OR INSTALLATION

- 1. <u>Inspections</u>. The Permittee shall inspect the tank for uniformity, damage and imperfections during construction or installation.
- 2. <u>Construction Practices</u>. The Permittee shall use best engineering construction practices during all phases of installation and construction.

3. Quality Control Measures. The Permittee shall use the quality control

measures and tests specified in Attachment _____ to insure that installation and construction conform to the design materials and construction specifications approved in this permit.

- 4. <u>Professional Engineer Certification</u>. The Permittee shall obtain a written certification from a registered professional engineer for each phase of installation or construction as required by 25 Pa. Code \$75.264(r)(33). Each certification shall be submitted to the Department in accordance with the construction schedule, Condition IV. ___.5.
- 5. <u>Construction Schedule</u>. The Permittee shall construct or install the tank in accordance with the following schedule:

[Insert construction schedule, including interim dates and reporting requirements]

[As Appropriate]

- SURFACE WATER MANAGEMENT
 - <u>Design Standards</u>. The Permittee shall manage surface water on the site as required by 25 Pa. Code \$75.264(r)(28) and the plans and specifications in Attachment ____.
 - <u>Run-Off</u>. The Permittee shall manage surface water run-off as required by 25 Pa. Code §75.264(r)(29) and the plans and specifications in

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Attachment ____

<u>Run-On</u>. The Permittee shall control run-on as required by 25 Pa. Code
 §75.264(r)(30) and the plans and specifications in Attachment ____.

[As Appropriate]

DUST CONTROL

The Permittee shall prevent dust from hampering site operations or from causing health or safety hazards or nuisances.

[As Appropriate]

WASTE TRACKING

The Permittee shall minimize or eliminate the tracking of waste within or outside the site as required by 25 Pa. Code \$75.264(r)(39).

[As Appropriate]

VECTOR, ODOR, AND NOISE CONTROL

The Permittee shall carry out vector, odor, and/or noise control proce-

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dures as required by 25 Pa. Code \$75.264(r)(34) and the Vector, Odor, and Noise Control Plan, Attachment ____.

[As Appropriate]

UNLOADING AREAS

The Permittee shall maintain unloading areas to permit vehicles to unload promptly.
PART V - INCINERATION

[Note: This part plus Part VI cover the four phases of incineration operation from (1) shakedown through (2) trial burn and (3) post-trial burn to (4) final operation. Part V is intended to set the design and construction parameters, plus the conditions for the final operation phase for both existing and new incineration facilities. The conditions in Part V are those which the Permittee must comply with during the full term of the permit.

Part VI covers the shakedown, trial burn and post-trial burn operating periods. The conditions in Part VI are applicable only until the conditions in Part V can be verified by a trial burn.

If the incineration facility meets the exemption criteria set forth in 25 Pa. Code \$75.264(w)(26), then this Part will only contain condition A (construction/maintenance). The Waste Analysis Plan (condition II.B) must cover the requirements of 25 Pa. Code \$75.264(w)(3), (4) and (10). Documentation of the basis for the exemption must be recorded in the administrative record.

For permits that do not include the exemption (i.e., those facilities that are permitted based on trial burns or data in lieu of a trial burn), compliance with certain incineration requirements should be set through conditions in other parts of the permit as set forth below:

Requirement	Subject	Part - Condition
75.264(w)(3)	Waste Analysis	II.C

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75.264(w)(10)

Closure

The permit conditions and parameters presented below cover the remaining regulatory requirements of 25 Pa. Code §75.264(w)].

A. CONSTRUCTION [For new facilities]

The Permittee shall construct and maintain the incinerator in accordance with the attached plans and specifications, Attachment ___ [or equivalent]. The Permittee shall not feed hazardous wastes to the incinerator until compliance with Condition I.___ (Certification of Construction or Modification) has been attained.

- <u>Construction Practices</u>. The Permittee shall use best engineering construction practices during all phases of installation and construction as required by 25 Pa. Code §75.264(w)(14).
- 2. <u>Quality Control Measures</u>. The Permittee shall use the quality control measures and tests specified in Attachment _____ to ensure that installation and construction conform to the design materials and construction specifications set forth in this permit as required by 25 Pa. Code §75.264(w)(15).
- 3. Professional Engineer Certification. The Permittee shall obtain a

written certification from a registered professional engineer for each phase of installation or construction as required by 25 Pa. Code \$75.264(w)(16). Each such certification shall be submitted to the Department in accordance with the construction schedule, condition V.A.4.

4. <u>Construction Schedule</u>. The Permittee shall construct or install the incineration facility in accordance with the following schedule: [Insert construction schedule, including interim dates and reporting requirements.]

A. MAINTENANCE [For existing facilities]

The Permittee shall maintain the facility in accordance with the attached design plans and specifications, Attachment ____ [or equivalent].

[The permit writer should note that under 25 Pa. Code §75.264(w)(6), the incinerator must be designed, constructed and maintained so that it will meet the performance standards when operated in accordance with the permitted operating conditions. The permit writer is responsible for assuring that the attached plans and specifications are sufficiently comprehensive and technically adequate to meet this regulatory requirement.]

B. PERFORMANCE STANDARD*

The Permittee shall [design, construct and] maintain the incinerator so that, when operated in accordance with the operating requirements specified in this permit, it will meet the following performance standards as required by 25 Pa. Code §75.264(w)(6):

- The incinerator shall achieve a destruction and removal efficiency (DRE) of 99.99% for each Principal Organic Hazardous Constituent (POHC) designated in this permit or approval for each waste feed. DRE shall be determined for each POHC using the equation specified in 25 Pa. Code §75.264(w)(6)(i).
- 2. If the incinerator produces stack emissions of more than 1.8 kilograms per hour (4 pounds per hour) of hydrogen halide, then hydrogen halide emissions must be controlled such that the rate of emission is no greater than the larger of either 1.8 kilograms per hour or 1% of the hydrogen halide in the stack gas prior to entering any pollution control equipment.
- 3. The incinerator shall not emit particulate matter in excess of 180 milligrams per dry standard cubic meter based on the more stringent of the computation methods presented in 25 Pa. Code §75.264(w)(6)(iii)(A) and (B).

[25 Pa. Code §75.264(w)(6)(iii)(c) states that the Department may

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specify an alternative (more stringent) particulate emission standard pursuant to Chapter 141, Section 141.1. An alternative standard is appropriate where emissions of metals threaten the protection of public health or where violations of air quality standards, as specified in Chapter 14, could occur.]

[Note: The data to be used in specifying permit conditions in V.C. and V.D. below must be based on the trial burn results (for those facilities conducting a trial burn) or on data in lieu of a trial burn showing that the performance standards specified above will be met.]

C. LIMITATION ON WASTES

Except during the periods specified in conditions VI.A, B and C [for facilities that conduct trial burns], the Permittee shall incinerate only the following hazardous wastes as required by 25 Pa. Code §75.264(w)(5).

[There are two options for identifying the allowable waste feed to the incinerator. The first option covers situations where it is not practical to list all of the wastes that a facility might be permitted to burn. In this option criteria are identified to establish limitations on the physical and chemical characteristics of the waste input to the incinerator. The second option is more appropriate for so-called "onsite" incinerators used as a part of a chemical process or manufacturing operation. Here, it is usually straight-forward to specifically identify the wastes or classes of waste that the Permittee is permitted to burn. Examples of recommended language for these two options are presented below.]

OPTION 1:

- o The Permittee shall not incinerate any hazardous organic constituent having a heat of combustion less than _____ Kcal/gm. [The specified heat of combustion should be that of the POHC with the lowest heat of combustion which was burned at a DRE of at least 99.99% in the trial burn (or which was so reported in the data submitted in lieu of a trial burn).]
- o The ash content of the waste shall be no greater than ______%.
- o The physical form of the waste shall be ____. [Specify whether the waste is in the form of a solid, liquid or contained gas. For example, for a liquid injection incinerator, specify a liquid with a maximum viscosity of ____ centipoise.]

OPTION 2:

Hazardous Waste Number	Description	Feed Rate	
D003, D004, D008	Freezon 123t reactor bottoms	[Specify feed rates in	

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[The permit writer may impose other limitations on the waste feed as necessary to ensure compliance with the performance standards. All such limitations, however, should be derived from the results of the trial burn or from the data submitted in lieu of a trial burn.]

D. OPERATING CONDITIONS

Except during the periods specified in Conditions VI.A, B, and C [for facilities that conduct trial burns] the Permittee shall feed the wastes described in condition V.C. to the incinerator only under the following conditions as required by 25 Pa. Code §75.264(w)(7):

[It is possible that an incinerator can be permitted for more than one waste feed (e.g., the incinerator could operate on one definable waste feed during the summer and another during the winter.) In such cases, a complete set of operating limits must be specified for each waste feed.

Each set of operating conditions must directly relate to achieving the performance standards. If the Permittee complies with the permit operating conditions, but it is later shown that the performance stanreissued. Under such circumstances, enforcement actions cannot be taken. However, violation of the permit operating conditions could lead to enforcement action.]

> 1. Carbon monoxide (CO) level in the stack gas, measured as specified in condition V.F, shall not exceed _____ ppm at any time and shall not exceed _____ ppm for ____ consecutive minutes.

dards are not being attained, the permit may be modified or revoked and

- Waste feed rate, measured as specified in condition V.F., shall not exceed ____Kg/hour.
- Combustion temperature, measured as specified in condition V.F, shall be maintained at ____°C or greater.
- 5. Combustion gas velocity, measured as specified in condition V.F, shall be no greater than _____ ACMS.*

[The Permittee may choose to monitor an indicator of combustion gas velocity, rather than measure combustion gas velocity directly. However, the Permittee must demonstrate the correlation between the indicator and combustion gas velocity on the permitted incinerator. Potential indicators include stack gas oxygen concentration, blower rotational speed and blower current draw.]

[Note: 25 Pa. Code §75.264(w)(7)(i)(E) allows for variations in incinerator system design or operating procedures, thus giving the permit writer some latitude if needed. However, such variations must be supported either from trial burn results or from data submitted in lieu of a trial burn.]

6. Opacity of the stack gas plume shall not be in excess of the standards set forth in 25 Pa. Code §123.41 when measured in accordance with the techniques specified in 25 Pa. Code §123.43. [25 Pa. Code §75.264(w)(7)(i)(G) requires the permit writer to establish any other operating requirements that are necessary to ensure compliance with the performance standards. In addition to the permit conditions listed above, conditions must be established, where appropriate, to ensure compliance with the hydrogen halide removal standard and the particulate emissions standard. Examples of operating conditions that are applicable to hydrogen halide removal systems (scrubbers) are as follows:

o Make-up water flow rate to the scrubber system, measured as specified in condition V.F, shall be maintained at _____ cubic meters per hour or greater.

- o Scrubber water recirculation rate, measured as specified in condition V.F, shall be maintained at _____ cubic meters per hour or greater. [Alternatively, minimum pressure drop across the scrubber could be specified.]
- o The pH of scrubber water discharge, measured as specified in condition V.F, shall be maintained at _____ or greater.

Scrubbers and, to a limited extent, baghouse collectors and electrostatic precipitators could be used to control particulate emissions. Operating conditions for scrubbers are listed below. For baghouse collectors, maximum stack gas temperature shall be specified along with a range for pressure drop (in mm of mercury) across the baghouse. For electrostatic precipitators, minimum voltage or current draw should be specified. As with all the other operating conditions that are specified, the values of the operating conditions will be sitespecific and based on trial burn results or data submitted in lieu of a trial burn.]

7. During start-up and shut-down of an incinerator, hazardous wastes shall not be fed into the incinerator unless the incinerator is operating within the specified operating conditions and achieves a steady state condition.

8. The Permittee shall control fugitive emissions from the combustion zone

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by _____. [Under 25 Pa. Code §75.264(w)(7)(iii), the Permittee must specify one of three methods for controlling fugitive emissions. The first method is to keep the combustion zone totally sealed against fugitive emissions. The second method is to maintain a combustion zone pressure lower than atmospheric pressure. The third is an alternative means of control that is demonstrated to provide fugitive emissions control equivalent to maintenance of combustion zone pressure lower than atmospheric pressure. Any plans or specifications which delineate how fugitive emissions will be controlled under this third method should be referenced and attached.]

9. The Permittee shall cease operation of the incinerator when changes in waste feed (condition V.C), incinerator design (condition V.A), or operating conditions (condition V.D) exceed limits designated in this permit.

E. WASTE FEED CUT-OFF

The Permittee shall construct, maintain and calibrate the systems specified below to automatically cut off the hazardous waste feed to the incinerator at the levels specified below when the operating conditions deviate from the limits established in condition V.D.

	nan na na an	Calibration	Test
System	Cut-Off Limits	Frequency	Frequency

 Combustion (or atomizing steam system) failure

- Current failure from the flame detector and other safety devices
- 4. Failure of electrical power supply to the facility

[Levels at which waste feed will be cut off for other systems]

[Note: At a minimum, these conditions must meet the requirements of 25 Pa. Code \$75.264(w)(7)(iv).]

F. FACILITY MONITORING

The Permittee shall monitor the incineration facility and record the data as specified below:

		Frequency of	Frequency	Frequency of	Recording
System	Purpose	Monitoring	of Testing	Calibration	Method

[At a minimum, this condition must specify monitoring systems that meet the requirements of 25 Pa. Code \$75.264(w)(9). In addition, condition V.D contains specifications for various operating parameters which must be monitored. Each of these parameters must be addressed above. If the application specifies all the above information in a convenient way, then

the permit writer should attach and reference the applicable sections rather than preparing the above table.]

G. WASTE ANALYSIS MONITORING

The Permittee shall conduct waste analyses as required by 25 Pa. Code \$75.264(w)(4) to verify that the waste feed to the incinerator is within the physical and chemical composition limits specified in condition V.C. These analyses shall be conducted according to the plans and specifications in Attachment _____. [Note: Alternatively, this condition could be made a part of condition II.B.]

H. OTHER DEPARTMENTAL PERMITS AND APPROVALS

The Permittee shall not operate the incinerator without making provisions for and receiving a Department permit and written approval for the disposal of ash (and scrubber water residues, scrubber water, and other residues as appropriate) as required by 25 Pa. Code §75.264(w)(11).

I. ACCESS ROADS

The Permittee shall construct and/or maintain access roads as required by 25 Pa. Code \$75.264(w)(22) according to the plans and specifications in

Attachment

J. BUFFER ZONE

The Permittee shall establish and maintain a buffer zone of 50 feet between the property line and the permitted facility within which no solid waste treatment, storage, or disposal activities shall occur as required by 25 Pa. Code §75.264(w)(13).

K. EQUIPMENT MAINTENANCE

The Permittee shall maintain the incineration facility equipment in operable condition and shall ensure that such equipment is of adequate capacity and performance capability so that facility operation will not be interrupted during normal working periods and so that the facility operation is in accordance with this permit as required by 25 Pa. Code \$75.264(w)(18).

L. STANDBY EQUIPMENT

The Permittee shall maintain standby equipment on-site or readily avail-

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able for use in the event of a major equipment breakdown as required by 25 Pa. Code \$75.264(w)(19).

[OPTIONS]

INCINERATION FACILITY MODIFICATIONS

- <u>Construction Practices</u>. The Permittee shall use best engineering construction practices during all phases of installation and construction as required by 25 Pa. Code §75.264(w)(14).
- 2. <u>Quality Control Measures</u>. The Permittee shall use the quality control measures and tests specified in Attachment _____ to ensure that instal-lation and construction conforms to the design materials and construction specifications set forth in this permit as required by 25 Pa. Code §75.264(w)(15).
- 3. <u>Professional Engineer Certification</u>. The Permittee shall obtain a written certification from a registered professional engineer for each phase of installation or construction as required by 25 Pa. Code §75.264(w)(16). Each such certification shall be submitted to the Department in accordance with the construction schedule, condition _.4.
- 4. Construction Schedule. The Permittee shall construct or install the

incineration facility in accordance with the following schedule: [Insert construction schedule, including interim dates and reporting requirements.]

ODOR AND NOISE CONTROL

The Permittee shall conduct odor and noise control procedures as required by 25 Pa. Code §75.264(w)(17) and as specified in the Odor and Noise Control Plan, Attachment _____. [An Odor and Noise Control Plan should be required in order to prevent health hazards or nuisances. Most incineration facilities are not expected to require such a plan.]

UNLOADING AREAS

The Permittee shall maintain unloading areas to permit vehicles to unload promptly. [This condition should only apply to facilities handling wastes from off-site.]

WASTE TRACKING

The Permittee shall minimize or eliminate the tracking of waste by equipment or machinery within and outside the site as required by 25 Pa. Code \$75.264(w)(21). [For the most part, this condition should only apply to facilities receiving wastes from off-site. It could also be applied where wastes are transferred in several stages or across significant distances within a plant (i.e., the waste is generated at the north end of the chemical plant, but the incinerator is located at the south end of the plant).]

WEIGHING AND MEASURING FACILITIES

The Permittee shall provide, maintain, and operate weighing or measuring facilities as required by 25 Pa. Code §75.264(w)(23). [This condition does not apply to captive TSD facilities that handle liquids or flowable wastes (i.e., less than 20 percent solids) which are amenable to accurate flow measurement or to captive facilities that possess other waste inventory controls (i.e., volume controls.)].

OPERATING HOURS

The Permitee shall maintain a sign at the entrance to the facility displaying the hours of operation. The lettering shall be a minimum of four inches in height and of a color contrasting with its background as required by 25 Pa. Code §75.264(w)(24). [This condition only applies to facilities handling waste from off-site.]

PART VI - SHORT TERM INCINERATOR PERMIT*

[Note: This part contains conditions that apply to an incineration facility only during the shakedown phase, trial burn phase and post-trial burn phase. After the post-trial burn phase (i.e., the final operation phase), this module is no longer valid. This module only applies to incineration facilities conducting a trial burn.

The purposes of this module are to permit the operation of an incineration facility in order to:

- Determine operational readiness following completion of physical construction.
- 2. Control operating conditions after the trial burn and prior to any final modifications of the permit conditions in Part V to reflect the trial burn results.
- Determine the feasibility of compliance with the performance standards,
 25 Pa. Code \$75.264(w)(6).
- 4. Determine adequate operating conditions that will ensure that the performance standards will be maintained.]

. SHAKEDOWN PHASE

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During the shakedown phase (the period beginning with the initial introduction of hazardous wastes into the incinerator and ending with the start of the trial burn), the Permittee shall comply with the following conditions: [Condition VI.A only applies to new incinerators. Existing incinerators operate under interim status.]

- <u>Duration of the Shakedown Period</u>. The shakedown phase shall not exceed 720 hours of operating time for the treatment of hazardous wastes. The Permittee may petition the Department for extension of the shakedown phase for up to 720 hours. The Department may grant the extension when good cause is demonstrated in the petition in accordance with 25 Pa. Code §75.264(w)(25)(i).
- 2. <u>Waste Feed Identification</u>. During the shakedown phase, the Permittee may feed the following wastes to the incinerator, subject to the operating conditions specified in condition VI.A.3.

[The permit writer must specify which waste feeds the Permittee is allowed to incinerate during the shakedown phase. Any limitations on waste feeds must also be delineated. The format options presented in condition V.C should be considered.

All limitations on the waste feed must be based on the permit writer's best judgment that the facility will meet the performance standards during the shakedown period. Thus, the permit writer may wish to limit the waste feed

to easily incinerable materials during this period. In some cases, it may be appropriate to specify wastes that are always chemically and physically uniform. Identification may then be the process name of the waste or some equivalent identifier. For waste feeds whose chemical and physical properties vary, limitations for these variations must be specified.]

3. <u>Operating Conditions</u>. During the shakedown phase, the Permittee shall feed the wastes described in condition VI.A.2 to the incinerator only under the following conditions:

[For each of the waste feeds specified in condition VI.A.2, the permit writer must establish operating conditions that, in the permit writer's best judgment, ensure compliance with the performance standards. Information used to establish these conditions can include the facility's Part B application and operating data from other similar incineration facilities.]

a. Combustion temperature, measured as specified in condition VI.A.5,

shall be maintained at ____°C or greater.

- b. Combustion gas velocity, measured as specified in condition VI.A.5, shall be no less than _____ ACMS and no greater than _____ ACMS. The residence time in the combustion chamber, measured as combustion chamber volume (in cubic meters) divided by the combustion gas velocity (in ACMS), shall be maintained between _____ and _____ sec.
- c. Carbon monoxide (CO) levels in the stack gas, measured as specified in condition VI.A.5, shall not exceed _____ ppm at any time and shall not exceed _____ ppm for more than _____ minutes.

[For a new facility, the specification for carbon monoxide levels can be estimated based on a combustion of factors including engineering design, waste feed considerations and the operating history of other similar units. A realistic and precise value for CO levels should not be expected until the incinerator has had an opportunity to operate.]

d. Waste feed rate, measured as specified in condition VI.A.5, shall not exceed _____ kg/hr.

[Note: For a discussion of additional permit conditions relating to hydrogen halide removal efficiency and particulate emissions limitations, see the discussion in Part V. Note, however, that the permit writer has the discretion to impose more stringent operating conditions during the shakedown phase than those specified for the long-term or final operation phase. Since acceptable performance of a new incinerator cannot be demonstrated until the trial burn, the permit writer may limit operations to a waste with a higher heat of combustion than the proposed POHC's and restrict operating parameters so that the DRE requirement is unlikely to be violated. Do not specify feed rates (or heat rates, Kcal/hr.) significantly less than the incinerator's design rate since any reduction in turbulence in the combustion chamber could reduce the DRE efficiency.]

- e. Oapacity of the stack gas plume shall not be in excess of the standards set forth in 25 Pa. Code §123.41 when measured in accordance with the techniques specified in 25 Pa. Code §123.43.
- f. During start-up and shut down of an incinerator, hazardous wastes shall not be fed into the incinerator unless the incinerator is operating within the specified operating conditions and achieves a steady-state condition.
- g. The Permittee shall control fugitive emissions from the combustion zone by ______. [Note: Compliance with 25 Pa. Code \$75.263(w)(7) must be demonstrated.]
- h. The Permittee shall cease operation of the incinerator when changes in waste feed (condition VI.A.2), incinerator design (condition

VI.A), or operating conditions (condition VI.A.3) exceed limits designated in this permit.

4. <u>Waste Feed Cut-Off</u>. The Permittee shall construct, maintain and calibrate the systems specified below to automatically cut off the hazardous waste feed to the incinerator at the levels specified below when the operating conditions deviate from the limits established in condition VI.A.3.

System	Cut-Off Limits	Calibration Frequency	Test Frequency
[Description	[Level at which	[Frequency at which	[Frequency at
and purpose of	waste feed will be	accuracy is checked]	which operational
system]	cut off]		readiness is
			checked]

[Note: At a minimum, these conditions must meet the requirements of 25 Pa. Code 575.264(w)(7)(iv).]

