

KA 450-96-04 July 1, 1996

Cindy L. Phillips, P.E. Florida Department of Environmental Protection Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Subject: Title V/FESOP Applications

KleenSoil International, Incorporate Mobile Soil Remediation Unit #1

Dear Ms. Phillips:

Enclosed are four copies of the FESOP & Title V applications for the subject facility.

KleenSoil International, Inc. will curtail operations in order to escape Title V applicability. The HAP emissions will be below 10 tpy for any individual HAP and 25 tpy for total HAPs.

The enclosed FESOP & Title V applications are being jointly submitted. We are requesting the evaluation of the Title V application be delayed in order to allow time to evaluate the FESOP application. Once the FESOP is issued, then a request will be made to withdraw the Title V application.

No fees are associated with this request because the facility is still currently subject to Title V.

If you have any questions concerning this matter please call me at (352) 377-5822.

Sincerely,

Mark A. Hagmann

KOOGLER & ASSOCIATES

RECEIVED

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BUREAU OF AIR REGULATION



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KA 450-96-04 July 1, 1996

Will you please enter tracking get will you get the tracking and the tracking curty

Cindy L. Phillips, P.E. Florida Department of Environmental Protection Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Subject: Title V(FESOP) Applications

DRE?

KleenSoil International, Incorporate

Mobile Soil Remediation Unit #1

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Department of **Environmental Protection**

DIVISION OF AIR RESOURCES MANAGEMENT

APPLICATION FOR AIR PERMIT - LONG FORM

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

This section of the Application for Air Permit form identifies the facility and provides general information on the scope and purpose of this application. This section also includes information on the owner or authorized representative of the facility (or the responsible official in the case of a Title V source) and the necessary statements for the applicant and professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department using ELSA, this section of the Application for Air Permit must also be submitted in hard-copy.

Identification of Facility Addressed in This Application

Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility site name, if any; and the facility's physical location. If known, also enter the facility identification number.

1.	Facility Owner/Company Name:	
	KleenSoil Internat	ional, Incorporated
2.	Site Name:	
	Mobile Soil Ren	nediation Unit #1
3.	Facility Identification Number:	[X] Unknown
4.	Facility Location: (Mobile Unit)	
	Street Address or Other Locator:	
	City: County:	Zip Code:
5.	Relocatable Facility?	6. Existing Permitted Facility?
	[X] Yes [] No	[X] Yes [] No

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	7-2-96
2. Permit Number:	7770024-003-4F
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

DEP Form No. 62-210.900(1) - Form

Owner/Authorized Representative or Responsible Official

1.	Name and Title of Owner/Authorized Representative or Responsible Official:
	Trevor Cook, Vice President

2. Owner/Authorized Representative or Responsible Official Mailing Address:

Organization/Firm: KleenSoil International, Incorporated

Street Address: 13838 Harlee Road

City: Palmetto

State: Florida

Zip Code: **34221**

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:

Telephone: (941) 723-1600

Fax: (941) 772-7743

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.

Signature Cook

Effective: 3-21-96

<u>6/15/96</u>

* Attach letter of authorization if not currently on file.

2

Scope of Application

This Application for Air Permit addresses the following emissions unit(s) at the facility. An Emissions Unit Information Section (a Section III of the form) must be included for each emissions unit listed.

Emissions Unit ID	Description of Emissions Unit	Permit Type
001	Mobile Thermal Soil Remediation Plant with a Generator, Baghouse and Afterburner	
		· · · · · · · · · · · · · · · · · · ·

3

DEP Form No. 62-210.900(1) - Form

Purpose of Application and Category

Check one (except as otherwise indicated):

Category I: All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.

This Application for Air Permit is submitted to obtain:

[X	[]	Initial air operation permit under Chapter 62-213. F.A.C., for an existing facility which is classified as a Title V source.
[]	Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application would become classified as a Title V source.
		Current construction permit number:
[]	Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.
		Operation permit to be renewed:
{]	Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.
		Current construction permit number:
		Operation permit to be revised:
[]	Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. Also check Category III.
		Operation permit to be revised/corrected:
[]	Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit. Give reason for the revision: e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.
		Operation permit to be revised:
		Reason for revision:

DEP Form No. 62-210.900(1) - Form

Category II: All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.