5. <u>Facility Monitoring</u>. The Permittee shall monitor the incineration facility and record the data as specified below:

		Frequency of	Frequency	Frequency of	Recording
System	Purpose	Monitoring	of Testing	Calibration	Method

[At a minimum, this condition must specify monitoring systems that meet the requirements of 25 Pa. Code \$75.264(w)(9). In addition, condition VI.A.3 contains specifications for various operating parameters which must be monitored.

Each of these parameters must be addressed above. If the application specifies all the above information in a convenient way, then the permit writer should attach and reference the applicable sections rather than preparing a table.]

B. TRIAL BURN PHASE

 <u>Trial Burn Plan</u>. The Permittee shall operate and monitor the incinerator during the trial burn phase as specified in the Trial Burn Plan, Attachment ____.

[The trial burn plan must meet the requirements of 25 Pa. Code \$75.264(w)(27). The permit writer should add conditions if professional

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judgment indicates that this is necessary to ensure compliance with the performance standards.]

2. Trial POHC(s). The trial POHCs for which DREs must be determined are:

Waste Feed

POHC(s)

[If the applicant wishes to establish different operating conditions for different waste feeds, then POHCs may be selected for each feed or feed group suggested by the applicant. For example, a facility may wish to designate two waste feeds. One of the waste feeds is a combination of several waste streams that are relatively "easy" to burn based on the POHCs. The second waste feed consists of several waste streams that are "difficult" to burn based upon those POHCs. The incinerator operating conditions for these two feeds may be different.

Before selecting POHCs for the trial burn, the permit writer should review Chapter 2 of the Guidance Manual for Hazardous Waste Incinerator Permits.]

3. <u>Trial Burn Determinations</u>. During the trial burn (or as soon after the trial burn as practicable) the Permittee shall make the determinations required by 25 Pa. Code §75.264(w)(29). [Any other determinations that the permit writer believes will be needed to ensure that the trial burn will ensure compliance with the performance standards should be described as required by 25 Pa. Code \$75.264(w)(29)(i)(J).]

4. <u>Trial Burn Submissions</u>. The Permittee shall submit a copy of all data collected during the trial burn to the Department upon completion of the burn. The Permittee shall submit to the Department the results of the determinations required by condition VI.B.3 within ninety (90) days of the completion of the trial burn. All submissions must be certified in accordance with 25 Pa. Code §75.265(z)(13).

C. POST-TRIAL BURN PHASE

During the post-trial burn phase (the period starting immediately after completing the trial burn and ending with the Department's specification of the permit operating conditions in Part V), the Permittee shall comply with the following conditions: [Note: Condition VI.C applies only to new incinerators.]

1. <u>Waste Feed Identification</u>. During the post-trial burn phase the Permittee may feed the following wastes at the facility, subject to the requirements of condition VI.C.2.

[Note: The permit writer must identify which waste feeds the Permittee is allowed to incinerate during the post-trial burn phase. Any limitations on waste feeds also must be delineated. The format options presented in condition V.C should be considered. In some cases, an incinerator may accept only wastes that are chemically and physically uniform. All limitations on the waste feed must be based on the permit writer's professional judgment and should ensure that the facility will comply with the performance standard.]

2. <u>Operating Conditions</u>. During the post-trial burn phase, the Permittee shall feed the wastes described in condition VI.C.l to the incinerator only under the following conditions:

[For each of the waste feeds specified in condition VI.C.l, the permit writer must establish operating conditions that, in the writer's professional judgment, ensure compliance with the performance standards.]

- a. Combustion temperature, measured as specified in condition VI.C.4, shall be maintained at ____°C or greater.
- b. Combustion gas velocity, measured as specified in condition VI.C.4,

shall be no less than _____ ACMS and no greater than _____ ACMS. The residence time in the combustion chamber, measured as combustion chamber volume (in cubic meters) divided by the combustion gas velocity (in ACMS), shall be maintained between _____ sec. and _____ sec.

c. Carbon monoxide levels in the stack gas, measured as specified in condition VI.C.4, shall not exceed _____ ppm at any time and shall not exceed _____ ppm for more than _____ minutes.

[For a new facility, the specification for carbon monoxide levels can be estimated based on a combination of factors including engineering design, waste feed considerations and the operating history of other similar units. A realistic and precise value for CO levels should not be expected until the incinerator has had an opportunity to operate.]

d. Waste feed rate measured as specified in condition VI.C.4, shall not exceed _____ kg/hr.

[For a discussion of additional permit conditions relating to hydrogen halide removal efficiency and particulate emissions limitation, see the discussion in Part V. Note, however, that the permit writer has the discretion to impose more stringent operating conditions during the post-trial burn phase than those specified for the long-term or final operation phase. Since the acceptable performance of a new incinerator cannot be guaranteed until the trial burn results are known, the permit writer may limit operations to a waste with a higher heat of combustion than the proposed POHCs and restrict operating parameters so that the DRE requirement is unlikely to be violated. Do not specify feed rates (or heat rates, KCal/hr) significantly less than the incinerator's design rate since any reduction in turbulence in the combustion chamber could reduce the DRE efficiency.]

- e. Oapacity of the stack gas plume shall not be in excess of the standards set forth in 25 Pa. Code \$123.41 when measured in accordance with the techniques specified in 25 Pa. Code \$123.43.
- f. During start-up and shut-down of the incinerator, hazardous wastes shall not be fed into the incinerator unless the incinerator is operating within the specified operating conditions and achieves a steady-state condition.
- g. The Permittee shall control fugitive emissions from the combustion zone by _____. [Compliance with 25 Pa. Code §75.264(w)(7) must be demonstrated.]
- h. The Permittee shall cease operation of the incinerator when changes in waste feed (condition VI.C.1), incinerator design (condition VI.A) or operating conditions (condition VI.C.2) exceed limits designated in this permit.

3. <u>Waste Feed Cut-Off</u>. The Permittee shall construct, maintain and calibrate the systems specified below to automatically cut off the hazardous waste feed to the incinerator at the levels specified below when the operating conditions deviate from the limits established in condition VI.C.2.

System	Cut-Off Limits	Calibration Frequency	Test Frequency
[Description	[Level at which	[Frequency at which	[Frequency at
and purpose of	waste feed will be	accuracy is checked]	which operational
system]	cut off]		readiness is checked]

[At a minimum, these conditions must meet the requirements of 25 Pa. Code §75.264(w)(7)(iv).]

4. <u>Facility Monitoring</u>. The Permittee shall monitor the incineration facility and record the data as specified below:

[At a minimum, this condition must specify monitoring systems that meet the requirements of 25 Pa. Code \$75.264(w)(9). In addition, condition VI.C.2 contains specifications for various operating parameters which must be monitored.

Each of these parameters must be addressed above. If the application specifies all the above information in a convenient way, then the permit writer should attach and reference the applicable sections rather than preparing a table.]

D. GENERAL PROVISIONS

During the shakedown phase, the trial burn and the post-trial burn phase, the Permittee shall comply with each of the conditions set forth below.

1. <u>Waste Analysis Monitoring</u>. The Permittee shall conduct waste analyses as required by 25 Pa. Code §75.264(w)(4) to verify that the wate feed to the incinerator is within the physical and chemical composition limits specified in conditions VI.A.2 and VI.C.1, as applicable. These analyses shall be conducted according to the plans and specifications in Attachment ____

- 2. <u>Other Departmental Permits and Approvals</u>. The Permittee shall not operate the incinerator without making provisions for and receiving the Departmental permit and written approval for the disposal of ash (and scrubber water residues, scrubber water, and other residues as appropriate) as required by 25 Pa. Code \$75.264(w)(11).
- 3. <u>Access Roads</u>. The Permittee shall construct and/or maintain access roads as required by 25 Pa. Code §75.264(w)(22) according to the plans and specifications in Attachment ____.
- 4. <u>Buffer Zone</u>. The Permittee shall establish and maintain a buffer zone of 50 feet between the property line and the permitted facility within which no solid waste treatment, storage, or disposal activities shall occur as required by 25 Pa. Code §75.264(w)(13).
- 5. Equipment Maintenance. The Permittee shall maintain the incineration facility equipment in operable condition and shall ensure that such equipment is of adequate capacity and performance capability so that facility operation will not be interrupted during normal working periods and so that the facility operation is in accordance with this permit as required by 25 Pa. Code §75.264(w)(18).
- 6. <u>Standby Equipment</u>. The Permittee shall maintain standby equipment onsite or readily available for use in the event of a major equipment

breakdown as required by 25 Pa. Code §75.264(w)(19).

[OPTIONS]

INCINERATION FACILITY MODIFICATIONS

- <u>Construction Practices</u>. The Permittee shall use best engineering construction practices during all phases of installation and construction as required by 25 Pa. Code §75.264(w)(14).
- 2. <u>Quality Control Measures</u>. The Permittee shall use the quality control measures and tests specified in Attachment ______ to ensure that installation and construction conforms to the design materials and construction specifications set forth in this permit as required by 25 Pa. Code §75.264(w)(15).
- 3. <u>Professional Engineer Certification</u>. The Permittee shall obtain a written certification from a registered professional engineer for each phase of installation or construction as required by 25 Pa. Code \$75.264(w)(16). Each such certification shall be submitted to the Department in accordance with the construction schedule, condition ____.4.
- 4. <u>Construction Schedule</u>. The Permittee shall construct or install the incineration facility in accordance with the following schedule: [Insert construction schedule, including interim dates and reporting

requirements.]

ODOR AND NOISE CONTROL

The Permittee shall conduct odor and noise control procedures as required by 25 Pa. Code §75.264(w)(17) and as specified in the Odor and Noise Control Plan, Attachment _____. [An Odor and Noise Control Plan should be required in order to prevent health hazards or nuisances. Most incineration facilities are not expected to require such a plan.]

UNLOADING AREAS

The Permittee shall maintain unloading areas to permit vehicles to unload promptly. [This condition should only apply to facilities handling wastes from off-site.]

WASTE TRACKING

The Permittee shall minimize or eliminate the tracking of waste by equipment or machinery within and outside the site as required by 25 Pa. Code \$75.264(w)(21). [For the most part, this condition should only apply to facilities receiving wastes from off-site. It could also be applied where wastes are transferred in several stages or across significant distances within a plant (e.g., the waste is generated at the north end of the chemical plant, but the incinerator is located at the south end of the plant).]

WEIGHING AND MEASURING FACILITIES

The Permittee shall provide, maintain, and operate weighing or measuring facilities as required by 25 Pa. Code §75.264(w)(23). [This condition does not apply to captive TSD facilities that handle liquids or flowable wastes (i.e., less than 20 percent solids) which are amenable to accurate flow measurement or to captive facilities that process other waste inven- tory controls (i.e., volume controls).]

OPERATING HOURS

The Permittee shall provide a sign at the entrance to the facility displaying the hours of operation. The lettering shall be a minimum of four inches in height and of a color contrasting with its background as required by 25 Pa. Code §75.264(w)(24). [This condition only applies to facilities handling wastes from off-site.]
PART VII - THERMAL TREATMENT

[Note: The regulations for thermal treatment in 25 Pa. Code \$75.265(x) currently are based on the federal interim status regulations. The 25 Pa. Code \$75.265(x) regulations are not as comprehensive as Department regulations covering the operation of other hazardous waste processes such as incineration. For example, the thermal treatment regulations do not contain performance standards, automatic waste feed cut-off provisions or warning sign requirements. Permit conditions can only be set forth in this part where they are supported by specifically applicable Department regulations.

Because the thermal treatment regulations are not comprehensive, the permit writer is encouraged to issue permits using this part only where no other parts are applicable. In many cases, other parts can be used as discussed below.

In 25 Pa. Code §75.260, thermal treatment is defined as "the treatment of hazardous waste in a device which uses elevated temperatures as the primary means to change the chemical, physical, or biological character or composition of the hazardous waste. Examples of thermal treatment processes are incineration, molten salt, pyrolysis, calcination, wet air oxidation, and microwave discharge."

Thermal treatment in incinerators in subject to the comprehensive regulations of 25 Pa. Code §75.264(w). Incinerator permit conditions are provided in Parts V and VI. Many other thermal treatment processes could also be covered by and a state of the second s Second second

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these conditions because they meet the 25 Pa. Code §75.260 definition of an incinerator: "an enclosed device using controlled flame combustion, the primary purpose of which is to thermally break down hazardous waste." These processes include oxygen incineration, calcination, boilers, and high temperature fluid wall incineration. Other thermal processes which do not directly utilize controlled flames, but which still could be covered by the incinration conditions include catalytic incineration, pyrolysis, molten salt incineration, and plasma arc pyrolysis. It is likely that the incineration condition and removal efficiency could not be applied per se since relatively large concentrations of products of incomplete combustion leave the oxidation vessel in liquid form).

Microwave discharge, noted above in the Department's definition of thermal treatment, is still in the early stages of development.

Other thermal processes such as distillation, evaporation and stream stripping can be covered by Part IV - Tanks.

Therefore, the most significant application of this module is for the detonation of waste explosives.

[Note that waste analysis conditions pursuant to 25 Pa. Code §75.264(c), inspection requirements pursuant to 25 Pa. Code §75.265(x)(4)(iii), and closure conditions pursuant to 25 Pa. Code §75.265(x)(5) for thermal treatment facilities should be included in Part II.] A. CONSTRUCTION [For New Facilities]

The Permittee shall construct and maintain the thermal treatment facility in accordance with the attached plans and specifications, Attachment _____ [or equivalent]. The Permittee shall not feed hazardous wastes to the thermal treatment facility until compliance with condition I.D.ll (certification of construction or modification) has been attained.

B. MAINTENANCE [For Existing Facilities]

The Permittee shall maintain the facility in accordance with the attached design plans and specifications, Attachment ___ [or equivalent].

C. LIMITATION OF WASTES

The Permittee shall thermally treat only the following hazardous wastes as required by 25 Pa. Code §75.264(c).

[There are two options for identifying the allowable waste feed to a thermal treatment facility. The first option covers situations where it is not practical to list all of the wastes that a facility might be permitted to thermally treat. In this option, criteria are specified to establish limitations on the physical and chemical characteristics of the waste input to the facility. The second option simply entails identifying each waste or class of waste that the Permittee is permitted to thermally treat. Examples of recommended language for these two options are presented below.]

OPTION 1:

- o The physical form of the waste shall be ___. [Specify whether the waste is in the form of a solid or liquid.]
- o The facility shall detonate only those waste explosive classified as DOT Class ____ [A, B or C]. [Class A explosives can detonate from a spark, flame, or small to moderate shock. Class A explosives include nitroglycerine, lead, ozide, and black powder. Class B explosives pose a hazard because they are rapidly combustible. Photographic flash power is a Class B explosive. Class C explosives do not ordi- narily detonate in restricted quantities and, thus, are a minimum explosion hazard. Flares and small arms ammunition are examples of Class C explosives. Classes B and C explosives ordinarily explode only under extreme temperatures.]
- No more than ___kg of waste explosives can be detonated as a single charge.

OPTION 2:

and the second	Hazardous Waste Number	Description		
Second Seco	K045	Spent carbon from the treatment of wastewater		
		containing explosives		
F	P081	Nitroglycerine		

plosives allowable quantities that can be detonated at any one

Charge

Amount

[Specify

time

ANALYSIS OF NEW WASTES с.

P112

The Permittee shall analyze any type of waste which has not been previously treated in the thermal treatment process as required in 25 Pa. Code \$75.265(x)(3) to establish and maintain appropriate operating conditions [such as waste charge quantities or auxiliary fuel requirements] and to determine the type of pollutants which might be emitted.

D. OPERATING CONDITIONS [For Continuous Process Operations]

Tetranitromethane

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Before adding hazardous waste, the Permittee shall bring the thermal treatment process to steady state conditions of operation, including operating temperature, using auxiliary fuel or other means as described in Attachment ____.

- At steady state conditions, operating temperature will be maintained at no less than ____OC and no greater than ___OC.
- Waste feed rate, measured as specified in condition VII.E, shall not exceed ____kg/hour.
- Process operating pressure, measured as specified in condition VII.E, shall not exceed _____ atmosphere.

[The above three conditions apply primarily to thermal treatment processes that are closed systems (i.e., those not having stacks for exhaust gas). Such systems include distillation and evaporation. Additional process operating conditions could be specified if the permit writer determines that further constraints are necessary to assure protection of human health and the environment.]

E. OPERATING CONDITIONS [For Open Burning Of Waste Explosives]

The Permittee shall openly burn or detonate waste explosives in accordance with the requirements of 25 Pa. Code 575.265(x)(6) and 25 Pa. Code 575.265(x)(7) and the plans and specifications in Attachment ____.

F. MONITORING

The Permittee shall monitor the thermal treatment facility and record the data as specified below:

		Frequency of	Frequency	Frequency of	Recording
System	Purpose	Monitoring	of Testing	Calibration	Method

[At a minimum, system operating temperature must be monitored at least every 15 minutes. In addition, if an emission control device is present, then its operating characteristics (e.g., scrubber recirculation flow rate, make-up water rate, pressure drop, temperature, precipitator voltage and amperage draw) must also be monitored at least every 15 minutes. Waste feed rate, auxiliary fuel feed rate, relevant process flow rates and level indicators must also be monitored at least every 15 minutes accord- ing to 25 Pa. Code §75.265(x)(4)(i).

Where applicable, the stack plume must be observed visually at least once each hour for color and opacity. 25 Pa. Code \$75.265(x)(4)(ii) requires that the Permittee take any corrective actions necessary to correct apparent emissions from the stack and adjust the plume to its normal

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appearance.]

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PART VIII - WASTE PILES*

[This part is applicable to waste piles closed in accordance with 25 Pa. Code \$75.264(t)(33). All wastes and contaminated materials are removed or decontaminated at closure.]

A. WASTE IDENTIFICATION

The Permittee may store the following hazardous wastes in waste piles, subject to the terms of this permit:

B. DURATION OF STORAGE

The Permittee shall not store hazardous waste in the waste pile at this facility in excess of one year. [See note after condition IV.B. regarding establishment of longer storage periods.]

 The Permittee shall design, construct, and install a liner in accordance with the requirements of 25 Pa. Code §75.264(t)(4)(ii), as specified in the attached plans and specifications, Attachment ____.

[This condition does not apply to any waste pile that is inside or under a structure that provides protection from precipitation so that neither run-off nor leachate is generated, as stipulated by 25 Pa. Code §75.264(t)(3)(D). The attached plans and specifications must demonstrate compliance with 25 Pa. Code §75.264(t)(4)(ii). The liner must be constructed of materials that do not allow waste to migrate into the adjacent subsurface soil or groundwater or surface water during the active life of the facility.]

- 2. The Permittee shall provide a liner system with an effective life equal to or greater than the life of the pile.
- 3. The Permittee shall protect the liner system from plant growth, as required by 25 Pa. Code \$75.264(t)(6).
- 4. The Permittee shall operate and maintain a subbase underlying the liners, as required by 25 Pa. Code §75.264(t)(4)(v).

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- 5. The Permittee shall maintain, for all waste piles, a minimum distance of 20 inches between the top of the subbase and seasonal high groundwater table, as required by 25 Pa. Code §75.264(t)(7).
- 6. The Permittee shall design, construct, operate, and maintain a leachate collection and removal system according to the plans and specifications in Attachment _____ so that no standing liquids accumulate.
- 7. The Permittee shall operate and maintain a surface water run-off control system, as required by 25 Pa. Code \$75.264(t)(8) and as specified in Attachment ____.
- 8. The Permittee shall design, construct, operate, and maintain a conveyance system and storage system for conveying and storing the leachate from the leachate and run-off collection system, as required by 25 Pa. Code §75.264(t)(9) and as specified in Attachment ____.
- 9. The Permittee shall operate and maintain a run-on control system, as required by 25 Pa. Code \$75.264(t)(13) and as specified in Attachment _____.
- 10. The Permittee shall operate and maintain collection and holding facilities associated with run-on and run-off control systems, as required by 25 Pa. Code \$75.264(t)(14) and as specified in Attachment _

11. The Permittee shall provide surface water management measures that conform to the provisions of Title 25, Chapter 102, Erosion Control Rules and Regulations and use the methods specified in Attachment _____.

[The permit writer may specify more stringent measures.]

- 12. The Permittee shall design, construct, operate, and maintain the site in a manner which prevents or minimizes surface water percolation into the hazardous waste deposits, as specified in Attachment ____.
- 13. The Permittee shall operate and maintain the waste pile so that, at all times, the pile remains at least 5 feet from the outer edge of the liner.
- 14. The Permittee shall cover or otherwise manage the pile to control wind dispersal or particulate matter, as required by 25 Pa. Code \$75.264(t)(19) using the methods specified in Attachment ____.

[This condition only applies to waste piles containing particulate matter which may be subject to wind dispersal. The Attachment should incorporate plans or other drawings and specify methods used to insure satisfaction of 25 Pa. Code \$75.264(t)(19) requirements.]

D. EXEMPTION FROM GROUNDWATER PROTECTION REQUIREMENTS

[Note: A permittee who satisfies the conditions outlined in 25 Pa. Code \$75.264(t)(3)(ii) or (3)(iii) is not subject to regulation under 25 Pa. Code \$75.264(n). In addition, a Permittee satisfying 25 Pa. Code \$75.264(t)(3)(i) (i.e., the waste pile is inside or under a structure that provides protection from precipitation) is exempt from 25 Pa. Code \$75.264(n). Such exemptions should be documented in the administrative record. The permit should specify all design and operating practices that are necessary to insure that the applicable requirements are met if an exemption is granted.]

[If 25 Pa. Code §75.264(t)(3)(ii) is applicable, consider use of the following permit language:]

[If 25 Pa. Code \$75.264(t)(3)(ii) is applicable and a detection monitoring program under 25 Pa. Code \$75.264(n)(4) has <u>not</u> been established . . .)

2. If liquid leaks into the leak detection system, the Permittee must

notify the Department within 7 days. The Permittee must remove accumulated liquid, repair or replace the liner which is leaking, and provide certification from a registered professional engineer that the leak is fixed within _____ days of its detection.

[If 25 Pa. Code \$75.264(t)(3)(iii) is applicable and a detection monitoring program under 25 Pa. Code \$75.264(n)(4) has been established . . .]

3. The Permittee must begin to comply with the detection monitoring permit conditions within _____ days of detecting liquid in the leak detection system.

[If 25 Pa. Code §75.264(t)(3)(iii) is applicable, consider use of the following permit language:]

- The Permittee shall design, construct, operate, and maintain the waste pile with a liner system meeting the requirements of 25 Pa. Code \$75.264(t)(3)(iii) and according to the plans and specifications incorporated in Attachment ____.
- 2. The Permittee shall remove wastes from the pile once every [specify time period] and inspect the liner for deterioration, cracks, or other conditions that may result in leaks.

3. The Permittee shall install a leachate collection system above the

liner that meets the requirements of 25 Pa. Code \$75.264(t)(4)(i) in accordance with the plans and specifications incorporated in Attachment

[If 25 Pa. Code \$75.264(t)(3)(iii) is applicable and a detection monitoring program under 25 Pa. Code \$75.264(n)(4) has not been established . . .]

4. If liquid leaks into the leak detection system, the Permittee must notify the Department within 7 days. The Permittee must remove accumulated liquid, repair or replace the liner which is leaking, and provide certification that the leak is fixed within ____ days of its detection.

[If 25 Pa. Code \$75.264(t)(3)(iii) is applicable and a detection monitoring program under 25 Pa. Code \$75.264(n)(4) has been established . . .]

5. The Permittee must begin to comply with the detection monitoring permit conditions within _____ days of detecting liquid in the leak detec- tion system.

[If 25 Pa. Code §75.264(t)(3)(i) is applicable:]

1. The Permittee shall design and construct the waste pile to be inside or under a protective structure which prevents generation of run-off or leachate or surface water run-on, controls dispersal of wastes by wind, and is underlined by an impermeable membrane as required by 25 Pa. Code \$75.264(t)(3)(i) and as specified in the attached plans and specifications, Attachment

2. The Permittee shall not store liquids or materials containing free liquids in the pile. Further, no wastes shall be placed in the pile if leachate would be generated as a result of decomposition or other reactions.

E. EMERGENCY REPAIRS; CONTINGENCY PLAN

- The Permittee shall inspect the liner system in accordance with the Waste Pile Evaluation and Repair (WPER) Plan whenever there is any indication of a possible failure as required by 25 Pa. Code §75.264(t)(22).
- 2. Whenever there is evidence of a failure of the liner system, including evidence of liquid in the leak detection system, deterioration, cracking or other condition that is or could cause leaking, the Permittee shall remove the waste pile from service as required by 25 Pa. Code \$75.264(t)(23). The Permittee also shall immediately implement the procedures required by 25 Pa. Code \$75.264(t)(24) and specified in the PPC Plan, Attachment ___.

- 3. Prior to restoring it to service, the Permittee shall repair the liner system and obtain a certification from a registered professional engineer that it meets the design specifications approved in this permit, as required by 25 Pa. Code §75.264(t)(25).
- 4. If a waste pile has been removed from service due to liner system failure, and it is not to be repaired and restored to service, the Permittee shall close it as required by 25 Pa. Code §75.264(t)(26).

F. ACCESS ROADS

The Permittee shall construct and/or maintain access roads in accordance with 25 Pa. Code §75.264(t)(29) and as specified in the plans and specifications of Attachment ____.

G. BUFFER ZONE

The Permittee shall establish and maintain a buffer zone of 50 feet between the property line and the permitted facility within which no solid waste treatment, storage, or disposal activities shall occur.

H. EQUIPMENT

1. The Permittee shall maintain waste pile operating equipment in oper-

able condition and adequate in size and performance capability to assure that the facility operation will not be interrupted during normal working periods and that the facility operation is in accordance with this permit.

2. The Permittee shall maintain standby equipment on-site or readily available for use in the event of a major equipment breakdown.

[OPTIONS]

[For Facilities Which Handle Ignitable or Reactive Wastes] SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTE

 The Permittee shall not place ignitable or reactive waste in a waste pile unless the procedures described in Attachment _____ are followed, as required by 25 Pa. Code \$75.264(t)(36).

[The Attachment must demonstrate how the facility will handle or treat ignitable and reactive wastes and protect such wastes from ignition, as required by 25 Pa. Code §75.264(t)(36). If the application does not address this, the permit writer should write specific conditions to implement this provision or should condition the permit to prohibit this practice.]

2. The Permittee shall document compliance with the above permit condi-

tion as required by 25 Pa. Code \$75.264(g)(3) and place this documentation in the operating record.

[For Facilities Which Handle Incompatible Wastes] SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES

 The Permittee shall not place incompatible wastes or incompatible wastes and materials in the same waste pile unless the procedures specified in Attachment _____ are followed to meet the requirements of 25 Pa. Code \$75.264(g)(2), as required by 25 Pa. Code \$75.264(t)(37). Further, waste shall be separated from any nearby incompatible material as required by 25 Pa. Code \$75.264(t)(37) and (t)(38).

[The Attachment must specify how the Permittee will handle incompatible wastes to comply with 25 Pa. Code §75.264(g)(2), namely, to implement precautions to prevent generation of heat, production of toxic fumes, production of flammable fumes, damage to the facility, or any threat to human health and the

environment. If the application does not address this, the permit writer should write specific conditions to implement this provision or should condition the permit to prohibit placement of incompatible wastes in the waste pile.]

2. The Permittee shall document compliance with the above permit condition as required by 25 Pa. Code §75.264(g)(3) and place this documentation in the operating record. 3. The Permittee shall not place hazardous wastes on the same waste pile base where incompatible wastes or materials were previously piled, as required by 25 Pa. Code §75.264(t)(38).

[As Appropriate]

DOUBLE LINER SYSTEMS

- The Permittee shall design, construct, operate, and maintain a secondary liner, as required by 25 Pa. Code \$75.264(t)(4)(iii) and as specified in Attachment _____.
- The Permittee shall design, construct, operate, and maintain a leak detection system between the liners, as required by 25 Pa. Code §75.264(t)(4)(iv) and as specified in Attachment ____.

[As Appropriate]

TREATMENT FACILITIES RECEIVING LEACHATE AND RUN-OFF FOR STORAGE

 The Permittee shall design, construct, operate, and maintain the treatment facilities for receiving leachate and run-off from storage, as specified in Attachment . The Permittee shall maintain a treatment facility flow rate of ______
 gallons per day for each acre of active area.

[The regulations require a minimim design flow rate of 15,000 gallons per day for each acre of active area. The permit writer should establish an actual flow rate of at least 15,000 gallons per day unless the permit application demonstrates that a lesser rate is sufficient. The basis for the flow rate established in the permit must be documented in the administrative record.]

3. The Permittee shall operate and maintain treatment facilities that are compatible with and capable of treating the waste constituents expected to be present in the leachate and run-off, and the anticipated volumes of waste.

[As Appropriate]

SPECIAL REQUIREMENTS FOR WIND DISPERSAL CONTROL MECHANISMS

The Permitte shall operate and maintain the facility to control wind dispersal in the following manner:

(Insert, as appropriate, special requirements for wind dispersal control that are in addition to condition VIII.B.14.)

[For Facilities Which Handle Waste From Off-site]

WEIGHING AND MEASURING FACILITIES

The Permittee shall provide, operate, and maintain weighing or measuring facilities, as required by 25 Pa. Code \$75.264(t)(27).

[For Facilities Which Handle Waste From Off-site] HOURS OF OPERATION

The Permittee shall maintain a sign displaying the hours of operation at the entrance to the facility. The lettering shall be a minimum of 4 inches in height and of a color contrasting with the background.

[For New or Modified Facilities]

CONSTRUCTION AND INSTALLATION

- The Permittee shall inspect the liner system for uniformity, damage, and imperfections during construction or installation. Manufactured liner materials (such as membranes, sheets, and coatings) shall be inspected to ensure tight seams and joints and the absence of tears or blisters.
- The Permittee shall use best engineering construction practices during all phases of installation and construction.

- 3. The Permittee shall use quality control measures and tests, as required by 25 Pa. Code \$75.264(t)(16) and as specified in Attachment ____.
- 4. The Permittee shall obtain a written certification from a registered professional engineer for each phase of installation or construction, as required by 25 Pa. Code \$75.264(t)(17). Each certification shall be submitted to the Department in accordance with the construction schedule, condition VIII.__.5.
- 5. The Permittee shall construct or install the waste pile in accordance with the following schedule:

(Insert construction schedule, including interim dates and reporting requirements)

[As Appropriate]

VECTOR, ODOR, AND NOISE CONTROL

The Permittee shall carry out vector, odor, and/or noise control procedures, as required by 25 Pa. Code \$75.264(t)(39) and the Vector, Odor, and Noise Control Plan in Attachment ____.

[As Appropriate]

UNLOADING AREAS

The Permittee shall operate and maintain unloading areas, as specified in Attachment ____. Unloading areas shall permit vehicles to unload promptly.

[As Appropriate]

DUST CONTROL

The Permittee shall prevent dust from hampering site operations or from causing health or safety hazards and nuisances, as specified in Attachment _____.

[As Appropriate]

The Permittee shall minimize or eliminate the tracking of waste within or outside the site, as required by 25 Pa. Code \$75.264(t)(44) and specified in Attachment ____.

PART IX - LANDFILLS

A. WASTE IDENTIFICATION

The Permittee may dispose of the following hazardous wastes in landfill units at the facility, subject to the terms of this permit:

[If the application defines the universe of hazardous wastes to be disposed in the landfill as all regulated hazardous wastes or the majority of the regulated wastes, then attach the list to the permit. If the application defines the universe of hazardous wastes as a smaller group of wastes (i.e., up to 25 wastes), then identify the wastes in condition IX.A using the following format:

Hazardous Waste Code

Description

The permit writer can also specify the types of wastes to be placed in each landfill cell. This is particularly relevant when the facility will be handling incompatible wastes by segregating them into designated cells. The format used in condition III.D for container placement can be used for this purpose.]

B. DESIGN AND OPERATING REQUIREMENTS

 The Permittee shall design, construct, and install a liner system in accordance with the requirements of 25 Pa. Code \$75.264(v)(3)(xiv), as specified in the attached plans and specifications, Attachment.

[The attached plans and specifications must demonstrate compliance with 25 Pa. Code \$75.264(v)(3)(xiv). The liner must be constructed of materials that prevent wastes from passing into it during the active life of the facility.]

2. The Permittee shall maintain a minimum distance of 4 feet between the top of the subbase and any seasonal high water table and a minimum distance of 8 feet between the top of the subbase and the groundwater table, as required by 25 Pa. Code §75.264(v)(3)(xv).

- 3. The Permittee shall maintain liners, caps*, and liner and cover* systems in a manner such that the outer perimeter is well protected and well marked through all stages of construction, closure, and final closure.
- 5. The Permittee shall design, construct, operate, and maintain leachate detection zone tanks, as required by 25 Pa. Code §75.264(v)(3)(xix) and as specified in the attached plans and specifications, Attachment ____.
- 6. The Permittee shall manage surface water on the site, as required by 25 Pa. Code §75.264(v)(3)(vii) and as specified in the plans and specifications, Attachment ____.
- 7. The Permittee shall manage surface water run-off, as required by 25 Pa. Code §75.264(v)(3)(viii) and as specified in the attached plans and specifications, Attachment ___.
- The Permittee shall control run-on, as required by 25 Pa. Code
 §75.264(v)(3)(ix) and as specified in the attached plans and speci-

fications, Attachment ____.

- 9. The Permittee shall design, construct, operate, and maintain the site in a manner which prevents or minimizes surface water percolation into hazardous waste deposits, as required by 25 Pa. Code \$75.264(v)(4)(vii) and as specified in the plans and specifications, Attachment ____.
- 10. The Permittee shall assure that hazardous waste in landfills shall be capable of withstanding anticipated static and dynamic loadings with a minimum factor of safety of 1.5.
- 11. The Permittee shall operate and maintain compacting equipment to spread and compact waste in shallow layers, as required by 25 Pa. Code §75.264(v)(4)(x). Individual layers shall not exceed 2 feet.

[The permit writer may specify a greater depth than two feet. The basis for allowing a greater depth should be documented in the administrative record.]

12. The Permittee shall cover or otherwise manage the landfill to control wind dispersal of particulate matter, as required by 25 Pa. Code \$75.264(v)(4)(i) and as specified in Attachment ____.

[This condition applies if the landfill will contain particulate matter

and a start to start the start and a start of the start o

which may be subject to wind dispersal. The Attachment should specify the methods to be used.]

C. MUNICIPAL WASTE

The Permittee shall not [may] co-dispose hazardous waste with municipal waste. [The permit writer may allow co-disposal. The basis for allowing co-disposal should be documented in the administrative record.]

D. LIQUID WASTE

The Permittee shall not place liquid waste or waste containing free liquids into the landfill. Any hazardous waste to be disposed of in the landfill shall have greater than 20% solids content by dry weight and shall not be flowable.

E. SPECIAL REQUIREMENTS FOR CONTAINERS

The Permittee shall ensure that all empty containers are crushed flat, shredded, or similarly reduced in volume before burial in the landfill. Otherwise, a container shall be least 90 percent full before it is buried in the landfill.

F. BURNING OF SOLID WASTE

The Permittee shall not burn solid waste in the hazardous waste landfill.

G. ACCESS ROADS

The Permittee shall construct and/or maintain access roads, as required by 25 Pa. Code \$75.264(v)(3)(i) and as specified in the attached plans and specifications, Attachment ____.

H. BUFFER ZONES

- The Permittee shall establish and maintain a minimum buffer zone of 50 feet between the property line and the permitted facility within which no solid waste treatment, storage, or disposal activity shall occur.
- The Permittee shall not construct or place a building or structure within 25 feet of the disposal area.

[If buildings or structures are necessary to conduct monitoring and testing, the permit writer should substitute the following condition for condition IX.H.2: "The Permittee may construct or place the following buildings or structures within 25 feet of the disposal area:"]

3. The Permittee shall not place waste within 3 feet of the effective edge of the liner.

- 1. The Permittee shall maintain landfill operating equipment in operable condition and adequate in size and performance capability to assure that the facility operation will not be interrupted during normal working periods, and that the facility operation is in accordance with this permit.
- 2. The Permittee shall maintain standby equipment on-site or readily available for use in the event of major equipment breakdown.

[OPTIONS]

[For Facilities Which Handle Ignitable or Reactive Wastes] SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTES*

 The Permittee shall not place ignitable or reactive waste in a landfill unless the procedures described in Attachment _____ are followed, as required by 25 Pa. Code \$75.264(v)(4)(iii).

[The Attachment must demonstrate how the facility will handle ignitable and reactive wastes. Any such wastes must be rendered non-ignitable or non-reactive before or immediately after disposal. If the application does not address this, the permit writer should write specific conditions to implement this provision or should condition the permit so as not to allow this practice.]

2. The Permittee shall document in the operating record compliance with the above condition as required by 25 Pa. Code §75.264(g)(3).

[For Facilities Which Handle Incompatible Wastes]

SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES

 The Permittee shall not place incompatible wastes, or incompatible wastes and materials, in the same landfill cell unless the procedures specified in Attachment _____ are followed, as required by 25 Pa. Code §75.264(v)(4)(ii).

[The Attachment must specify how the Permittee will handle incompatible wastes so as to comply with 25 Pa. Code \$75.264(g)(2). If the application does not address this, the permit writer should write specific conditions to implement this provision or should condition the permit so as not to allow this practice.]

2. The Permittee shall document compliance with the above condition and place this documentation in the operating record.

[For Facilities Which Handle Wastes From Off-site]

EPA ARCHIVE DOCUMENT

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EPA ARCHIVE DOCUMENT

WEIGHING OR MEASURING FACILITIES

The Permittee shall provide, operate, and maintain weighing or measuring facilities, as required by 25 Pa. Code \$75.264(v)(3)(ii).

[For Facilities Which Handle Wastes From Off-site]

HOURS OF OPERATION

The Permittee shall maintain a sign displaying the hours of operation at the entrance to the facility. The lettering shall be a minimum of 4 inches in height and of a color contrasting with its background.

[For New or Modified Facilities]

MIGRATION OF LEACHATE INTO NEW FACILITIES

The Permittee shall design, construct, operate, and maintain the landfill in a manner that precludes any leachate from existing unlined landfill disposal areas from entering into the new, lined landfill disposal areas, as required by 25 Pa. Code \$75.264(v)(4)(xvii) and the attached plans and specifications, Attachment .

[For New or Modified Facilities]

CONSTRUCTION AND INSTALLATION

- The Permittee shall use best engineering construction practices during all phases of installation and construction.
- 2. The Permittee shall use the quality control measures and tests specified in Attachment _____ to ensure that installation and construction conforms to the design materials and construction specifications approved in this permit.
- 3. The Permittee shall obtain a written certification from a registered professional engineer for each phase of installation or construction, as required by 25 Pa. Code §75.264(v)(3)(xxii). Each certification shall be submitted to the Department in accordance with the construction schedule, condition IX.__.4.
- 4. The Permittee shall construct or install the landfill (cell) in accordance with the following schedule:

(Insert construction schedule, including interim dates and reporting requirements) [As Appropriate]

TREATMENT FACILITIES FOR LEACHATE AND RUN-OFF

- 1. The Permittee shall design, construct, operate, and maintain treatment facilities to receive the leachate and run-off from storage, as required by 25 Pa. Code §75.264(v)(3)(xxii) and as specified in the plans and specifications, Attachment ____.
- The Permittee shall maintain a treatment facility flow rate of ______
 gallons per day for each acre of active area.

[The regulations require a minimum design flow rate of 15,000 gallons per day for each acre of active area. The permit writer should establish an actual flow rate of at least 15,000 gallons per day unless the permit application demonstrates that a lesser rate is sufficient. The basis for the flow rate established in the permit must be documented in the administrative record.]

[As Appropriate]

DAILY AND INTERMEDIATE COVER

 The Permittee shall provide daily and intermediate cover, as required by 25 Pa. Code §75.264(v)(3)(x) and as specified in Attachment . 2. The Permittee shall provide daily cover consisting of a minimum, uniform 6-inch compacted layer and an intermediate cover of a minimum, uniform 12-inch graded and compacted layer.

[As Appropriate]

FINAL GRADES

The Permittee shall, for final surface grades of the fill area, provide a slope of not less than 2.0 percent but not exceeding 15 percent.

[The permit writer may establish greater slopes, up to 25 percent. The basis for a slope in excess of 15% must be documented in the administrative record. When the permit allows a slope of between 15 and 25 percent, it must also specify terrace requirements. Use the following condition:

"The Permittee shall construct terraces as required by 25 Pa. Code \$75.264(v)(3)(vi) and as specified in the plans and specifications, Attachment ____."]

[As Appropriate]

GAS VENTING SYSTEMS

The Permittee shall design, construct, operate, and maintain a gas venting and monitoring system, as required by 25 Pa. Code \$75.264(v)(3)(xii) and as
specified in the plans and specifications, Attachment

[As Appropriate]

VECTOR, ODOR, AND NOISE CONTROL

The Permittee shall carry out vector, odor, and/or noise control procedures, as required by 25 Pa. Code \$75.264(v)(4)(vii) and the Vector, Odor, and Noise Control Plan, Attachment ____.

[As Appropriate]

UNLOADING AREAS

- The Permittee shall maintain unloading areas, restricted to the proximity of the working face, to permit vehicles to unload promptly.
- 2. The Permittee shall provide an attendant or clearly marked, prominently located signs to direct vehicles to the unloading area.

[As Appropriate]

DUST CONTROL

The Permittee shall prevent dust from hampering site operations or from causing health or safety hazards or nuisances.

EPA ARCHIVE DOCUMENT

[As Appropriate]

LITTER CONTROL

The Permittee shall provide portable litter control fences, as required by 25 Pa. Code 575.264(v)(4)(xvi) and as specified in Attachment ____.

[As Appropriate]

APPLICATION OF LEACHATE

The Permittee shall not [may] apply leachate or run-off to the landfill. [The permit writer may allow the permittee to apply leachate or run-off to the landfill. The permit condition should refer to an attached plan or procedures for such application.]

[As Appropriate]

WASTE TRACKING

The Permittee shall minimize or eliminate the tracking of waste within or outside the site, as required by 25 Pa. Code \$75.264(v)(4)(xvii).

PART X - STORAGE AND TREATMENT SURFACE IMPOUNDMENTS

[This Part covers surface impoundments closed in accordance with 25 Pa. Code \$75.264(s)(3)(xxxi). Conditions which apply to surface impoundments closed in accordance with 25 Pa. Code \$75.264(s)(3)(xxx) are specified in Part XI, Disposal Surface Impoundments.]

A. WASTE IDENTIFICATION

The Permittee may store/treat the following hazardous wastes in surface impoundments, subject to the terms of this permit:

B. DURATION OF STORAGE

The Permittee shall not store hazardous waste in the surface impoundment(s) at this facility in excess of one year. [See note after condition IV.B. regarding establishment of longer storage periods.]

C. DESIGN AND OPERATING REQUIREMENTS

- The Permittee shall design, construct, and install a liner in accordance with the requirements of 25 Pa. Code §75.264(s)(3)(xvii), as specified in the attached plans and specifications, Attachment ____.
- 2. The Permittee shall maintain a minimum distance of 4 feet between the subbase and any seasonal high water table and 8 feet between the subbase and groundwater, as required by 25 Pa. Code §75.264(s)(3)(xxii).
- 3. The Permittee shall clearly mark and protect the outer perimeter of all liner and liner systems through all stages of construction, closure, and final closure.
- 4. The Permittee shall design, construct, maintain, and operate the surface impoundment to prevent overtopping, as required by 25 Pa. Code §75.264(s)(3)(i), by the methods specified in Attachment ___.

[The Attachment should specify all design and operating practices that are necessary to ensure that the requirements of 25 Pa. Code \$75.264(s)(3)(i) are satisfied.]

5. The Permittee shall design the impoundment so that any flow of waste into the impoundment can be immediately shut off in the event of overtopping or liner failure.

- 6. The Permittee shall obtain certification from a registered professional engineer that the impoundment's dike has structrual integrity as required by 25 Pa. Code §75.264(s)(3)(xxxii.)*
- 7. The Permittee shall, for all dikes and berms, maintain outside slopes that do not exceed 33 percent.

[The permit write may approve greater than 33 percent slopes. The basis for allowing greater slopes must be specified in the administrative record.]

- 8. The Permittee shall design, construct, operate and maintain leachate collection zone tanks as required by 25 Pa. Code §75.264(s)(3)(xxv) and as specified in the plans and specifications, Attachment ____.
- 9. The Permittee shall manage surface water on the sites as required by 25 Pa. Code §75.264(s)(3)(viii) and as specified in the plans and specifications in Attachment ____.
- 10. The Permittee shall control run-on, as required by 25 Pa. Code §75.264(s)(3)(ix) and as specified in the plans and specifications in Attachment ____.

11. The Permittee shall design, construct, operate, and maintain the site

in a manner which prevents or minimizes surface water percolation into the hazardous waste deposit, as required by 25 Pa. Code \$75.264(s)(4)(xv) and as specified in Attachment ____.

D. EMERGENCY REPAIRS; CONTINGENCY PLAN

- The Permittee shall inspect the impoundment in accordance with the Surface Impoundment Evaluation and Repair (SIER) Plan whenever there is any indication of a possible failure as required by 25 Pa. Code \$75.264(s)(4)(vii).
- 2. Whenever there is evidence of failure of the impoundment, the Permittee shall remove the impoundment from service as required by 25 Pa. Code §75.264(s)(4)(viii) and immediately implement the procedures required by 25 Pa. Code §75.264(s)(4)(ix) and specified in the PPC Plan, Attachment ____.
- 3. Prior to restoring it to service, the Permittee shall repair any impoundment removed from service and obtain a certification from a registered professional engineer that it meets the design specifications approved in this permit, as required by 25 Pa. Code §75.264(s)(4)(xi).