T	his Applio	cation for Air Permit is submitted to obtain:
[-	l air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility ag classification as a synthetic non-Title V source.
		Current operation/construction permit number(s):
[-	wal air operation permit under Rule 62-210.300(2)(b), F.A.C., for a synthetic non-V source.
		Operation permit to be renewed:
[peration permit revision for a synthetic non-Title V source. Give reason for revision; o address one or more newly constructed or modified emissions units.
		Operation permit to be revised:
		Reason for revision:
C	ategory I	II: All Air Construction Permit Applications for All Facilities and Emissions Units
TI	his Applic	cation for Air Permit is submitted to obtain:
[onstruction permit to construct or modify one or more emissions units within a facility ding any facility classified as a Title V source).
		Current operation permit number(s), if any:
[onstruction permit to make federally enforceable an assumed restriction on the tial emissions of one or more existing, permitted emissions units.
		Current operation permit number(s):
ſ	l Air co	onstruction permit for one or more existing, but unpermitted, emissions units.

1

Application Processing Fee Check one: Attached - Amount: \$_____ [X] Not Applicable. Construction/Modification Information 1. Description of Proposed Project or Alterations: NA 2. Projected or Actual Date of Commencement of Construction: NA 3. Projected Date of Completion of Construction: NA **Professional Engineer Certification** 1. Professional Engineer Name: John B. Koogler, Ph.D., P.E. Registration Number: 12925 2. Professional Engineer Mailing Address: Organization/Firm: Koogler & Associates Street Address: 4014 N.W. 13th Street City: Gainesville State: FL Zip Code: 32609 3. Professional Engineer Telephone Numbers: Telephone: (352) 377-5822 Fax: (352) 377-7158

6

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

i

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein*, that:

- (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
- (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [X] if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [] if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [] if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

	6/11/14
Signature	Date
(seal)	

^{*} Attach any exception to certification statement.

Application Contact

1. Name and Title of Application Contact:

Mark Hagmann-Project Engineer

2. Application Contact Mailing Address:

Organization/Firm: Koogler & Associates Street Address: 4014 N.W. 13th Street

City: Gainesville

State: Florida

Zip Code: 32609

3. Application Contact Telephone Numbers:

Telephone: (352) 377-5822

Fax: (352) 377-7158

Application Comment

This Title V application is being jointly submitted with a FESOP application. We are requesting the evaluation of the Title V application be delayed in order to allow time to evaluate the FESOP application. As soon as the FESOP is issued, KleenSoil International, Inc. will withdraw the Title V application.

It is our understanding that Title V emissions fees have been paid through 1995 by Anderson Columbia Thermal Systems, Inc.

8

DEP Form No. 62-210.900(1) - Form

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Mobile Unit									
	Zone:	East (km)	: Nor	th (km):					
2.	Facility Latitude/La	ongitude: Mobile Unit							
	Latitude (DD/MM/	_	ongitude (DD/MM/SS):						
3.	Governmental Facility Code:	4. Facility Status Code:	5. Facility Major Group SIC Code:	6. Facility SIC(s):					
	0	A	16	1622					
He	7. Facility Comment (limit to 500 characters): This mobile unit is permitted to operate in all counties in the state of Florida except for Hernando and Okaloosa Counties where KleenSoil International, Incorporated does not plan on operating the portable soil thermal treatment unit.								
	pian on operating the portable son thermal treatment and								
:									

Facility Contact

1.	. Name and Title of Facility Contact:						
1	Trevor Cook, Vice President						
2.	2. Facility Contact Mailing Address:						
1	Organization/Firm: KleenSoil International, Incorporated						
	Street Address: 13838 Harlee Road						
	City: Palmetto State: Florida Zip Code: 34221						
3.	Facility Contact Telephone Numbers:						
	Telephone: (941) 723-1600	Fax	x: (941) 772-7743				
	-						