4. If a surface impoundment has been removed from service due to failure,

and the impoundment is not to be restored to service, the Permittee shall close it as required by 25 Pa. Code §75.264(s)(4)(xii).

E. ACCESS ROADS

The Permittee shall construct and/or maintain access roads, as required by 25 Pa. Code \$75.264(s)(3)(iii) and as specified in the attached plans and specifications, Attachment ____.

F. BUFFER ZONES

- The Permittee shall establish and maintain a buffer zone of 50 feet between the property line and the permitted facility within which no solid waste treatment, storage, or disposal activities shall occur.
- 2. The Permittee shall not construct or place a building or structure within 25 feet of the surface impoundment.

[If buildings or structures are necessary to conduct monitoring and testing, the permit writer should substitute the following condition: "The Permittee may construct or place the following buildings or structures within 25 feet of the surface impoundment:".]

G. EQUIPMENT

- EPA ARCHIVE DOCUMENT
- 1. The Permittee shall maintain impoundment operating equipment in operable condition and adequate in size and performance capability to assure that the facility operation will not be interrupted during normal working periods and that the facility operation is in accordance with this permit.
- 2. The Permittee shall maintain standby equipment on-site or readily available for use in the event of a major equipment breakdown.

[OPTIONS]

[For Facilities Which Handle Ignitable or Reactive Wastes] SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTES

1. The Permittee shall not place ignitable or reactive waste in a surface impoundment unless the procedures described in Attachment ______ are followed, as required by 25 Pa. Code §75.264(s)(4)(iv).

[The Attachment must demonstrate how the facility will handle ignitable and reactive wastes as required by 25 Pa. Code \$75.264(s)(4)(iv). If the application does not address this, the permit writer should write specific conditions to implement this provision or should condition the permit so as not to allow this practice.] **US EPA ARCHIVE DOCUMENT**

2. The Permittee shall document compliance with the above condition as required by 25 Pa. Code \$75.264(g)(3) and place this documentation in the operating record.

[For Facilities Which Handle Incompatible Wastes] SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES

 The Permittee shall not place incompatible wastes, or incompatible wastes and materials, in the same surface impoundment unless the procedures specified in Attachment _____ are followed, as required by 25 Pa. Code §75.264(s)(4)(v).

[The Attachment must specify how the Permittee will handle incompatible wastes so as to comply with 25 Pa. Code \$75.264(g)(2). If the application does not address this, the permit writer should write specific conditions to implement this provision or should condition the permit so as not to allow this practice.]

The Permittee shall document compliance as required by 25 Pa. Code
§75.264(g)(3) and place this documentation in the operating record.

[For Facilities Which Treat Varying Types of Waste]

WASTE ANALYSIS

The Permittee shall conduct waste analyses trial treatment tests, or obtain written, documented information as required by 25 Pa. Code §75.264(s)(4)(i) and the Waste Analysis Plan, Attachment ____, before chemically treating a hazardous waste which is substantially different from waste previously treated in the impoundment or before chemically treating hazardous wastes with a substantially different process than previously used in the impoundment. The analyses, tests, and information shall be placed in the operating record.

[For Facilities Which Test Wastes] TREATMENT OF WASTES

The Permittee shall conduct all treatment operations in accordance with the procedures outlined in Attachment ____.

[For Facilities Which Handle Wastes From Off-site] WEIGHING OR MEASURING FACILITIES

The Permittee shall provide, maintain, and operate weighing or measuring facilities, as required by 25 Pa. Code \$75.264(s)(3)(iv).

[For Facilities Which Handle Waste From Off-site]

HOURS OF OPERATION

The Permittee shall maintain a sign displaying the hours of operation at the entrance to the facility. The lettering shall be a minimum of 4 inches in height and of a color contrasting with its background.

[For New or Modified Facilities] CONSTRUCTION AND INSTALLATION

- The Permittee shall install and construct liner systems in conformance with the manufacturer's specifications.
- 2. The Permittee shall inspect liner systems and cover systems for uniformity, damage, and imperfections during and after construction and installation, as required by 25 Pa. Code §75.264(s)(3)(xxi). [Earth material liner systems shall be inspected for imperfections including lenses, cracks, channels, root holes, or other structrual non-uniformities and shall be tested for compaction density, moisture content, and permeability after placement.] [Manufactured liner materials shall be inspected to ensure tight seams and joints and the absence of tears or blisters.]*
- 3. The Permittee shall use best engineering construction practices during all phases of installation and construction.

4. The Permittee shall use the quality control measures and tests speci-

fied in Attachment _____ to ensure that installation and construction conforms to the design materials and construction specifications approved in this permit.

- 5. The Permittee shall obtain a written certification from a registered professional engineer for each phase of installation or construction, as required by 25 Pa. Code §75.264(s)(xxviii). Each certification shall be submitted to the Department in accordance with the construction schedule, condition X.__.6.
- 6. The Permittee shall construct or install the impoundment in accordance with the following schedule:

(Insert construction schedule, including interim dates and reporting requirements)

[As Appropriate]

EARTHEN DIKES

 The Permittee shall maintain cover on all earthen dikes, as required by 25 Pa. Code §75.264(s)(3)(ii) and as specified in Attachment ____.

2. The Permittee shall operate and maintain earthen dikes to be kept free

of plant root systems and burrowing mammals as required by 25 Pa. Code \$75.264(s)(4)(vi).

[As Appropriate]

DAILY AND INTERMEDIATE COVER

The Permittee shall provide a daily cover and intermediate cover, as required by 25 Pa. Code \$75.264(s)(3)(x) and as specified in Attachment ____.

[As Appropriate]

DAILY COVER

The Permittee shall provide a daily cover consisting of a minimum uniform 6inch compacted layer and a minimum 12-inch graded and compacted intermediate cover.

[As Appropriate]

GAS VENTING

The Permittee shall design, construct, operate, and maintain gas venting and gas monitoring systems, as required by 25 Pa. Code §75.264(s)(3)(xii) and as specified in the plans and specifications, Attachment ____.

[As Appropriate]

VECTOR, ODOR, AND NOISE CONTROL

The Permittee shall carry out vector, odor, and/or noise control procedures, as required by 25 Pa. Code \$75.264(s)(4)(xiv) and the Vector, Odor and Noise Control Plan, Attachment ____.

[As Appropriate]

UNLOADING AREAS

- 1. The Permittee shall maintain unloading areas to permit vehicles to unload promptly.
- 2. The Permittee shall provide an attendant or clearly marked, prominently located signs to direct vehicles to the unloading areas.

[As Appropriate]

DUST CONTROL

The Permittee shall prevent dust from hampering site operations or from causing health or safety hazards or nuisances.

[As Appropriate]

_ WASTE TRACKING

The Permittee shall minimize or eliminate the tracking of waste within or outside the site, as required by 25 Pa. Code \$75.264(s)(4)(xxi).

[As Appropriate]

WIND DISPERSAL

The Permittee shall cover or otherwise manage the surface impoundment to control wind dispersal of the hazardous waste as required by 25 Pa. Code \$75.264(s)(4)(xiii) and as specified in Attachment ____.

PART XI - DISPOSAL SURFACE IMPOUNDMENTS

[This Part covers surface impoundments closed in accordance with 25 Pa. Code \$75.264(s)(3)(xxx). Conditions which apply to surface impoundments closed in accordance with 25 Pa. Code \$75.264(s)(3)(xxxi) are specified in Part X, Storage Surface Impoundments.]

A. WASTE IDENTIFICATION

The Permittee may place the following hazardous wastes in surface impoundments, subject to the terms of this permit:

B. DESIGN AND OPERATING REQUIREMENTS

 The Permittee shall design, construct, and install a liner in accordance with the requirements of 25 Pa. Code §75.264(s)(3)(xvii), as specified in the attached plans and specifications, Attachment

- 2. The Permittee shall maintain a minimum distance of 4 feet between the subbase and any seasonal high water table and 8 feet between the subbase and groundwater, as required by 25 Pa. Code \$75.264(s)(3)(xxii).
- 3. The Permittee shall clearly mark and protect the outer perimeter of all liner and liner systems through all stages of construction, closure, and final closure.
- 4. The Permittee shall design, construct, maintain, and operate the surface impoundment to prevent overtopping, as required by 25 Pa. Code §75.264(s)(3)(i), by the methods specified in Attachment ____.

[The Attachment should specify all design and operating practices that are necessary to ensure that the requirements of 25 Pa. Code §75.264(s)(3)(i) are satisfied.]

- 5. The Permittee shall design the impoundment so that any flow of waste into the impoundment can be immediately shut off in the event of overtopping or liner failure.
- 6. The Permittee shall obtain certification from a registered professional engineer that the impoundment's dike has structural integrity as required by 25 Pa. Code §75.264(s)(3)(xxxii). *

- 7. The Permittee shall design, construct, operate, and maintain a conveyance system and storage system for the leachate from the leachate collection zone and run-off, as required by 25 Pa. Code §75.264(s)(3)(xxiv) and as specified in Attachment ____.
- 8. The Permittee shall design, construct, operate, and maintain treatment facilities to receive the leachate and run-off from storage, as re-quired by 25 Pa. Code §75.264(s)(3)(xxix) and as specified in Attachment ___.
- 9. The Permittee shall design, construct, operate, and maintain leachate collection zone tanks, as required by 25 Pa. Code §75.264(s)(3)(xxv).
- 10. The Permittee shall, for final surface grades, provide a slope of not less than 2.0 percent but not exceeding 15 percent.

[The permit writer may establish greater slopes, up to 25 percent. The basis for a slope in excess of 15 percent must be documented in the administrative record. When the permit allows a slope of between 15 and 25 percent, it must also specify terrace requirements. Use the following condition: "The Permittee shall construct terraces as required by 25 Pa. Code \$75.264(s)(3)(vii) and as specified in the plans and specifications, Attachment ___."]

11. The Permittee shall assure that hazardous waste in surface impound-

EPA ARCHIVE DOCUMENT

ments shall be capable of withstanding anticipated static and dynamic loadings with a minimum factor of safety of 1.5.

12. The Permittee shall not construct dikes and berms with outside slopes in excess of 20 percent.

[The permit writer may approve slopes exceeding 20 percent. The basis for allowing greater slopes must be specified in the administrative record.]

- 13. The Permittee shall manage surface water on the site, as required by 25 Pa. Code §75.264(s)(3)(viii) and as specified in the plans and specifications in Attachment ____.
- 14. The Permittee shall control run-on, as required by 25 Pa. Code §75.264(s)(3)(ix) and as specified in the plans and specifications in Attachment ____.
- 15. The Permittee shall design, construct, operate, and maintain the site in a manner which prevents or minimizes surface water percolation into hazardous waste deposits, as required by 25 Pa. Code §75.264(s)(4)(xv) and as specified in Attachment ___.

C. EMERGENCY REPAIRS; CONTINGENCY PLAN

- The Permittee shall inspect the impoundment in accordance with the Surface Impoundment Evaluation and Repair (SIER) Plan whenever there is any indication of a possible failure as required by 25 Pa. Code \$75.264(s)(4)(vii).
- 2. Whenever there is evidence of failure of the impoundment, the Permittee shall remove the impoundment from service as required by 25 Pa. Code \$75.264(s)(4)(viii) and immediately implement the procedures required by 25 Pa. Code \$75.264(s)(4)(ix) and specified in the PPC Plan Attachment ____.
- 3. Prior to restoring it to service, the Permittee shall repair any impoundment removed from service and obtain a certification from a registered professional engineer that it meets the design specifications approved in this permit, as required by 25 Pa. Code §75.264(s)(4)(xi).
- 4. If a surface impoundment has been removed from service due to failure, and the impoundment is not to be restored to service, the Permittee shall close it as required by 25 Pa. Code §75.264(s)(4)(xii).

D. ACCESS ROADS

The Permittee shall construct and/or maintain access roads, as required by 25 Pa. Code \$75.264(s)(3)(iii) and as specified in the attached plans and

specifications, Attachment ____

E. BUFFER ZONES

- The Permittee shall establish and maintain a buffer zone of 50 feet between the property line and the permitted facility within which no solid waste treatment, storage, or disposal activities shall occur.
- 2. The Permittee shall not construct or place a building or structure within 25 feet of the surface impoundment.

[If buildings or structures are necessary to conduct monitoring and testing, the permit writer should substitute the following condition: "The Permittee may construct or place the following buildings or structures within 25 feet of the surface impoundment:".]

F. EQUIPMENT

- 1. The Permittee shall maintain impoundment operating equipment in operable condition and adequate in size and performance capability to assure that the facility operation will not be interrupted during normal working periods and that the facility operation is in accordance with this permit.
- 2. The Permittee shall maintain standby equipment on-site or readily

available for use in the event of a major equipment breakdown.

[OPTIONS]

[For Facilities Which Handle Ignitable or Reactive Wastes] SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTES

 The Permittee shall not place ignitable or reactive waste in a surface impoundment unless the procedures described in Attachment _____ are followed, as required by 25 Pa. Code §75.264(s)(4)(iv).

[The Attachment must demonstrate how the facility will handle ignitable and reactive wastes as required by 25 Pa. Code §75.264(s)(4)(iv). If the application does not address this, the permit writer should write specific conditions to implement this provision or should condition the permit so as not to allow this practice.]

2. The Permittee shall document compliance with the above condition as required by 25 Pa. Code §75.264(g)(3) and place this documentation in the operating record.

[For Facilities Which Handle Incompatible Wastes] SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES EPA ARCHIVE DOCUMENT

1. The Permittee shall not place incompatible wastes, or incompatible wastes and materials, in the same surface impoundment unless the procedures specified in Attachment _____ are followed, as required by 25 Pa. Code \$75.264(s)(4)(v).

[The Attachment must specify how the Permittee will handle incompatible wastes so as to comply with 25 Pa. Code \$75.264(g)(2). If the application does not address this, the permit writer should write specific conditions to implement this provision or should condition the permit so as not to allow this practice.]

2. The Permittee shall document compliance with the above condition as required by 25 Pa. Code §75.264(g)(3) and place this documentation in the operating record.

[For Facilities Which Treat Varying Types of Waste] WASTE ANALYSIS

The Permittee shall conduct waste analyses and trial treatment tests, or obtain written, documented information as required by 25 Pa. Code \$75.264(s)(4)(i) and the Waste Analysis Plan, Attachment ____, before chemically treating a hazardous waste which is substantially different from waste previously treated in the impoundment or before chemically treating hazardous wastes with a substantially different process than pre- viously used in the impoundment. The analyses, tests, and information shall be placed in the operating record.

[For Facilities Which Handle Wastes From Off-site]

WEIGHING OR MEASURING FACILITIES

The Permittee shall provide, maintain and operate weighing or measuring facilities, as required by 25 Pa. Code §75.264(s)(3)(iv).

[For Facilities Which Handle Waste From Off-site]

HOURS OF OPERATION

The Permittee shall maintain a sign displaying the hours of operation at the entrance to the facility. The lettering shall be a minimum of 4 inches in height and of a color contrasting with its background.

[For Facilities Which Handle Waste From Off-site]

CONSTRUCTION AND INSTALLATION

- The Permittee shall install and construct liner systems in conformance with the manufacturer's specifications.
- 2. The Permittee shall inspect liner systems for uniformity, damage, and imperfections during and after construction and installation, as required by 25 Pa. Code §75.264(s)(3)(xxi). [Earth material liner sys-

tems shall be inspected for imperfections including lenses, cracks, channels, root holes, or other structural non-uniformities and shall be tested for compaction density, moisture content, and permeability after placement.] [Manufactured liner materials shall be inspected to ensure tight seams and joints and the absence of tears or blisters.]*

- 3. The Permittee shall use best engineering construction practices during all phases of installation and construction.
- 4. The Permittee shall use the quality control measures and tests specified in Attachment _____ to ensure that installation and construction conforms to the design materials and construction specifications approved in this permit.
- 5. The Permittee shall obtain a written certification from a registered professional engineer for each phase of installation or construction, as required by 25 Pa. Code §75.264(s)(xxviii). Each certification shall be submitted to the Department in accordance with the construction schedule, condition X.__.6.
- 6. The Permittee shall construct or install the impoundment in accordance with the following schedule:

(Insert construction schedule, including interim dates and reporting requirements) EARTHEN DIKES

- The Permittee shall maintain a protective cover on all earthen dikes, as required by 25 Pa. Code §75.264(s)(3)(ii) and as specified in Attachment ____.
- 2. The Permittee shall operate and maintain earthen dikes to be kept free of plant root systems and burrowing mammals as required by 25 Pa. Code \$75.264(s)(4)(vi).

[As Appropriate]

DAILY AND INTERMEDIATE COVER

The Permittee shall provide a daily cover and intermediate cover, as required by 25 Pa. Code \$75.264(s)(3)(x) and as specified in Attachment _____.

[As Appropriate]

DAILY COVER

The Permittee shall provide a daily cover consisting of a minimum uniform 6-

inch compacted layer and a minimum 12-inch graded and compacted intermediate cover.

[As Appropriate]

GAS VENTING

The Permittee shall design, construct, operate, and maintain gas venting and gas monitoring systems, as required by 25 Pa. Code §75.264(s)(3)(xii) and as specified in the plans and specifications, Attachment ____.

[As Appropriate]

VECTOR, ODOR, AND NOISE CONTROL

The Permittee shall carry out vector, odor, and/or noise control procedures, as required by 25 Pa. Code \$75.264(s)(4)(xiv) and the Vector, Odor and Noise Control Plan, Attachment

[As Appropriate]

UNLOADING AREAS

 The Permittee shall maintain unloading areas to permit vehicles to unload promptly. 2. The Permittee shall provide an attendant or clearly marked, prominently located signs to direct vehicles to the unloading areas.

[As Appropriate]

DUST CONTROL

The Permittee shall prevent dust from hampering site operations or from causing health or safety hazards or nuisances.

[As Appropriate]

WASTE TRACKING

The Permittee shall minimize or eliminate the tracking of waste within or outside the site, as required by 25 Pa. Code \$75.264(s)(4)(xxi).

[As Appropriate]

WIND DISPERSAL

The Permittee shall cover or otherwise manage the surface impoundment to control wind dispersal of the hazardous waste as required by 25 Pa. Code \$75.264(s)(4)(xiii) and as specified in Attachment ____.

PART XII - LAND TREATMENT DEMONSTRATION*

[Before waste can be applied to a land treatment zone, the owner or operator

must demonstrate that hazardous constitutents in the waste can be completely degraded, transformed, or immobilized. If the owner or operator intends to conduct field tests or laboratory analyses to make this demonstration, he or she must obtain a treatment or disposal permit under 25 Pa. Code §75.265(z). This module provides an example of such a permit. Under some circumstances, as outlined in 25 Pa. Code §75.265(z), a two-phase permit covering both the demonstration and the design construction, operation, and maintenance of the land treatment unit may be issued instead.]

A. WASTE IDENTIFICATION

The Permittee shall conduct a land treatment demonstration in accordance with the requirements of 25 Pa. Code §75.264(u)(6)-(8) for the wastes listed in Attachment ____. Any field test or laboratory analysis conducted in order to make this demonstration must be likely to show that the hazardous constituents listed in Attachment ____ will be completely degraded, transformed or immobilized in the treatment zone of the existing or proposed land treatment unit.

[25 Pa. Code §75.264(u)(6) requires the Permittee to determine, prior to the application of the waste, whether the waste constituents can be completely degraded, transformed, or immobilized within the treatment zone.]

B. DEMONSTRATION DESIGN AND OPERATING REQUIREMENTS

The Permittee shall conduct the demonstration in accordance with the requirements of 25 Pa. Code §75.264(u)(8), as specified in the attached plans and specifications, Attachment ____.

[25 Pa. Code §75.264(u)(7) requires the permit to specify any design and operating requirements (including, in the case of field tests, the horizontal and vertical dimensions of the treatment zone, monitoring procedures, closure and clean-up activities) necessary to meet the requirements of 25 Pa. Code §75.264(u)(8).]

C. TESTING AND ANALYTICAL PROCEDURES

The Permittee shall conduct the demonstration using the testing and analytical procedures and data sources specified in Attachment _____ in accordance with requirements of 25 Pa. Code §75.264(u)(8).

[25 Pa. Code §75.264(u)(7) requires the permit to specify testing and analytical requirements, including the duration of the tests and analyses. The attachment should contain information on data sources to be used to make the demonstration, as well as information on laboratory and field tests used in the demonstration.]

PART XIII - LAND TREATMENT*

A. TREATMENT PROGRAM

1. The Permittee shall establish a treatment program for the wastes listed in Table XIII-1 as required by 25 Pa. Code §75.264(u)(2). The treatment program must include the design measures and operating practices specified in condition XIII.B and the unsaturated zone monitor-ing provisions specified in XIII.E. The treatment program must be capable of degrading, transforming, or immobilizing the hazardous constituents listed in Attachment ____.

[25 Pa. Code §75.264(u)(4) requires the permit writer to specify both the wastes that the Permittee is allowed to treat at the unit and the hazardous constituents identified in Appendix VIII of Section 75.261 that are reasonably expected to be found in, or derived from, these wastes. The list of wastes to be treated must be based on a demonstration under 25 Pa. Code §75.264(u)(6)-(8) that hazardous constituents in the waste can be completely degraded, transformed, or immobilized in the treatment zone. Conditions which apply to land treatment demonstrations are specified in Part XII. Listed wastes should be indexed to the industry and hazardous waste numbers from 25 Pa. Code §75.261.]

2. The Permittee shall design, construct, operate, and maintain the treatment unit in accordance with the requirements of 25 Pa. Code \$75.264(u)(9) and as specified in the attached plans and specifications, Attachment ____.

[The permit must specify the rate and method of waste application to the treatment zone, as well as measures to control soil pH, enhance microbial or chemical reactions, and control moisture content. The permit must specify the conditions for incorporating the waste into the soil as specified in 25 Pa. Code §75.264(u)(9)(v), as well as measures to prevent ponding or standing accumulations of liquids or sludges, and to prevent vector and odor problems. The permit must specify that hazardous waste will only be applied to those soils with U.S.D.A. textural classes of sandy loam, loam, sandy clay loam, silty clay loam, and silt loam and that hazardous waste shall not be applied when the ground is saturated, covered with snow, frozen or during period of rain. The attached plans and specifica- tions must demonstrate compliance with 25 Pa. Code §75.264(u)(9).]

 The Permittee shall construct the treatment zone as specified in Attachment ____.

[The permit must specify the vertical and horizontal dimensions of the treatment zone. The attachment must demonstrate compliance with 25 Pa. Code 575.264(u)(5).]

B. DESIGN AND OPERATING REQUIREMENTS

1. The Permittee must design, construct, operate, and maintain the treatment zone in accordance with the requirements of 25 Pa. Code \$75.264(u)(11) and as specified in Attachment

[The attached plans and specifications should demonstrate that the treatment zone will be designed, constructed, operated, and maintained to minimize runoff of hazardous constituents during the active life of the land treatment unit.]

2. The Permittee must design, construct, operate, and maintain the run-on control system as required by 25 Pa. Code \$75.264(u)(10) and as specified in the attached plans and specifications, Attachment .

[The attached plans and specifications should demonstrate that the run-on control system is capable of preventing flow onto the treatment zone during peak discharge from at least a 25-year storm.]

3. The Permittee must design, construct, operate, and maintain the runoff management system as required by 25 Pa. Code \$75.264(u)(12) and (13) and as specified in the attached plans and specifications, Attach-ment

[The attached plans and specifications should demonstrate that the runoff management system will collect and control at least the water volume re-

sulting from a 24-hour, 25-year storm. The attached plans and specifications must reflect a consideration of the volume of contaminated runoff produced at the facility, the capacity of any runoff collective device, the climatic conditions of the area, the quality of the runoff produced and the available options for managing any contaminated runoff from the facility, and the physical and chemical characteristics of the waste in the facility.]

4. The Permittee shall manage the collection and holding facilities associated with run-on and runoff control systems as required by 25 Pa. Code \$75.264(u)(14), as specified in Attachment ____.

[The attachment must demonstrate how the Permittee will maintain the design capacity of the collection and holding facilities.]

5. The Permittee shall manage the unit to control wind dispersal as required by 25 Pa. Code \$75.264(u)(15) and as specified in Attachment _____

[This condition only applies if the treatment zone contains particulate matter which may be subject to wind dispersal. The attachment must demonstrate how the Permittee will comply with 25 Pa. Code §75.264(u)(15).]

C. FOOD-CHAIN CROPS

The Permittee shall not grow food-chain crops on the land treatment unit. [Except animal feed. When growing animal feed, the Permittee shall follow the operating plan in Attachment ____.

[In accordance with 25 Pa. Code §75.264(u)(17), the Permittee must specify that tobacco, and any other crops intended for direct human consumption shall not be grown on hazardous waste land treatment facilities. If the Permittee has successfully demonstrated in accordance with 25 Pa. Code §75.264(u)(18) that there is no substantial risk to human health from the growth of food-chain crops in or on the treatment zone, the permit writer

may allow the growth of such crops. In accordance with 25 Pa. Code \$75.264(u)(19), the owner or operator of any hazardous waste land treatment facility who intends to grow food-chain crops shall specify that animal feed shall be the only food-chain crop produced. An operating plan shall be submitted for written Department approval which describes how the animal feed will be distributed to preclude ingestion by humans, and what measures will be taken to safeguard against possible health hazards from waste constituents entering the food-chain which may result from alternative land uses. In all cases, the Permittee must include a detailed plan for crop management through and including the post-closure care period according to specifications in 25 Pa. Code \$75.264(u)(20).]

D. UNSATURATED ZONE MONITORING

- EPA ARCHIVE DOCUMENT
- I. In addition to the groundwater monitoring program established in Part _____, the Permittee shall establish an unsaturated zone monitor- ing program for the hazardous constituents listed in Attachment _____, as required by 25 Pa. Code §75.264(u)(21).

[Unless the Department requires monitoring for principal waste constituents (PWCs) in accordance with the provisions of 25 Pa. Code \$75.264(u)(21)(i)(B), this list of hazardous constituents should be the same as the one specified in condition XIII.A.]

2. The Permittee shall install an unsaturated zone monitoring system as required by 25 Pa. Code §75.264(u)(21)(ii) and as specified in the attached plans and specifications, Attachment ____.

[The attached plans and specifications should demonstrate compliance with the requirements of 25 Pa. Code §75.264(u)(21)(ii).]

3. The Permittee shall establish a background value for each hazardous constituent to be monitored under condition XIII.D.l as required by 25 Pa. Code §75.264(u)(21)(iii) and as specified in Attachment ____.
EPA ARCHIVE DOCUMENT

[The attachment should demonstrate how the Permittee will comply with the requirements of 25 Pa. Code §75.264(u)(21)(iii).]

4. The Permittee shall conduct soil monitoring and soil-pore liquid monitoring as required by 25 Pa. Code §75.264(u)(21)(iv) and as specified in Attachment ____.

[The attachment should demonstrate how the Permittee will comply with the requirements of 25 Pa. Code §75.264(u)(21)(iv). The permit should specify the frequency and timing of this monitoring in accordance with the conditions outlined in 25 Pa. Code §75.264(u)(21)(iv).]

5. The Permittee shall follow the sampling and analysis procedures specified in Attachment as required by 25 Pa. Code §75.264(u)(21)(v).

[This attachment should demonstrate compliance with 25 Pa. Code \$75.264(u)(21)(v).]

6. The Permittee shall determine whether there is a statistically significant change over background values for any hazardous constituent to be monitored under condition XIII.D.l each time the monitoring required by condition XIII.D.4 is conducted, as required by 25 Pa. Code \$75.264(u)(21)(vi). This determination shall be made using the statistical procedures outlined in Attachment ____.

[This attachment should demonstrate compliance with the requirements of 25 Pa. Code §75.264(u)(21)(vi). The permit writer should specify the time period for making the determination in accordance with 25 Pa. Code §75.264(u)(21)(vi)(B).]

- 7. If the Permittee determines, pursuant to condition XIII.D.6, that there is a statistically significant increase of hazardous con-stituents below the treatment zone, he shall notify the Department of this finding and apply for a permit modification in accordance with the provisions of 25 Pa. Code §75.264(u)(21)(vii).
- 8. The Permittee has the option to successfully demonstrate that a source other than the regulated unit caused the increase or that the increase resulted from an error in sampling, analysis, or evaluation as specified by 25 Pa. Code §75.264(u)(21)(viii).
- 9. The Permittee shall retain the Unsaturated Zone Monitoring Plan at the facility in accordance with 25 Pa. Code \$75.264(u)(22).

E. RECORDKEEPING

The Permittee shall include hazardous waste application dates, rates, quantities, and the location of each hazardous waste placed in the facility in the operating record required under condition I.H.l, as required by 25 Pa. Code §75.264(u)(23).

F. EQUIPMENT

- 1. The Permittee shall maintain operating equipment in operable condition and adequate in size and performance capability to ensure that the facility operation will not be interrupted during normal working periods and that the facility operation is in accordance with this permit.
- 2. The Permittee shall maintain standby equipment on-site or readily available for use in the event of major equipment breakdown.

G. ACCESS ROADS

The Permittee shall construct and/or maintain access roads as required by 25 Pa. Code \$75.264(u)(36) and the attached plans and specifications, Attachment ___.

H. FUTURE LAND OWNERSHIP AND USAGE

The Permittee shall include provisions in the land record and property deed for the possible future transfer of lands used at the hazardous waste land treatment site as required by 25 Pa. Code \$75.264(u)(40) and as specified in Attachment ____.

[The attachment shall demonstrate compliance with 25 Pa. Code \$75.264(u)(40), and shall include a proviso for a stipulation in the land record and property deed which states that the property received hazardous waste, and that food crops shall not be grown due to a possible health hazard, unless otherwise approved by the Department.]

[OPTIONS]

[For Facilities Which Handle Ignitable or Reactive Wastes] SPECIAL REQUIREMENTS FOR IGNITABLE OR REACTIVE WASTES

 The Permittee shall not place ignitable or reactive waste in a land treatment unit unless the procedures described in Attachment _____ are followed, as required by 25 Pa. Code §75.264(u)(28).

[The attachment must demonstrate how the facility will handle ignitable and

reactive wastes as required by 25 Pa. Code \$75.264(u)(28). If the application does not address this, the permit writer should write specific conditions to implement this provision or should condition the permit so as not to allow this practice.]

2. The Permittee shall document compliance with XIII. _____.l as required by 25 Pa. Code \$75.264(g)(3) and place this documentation in the operating record.

[For Facilities Which Handle Incompatible Wastes]

SPECIAL REQUIREMENTS FOR INCOMPATIBLE WASTES

 The Permittee shall not place incompatible wastes, or incompatible wastes and materials, in or on the same treatment zone unless the procedures specified in Attachment _____ are followed, as specified in 25 Pa. Code §75.264(u)(29).

[The attachment must specify how the Permittee will handle incompatible wastes so as to comply with 25 Pa. Code \$75.264(g)(2). If the application does not address this, the permit writer should write specific conditions to implement this provision or should condition the permit so as not to allow this practice.] 2. The Permittee shall document compliance with XIII.__.l as required in 25 Pa. Code \$75.264(g)(3) and place this documentation in the operating record.

[As Appropriate]

UNLOADING AREAS

The Permittee shall maintain unloading areas and provide for personnel or signs to safely and expediently unload the wastes to be treated.

[As Appropriate]

WASTE TRACKING

The Permittee shall eliminate or minimize the tracking of waste within and outside the site as required by 25 Pa. Code \$75.264(u)(34).

[As Appropriate]

DUST CONTROL

The Permittee shall prevent dust from hampering facility operations or from causing health or safety hazards or nuisances.

[For Facilities Which Handle Wastes From Off-site]

WEIGHING OR MEASURING FACILITIES

The Permittee shall provide, maintain, and operate weighing or measuring facilities as required by 25 Pa. Code \$75.264(u)(37).

[For Facilities Which Handle Wastes From Off-site] OPERATING HOURS

The Permittee shall maintain at the entrance to the facility a sign displaying hours of operation. The lettering shall be a minimum of four inches in height and of a color contrasting with its background.

[As Appropriate]

VECTOR, ODOR, AND NOISE CONTROL

The Permittee shall carry out vector, odor, and/or noise control procedures as required by 25 Pa. Code §75.264(u)(39) and the Vector, Odor, and Noise Control Plan, Attachment ___.

PART XIV - DETECTION MONITORING

[Facilities that store, treat, or dispose of hazardous waste in surface impoundments, waste piles unless exempt under 25 Pa. Code §75.264(t)(3), land treatment units, or landfills must have a groundwater monitoring program. This Part presents permit conditions addressing the regulatory requirements for detection monitoring programs [25 Pa. Code \$75.264(n)(4) through (n)(20) as applicable]. The applicant is required to submit detailed plans and engineering reports describing the proposed program. The attachments referred to in the permit should be from that report and satisfy the appropriate regulations.]

WELL LOCATION AND CONSTRUCTION

The Permittee shall install and maintain a groundwater monitoring system as specified below:

 The Permittee shall install and maintain groundwater monitoring wells at the locations specified on the attached map, Attachment ____.

[The attached map must provide identifiers for all monitoring wells and specify their location. The number and location of the wells must meet the requirements of 25 Pa. Code \$75.264(n)(4) or (n)(5); and (n)6 if necessary.]

2. The Permittee shall construct and maintain the monitoring wells identified in condition XIV.A.l in accordance with the attached plans and specifications, Attachment ____.

[The attached plans and specifications must meet the requirements of 25 Pa.

Code \$75.264(n)(4), (n)(7), and (n)(8). They should consist of design drawings and design criteria applicable to all wells, as well as individual well specifications identifying depth, screened intervals, etc.]

B. SAMPLING AND ANALYSIS PROCEDURES

The Permittee shall use the following techniques and procedures when obtaining samples and analyzing samples from the groundwater monitoring wells described in condition XIV.A.

- 1. Samples shall be collected by the techniques described in Attach- ment _____.
- 2. Samples shall be preserved [and shipped (when shipped off-site for analysis)] in accordance with the procedures specified in Attach-ment ____.
- 3. Samples shall be analyzed according to the procedures specified in Attachment ____.
- 4. Samples shall be tracked and controlled using the chain of custody procedures specified in Attachment

[The sampling and analytical procedures described in the above attachments must

be designed to provide a reliable indication of the quality of the groundwater below the facility as required by 25 Pa. Code \$75.264(n)(9) and (n)(10).]

C. GROUNDWATER ELEVATION

- The Permittee shall determine, for each monitoring well, the groundwater surface elevation each time groundwater is sampled in accordance with condition XIV.F., as required by 25 Pa. Code \$75.264(n)(16).
- 2. The Permittee shall, at least annually by January 31, evaluate the data from condition XIV.C.l., as required by 25 Pa. Code §75.264(n)(21), to determine if monitoring wells are still properly located.

D. BACKGROUND QUALITY AND MONITORING PARAMETERS

- The Permittee shall monitor well numbers _____, as described in condition XIV.A for the parameters specified in Table XIV-1.
- 2. For those parameters in Table XIV-1 for which no background values are established, the Permittee shall establish background values using the procedures specified in Attachment ____. The values established shall automatically become part of this permit.

[The parameters specified in XIV.D.1 should satisfy the requirements of 25 Pa. Code 575.264(n)(11). The owner and operator, as required by 25 Pa. Code 575.264(n)(12), (n)(13), and (n)(14), must establish background values for the parameters in XIV.D.1. These values are specified in the permit.

For those parameters for which background values have not been established at the time the permit is issued, the permit writer must specify the procedures by which they will be established. The attachment must specify the necessary methods. The methods specified by 25 Pa. Code \$75.264(n)(12)(i) and (n)(13)(ii) (if no upgradient well is available), and (n)(14) should, at a minimum, be used in determining all background values. The background values established pursuant to condition XIV.D.2 become part of the permit.]

TABLE XIV-1 INDICATOR MONITORING PARAMETERS

Parameter

Background Concentration

рH

Total Organic Carbon

Total Organic Halogen

Specific Conductance

(The permit writer should list any additional parameters)

E. STATISTICAL PROCEDURES

When evaluating the monitoring results pursuant to condition XIV.F, the Permittee shall use the following procedures:

 When a constituent's background value has a sample coefficient of variation less than 1.00, the Permittee shall follow the statistical procedures described in 25 Pa. Code §75.264(n)(17)(i).

[The permit writer may specify an alternate but equivalent statistical procedure. Such alternate procedures must meet the requirements of 25 Pa. Code \$75.264(n)(17)(B).]

2. In all other situations the Permittee shall use the statistical procedures in Attachment ____.

[The procedures described in the attachment must satisfy the requirements of 25 Pa. Code §75.264(n)(17)(ii). The permit writer may approve alternate statistical procedures as specified in 25 Pa. Code §75.264(n)(17)(ii).]

F. MONITORING PROGRAM AND DATA EVALUATION

The Permittee shall determine groundwater quality as follows:

- The Permittee shall collect, preserve and analyze samples pursuant to condition XIV.B.
- 2. The Permittee shall determine groundwater quality (i.e., the parameters specified in condition XIV.D.1) throughout the active life of the facility (including the closure care period and post-closure care period [if applicable]. These determinations shall be made [specify frequency].

[25 Pa. Code §75.264(n)(15) requires that the determinations be made <u>at least</u> quarterly.]

- 3. The Permittee shall determine the groundwater flow rate and direction at least annually, as required by 25 Pa. Code §75.264(n)(22).
- 4. The Permittee shall determine whether there is a statistically significant increase, for each parameter identified in condition XIV.D.1, over the background values for that parameter (see condition XIV.D.2) each time groundwater quality is determined in accordance with condition XIV.F.2 as required by 25 Pa. Code §75.264(n)(18)(i). In determining whether such an increase has occurred, the Permittee must compare the groundwater quality at each monitoring well specified in

XIV.D.l to the background levels specified in Table XIV-1 in accordance with the procedures specified in condition XIV.E.

- 5. The Permittee shall perform the evaluation described in condition XIV.F.4 within 30 days after completion of sampling as required by 25 Pa. Code §75.264(n)(18)(ii).
- G. REPORTING AND RECORDKEEPING AND RESPONSE
 - The Permittee shall enter all monitoring, testing, and analytical data obtained pursuant to XIV.F in the operating record, as required by 25 Pa. Code §75.264(n)(23).
 - 2. If the Permittee determines, pursuant to condition XIV.F, that there is a statistically significant increase above the background values for the parameters specified in condition XIV.D.l. he shall:
 - a. Determine whether the facility has caused the significant increase as required by 25 Pa. Code §75.264(n)(19);

[If the Permittee determines that the facility has caused the significant increases he must address condition G.2.c.]

EPA ARCHIVE DOCUMEN

- b. Notify the Department in writing within seven days, as required by
 25 Pa. Code \$75.264(n)(20)(i);
 - c. Within 30 days, develop and submit a specific plan, as required by 25 Pa. Code \$75.264(n)(20)(ii) and (n)(20)(iii), based on the outline required under 25 Pa. Code \$75.264(n)(3) for a groundwater quality assessment program.
 - d. Submit all reports, to the Department, as required by 25 Pa. Code
 §75.264(n)(24).

H. PERMIT MODIFICATION

If the Permittee determines that the detection monitoring program required by this permit no longer satisfies the requirements of the regulations, he must submit an application for a permit modification to make any appropriate changes to the program which will satisfy the regulations, as required by 25 Pa. Code §75.264(n)(20)(viii).

I. GROUNDWATER PROTECTION STANDARD

The Permittee must assure that monitoring and corrective action measures necessary to achieve compliance with the groundwater protection standard under 25 Pa. Code \$75.264(n)(2) are taken during the term of the permit.

PART XV - GROUNDWATER QUALITY ASSESSMENT *

[If the Permittee determines that there is a statistically significant increase for indicator parameters, constituents, or reaction products at the point of compliance that provide a reasonable indication of the presence of hazardous constituents in the groundwater, a groundwater quality assessment program must be established at the facility. This Part presents permit conditions addressing the regulatory requirements [25 Pa. Code \$75.264(n)(20)] for groundwater quality assessment programs. The applicant is required to submit detailed plans and engineering reports describing the proposed pro- gram. The attachments to the permit should be from such plans and reports if and when they satisfy the appropriate regulations. The Department must ap- prove:

1. a list of the hazardous constituents

2. the compliance point

3. the compliance period.]

. WELL LOCATION AND CONSTRUCTION

The Permittee shall install and maintain a groundwater monitoring system to comply with the requirements 25 Pa. Code §75.264(n)(20), as specified below:

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1. The Permittee shall install and maintain groundwater monitoring wells at the locations specified on the map presented in Attachment ____.

[The attached map must provide identifiers for all monitoring wells and specify their location. The number and location of the wells must meet the requirements of 25 Pa. Code §75.264(n)(20)(iii).]

2. The Permittee shall construct and maintain the monitoring wells identified in condition XV.A.l in accordance with the plans and specifications presented in Attachment ____.

[The attached plans and specifications must meet the requirements of 25 Pa. Code \$75.264(n)(7) and (n)(8). They should consist of design drawings and design criteria applicable to all wells, as well as individual well specifications identifying depth, screened intervals, etc.]

B. SAMPLING AND ANALYSIS PROCEDURES

The Permittee shall use the following techniques and procedures when obtaining samples and analyzing samples from the groundwater monitoring wells described in condition XV.A.

1. Samples shall be collected by the techniques described in Attach- ment _

EPA ARCHIVE DOCUMENT

- 2. Samples shall be preserved [and shipped (when shipped off-site for analysis)] in accordance with the procedures specified in Attach-ment _____.
- Samples shall be analyzed according to the procedures specified in Attachment ____.
- 4. Samples shall be tracked and controlled using the chain of custody procedures specified in Attachment ____.

[The sampling and analysis procedures described in the above attachments must be designed to provide a reliable indication of the quality of the groundwater below the waste management area as required by 25 Pa. Code \$75.264(n)(9) and (n)(10).]

C. GROUNDWATER ELEVATION

 The Permittee shall determine, for each monitoring well, the groundwater surface elevation each time groundwater is sampled in accordance with condition XV.F., as required by 25 Pa. Code §75.264(n)(16).

2. The Permittee shall, at least annually by January 31, evaluate the data

from condition XV.C.l., as required by 25 Pa. Code \$75.264(n)(21), to determine if monitoring wells are still properly located.

D. MONITORING PARAMETERS

1. The Permittee shall monitor the groundwater to determine whether regulated units are in compliance with the groundwater protection standard. The hazardous constituent concentration limits which comprise this standard are listed in Table XV-1.

TABLE XV - PARAMETERS

Hazardous Constituents

Concentration Limit

- 2. The Permittee shall monitor well numbers ______ at the point of compliance, as described in condition XV.A, and as designated on the map incorporated in Attachment ____.
- 3. The ocompliance period is equal to [specify time period].

When evaluating the monitoring results pursuant to condition XV.F, the Permittee shall use the following procedures:

 When a constituent's background value has a sample coefficient of variation less than 1.00, the Permittee shall follow the statistical procedures described in 25 Pa. Code \$75.264(n)(17)(i).

[The permit writer may specify an alternate but equivalent statistical procedure. Such alternate procedures must meet the requirements of 25 Pa. Code \$75.264(n)(17)(i)(B).]

2. In all other situations the Permittee shall use the statistical procedures specified in Attachment ____.

[The procedures described in the attachment must satisfy the requirements of 25 Pa. Code §75.264(n)(17)(ii).]

F. MONITORING PROGRAM AND DATA EVALUATION

 The Permittee shall determine the rate and extent of migration of the hazardous waste, hazardous constituents or decomposition byproducts in the groundwater as required by 25 Pa. Code \$75.264(n)(20)(iv).

- 2. The Permittee shall collect, preserve and analyze samples pursuant to condition XV.B.
- 3. The Permittee shall determine the groundwater flow rate and direction at least annually, as required by 25 Pa. Code \$75.264(n)(22).
- 4. The Permittee shall analyze samples from all monitoring wells at the compliance point for all constituents in Appendix VIII at least annually to determine whether additional hazardous constituents are present. If the Permittee finds additional constituents present (one not listed in condition XV.D.1), their concentrations shall be reported to the Director within seven days after completion of the analysis.
- 5. The Permittee shall determine whether there is a statistically significant increase, for each parameter identified in condition XV.D.l, over the concentration limit for that parameter each time the concentration of hazardous constituents is monitored in groundwater at the compliance point pursuant to condition XV.F.2. In determining

whether such an increase has occurred, the Permittee must operate the groundwater quality at each monitoring well specified in condition XV.D.2 to the concentration limit for that constituent, as specified in Table XV-1 in accordance with the procedures specified in condition XV.E.

- 6. The Permittee shall perform the statistical evaluation required by condition XV.F.5 within 30 days after completion of sampling.
- G. REPORTING AND RECORDREEPING AND RESPONSE
 - The Permittee shall make determinations, as required by 25 Pa. Code \$75.264(n)(20)(vi) within 180 days of implementation of the program.
 - 2. The Permittee shall submit a report within 15 days of the determinations made under condition XV.G.l containing an assessment of groundwater quality.
 - 3. The Permittee shall enter all monitoring, testing, and analytical data obtained pursuant to XV.F in the operating record, as required by 25 Pa. Code §75.264(n)(23).
 - 4. If the Permittee determines, pursuant to condition XV.F, that there is a statistically significant increase above the concentration limits for the parameters specified in condition XV.D.1 the Permittee shall:

a. Submit to the Department an abatement plan as required by 25 Pa.