DEP Form No. 62-210.900(1) - Form

Facility Regulatory Classifications

'n

1.	Small Business Stationary S	Sourc	e?			
	[] Yes	[}	No	[X] Unknown	
	• •					
2.	Title V Source?					
	[X] Yes	[]	No		
3.	Synthetic Non-Title V Sour	ce?				
	[] Yes	[X	[]	No		
4.	Major Source of Pollutants				lazardous Air Pollutants (HAPs)?	
	[] Yes	[X		No		
5.	,				her than HAPs?	
	[X] Yes	l	J	No		
ــِــا		4		11 .	(IIAD NO	
6.	Major Source of Hazardous				its (HAPs)?	
	[X] Yes	Į	J	No		
<u> </u>	C. d. C. M C	TAD				
/.	Synthetic Minor Source of I			Nο		
	[] Yes	Į A	٠]	No		
-	One or More Emissions Uni	te Su	hi	ect to	NSPS')	
0.	Yes			No	11010.	
	[] 163	ſ	٠,	•••		
9.	One or More Emission Unit	s Sub	oie	ct to	NESHAP:	
	[] Yes			No		
			_			
10.	Title V Source by EPA Des	ignat	ior	1?		
	[] Yes	-		No		
	-					
11.	Facility Regulatory Classific	catio	าร	Com	ment (limit to 200 characters):	
Th	is facility will no longer be	class	ifi	ed as	a Title V source once HAPs are limited below	
	= =	ld. H	ło	weve	r, until HAP emissions are limited the facility is	
sul	oject to Title V.					
1						

B. FACILITY REGULATIONS

Rule Applicability Analysis (applications involving non Title	Required for Category e-V sources. See Insti	y II applications and ructions.)	Category III
		·	

11

DEP Form No. 62-210.900(1) - Form

Effective: 3-21-96

<u>List of Applicable Regulations</u> (Required for Category Lapplications and Category III applications involving Title-V sources. See Instructions.)

Title V Core List	F.S. 403
Rule 62-4, F.A.C.	Rule 62-204, F.A.C.
Rule 62-210, F.A.C.	Rule 62-212, F.A.C.
Rule 62-213, F.A.C.	Rule 62-214, F.A.C.
Rule 62-252, F.A.C.	Rule 62-256, F.A.C.
Rule 62-257, F.A.C.	Rule 62-281, F.A.C.
Rule 62-775, F.A.C.	Rule 62-296, F.A.C.
Rule 62-297, F.A.C.	40 CFR 82
40 CFR 52, Subpart K	
	_ 1

12

DEP Form No. 62-210.900(1) - Form

C. FACILITY POLLUTANTS

Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification			
H017	A			
	·			
	<u> </u>			

DEP Form No. 62-210.900(1) - Form

D. FACILITY POLLUTANT DETAIL INFORMATION

(NA)

Facility Pollutant Detail Information	Pollutant	of
---------------------------------------	-----------	----

1.	Pollutant Emitted:		
2.	Requested Emissions Cap:	(lb/hour)	(tons/year)
3.	Basis for Emissions Cap Code:		, , , , , , ,
4.	Facility Pollutant Comment (lim	it to 400 characters):	
	All pollutants are repor	ted in the emissions unit i	nformation section.
<u>Fa</u>	cility Pollutant Detail Informati	ion: Pollutant of	
1.	Pollutant Emitted:		
2.	Requested Emissions Cap:	(lb/hour)	(tons/year)
3.	Basis for Emissions Cap Code:		
4.	Facility Pollutant Comment (lim	it to 400 characters):	