EPA ARCHIVE DOCUMENT

Code \$75.264(n)(20)(vii);

- b. Submit the abatement plan within 30 days after the submission of the groundwater quality assessment report if the report determines hazardous constituents have entered the groundwater.
- 5. The Permittee shall submit a milestone report containing any information indicating that the significant increase in parameter(s) was due to a source other than the facility, as required by 25 Pa. Code §75.264(n)(20)(vi).
- 6. The Permittee shall submit all reports to the Department as required by 25 Pa. Code §75.264(n)(24).

H. PERMIT MODIFICATION

If the Permittee determines that the groundwater quality assessment required by this permit no longer satisfies the requirements of the regulations, an application for a permit modification must be submitted to make any appropriate changes to the program which will satisfy the regulations.

I. GROUNDWATER PROTECTION STANDARD

The Permittee must assure that monitoring and corrective action measures

necessary to achieve compliance with the groundwater protection standard under 25 Pa. Code \$75.264(n)(2) are taken during the term of the permit.

PART XVI - ABATEMENT PROGRAM

[If hazardous waste, hazardous waste constituents, or decomposition byproducts have entered the groundwater, an abatement program must be implemented to bring the unit back into compliance. An abatement program may be permitted separately after receipt of an application for a permit modification or it may be specified as part of the permit for the groundwater quality assessment program. The Department must approve the required corrective action measures, and the monitoring program and data evaluation procedures.]

A. WELL LOCATION AND CONSTRUCTION

The Permittee shall install and maintain a groundwater monitoring system to comply with the requirements of 25 Pa. Code §75.264(n)(20)(vii), as specified below:

1. The Permittee shall install and maintain groundwater monitoring wells at the locations specified on the map presented in Attachment .

[The attached map must provide identifiers for all monitoring wells and speci-

fy their location.]

2. The Permittee shall construct and maintain the monitoring wells identified in condition XVI.A.l in accordance with the plans and specifications presented in Attachment ____.

[The attached plans and specifications must meet the requirements of 25 Pa. Code \$75.264(n)(7) and (n)(8). They should consist of design drawings and design criteria applicable to all wells, as well as individual well specifications identifying depth, screened intervals, etc.]

B. MONITORING PARAMETERS

 The Permittee shall implement an abatement program to remove or treat any hazardous waste, hazardous constituents or decomposition byproducts and return to compliance. Table XVI-1 lists the hazardous constituent concentration limits.

TABLE XVI-1. MONITORING PARAMETERS

Hazardous Constituents

 The Permittee shall monitor well numbers ______ as described in condition XVI.A. for the parameters specified in Table XVI-1.

3. The compliance period is equal to [specify frequency].

C. ABATEMENT PROGRAM

- The Permittee shall initiate abatement within 30 days after Department approval of the abatement program.
- 2. The Permittee shall conduct an abatement program that results in abatement of any groundwater contamination by removing or treating any

hazardous waste or hazardous constituents or decomposition byproducts.

[The permit must specify the abatement measures to be taken. They must be initiated and completed within a reasonable period of time and may be terminated once the concentrations of hazardous constituents are reduced to levels below their respective concentration limits.]

D. SAMPLING AND ANALYSIS PROCEDURES

The Permittee shall use the following techniques and procedures when obtaining samples and analyzing samples from the groundwater monitoring wells described in condition XVI.A.

- 1. Samples shall be collected by the techniques described in Attach- ment _____.
- 2. Samples shall be preserved [and shipped (when shipped off-site for analysis)] in accordance with the procedures specified in Attach-ment _____.
- Samples shall be analyzed according to the procedures specified in Attachment ____.
- 4. Samples shall be tracked and controlled using the chain of custody procedures specified in Attachment .

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[The sampling and analytical procedures described in the above attachments must be designed to provide a reliable indication of the quality of the groundwater below the facility as required by 25 Pa. Code \$75.264(n)(9) and (n)(10).]

E. STATISTICAL PROCEDURES

When evaluating the monitoring results pursuant to condition XVI.F the Permittee shall use the following procedures:

 When a constituent's background value has a sample coefficient of variation less than 1.00, the Permittee shall follow the statistical procedures described in 25 Pa. Code §75.264(n)(17)(i).

[The permit writer may specify an alternate but equivalent statistical procedure. Such alternate procedures must meet the requirements of 25 Pa. Code \$75.264(n)(17)(i)(B).]

2. In all other situations the Permittee shall use the statistical procedures specified in Attachment ____.

[The procedures described in the attachment must satisfy the requirements of 25 Pa. Code §75.264(n)(17)(ii). The Department may approve alternate statistical procedures as specified in 25 Pa. Code §75.264(n)(17)(ii).]

F. MONITORING PROGRAM AND DATA EVALUATION

The Permittee shall establish and implement a groundwater monitoring program to demonstrate the effectiveness of the abatement program. The Permittee shall determine groundwater quality as follows:

- The Permittee shall collect, preserve and analyze samples pursuant to condition XVI.D.
- 2. The Permittee shall determine groundwater quality (i.e., the parameters specified in condition XVI.B) throughout the compliance period including any extension to the compliance period to illustrate conformance with the approved monitoring parameters for a period of three consecutive years. These determinations shall be made [specify fre- quency].

[25 Pa. Code §75.264(n)(15) requires that determinations be made <u>at least</u> quarterly.]

3. The Permittee shall determine the groundwater flow rate and direction at least annually as required by 25 Pa. Code §75.264(n)(22).

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- 4. The Permittee shall compare the measured concentration of each monitored hazardous constituent with the approved monitoring parameters each time groundwater quality is determined in accordance with condition XVI.F.2. The Permittee must compare the groundwater quality measured at each point of compliance monitoring well with the levels specified in Table XVI-1 in accordance with the procedures specified in condition XVI.E.
- 5. The Permittee shall, at least annually by January 31, evaluate the data from condition XVI.F.l. as required by 25 Pa. Code §75.264(n)(21), to determine if monitoring wells are still properly located.

G. REPORTING, RECORDKEEPING, AND RESPONSE

- The Permittee shall enter all monitoring, testing, and analytical data obtained pursuant to conditon XVI.F.2 in the operating record, as required by 25 Pa. Code \$75.264(n)(23).
- 2. The Permittee must report in writing quarterly to the Director on the effectiveness of the abatement program, as required by 25 Pa. Code §75.264(n)(20)(vii).

3. The Permittee shall submit all reports to the Department as required by

H. PERMIT MODIFICATION

If the Permittee determines that the abatement program established by this permit no longer satisfies the requirements of the regulations, an application for a permit modification must be submitted to make any appropriate changes to the program which will satisfy the regulations.

I. GROUNDWATER PROTECTION STANDARD

The Permittee shall assure that monitoring and corrective action measures necessary to achieve compliance with the groundwater protection standard under 25 Pa. Code \$75.264(n)(2) are taken during the term of the permit.

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- FACT SHEET -FOR DRAFT PERMIT

A. PURPOSE OF THE PERMITTING PROCESS

The purpose of the permitting process is to afford the State of Pennsylvania (DER), interested citizens and other governmental agencies the opportunity to evaluate the ability of the Permittee to comply with the applicable hazardous waste management requirements promulgated under the Solid Waste Management Act. DER is required to prepare a draft permit which sets forth in one concise document all the applicable requirements with which the State intends to require the Permittee to comply during the ten-year duration of the permit. The public is given forty-five days to review the application and comment on the draft permit conditions prior to DER taking any final action on the application for a hazardous waste management permit.

- EPA ARCHIVE DOCUMENT
- The Permittee shall install and maintain groundwater monitoring wells at the locations specified on the map presented in Attachment _____.

[The attached map must provide identifiers for all monitoring wells and specify their location. The number and location of the wells must meet the requirements of 25 Pa. Code §75.264(n)(20)(iii).]

2. The Permittee shall construct and maintain the monitoring wells identified in condition XV.A.l in accordance with the plans and specifications presented in Attachment ____.

[The attached plans and specifications must meet the requirements of 25 Pa. Code \$75.264(n)(7) and (n)(8). They should consist of design drawings and design criteria applicable to all wells, as well as individual well specifications identifying depth, screened intervals, etc.]

B. SAMPLING AND ANALYSIS PROCEDURES

The Permittee shall use the following techniques and procedures when obtaining samples and analyzing samples from the groundwater monitoring wells described in condition XV.A.

1. Samples shall be collected by the techniques described in Attach- ment

B. PROCEDURES FOR REACHING A FINAL DECISION

Section 75.270(q)(8) of 25 Pa. Code requires that the public be given forty-five (45) days to comment on each draft permit prepared under the Solid Waste Management Act. The comment period will begin on

Any person interested in commenting on the application or draft permit must do so within this forty-five (45) day comment period.

All persons wishing to comment on any of the permit conditions or the permit application should submit the comments in writing to the Department of Environmental Resources (DER), Bureau of Solid Waste Management, P.O. Box 2063, Harrisburg, Pennsylvania 17120; Attention: ______, Chief, Division of Hazardous Waste Management. Comments should include all reasonably available references, factual grounds and supporting material.

In the event DER receives written notice of opposition to the draft permit and a request for a public hearing within the comment period referenced above, a hearing shall be scheduled at a location convenient to the population center nearest to the proposed facility. Public notice of the public hearing shall be given at least 30 days before the hearing. Any requests for a public hearing accompanied by written opposition to the draft permit should be addressed to ______, Director, Hazardous Waste Management, Department of Environmental Resources, Bureau of Solid Waste Management, P.O. Box 2063, Harrisburg, Pennsylvania, 17120. When making a determination regarding the issuance of a hazardous waste permit to ______, DER will consider all written comments received during the comment period, any oral or written statements received during the public hearing (if requested), the requirements of the hazardous waste regulations of 25 Pa. Code Chapter 75 and the DER's permitting policies.

At the time that a permit is issued, DER also will issue a response to comments. This response will specify any provisions of the draft permit which were changed in the final permit decision and the reasons for the change. DER will present the response to all significant comments on the draft permit that are raised during the public comment period or during any hearing. DER will make the response available to the public as required in 25 Pa. Code §75.270(q)(12).

C. FACILITY DESCRIPTION

[Provide information specific to the Permittee on the type of operation, the types of wastes handled and the nature of the storage, treatment or disposal operation.]

D. PERMIT ORGANIZATION

The permit is divided into _____ sections as outlined below.

Section	Topic	
Part I	Standard Conditions	
Part II [Note: List out only facility.]	General Facility Conditions those parts which apply to the Permittee's	
Part III	Tank Storage/Treatment Conditions	
Part IV	Container Storage Conditions	
Part V	Incineration Conditions	
Part VI	Short-Term Incineration Conditions	
Part VII	Thermal Treatment Conditions	
Part	VIII	Waste Pile Conditions
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Part	IX	Landfill Conditions
Part	X	Storage and Treatment Surface Impoundment Conditions
Part	XI	Disposal Surface Impoundment Conditions
Part	XII	Land Treatment Demonstration Conditions
Part	XIII	Land Treatment Conditions
Part	XIV	Detection Monitoring Conditions
Part	XV	Groundwater Quality Assessment Conditions
Part	XVI	Abatement Program Conditions

Parts I and II contain conditions which generally apply to all hazardous waste facilities. Part(s) _____, ___, and ____ [as appropriate], pertain specifically to the processes used at the hazardous waste facility at

E. SUMMARY OF THE PERMIT CONDITIONS

This section of the fact sheet consists of sixteen parts (as listed above in Section D) which provide a list of the conditions in the draft permit. Within eah part, the column titled "Regulation" provides the state regulatory authority for the permit condition specified in the column titled "Permit Condition." For convenience in reviewing the permit application. the column headed "Location in Application" is provided. The permit application cited in this section is the ______ permit application, as amended on ______.

PART I

STANDARD CONDITIONS

Part I of the permit sets forth the standard procedural conditions that are applicable to all hazardous waste management facilities. All regulatory citations listed below refer to DER's hazardous waste management and permitting regulations as codified in Title 25 of The Pennsylvania Code.

Permit

Condition	Subject	Regulation (25 Pa. Code)
I.A	Effect of Permit	75.270(e)(1)
		75.270(g)(7)
I.B	Permit Actions	75.270(g)(6) 75.270(h) 75.270(i) 75.270(q)
I.C	Severability	§124.16(a)
I.D	Definitions	75.260
I.E	Reports, Notifications, and Submissions to the Regional Manager	
I.F	Signatory Requirement	75.265(z)(13) 75.270(g)(13)
I.G	Documents to be Maintained at Facility Site	75.264(c)(3) 75.264(f)(6) 75.264(i)(q)(i) 75.264(o)(3)
		75.264(k) 75.264(e)(2)(i)

I.H.1	Duty to Comply	75.270(g)(l)
Permit		
Condition	Subject	Regulation (25 Pa. Code)
I.H.2	Duty to Reapply	75.270(g)(2) 75.270(d)(4)
I.H.3	Permit Expiration	
I.H.4	Need to Halt or Reduce Activity Not a Defense	75.270(g)(3)
I.H.5	Duty to Mitigate	75.270(g)(4)
I.H.6	Proper Operation and Maintenance	75.270(g)(5)
I.H.7	Duty to Provide Information	75.270(g)(8) 75.264(1)(1)
I.H.8	Inspection and Entry	75.270(g)(9)
I.H.9	Monitoring and Records	75.270(g)(10)
		75.270(g)(11)
	÷	75.270(g)(l2)
I.H.10	Reporting Planned Changes	75.270(g)(14)
		75.265(z)(23),(24)
I.H.11	Transfer of Permits	75.270(e)(2)
I.H.12	Twenty-Four Hour Reporting	75.270(g)(17)
		75.264(i)(15)(i),(21)
I	Documents to be Submitted Prior to Operation	75.270(n) 75.265(z)(21)(iii)(E)

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Ι	Compliance Schedule Reporting	75.270(g)(16) 75.270(p)(1)(iii)
I	Certification of Construction or Modification	75.270(p)(1)(iii)
I.H.13	Other Noncompliance	75.270(g)(18)
I.H.14	Other Information	75.270(g)(19)

PART II

GENERAL FACILITY CONDITIONS

Part II of the permit sets forth general conditions for this facility with which the Permittee must comply. All regulatory citations listed below refer to DER's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code). <u>NOTE</u>: N.C. = NOT COVERED - the application is not required to cover this topic.

Permit		Regulation	Location in
Condition	Subject	(25 Pa. Code)	Application
II.A	Design and Operation of the Facility	75.264(h)(1)	
II.B	General Waste Analysis	75.264(c)	
II.C	Security	75.264(d)(2)	
		and (3)	
II.D	General Inspection Requirements	75.264(e)	
II.E	Personnel Training	75.264(f)	
II.E	Preparedness and Prevention	75.264(h)	
II.F.1	Required Equipment	75.264(h)(2)	

II.F.2	Testing and Maintenance of Equipment	75.264(h)(3)	
II.F.3	Access to Communications or Alarm	75.264(h)(4)	
	System	and (5)	
II.F.4	Required Aisle Space	75.264(h)(6)	
II.F.5	Arrangements with Local Authorities	75.264(h)(7)	
		and (8)	
II.G	Preparedness, Prevention and	75 . 264(1)	
	Contingency (PPC) Plan		
II.G.1	Implementation of PPC Plan	75.264(i)(12)	
		through (21)	
Permit		Regulation	Location in
Condition	Subject	(25 Pa. Code)	Application
II.G.2	Copies of Plan	75.264(1)(9)	
II.G.3	Amendments to Plan	75.264(1)(10)	
II.G.4	Emergency Coordinator	75.264(i)(11)	
II.G.5	Emergency Procedures	75.264.(1)(12) through (21)	,
II.H	Recordkeeping and Reporting	75.264(1)(12)	
II.H.1	Operating Record	75.264(k)(1) and (2)	
II.H.2	Quarterly Facility Report	75.264(m)(1)	
II.H.3	Annual Report	75.264(m)(3)	
II.H.4	Required Reports	75.264(m)(3) 75.264(m)(2) and (3)	

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11.1	Closure	75.264(0)
II.I.l	Performance Standard	75.264(0)(2)
11.1.2	Amendment to Closure Plan	75.264(0)(4)
II.I.3	Notification of Closure	75.264(0)(5)
II.I.4	Time Allowed for Closure	75.264(0)(6) and (7)
II.I.5	Disposal or Decontamination of Equipment	75.264(0)(8)
II.I.6	Certification of Closure	75.264(0)(9)
II.J	Cost Estimate for Facility Closure	75.319
II.J.1	Annual Adjustment	75.319(b)
II.J.2	Adjustment for Changed Conditions	75.319(c)
II.K	Bonding Requirements	75.321 75.316

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Permit		Regulation	Location in
Condition	Subject	(25 Pa. Code)	Application
II.L	Liability Insurance	75.332 75.333	
II	Required Notices		
II1	Notice to the Department	75.264(j)(8)	
II2	Notice to Generator		
II. <u> </u>	General Requirements for Ignitable, Reactive or Incompatible Waste	75.264(g)	
II. <u> </u>	Manifest System	75.264(j)	
II. <u> </u>	Post-Closure		
111	Monitoring and Maintenance	75.264(0)(15) and (16) 75.264(s)(3)	

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		(xxx)(E) 75.264(u)(25) 75.264(v)(3) (xxvi)(F)and(G)
II 2	Amendment to Post-Closure Plan	75.264(o)(17) and (18)
II. <u></u>	Notice to Local Land Authority	75 . 264(0)(19)
II	Floodplain Standard	75.265(z)(22)

PART III STORAGE IN CONTAINERS

Part III of the permit sets forth conditions for storage in containers with which the Permittee must comply. All regulatory citations listed below refer to DER's hazardous waste management regulations as codified in Title 25 of The Pennsylvania Code (25 Pa. Code).

Permit		Regulation	Location in
Condition	Subject	(25 Pa. Code)	Application
III.A	Waste Identification	75.264(c)	
III.B	Duration of Storage	75.260	
III.C	Condition of Containers	75 . 264(q)(1)	
III.D	Placement Requirements	75.264(g)(1) and (q)(9)	
III.E	Compatibility of Wastes With Containers	75.264(q)(2)	
III.F	Management of Containers	75.264(q)(3) and (4)	
III.G	Containment	75.264(q)(10) through (12)	

III.H	Container Stacking Height, Width, and Depth	75.264(q)(14)	
III. <u> </u>	Special Requirements for Ignitable or Reactive Wastes	75.264(q)(14)(1 and (q)(1	L1) 15)
III. <u> </u>	Special Requirements for Incompatible Wastes	75.264(q)(7)-(9	9)
III1	Placement of Incompatible Wastes	75.264(q)(7)	
Permit		Regulation	Location in
Condition	Subject	(25 Pa. Code)	Application
III. <u>.</u> .2	Incompatible Wastes in Unwashed		
1112	Incompatible Wastes in Unwashed Containers	75.264(q)(8)	
III2 III3	Incompatible Wastes in Unwashed Containers Storage of Incompatible Wastes	75.264(q)(8) 75.264(q)(9)	
III2 III3 III4	Incompatible Wastes in Unwashed Containers Storage of Incompatible Wastes Documentation	75.264(q)(8) 75.264(q)(9) 75.264(g)(3)	
III2 III3 III4 III	Incompatible Wastes in Unwashed Containers Storage of Incompatible Wastes Documentation Weighing or Measuring Facilities	75.264(q)(8) 75.264(q)(9) 75.264(g)(3) 75.264(q)(6)	

PART IV TANK STORAGE/TREATMENT CONDITIONS

Part IV of the permit sets forth conditions for storage/treatment in tanks with which the Permittee must comply. All regulatory citations listed below refer to DER's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
IV.A	Waste Identification	75.264(c)	
IV.B	Duration of Storage	75.260	

IV.C	Design and Construction of Tanks	75.264(r)(15)
IV.D	Protection from Overfilling	75.264(r)(4), (5), and (16)
IV.E	Secondary Containment	75.264(r)(6)
IV.F	Emergency Repairs; Contingency Plan	75.264(r)(20), (21),(22), (24), and (25)
IV.G	Access Roads	75.264(r)(26)
IV.H	Buffer Zone	75.264(r)(27)
IV.I	Equipment	
IV1	Equipment Maintenance	25.264(r)(35)
IV2	Standby Equipment	75.264.(r)(36)
IV	Treatment of Wastes in Tanks	
IV	Protection from Corrosion	75.264(r)(3)
IV	Special Requirements for	

Ignitable or Reactive Wastes

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
IV1	Special Requirements	75.264(r)(10)	
IV2	Documentation	75 .2 64(g)(3)	
IV3	NFPA Requirements	75.264(r)(11)	
IV	Special Requirements for Incompatible Waste		
IV1	Incompatible Waste Precautions	75.264(r)(12) and (13)	
IV2	Documentation	75.264(g)(3)	
IV	Waste Analysis	75.264(r)(7)	
IV	Weighing or Measuring Facilities	75.264(r)(17)	
IV	Operating Hours	75.264(r)(18)	

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IV	Tank Construction or Installation	
IV1	Inspections	75.264(r)(19)
IV2	Construction Practices	75.264(r)(31)
IV3	Quality Control Measures	75.264(r)(32)
IV4	Professional Engineer Certification	75.264(r)(33)
IV5	Construction Schedule	75.264(r)(33)
IV	Surface Water Management	
IV1	Design Standards	75.264(r)(28)
1⊽2	Run-off	75.264(r)(29)
IV3	Run-on	75.264(r)(30)
IV	Vector, Odor, and Noise Control	75.264(r)(34)
IV	Unloading Areas	75.264(r)(37)
IV	Dust Control	75.264(r)38)
IV	Waste Tracking	75.264(r)(39)

PART V

INCINERATION CONDITIONS

Part V of the permit sets forth conditions for incinceration with which the Permittee must comply. All regulatory citations listed below refer to the Department's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
V.A	Construction [For new facilities]	75.264(h)(l)	

V.A.1	Construction Practices	75.264(w)(14)
V.A.2	Quality Control Measures	75.264(w)(15)
V.A.3	Professional Engineer Certification	75.264(w)(16)
V.A.4	Construction Schedule	75.264(w)(16)
V.A.5	Maintenance [For existing facilities]	75.264(h)(1)
V.B	Performance Standard	75.264(w)(6)
V.C	Limitation on Wastes	75.264(w)(5)
V.D	Operating Conditions	75.264(w)(7)
V. E	Waste Feed Cut-off	75.264(w)(7) (iv)
V.F	Facility Monitoring	75.264(w)(9)
V.G	Waste Analysis Monitoring	75.264(w)(4)
V.H	Other Departmental Permits & Approvals	75.264(w)(11)

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
V.I	Access Roads	75.264(w)(22)	
V.J	Buffer Zone	75.264(w)(13)	
V.K.	Equipment Maintenance	75.264(w)(18)	
V.L.	Standby Equipment	75.264(w)(19)	
v	Incineration Facility Modifications [if applicable]		
V1	Construction Practices	75.264(w)(14)	
∇ 2	Quality Control Measures	75.264(w)(15)	
V3	Professional Engineer Certification	75.264(w)(16)	
V4	Construction Schedule	75.264(w)(16)	
⊻	Odor and Noise Control [if applicable]	75.264(w)(17)	
V	Unloading Areas [if applicable]	75.264(w)(20)	

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v	Waste Tracking [if applicable]	75.264(w)(21)
V	Weighing and Measuring Facilities [if applicable]	75.264(w)(23)
V	Operating Hours [if applicable]	75.264(w)(24)

PART VI

SHORT-TERM INCINERATOR CONDITIONS

Part VI of the permit sets forth conditions for short-term incineration with which the Permittee must comply. All regulatory citations listed below refer to the Department's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
VI.A	Shakedown Phase		
VI.A.1	Duration of the Shakedown Period	75.264(w)(25) (i)	
VI.A.2	Waste Feed Identification	75.264(w)(5)	
VI.A.3	Operating Conditions	75.264(w)(7)	
VI.A.4	Waste Feed Cut-off	75.264(w)(7) (iv)	
VI.A.5	Facility Monitoring	75.264(w)(9)	
VI.B	Trial Burn Phase		
VI.B.1	Trial Burn Plan	75.264(w)(27)	
VI.B.2	Trial Burn POHC(s)	75.264(w)(8) (1)	
VI.B.3	Trial Burn Determinations	75.264(w)(29)	

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VI.B.4	Trial Burn Submissions	75.264(w)(29) (iii)and (iv)
VI.C	Post-Trial Burn Phase	

VI.C.1 Waste Feed Identification 75.264(w)(8)

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
VI.C.2	Operating Conditions	75.264(w)(7)	
VI.C.3	Waste Feed Cut-off	75.264(w)(7) (iv)	
VI.C.4	Facility Monitoring	75.264(w)(9)	
VI.D	General Provisions		
VI.D.1	Waste Analysis Monitoring	75.264(w)(4)	
VI.D.2	Other Departmental Permits & Approvals	75.264(w)(11)	
VI.D.3	Access Roads	75.264(w)(22)	
VI.D.4	Buffer Zone	75.264(w)(13)	
VI.D.5	Equipment Maintenance	75.264(w)(18)	
VI.D.6	Standby Equipment	75.264(w)(19)	
VI.D	Incineration Facility Modifications [if applicable]		
VI.D1	Construction Practices	75.264(w)(14)	
VI.D2	Quality Control Measures	75.264(w)(15)	
VI.D3	Professional Engineer Certification	75.264(w)(16)	
VI.D4	Construction Schedule	75.264(w)(16)	
VI.D.	Odor and Noise Control [if applicable]	75.264(w)(17)	
VI.D.	Unloading Areas [if applicable]	75.264(w)(20)	
VI.D.	Waste Tracking [if applicable]	75.264(w)(21)	
VI.D.	Weighing and Measuring Facilities [if applicable]	75.264(w)(23)	

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Operating Hours [if applicable]

75.264(w)(24)

PART VII

THERMAL TREATMENT CONDITIONS

Part VII of the permit sets forth conditions for thermal treatment with which the Permittee must comply. All regulatory citations listed below refer to the Department's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
VII.A	Construction [For new facilities]	75.264(h)(1)	
VII.A	Maintenance [For existing facilities]	75.264(h)(1)	
VII.B	Limitation on Wastes	75.264(c)	
VII.C	Analysis of New Wastes	75.264(x)(3)	
VII.D	Operating Conditions [For Continuous Process Operations]	75.264(x)(7)	
VII.E	Operating Conditions [For Open Burning of Waste Explosives]	75.265(x)(6) and (7)	
VII.F	Monitoring	75.264(x)(4)	

PART VIII

WASTE PILE CONDITIONS

Part VIII of the permit sets forth conditions for waste piles with which the Permittee must comply. All regulatory citations listed below refer to the Department's hazardous waste management regulations, as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
VIII.A	Waste Identification	75.264(c)	• · · ·
VIII.B	Duration of Storage	75.260	
VIII.C	Design and Operating Requirements		
VIII.C.1	Underlying Liner	75.264(t)(4)(ii)	
VIII.C.2	Effective Life of Liner	75.264(t)(5)	
VIII.C.3	Protection from Plant Growth	75.264(t)(6)	
VIII.C.4	Liner Subbase	75.264(t)(4)(v)	
VIII.C.5	Distance to Seasonal High Groundwater Table	75.264(t)(7)	
VIII.C.6	Leachate Collection and Removal System	75.264(t)(4)(1)	
VIII.C.7	Run-off Control	75.264(t)(8)	
VIII.C.8	Conveyance and Storage System for Leachate	75.264(t)(9)	
VIII.C.9	Run-on Control	75.264(t)(13)	
VIII.C.10	Collection and Holding Facilities for Run-off and Run-on	75.264(t)(14)	
Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
VIII.C.11	Surface Water Management	75.264(t)(31)	
VIII.C.12	Surface Water Percolation Control	75.264(t)(32)	
VIII.C.13	Minimum Distance from Pile to Liner	75.264(t)(35)	

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VIII.C.14	Wind Dispersal	75.264(t)(19)	
VIII.D	Exemption from Groundwater Protection Requirements	75.264(t)(3)(ii) or (iii)	
[Use t	he following if 75.264(t)(3)(ii) is	applicable.]	
VIII.D.1	Double Liner, Leak Detection and Leachate Collection Systems	75.264(t)(3)(11)	
VIII.D.2	Response to Leaks	75.264(t)(3)(ii)	
[Use t	he following if 75.264(t)(3)(iii) i	s applicable.]	
VIII.D.3	Response to Leaks	75.264(t)(3)(iii)	
VIII.D.1	Liner System	75.264(t)(3)(iii)	
VIII.D.2	Waste Removal and Inspection	75.264(t)(3)(111)	
VIII.D.3	Leachate Collection Systems	75.264(t)(4)(1)	
VIII.D.4	Response to Leaks	75.264(n)(4)	
VIII.D.5	Detection Monitoring Schedule	75.264(n)(4)	
[Use t	he following if 75.264(t)(3)(i) is	applicable.]	
VIII.D.1	Design and Construction Under Protective Structure	75.264(t)(3)(i)	
VIII.D.2	Prohibition of Free Liquids and Wastes that Generate Leachate	75.264(t)(3)(i)	
VIII.E	Emergency Repairs; Contingency Plan	. <i>.</i>	
Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
VIII.E.1	Waste Pile Evaluation and Repair Plan	75.264(t)(22)	
VIII.E.2	Response to Leaks	75.264(t)(23) and (24)	
VIII.E.3	Professional Engineer Certifications	75 .2 64(t)(25)	
VIII.E.4	Closure of Piles Having Un-	75.264(t)(26)	

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VIII.F	Access Roads	75.264(t)(29)	
VIII.G	Buffer Zone	75.264(t)(30)	
VIII.H	Equipment		
VIII.H.1	Operating Equipment	75.264(t)(40)	
VIII.H.2	Standby Equipment	75.264(t)(41)	
VIII. <u> </u>	Special Requirements for Ignitable or Reactive Waste		
VIII1	Procedures for Placing Ignitable or Reactive Wastes to the Pile	75.264(t)(36)	
VIII2	Preventing Ignition	75.264(t)(3)	
VIII. <u> </u>	Special Requirements for In- compatible Wastes	75.264(g)(2) & 75.264(t)(37) and (38)	
VIII. <u> </u>	Double Liner Systems	75.264(t)(4)(iii) and (iv)	
VIII	Treatment Facilities Receiving Leachate and Run-off for Storage	75.264(t)(10) through (12)	
VIII	Special Requirements for Wind Dispersal Control Mechanisms	75.264(t)(20)	
VIII	Weighing and Measuring Facilities	75.264(t)(27)	
VIII	Hours of Operation	75.264(t)(28)	
Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
VIII	Construction and Installation	75.264(t)(15) through (18)	
VIII	Vector, Odor, and Noise Control	75.264(t)(39)	
VIII	Unloading Areas	75.264(t)(41)	
VIII	Dust Control	75.264(t)(43)	
VIII	Waste Tracking	75.264(t)(44)	

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Note: Proposed regulations have substantially reordered and added to current regulations. Many revisions to the Fact Sheet and Permit Conditions will be necessary should proposed regulations not be approved.

PART IX

LANDFILL CONDITIONS

Part IX of the permit set forth conditions for landfills with which the Permittee must comply. All regulatory citations listed below refer to the Department's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
IX.A	Waste Identification	75.264(c)	
IX.B	Design and Operating Requirements		
IX.B.1	Liner System	75.264(v)(3)(xiv))
IX.B.2	Distance to Seasonal High Ground- water Table	75.264(v)(3)(xv)	
IX.B.3	Outer Perimeter of Liner	75.264(v)(3)(xvi))
IX.B.4	Conveyance and Storage System for Conveying and Storing Leachate from Leachate and Runoff System	75.264(v)(3)(xvii	11)

IX.B.5	Leachate Detection Zone Tanks	75.264(v)(3)(xix)
IX.B.6	Surface Water Management	75.264(v)(3)(vii)
IX.B.7	Run-off	75.264(v)(3)(viii)
IX.B.8	Run-on	75.264(v)(3)(ix)
IX.B.9	Surface Water Percolation	75.264(v)(4)(viii)
IX.B.10	Static and Dynamic Loadings	75.264(v)(3)(xiii)
IX.B.11	Compaction of Waste	75.264(v)(4)(x)
IX.B.12	Wind Dispersal	75.264(v)(4)(i)

Condition	Subject	(25 Pa. Code)	Application in
IX.C	Municipal Waste	75.264(v)(4)(iv)	
IX.D	Liquid Waste	75.264(v)(4)(v)	
IX.E	Special Requirements for Containers	75.264(v)(4)(vi)	
IX.F	Burning of Solid Waste	75.264(v)(4)(xiv)	
IX.G	Access Roads	75.264(v)(4)(i)	
IX.H	Buffer Zones	75.264(v)(3)(iv)	
IX.I	Equipment	75.264(v)(4)(ix)	
IX	Special Requirements for Ignitable or Reactive Wastes	75.264(v)(4)(iii)	
IX	Special Requirements for Incom- patible Waste	75.264(v)(4)(ii)	
IX	Weighing or Measuring Facilities	75.264(v)(3)(11)	
IX	Hours of Operation	75.264(v)(3)(111)	,
IX	Migration of Leachate into New Facilities	75.264(v)(4)(xvii))
IX	Construction and Installation	75.264(v)(3)(xx) through (xxii)	
IX	Treatment Facilities for Leachate	75.264(v)(3)(xxii	L) .

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	and Run-off	through (xxv)
[X	Daily and Intermediate Cover	75.264(v)(3)(x)
[X	Final Grades	.75.264(v)(3)(v) or (vi)
[X	Gas Venting Systems	75.264(v)(3)(xii)
[X	Vector, Odor, and Noise Control	75.264(v)(4)(viii)
[X	Unloading Areas	75.264(v)(4)(xii)

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
IX	Dust Control	75.264(v)(4)(xv)	
IX	Litter Control	75.264(v)(4)(xvi)	
IX	Application of Leachate	75.264(v)(4)(xviii)	
IX	Waste Tracking	75.264(v)(4)(xvi	i)

PART X

STORAGE AND TREATMENT SURFACE IMPOUNDMENT CONDITIONS

Part X of the permit sets forth conditions for storage and treatment surface impoundments with which the Permittee must comply. All regulatory citations listed below refer to the Department's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
X.A	Waste Identification	75.264(c)	
X.B	Duration of Storage		
X.C	Design and Operating Requirements		

X.C.1	Liner Requirements	75.264(s)(3)(xvii)
X.C.2	Distance to Seasonal High Ground- water Table	75.264(s)(3)(xxii)
X.C.3	Outer Perimeter of Liner	75.264(s)(3)(xxiii)
X.C.4	Freeboard Requirement	75.264(s)(3)(i)
X.C.5	Waste Feed Shutoff	75.264(s)(3)(xiv)
X.C.6	Structural Integrity of Dikes	75.264(s)(3)(xxxii)
X.C.7	Outside Slopes	75.264(s)(3)(xviii)
X.C.8	Leachate Detection Zone Tanks	75.264(s)(3)(xxv)
X.C.9	Surface-Water Measurement	75.264(s)(3)(viii)
X.C.10	Run-on	75.264(s)(3)(ix)
X.C.11	Surface-Water Percolation	75.264(s)(4)(xv)
Permit Condition	Subject	Regulation Location in (25 Pa. Code) Application
X.D.	Emergency Repairs; Contingency Plan	
X.D. X.D.1	Emergency Repairs; Contingency Plan Surface Impoundment Evaluation and Repair Plan	75.264(s)(4)(vii)
X.D. X.D.1 X.D.2	Emergency Repairs; Contingency Plan Surface Impoundment Evaluation and Repair Plan Removal from Service	75.264(s)(4)(vii) 75.264(s)(4)(viii)
X.D. X.D.1 X.D.2 X.D.3	Emergency Repairs; Contingency Plan Surface Impoundment Evaluation and Repair Plan Removal from Service Restoration to Service	75.264(s)(4)(vii) 75.264(s)(4)(viii) 75.264(s)(4)(xi)
X.D.1 X.D.2 X.D.3 X.D.4	Emergency Repairs; Contingency Plan Surface Impoundment Evaluation and Repair Plan Removal from Service Restoration to Service Closure of Surface Impoundment Removed from Service	75.264(s)(4)(vii) 75.264(s)(4)(viii) 75.264(s)(4)(xi) 75.264(s)(4)(xii)
X.D. X.D.1 X.D.2 X.D.3 X.D.4 X.E	Emergency Repairs; Contingency Plan Surface Impoundment Evaluation and Repair Plan Removal from Service Restoration to Service Closure of Surface Impoundment Removed from Service Access Roads	<pre>75.264(s)(4)(vii) 75.264(s)(4)(viii) 75.264(s)(4)(xi) 75.264(s)(4)(xii) 75.264(s)(3)(iii)</pre>
X.D. X.D.1 X.D.2 X.D.3 X.D.4 X.E X.F	Emergency Repairs; Contingency Plan Surface Impoundment Evaluation and Repair Plan Removal from Service Restoration to Service Closure of Surface Impoundment Removed from Service Access Roads Buffer Zones	<pre>75.264(s)(4)(vii) 75.264(s)(4)(viii) 75.264(s)(4)(xi) 75.264(s)(4)(xii) 75.264(s)(3)(iii) 75.264(s)(3)(vi)</pre>
X.D. X.D.1 X.D.2 X.D.3 X.D.4 X.E X.F X.F X.G	Emergency Repairs; Contingency Plan Surface Impoundment Evaluation and Repair Plan Removal from Service Restoration to Service Closure of Surface Impoundment Removed from Service Access Roads Buffer Zones Equipment	<pre>75.264(s)(4)(vii) 75.264(s)(4)(viii) 75.264(s)(4)(xi) 75.264(s)(4)(xii) 75.264(s)(3)(iii) 75.264(s)(3)(vi) 75.264(s)(3)(vi) 75.264(s)(4)(xvi) and (xvii)</pre>
X.D. X.D.1 X.D.2 X.D.3 X.D.4 X.E X.F X.G X	Emergency Repairs; Contingency Plan Surface Impoundment Evaluation and Repair Plan Removal from Service Restoration to Service Closure of Surface Impoundment Removed from Service Access Roads Buffer Zones Equipment Special Requirements for Ignit- able or Reactive Waste	<pre>75.264(s)(4)(vii) 75.264(s)(4)(viii) 75.264(s)(4)(xi) 75.264(s)(4)(xii) 75.264(s)(3)(iii) 75.264(s)(3)(vi) 75.264(s)(4)(xvi) and (xvii) 75.264(s)(4)(iv)</pre>

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patible Waste Waste Analysis 75.264(s)(4)(1)X.___ X.___ Treatment of Wastes X.___ Weighing or Measuring Facilities 75.264(s)(3)(iv) x.__ Hours of Operation 75.264(s)(3)(v) X.__.1 Manfacturer's Specifications 75.264(s)(3)(xx) X.__.2 Liner System Inspection 75.264(s)(3)(xxi)X.__.3 75.264(s)(3)(xxvi) Best Engineering Practices X.__.4 Quality Control Measures 75.264(s)(3)(xxvii) Certification 75.264(s)(3)(xxviii) X. .5 X.__.6 Constructin Schedule

Condition	Subject	(25 Pa. Code)	Application in
X	Earthen Dikes	75.264(s)(3)(11) and 75.264(s)(4)(v1)	
X	Daily and Intermediate Cover	75.264(s)(3)(x)	
x	Daily Cover	75.264(s)(3)(xi)	
X	Gas Venting	75.264(s)(3)(xii)	
x	Vector, Odor, and Noise Control	75.264(s)(4)(xiv)	
x	Unloading Areas	75.264(s)(4)(xviii)	
X	Dust Control	75.264(s)(4)(xx)	
X	Waste Tracking	75.264(s)(4)(xxi)	
x	Wind Dispersal	75.264(s)(4)(xiii)

PART XI

DISPOSAL SURFACE IMPOUNDMENT CONDITIONS

Part XI of the permit sets forth conditions for disposal surface impoundments with which the Permittee must comply. All regulatory citations listed below refer to the Department's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
XI.A	Waste Identification	75.264(c)	
XI.B	Design and Operating Requirements		
XI.B.1	Liner Requirements	75.264(s)(3)(xvii)	
XI.B.2	Distance to Seasonal High Ground- water Table	75.264(s)(3)(xxii)	
XI.B.3	Outer Perimeter of Liner	75.264(s)(3)(xxiii	.)
XI.B.4	Freeboard Requirement	75.264(s)(3)(i)	
XI.B.5	Waste Feed Shutoff	75.264(s)(3)(xiv)	
XI.B.6	Structural Integrity of Dikes	75.264(s)(3)(xxxii	.)
XI.B.7	Conveyance System and Storage System for Conveying and Storing Leachate from Leachate Collection Zone and Run-off	75.264(s)(3)(xxiv)	
XI.B.8	Leachate Treatment Facilities	75.264(s)(3)(xxix)	
XI.B.9	Leachate Collection Zone Tanks	75.264(s)(3)(xxv)	
XI.B.10	Final Grades	75.264(s)(3)(vii)	
XI.B.11	Static and Dynamic Loadings	75.264(s)(3)(xiii)	
Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
XI.B.12	Outside Slopes	75.264(s)(3)(xix)	

XI.B.13	Surface-Water Management	75.264(s)(3)(viii)	
XI.B.14	Run-on	75.264(s)(3)(ix)	
XI.B.15	Surface-Water Percolation	75.264(s)(4)(xv)	
XI.C	Emergency Repairs; Contingency Plan		
XI.C.1	Surface Impoundment Evaluation and Repair Plan	75.264(s)(4)(vii)	•
XI.C.2	Removal from Service and Remedial Action	75.264(s)(4)(viii) and (ix)	
XI.C.3	Restoration to Service	75.264(s)(4)(xi)	
XI.C.4	Closure of Surface Impoundment Removed from Service	75.264(s)(4)(xii)	
XI.D	Access Roads	75.264(s)(3)(iii)	
XI.E	Buffer Zones	75.264(s)(3)(vi)	
XI.F	Equipment	75.264(s)(4)(xvi) and (xvii)	
XI	Special Requirements for Ignitable or Reactive Waste	75.264(s)(4)(iv)	
XI	Special Requirements for Incom- patible Waste	75.264(s)(4)(v)	
XI	Waste Analysis	75.264(s)(4)(i)	
XI	Weighing and Measuring Facilities	75.264(s)(3)(iv)	
XI	Hours of Operation	75.264(s)(3)(v)	
XI	Construction and Installation		
XI1	Manufacturer's Specifications	75.264(s)(3)(xx)	
Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
XI2	Cover System Inspection	75.264(s)(3)(xxi)	

Best Engineering Practices

Quality Control Measures

75.264(s)(3)(xxvi)

75.264(s)(3)(xxvii)

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XI5	Professional Engineer's Certification	75.264(s)(3)(xxviii)
XI6	Construction Schedule	
XI	Earthen Dikes	75.264(s)(3)(ii) and (4)(vi)
XI	Daily and Intermediate Cover	75.264(s)(3)(x)
XI	Daily Cover	75.264(s)(3)(xi)
XI	Gas Venting	75.264(s)(3)(xii)
XI	Vector, Odor, and Noise Control	75.264(s)(4)(xiv)
XI	Unloading Areas	75.264(s)(4)(xv)
XI	Dust Control	75.264(s)(4)(xx)
XI	Waste Tracking	75.264(s)(4)(xxi)
XI.	Wind Dispersal	75.264(s)(4)(xiii)

PART XII

LAND TREATMENT DEMONSTRATION

Part XII of the permit sets forth the conditions and procedures that are applicable to land treatment demonstration with which the Permittee must comply. All regulatory citations listed below refer to the Department's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
XII.A	Waste Identification	75.264(u)(6) through (8)	

XII.B	Demonstration, Design and Operating Requirements	75.264(u)(7) and (8)
XII.C	Testing and Analytical Procedures	75.264(u)(7) and (8)

PART XIII

LAND TREATMENT

Part XIII of the permit sets forth the conditions and procedures that are applicable to land treatment with which the Permittee must comply. All regulatory citations listed below refer to the Department's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
XIII.A	Treatment Program		
XIII.A.1	Program Description	75.264(u)(2) and (4)	
XIII.A.2	Design, Construction and Operation	75.264(u)(9)	
XIII.A.3	Treatment Zone Description	75.264(u)(5)	
XIII.B	Design and Operating Requirements		
XIII.B.1	Treatment Zone Design, Construction and Operation	75.264(u)(11)	
XIII.B.2	Run-on Control	75.264(u)(10)	
XIII.B.3	Run-off Management System	75.264(u)(12) and (13)	
XIII.B.4	Collection and Holding Facility Management	75.264(u)(14)	

XIII.B.5	Wind Dispersal Control	75.264(u)(15)
XIII.C	Food Chain Crops	75.264(u)(17) through (20)

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
XIII.D	Unsaturated Zone Monitoring (UZM)		
XIII.D.1	Monitoring Program Description	75.264(u)(21)	•
XIII.D.2	Installation of UZM System	75.264(u)(21)(11)	
XIII.D.3	Background Values	75.264(u)(21)(iii))
XIII.D.4	Soil and Soil-Pore Liquid Monitoring	75.264(u)(21)(iv)	
XIII.D.5	Sampling and Analysis Procedures	75.264(u)(21)(v)	
XIII.D.6	Statistical Significance Determination	75.264(u)(21)(vi)	
XIII.D.7	Duty to Notify	75.264(u)(21)(vii))
XIII.D.8	Option to Demonstrate Alternate Sources	75.264(u)(21)(viii	.)
XIII.D.9	Retention of UZM Plan	75.264(u)(22)	
XIII.E	Recordkeeping	75.264(u)(23)	
XIII.F	Equipment	75.264(u)(30) and (31)	
XIII.G	Access Roads	75.264(u)(36)	
XIII.H	Future Land Ownership and Usage	75.264(u)(40)	
XIII	Special Requirements for Ignit- able or Reactive Waste		
XIII1	Procedure Description	75.264(u)(28)	
XIII2	Compliance Documentation	75.264(g)(3)	
XIII	Special Requirements for Incom- patible Wastes	. .	