14

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1.	Area Map Showing Facility Location:
	[] Attached, Document ID: [X Not Applicable [] Waiver Requested
	Facility Plot Plan:
2.	[] Attached, Document ID: [X Not Applicable [] Waiver Requested
3.	
	[X] Attached, Document ID:001 [] Not Applicable [] Waiver Requested
1	Precautions to Prevent Emissions of Unconfined Particulate Matter:
7.	[X] Attached, Document ID: <u>002</u> [Not Applicable [] Waiver Requested
İ	[22] / Maines, Boomman 22 - 122 - 17 - 17 - 17 - 17 - 17 - 17
5.	Fugitive Emissions Identification:
	[X] Attached, Document ID: 002 [Not Applicable [] Waiver Requested
	Supplemental Information for Construction Permit Application:
0.	[] Attached, Document ID: [X] Not Applicable
]	[] Attachea, Bocament 18:[11] Attachea, Bocament 18:
Ad	ditional Supplemental Requirements for Category I Applications Only
	List of Proposed Exempt Activities:
7.	List of Proposed Exempt Activities:
7.	List of Proposed Exempt Activities: [] Attached, Document ID: [X Not Applicable List of Equipment/Activities Regulated under Title VI:
7.	List of Proposed Exempt Activities: [] Attached, Document ID: [X Not Applicable
7.	List of Proposed Exempt Activities: [] Attached, Document ID: [X Not Applicable List of Equipment/Activities Regulated under Title VI: [] Attached, Document ID:
7.	List of Proposed Exempt Activities: [] Attached, Document ID: [X Not Applicable List of Equipment/Activities Regulated under Title VI:
7.	List of Proposed Exempt Activities: [] Attached, Document ID: [X Not Applicable List of Equipment/Activities Regulated under Title VI: [] Attached, Document ID:
8.	List of Proposed Exempt Activities: [] Attached, Document ID: [X Not Applicable List of Equipment/Activities Regulated under Title VI: [] Attached, Document ID: [] Equipment/Activities On site but Not Required to be Individually Listed [X] Not Applicable
8.	List of Proposed Exempt Activities: [] Attached, Document ID: [X Not Applicable List of Equipment/Activities Regulated under Title VI: [] Attached, Document ID: [] Equipment/Activities On site but Not Required to be Individually Listed [X] Not Applicable Alternative Methods of Operation:
8.	List of Proposed Exempt Activities: [] Attached, Document ID: [X Not Applicable List of Equipment/Activities Regulated under Title VI: [] Attached, Document ID: [] Equipment/Activities On site but Not Required to be Individually Listed [X] Not Applicable
7.8.9.	List of Proposed Exempt Activities: [] Attached, Document ID: [X Not Applicable List of Equipment/Activities Regulated under Title VI: [] Attached, Document ID: [] Equipment/Activities On site but Not Required to be Individually Listed [X] Not Applicable Alternative Methods of Operation: [] Attached, Document ID: [X Not Applicable
7.8.9.	List of Proposed Exempt Activities: [] Attached, Document ID: [X Not Applicable List of Equipment/Activities Regulated under Title VI: [] Attached, Document ID: [] Equipment/Activities On site but Not Required to be Individually Listed [X] Not Applicable Alternative Methods of Operation:

15

DEP Form No. 62-210.900(1) - Form

11. Identification of Additional Applicable Requirements:
[] Attached, Document ID: [X Not Applicable
12. Compliance Assurance Monitoring Plan:
[] Attached, Document ID: [X] Not Applicable
13. Risk Management Plan Verification:
[] Plan Submitted to Implementing Agency - Verification Attached, Document ID:
[] Plan to be Submitted to Implementing Agency by Required Date
[X] Not Applicable
14. Compliance Report and Plan:
[] Attached, Document ID: [X] Not Applicable
15. Compliance Certification (Hard-copy Required):
[] Attached, Document ID: [X] Not Applicable

	Emissions	Unit Information	Section	1of	i <u> </u>
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section
1. Regulated or Unregulated Emissions Unit? Check one:
[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
[] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.
2. Single Process, Group of Processes, or Fugitive Only? Check one:
[] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
[X] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
[] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

DEP Form No. 62-210.900(1) - Form

Emissions	Unit	Informati	on Section	1 _of	<u> </u>
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B. GENERAL EMISSIONS UNIT INFORMATION (Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1 Description of Emissions I	Init Addragged in This Section (I	imit to 60 abaractors):
1. Description of Emissions C	Jnit Addressed in This Section (I	init to 60 characters).
Me	obile Soil Thermal Treatment V	Unit
2. Emissions Unit Identification	on Number: [] No Correspo	onding ID [X] Unknown
3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major
Code: A	[] Yes [X] No	Group SIC Code: 16
6. Emissions Unit Comment (limit to 500 characters):	1
	5 TIDY 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	5 TPH mobile soil thermal treation of the some	-
	l an afterburner. Major compo bin, bin to dryer belt conveyor,	
and an afterburner.	om, om to dryer ben conveyor,	difer, generator, bagnouse,
and an atterburner.		
Emissions Unit Control Equi	nment	
<u>Dimissions our control Data</u>		
A.		
1. Description (limit to 200 ch	naracters):	
Fabric Filter-High Temperat	ure (T>250F)	
Daghausa		
Baghouse		
2. Control Device or Method	Code: 016	

18

DEP Form No. 62-210.900(1) - Form

В.	
1. Description (limit to 200 characters):	
Direct-Flame Afterburner	
2. Control Device or Method Code: 019	
C.	
1. Description (limit to 200 characters):	
2. Control Device or Method Code:	

Emissions	Linit Inf	formation	Section	1 (of 1
LUIDONIUIA		VI 1116444V		· · · · · · · · · · · · · · · · · · ·	/ <u> </u>

C. EMISSIONS UNIT DETAIL INFORMATION (Regulated Emissions Units Only)

Emissions Unit Details

1.	Initial Startup Date: NA
2.	Long-term Reserve Shutdown Date: NA
3.	Package Unit: Mobile Thermal Treatment Unit
	Manufacturer: Industrial Waste, Inc. Model Number:
4.	Generator Nameplate Rating: 0.20 MW
5.	Incinerator Information:
	Dwell Temperature: 1600 °F
	Dwell Time: 1.0 seconds
	Incinerator Afterburner Temperature: 1600 °F

Emissions Unit Operating Capacity

1.	. Maximum Heat Input Rate: 23mmBtu/hr to kiln / 22 mmBtu/hr to afterburner					
	/ 1.8 mmBtu/hr to generator					
2.	Maximum Incineration Rate:	lb/hr	tons/day			
3.	Maximum Process or Throughput Rate	2: 35.0 tons p	er hour contaminated soil			
	30	06,600 tons p	er year contaminated soil			
4.	Maximum Production Rate: NA					
			•			
5.	. Operating Capacity Comment (limit to 200 characters):					

Emissions Unit Operating Schedule

	52 weeks/year	8,760 hours/year
	24 hours/day	7 days/week
Requested Maximum O	perating Schedule:	

DEP Form No. 62-210.900(1) - Form

Emissions	Unit Information Section	1	of	1

D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only) (NA)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

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Emissions	Unit	Information	Section	1 0	ſ 1
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<u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

See Page 12	

E. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Plot Plan or Flow Diagram: Attachment 001-Final Exhaust					
15	Emission Point Type Code:					
	[] 1					
3.	Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NA					
<u> </u> 						
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA					
5.	Discharge Type Code: [] D					
6.	Stack Height: 30 feet					
	Exit Diameter: 3.0 feet					
8.	Exit Temperature: 1600 °F					

9.	Actual Volumetric Flow	Rate: 36,077 acfm					
10.	Percent Water Vapor: 2	5 %					
11.	11. Maximum Dry Standard Flow Rate: 21,583 dscfm						
12.	Nonstack Emission Poin	t Height: NA	feet				
13.	Emission Point UTM Co	ordinates:					
	Zone:	East (km):	North (km):				
14.	Emission Point Commen	t (limit to 200 charact	ers):				
Ma	ximum dry standard flo	ow rate is based on b	ack-calculating from PM emission limit.				
	7.4 lbs/hr / 0.04	4 gdscf x 7,000 grains	/lb / $60 \text{ min/hr} = 21,583 \text{ dscfm}$				
	•						

Emissions	Unit	Inforn	nation	Section	1_	_of_	1	
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F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment (1_of_4_)

1.	. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):				
	lid Waste Disposal/Industrial/Incineration etroleum Contaminated Soil)	n/Single Chamber			
2.	Source Classification Code (SCC): 5-03-00	1-02			
3.	SCC Units: Tons Burned				
4.	Maximum Hourly Rate: 35.0 tons burned per hour	5. Maximum Annual Rate: 306,600 tons burned per year			
6.	Estimated Annual Activity Factor: N/A				
7.	Maximum Percent Sulfur: N/A	8. Maximum Percent Ash: N/A			
9.	Million Btu per SCC Unit: N/A	1			
10.	Segment Comment:				

Segment Description and Rate: (2 of 4)

. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):					
In-Process Fuel: Liquified Petroleum (Propane)					
	•				
2. Source Classification Code (SCC): 3-90-0	10-89				
	10-07				
3. SCC Units: 1000 Gallons Burned					
4. Maximum Hourly Rate: 0.500 Thousand Gallons Burned	5. Maximum Annual Rate: 4,380.0 Thousand Gallons Burned				
6. Estimated Annual Activity Factor: NA					
7. Maximum Percent Sulfur: NA	8. Maximum Percent Ash: NA				
9. Million Btu per SCC Unit: 90.5	<u>,</u>				
10. Segment Comment: NA					