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XIII.__.1 Procedure Description 75.264(u)(29) and 75.264(g)(2)

75.264(g)(2)	

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
XIII2	Compliance Docuementation	75.264(g)(3)	
XIII	Unloading Areas	75.264(u)(32) and (33)	
XIII	Waste Tracking	75.264(u)(34)	
XIII	Dust Control	75.264(u)(35)	
XIII	Weighing or Measuring Facilities	75.264(u)(36) and (37)	
XIII	Operating Hours	75.264(u)(23)	
XIII.K	Vector, Odor, and Noise Control	75.264(u)(39)	~~~

PART XIV

DETECTION MONITORING CONDITIONS

Part XIV of the permit sets forth conditions for basic detection groundwater monitoring requirements with which the Permittee must comply. All regulatory citations listed below refer to Pennsylvania's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
XIV.A	Well Location and Construction	75.264(n)(4) through (8)	
XIV.B	Sampling and Analysis Procedures	75.264(n)(9) and (10)	

XIV.C	Groundwater Elevation	75.264(n)(16) and (21)
XIV.D	Background Quality and Moni- toring Parameters	75.264(n)(11) through (14)
XIV.E	Statistical Procedures	75.264(n)(17)
XIV.F	Monitoring Program and Data Evaluation	75.264(n)(15)(18) and (22)
XIV.G	Reporting and Recordkeeping and Response	75.264(n)(19),(20) (23) and (24)
XIV.H	Permit Modification	75.264(n)(20)
XIV.I	Groundwater Protection Standard	75.264(n)(2)

PART XV

GROUNDWATER QUALITY ASSESSMENT CONDITIONS

Part XV of the permit sets forth conditions for groundwater assessment requirements with which the Permittee must comply. All regulatory citations listed below refer to Pennsylvania's hazardous waste management regulations as codified in Title 25 of the Pennsylvania Code (25 Pa. Code).

Permit Condition	Subject	Regulation (25 Pa. Code)	Location in Application
XV.A	Well Location and Construction	75.264(n)(7)(8) and (20)	
XV.B	Sampling and Analysis Procedures	75.264(n)(9)(10)	
XV.C	Groundwater Elevation	75.264(n)(16)(21)	
XV.D	Monitoring Parameters	75.264(n)(20)	
XV.E	Statistical Procedures	75.264(n)(17)	

PENNSYLVANIA HAZARDOUS WASTE PERMIT STRATEGY

This document represents Phase One of the multi-year hazardous waste permit strategy for the Commonwealth of Pennsylvania. Prior to this fiscal year, the permit goals for the hazardous waste program were developed on a year-to-year basis, with little focus on a long term program. This strategy reflects Pennsylvania's attempt to align its program with the National Permits Strategy for FY85, and to develop long range permit goals over the next several years.

I. Receiving Permit Applications

A. Calling-In Permit Applications

In an effort to determine the number of actual hazardous waste facilities, all Pennsylvania Part Bs were called in over a 7-month period beginning in October 1982. This caused a great number of facilities to alter their management of hazardous wastes when faced with the prospect of preparing a costly permit application. By June 1983, over 600 Part Bs were called in. As of December 1984, the state had received 176 permit applications, consisting of the following: 33 land disposal, 10 incinerator, and 133 storage/treatment facilities (Attachment I).

B. New Applications

Consistent with EPA's priorities scheme, Pennsylvania assigns high priority to proposed off-site permit applications. In several instances, a new facility will be proposed to replace an older facility which does not meet DER's design requirements, providing a significant environmental benefit. When a developer approaches DER with a proposal, the state attempts to work closely with the applicant to expedite the permit process.

Because these new applications will replace existing applications in terms of priorities, it may be necessary for DER to renegotiate its grant commitments with EPA from time to time.

C. Emergency Permits

At this time, EPA issues RCRA emergency permits with DER providing concurrence and on-site inspections as required. It is not anticipated that these permits will significantly impact the Pennsylvania permit program.

II. Resources

A. Organization

The Pennsylvania hazardous waste program is managed by the Bureau of Solid Waste Management. The organizational structure to implement this program consists of six regional offices and a central office in Harrisburg. Each regional office is headed by a Solid Waste Manager and assisted by a technical staff under the supervision of a Facilities Chief and an Operations Chief. The Facilities Chief is responsible for the review and issuance of permits; the Operations Chief handles matters relating to inspection and compliance. All permit issuance is carried out on the regional level with the Central Office providing permit coordination and direction, technical assistance, and in the near future, permit oversight activities. Attachment II illustrates the proposed organizational structure of the Bureau, which is currently awaiting final approval.

B. Funding

Percent of grant funding allocated to permitting: 51.5% after accounting for program management.

RCRA work years in the state for FY85: 71.3

Number of work years for permit activities: 33.0 (3.04 permit oversight) Total permitting work years: 30.0

Resource distribution across activities is consistent with the RCRA Implementation Plan.

for

C. State Resources Available for Processing Permit Applications

Attachment III illustrates the breakdown of the FY85 facility staff, both regional and Central Office, and the estimated time that each position is committed to hazardous waste permit activities. Staff time is also spent on related permitting activities, including closure activities, permit-by-rule determinations, transporter licensing and variance reviews.

D. Skill Mix of Permitting Staff

All Pennsylvania permitting staff have technical backgrounds with at least one position in each region and the Central Office from each of the following disciplines: engineering, hydrogeology, soil science, and environmental chemistry. The state believes that this skill mix is complementary for permitting purposes. The permitting staff does not become involved with compliance, except as it relates specifically to permit issuance (e.g., ground water monitoring or application deficiencies).

When preparing the FY85 permit commitments, it was determined that Pennsylvania's ability to process land disposal closures and permits would be limited by the availability of the hydrogeologists' time, which amounts to 10 work years state-wide.

- E. Alternatives to Program Resources
 - 1. Contractor Support

Depending on the availability of RCRA supplemental funding, Pennsylvania has requested such money be applied towards the processing of land disposal applications in the Pittsburgh and Meadville Regions and incinerator permits in the Norristown Region.

2. Workload Sharing With EPA

The state depends on EPA to offer guidance on specific permit issues on an as-needed basis. In addition, the state intends to communicate as frequently

as is necessary to see that the dual permitting process runs smoothly. This will be done informally between the individual DER and EPA permit writers, and via a biweekly conference call between Central Office and the EPA permit staff.

3. Allocation of Time by Specialists Within DER

The Pennsylvania hazardous waste program, in some instances, interfaces with other environmental protection programs such as Air Quality and Water Quality. An agreement was reached with the Bureau of Water Quality regarding the processing of permits requiring concurrent approval. A similar arrangement with Air Quality will be developed in the coming months to facilitate the processing of incinerator permits. It was felt that working cooperatively with the other bureaus would bring more expertise to the hazardous waste permit program than creating new positions within the Bureau.

4. Other Provisions

DER recently requested an IPA position to coordinate a Central-Office permit quality assurance team. This team will review draft permits from the regions for quality and consistency before they are sent to EPA.

- III. Permit Processing Strategy
 - A. Managing the Permit Workload
 - 1. Planned Time Frames and Workyear Requirements for Processing Steps

In preparing its FY85 grant commitments, Pennsylvania used the workload estimates presented in the Interim National Criteria for a Quality Hazardous Waste Management Program Under RCRA. In the past however, the state has found that both the workload and time frame estimates are too optimistic and do not reflect the true resources required to process a hazardous waste permit. These time frames must be expanded to compensate for the increased requirements of the RCRA reauthorization and community participation.

2. Actions When Slippage Occurs from Planned Schedules

The state utilizes a monthly milestone chart to monitor progress on the regional permitting activities. Each region is aware of its permit commitments, and if an unavoidable delay is encountered, the region must alert the Central Office and EPA, in writing, of the delay and offer either a substitute action or an adjusted time frame. The proposed Central Office permit oversight team (headed E, the IPA position) will, in addition to ensuring permit quality and consistency, be responsible for assisting the regions in handling administrative permit snags. The Central Office has always had a technical staff available to assist in technical guidance and policy regarding hazardous waste permits.

B. Improving Processing Time

Significant delays in the FY84 permit program were attributed to three items: the time lapse between the request for information from an applicant (NOD) and receipt of sufficient information, preparation of the EPA Draft Permit and Fact Sheet, and difficulties in obtaining a timely and adequate financial instrument from the applicant. The following steps outline Pennsylvania's commitment to minimize these delays in the coming year.

1. Improving Application Quality

It is the state's experience that the most effective method of obtaining an adequate NOD response is to work with the applicant. If there are several issues that need to be addressed, the applicant is encouraged to meet with the technical staft to resolve issues. Enforcement action is taken or the permit denied when appropriate in accordance with the Interim National Criteria for a Quality Hazardous Waste Program Under RCRA.

2. The DER Model Permit

DER and EPA have experienced problems in implementing the joint permitting program. To alleviate some of these problems, in November, a DER Model Permit and Fact Sheet were developed, and the state permit writers received training in their preparation. Because of the similarity between the EPA and DER documents and the fact that the regions have been preparing the EPA documents for the past several months, this is not expected to pose a problem in FY85.

3. Financial Assurance and Bonding

DER's financial requirements, proposed in December, will not become effective until June, 1985. To expedite the permit applicants' compliance with these new regulations, DER will be advising the applicants of their need to secure financial instruments before or on the effective date.

IV. Coordinating Permitting Activities With Enforcement

A. Inspecting Facilities After Call-In

JS EPA ARCHIVE DOCUMENT

All interim status facilities are inspected by the operations staff on a regular basis. Early in the application process, the facilities staff (permit writers) conducts a site visit with the inspector. Depending on the complexity of the project, a permit writer may make several site visits during the permit process. If an EPA permit writer is working concurrently on the application, this person will be included in at least one site visit. The state considers the site visit to be a vital step in the application review process.

B. Obtaining Sufficient Groundwater Data

Approximately 70% of the state's facilities have the necessary background data for either a permit issuance or denial. The remaining 30% would be brought into a compliance schedule under a Consent Order and Agreement. A permit action

- 4 -

would be worked into the Order, contingent on the applicants adherence to the compliance schedule.

C. Incomplete Part Bs

The state prefers to use permit denial in lieu of enforcement for applicants refusing to adequately address its application deficiencies. The process which the state plans to implement is described by the following steps:

- 1. A Notice of Deficiency is sent to the applicant.
- 2. If the requisite information is not received, DER may issue a Notice of Violation.
- 3. If no response is received from the NOV, DER sends a letter informing the applicant of its intent to deny the permit and terminate interim status.
- 4. A public notice is issued.
- 5. DER denies the permit and terminates the interim status of the facility.

When possible, the public notice and permit denial will be done jointly with EPA.

D. Late Part Bs

The state will use enforcement action against facilities that do not submit a Part B or closure plan. This will consist of a Notice of Violation followed by termination of interim status.

V. Public Participation

US EPA ARCHIVE DOCUMENT

The following three major steps have been taken to strengthen Pennsylvania's public participation program as it relates to hazardous wastes. It should be noted that the implementation of any community participation plan must be expected to have a corresponding effect on the permit process, both in terms of time and resources, the impact of which will be commensurate with the complexity of the plan.

- A. In December, Pennsylvania submitted its proposed regulations to the Environmental Quality Board, which were designed to be consistent with the RCRA 40 CFR 124 standards concerning public notification.
- B. In accordance with the Pennsylvania Special Conditions FY85 RCRA Grant -EPA and the state are to develop a format for preparing a draft public involvement plans for environmentally significant facilities. The state has commented on a draft version prepared by EPA.
- C. With federal funding, the state commissioned a study by the firm of Rogers, Golden and Halpern entitled "Public Participation Program for the Hazardous Waste Management in Pennsylvania". This document, completed in draft in September, specifically outlines a Model Permitting Process as it relates to public participation. When finalized, this process will encompass all of the Pennsylvania requirements for public participation.

- 5 -

VI. RCRA Reauthorization Amendments

The RCRA amendments will result in significant changes to the current DER-EPA joint permitting process. The following items will be analyzed for their impact on the process and a schedule for implementation developed when EPA provides the state with the appropriate guidelines. Wherever necessary, DER will be able to request additional information from applicants under subsection 75.280(c) of its proposed regulations to expedite the transition to the new requirement.

A. Double Liner Requirements

The state will be evaluating EPA's new requirements for disposal facilities to determine if they are more stringent than the existing DER double liner requirements.

B. Continuing Releases

The new requirement to address corrective action for continuing releases may require DER to reevaluate many of the applicants that are already substantially into the review process. This provision alone may prove to have the greatest influence on the scheduling of permit actions.

C. Bulk Liquid Disposal

DER currently prohibits the disposal of liquids in landfills, so that the new EPA requirment is not expected to pose any problems to the existing permit process.

D. Exposure and Health Assessments

It is difficult to predict how the public exposure and health assessment requirement will affect Pennsylvania permits. Because of the August 8 deadline, DER and EPA will need to work quickly on determining what is expected in these documents, and relaying this information to the applicants.

E. Acceleration of Permits

The accelerated permit schedules for land disposal and incineration facilities should not greatly affect the state permit program since (1) all existing hazardous waste applications have been received and (2) these types of applications have received priority status. Dependent on the previously discussed provisions of the Act, these applications will be scheduled for final determination before FY 1989 (FY 1988 for incinerators).

F. Innovative Processes

Pending EPA guidance on R&D and developmental permits for innovative treatment/disposal methods, DER wishes to investigate the feasibility of issuing short-term permits to promote these activities.

Attachments

ATTACHMENT 1

EPA ARCHIVE DOCUMENT

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PENNSYLVANIA PART & APPLICATIONS

LAND DISPOSAL

REGION

1 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 6 7 8 9 0 11 2 3 4 5 8 9 0 11 2 3 4 5 8 9 0 11 2 3 4 5 8 9 0 11 2 3 4 5 8 9 0 1 1 2 3 4 5 1 2 3 4 5 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 2 3 2 3	ALCOA FASTENERS NATIONAL STANDARD RAYMARK ENVIROSAFE BETHLEHEM STEEL - STEELTON GENERAL ELECTRIC - ERIE NATIONAL FORGE - IRVINE SECHAN LIMESTONE STACKPOLE CORPORATION CARPENTER TECHNOLOGY ARCO PETROLEUM GENERAL BATTERY - ALSACE TWP. CROMPTON AND KNOWLES BRUSH WELLMAN *MUNICIPAL AND INDUSTRIAL DISP. MILL SERVICE - BULGER MILL SERVICE - BULGER MILL SERVICE - YUKON JONES AND LAUGHLIN - ALIQUIPPA BETHLEHEM STEEL - JOHNSTOWN MOLYCORP KOPPERS COMPANY TONOLLI CORPORATION KTYSTONE CHEMICAL	ΤΤ ΙΙΣΣΣΣΖΖΖΖ ΟΔΔΔΔΞ33
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DuPONT - BERG ELECTRONICS	н	
BMY	н	
INDUSTRIAL WASTES REMOVAL	н	
McKESSON - HUMMELSTOWN	н	
AMP - LANDISVILLE	ТН	
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18	AMP - HARRISEURG	н
19	AMP - ELIZABETHTOWN	н
20	CAPITAL LUBRICANTS	Н
21	MINE SAFETY APPLIANCES	M
22	ROESSING BRONZE	М
23	SAFETY KLEEN - ERIE	M
24	GENERAL ELECTRIC - GROVE CITY	Μ
25	QUAKER STATE - EMLENTON	M
26	PENNZDIL	Μ
27	FEC CHEMICAL CORPORATION	M
28	QUAKER STATE - MCKEAN	M
29	INMETCO	M
30	EAST COAST CHEMICAL	N
31	ACE SERVICE	N
32	ROHM & HAAS - SPRINGHOUSE	N
33	*ROHM & HAAS - BRISTOL	N
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47	SARTOMER	N
48	SUPERIOR TUBE	N
49	CHEMCLENE	N
50	CONVERSION SYSTEMS - MARCUS HOOK	N
51	ALLIED CHEMICAL	N
52	BETZ LABS - LANGHDRNE	N
53	GENERAL ELECTRIC - VALLEY FORGE	N
54	JOHNSON MATTHEY	N
55	BOEING VERTOL	N
56	ROHM & HAAS - DELAWARE VALLEY	N
57	SUN PETROLEUM	N
58	C & D EATTERIES	N
59	GENERAL BATTERY	N
60	BP OIL	N
61	SAFETY KLEEN - KUHNSVILLE	N
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9	WITCO CHEMICAL - BUTLER	M
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12	BOYERTOWN SANITARY DISPOSAL	N
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) Put # of Federal Handlers in parenthesis.

] Place total number of inspections in this category in the brackets. Because the numbers in brackets include all types of TSDF's, they must not be included in total for major inspections as they are counted in other areas.

100% of major handlers must be inspected in FY'85.

Guidelines for groundwater monitoring facility inspections require that 67% of the facilities receive CEI's and 33% of the facilities receive CHE's with sampling.

7% of non-major generators and transporters and 25% of non-major TSDF's must be inspected in FY'85.

The selection of non-major TSDF's to be inspected must reflect these priorities:

o 1002 of all facilities permitted in FY'84

o 100% of FY'85 Call-Ins

o 100% of facilities closing in FY'85

1 100% of the TSDF's closed in FY'84 which did not receive a follow-up inspection.

100% of major TSDF's and 33% of non-major TSDF's which were not reviewed in FY'84 must be reviewed.

COMPREHENSIVE GROUND-WATER MONITORING EVALUATIONS TO BE PERFORMED IN FY 85

Second Quarter (December, January, February)

Existing

Kenametal	PAD004397683
RCA Corporation	PAD003026903
Abex Corporation	PAD004318416
Crompton and Knowles Corp.	PAD002917466
National Rolling Mills Inc.	PAD002324978
Kelly Run Sanitation Inc.	PAD004810222
David Kahn Inc.	PAD041520242
Koppers Company, Inc.	PAD056723285

Post-Closure

Fruehauf Corp. Penneco Division, Pennzal Products

PAD004338646 PAD065626822

'ourth Quarter (July, August, September)

Existing

ALCOA Fasteners Division
National Standard •
Sechan Limestone Industries, Inc.
International Metals Reclamation Company
Cabot Berylco Inc.
GROWS Inc. Landfill
Molycorp Inc.
Mill Service Inc. (Yukon Site)
Lyncott Corp.
GTE Products Corp.
Bethlehem Steel (Williamsport)

Post-Closure

Drackett Inc. Pennex Aluminum Company SPS Technologies Incorporated PAD003026663 PAD003023371 PAD002860377 PAD087561015 PAD044540136 PAD000429589 PAD030068282 PAD004835146 PAD060506805 PAD003050846 PAD003053758

PAD003038544 PAD003015716 PAD00000554

FY1985 MILESTONE CHART

TASK/ ACTIVITY		1ST QTR	2ND QTR	3RD QTR	4TH QTR	TOTAL DOLLARS	COMBINED TOTAL
'ROG DEV	F\$ S\$	\$ 24000 9120	\$ 24000 9120	\$ 24000 9120	\$ 24000 9120	\$ 96000 36480	<u>\$ 132480</u>
'ERM	F\$ S\$	\$ 305979 91571	\$305979 91571	\$305979 91571	\$305979 91571	\$1223916 366284	<u>\$1590200</u>
COMP MONIT/	F\$	\$ 136171	\$136171	\$136171	\$136171	\$ 544684	
ENF	F\$	87593	87394	87593	87593	350373	<u>\$ 895057</u>
'ROG ADMIN	F\$ S\$	\$ 138000 \$ 13099	\$138000 13099	\$138000 13099	\$138000 13099	\$ 552000 52396	<u>\$_604396</u>
OTAL	F\$ S\$	\$ 604150 201383	\$604150 201384	\$604150 201383	\$604150 201383	\$2416600 <u>805533</u>	\$3222133

US EPA ARCHIVE DOCUMENT

FUNDING OF PROGRAM ELEMENTS

	WORK-YEARS	FED\$	STATES	TOTAL\$	% <u>OF TOTA</u> L	% MINUS P <u>ROG DE</u> V
ERM	. 33	\$ 1223916	\$ 366284	\$1590200	49.4	51.5
:OMP/MON NF	IT	544684	350373	895057	27.8	29.0
ROG DEV	4	96000	36480	132480	4.0	
'ROG ADM	IN9.3	552000	52396	604396	18.8	<u> 19.5</u>
OTAL		<u>\$ 2416600</u>	<u>\$ 805533</u>	<u>\$3222133</u>	100.0	100.0

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PENNSYLVANIA FY85 PERMITTING RESOURCES

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	СО	N	WB	н	W	P	М	TOTAL	WORKYE
v Chief/Reg Mgr	1	i	1	1	1	1	1	7	
HW Permit time	0.10	0.10	0.10	0.10	0.10	0.10	0.10		0.70
cilties Chief @ 35%	2	1	1	1	1	1	1	8	
HW Permit time	0.70	0.35	0.35	0.35	0.35	0.35	0.35	•	2.80
gineer @ 75%	1	2	1	1	1	2	1	9	
HW Permit time	0.75	1.50	0.75	0.75	0.75	1.50	0.75		6.75
emist @ 60%	2	1	1	1	1	1	1	8	
HW Permit time	1.20	0.40	0.60	0.60	0.40	0.60	0.60		4.80
drogeologist	1	2	1	2	1	2	1	10	
HW Permit time	0,50	1.00	0.50	1.00	0.50	1.00	0.50		5.00
ils Scientist	1	2	1	1	1	2	1	9	
HW Permit time	0.60	1.20	0.60	0.60	0.40	1.20	0.60		5.40
c. Spec/HW Coord.	0	1	0	1	1	1	1	5	e ²
HW Permit time	0.00	0.60	0.00	0.60	0.60	0.60	0.60		з.00
•						· ••• •••			
TAL	10	11	7	9	8	11	8	64	
AILABLE WY	5.05	5.95	3.50	4.60	4.10	5.95	4.10		33
D CENTRAL OFFICE		0.75	0.75	0.75	0.75	0.75	0.75		
TAL WY	•	6.7	4.25	5.35	4.85	6.7	4.85		33