Emissions Unit Information Section ____1__of___1__

Segment Description and Rate: (3 of 4)

1.	Segment Description (Process/Fuel Type and Associated Operating Method/Mode):				
In-	Process Fuel: Distillate Oil (# 2 Diesel)				
2.	Source Classification Code (SCC): 3-90-0	05-89			
3.	SCC Units: 1000 Gallons Burned				
	Maximum Hourly Rate:	5. Maximum Annual Rate:			
	.3432 Thousand Gallons Burned 3006.43 Thousand Gallons Burned				
6.	Estimated Annual Activity Factor: NA				
7.	Maximum Percent Sulfur: 0.3	8. Maximum Percent Ash: NA			
9.	Million Btu per SCC Unit: 141.0				
10.	Segment Comment:				

Segment Description and Rate: (4 of 4)

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):				
In-Process Fuel: Natural Gas				
2. Source Classification Code (SCC): 3-90-0	006-89			
3. SCC Units: 1 Million Cubic Feet Burned	d			
4. Maximum Hourly Rate: 0.045 Million Cubic Feet Burned	5. Maximum Annual Rate: 394.2 Million Cubic Feet Burned			
6. Estimated Annual Activity Factor: NA				
7. Maximum Percent Sulfur: NA	8. Maximum Percent Ash: NA			
9. Million Btu per SCC Unit: 1000				
10. Segment Comment: NA				
	1.1.2			

DEP Form No. 62-210.900(1) - Form

G. EMISSIONS UNIT POLLUTANTS (Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
PM	018	NA	EL
PM10	018	NA	NS
NOX	NA	NA	NS
CO	NA	NA	EL
VOC	019	NA	EL
SO2	NA	NA	EL
H017	019	NA	EL

Emissions	Unit	Informatio	n Section	1	of 1	
E IIII 551UH5	OHIL	I III OI Matio	II OCCUUII		VI	

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information: 1 of 5

1.	. Pollutant Emitted: PM				
2.	2. Total Percent Efficiency of Control: 98 %				
3.	Potential Emissions:	7.4 lb/hour	32.4 tons/year		
	Synthetically Limited? [] Yes [X] No				
	Range of Estimated Fugitive/Other F [] 1 [] 2	[] 3	totons/year		
6.	Emission Factor: 7.4 lb/hr and 32.4 Reference: AC16-187650A, S				
7.	[X] 0 [] 1 [] 2	[]3 [] 4 [] 5		
	Calculation of Emissions (limit to 60		100 ahamatars);		
9.	Pollutant Potential/Estimated Emissi	ons Comment (limit to 2	UU cnaracters):		

Emissions Unit Information Section1of1 Allowable Emissions (Pollutant identified on front of page)				
4.8.	TOTAL DIRECTOR	o- p-6-)		
Α.				
1.	Basis for Allowable Emissions Code: Rule			
2.	Future Effective Date of Allowable Emissions:	NA		
3.	Requested Allowable Emissions and Units: NA			
4.	Equivalent Allowable Emissions:	7.4 lb/hour	32.4 tons/year	
5.	Method of Compliance (limit to 60 characters):	EPA Method 5		
6.	Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters):	of Related Operating	Method/Mode)	
	Rule Basis: 62-296.415	5(2)(a), F.A.C.		
D				
B. 1.	Basis for Allowable Emissions Code:			
2.	Future Effective Date of Allowable Emissions:			
3.	Requested Allowable Emissions and Units:			
4.	Equivalent Allowable Emissions:	lb/hr	tons/year	
5.	Method of Compliance (limit to 60 characters):			
6.	Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters):	of Related Operating	Method/Mode)	

Pollutant Detail Information: 2 of 5

1. Pollutant Emitted: CO				
2. Total Percent Efficiency of Control: NA	%			
3. Potential Emissions: 9.4	2 lb/hour 41.2 tons/year			
4. Synthetically Limited? [] Yes [X] No				
5. Range of Estimated Fugitive/Other Emission [] 1 [] 2 [] 3	to to syear			
6. Emission Factor: 100 ppm CO/ft ³ gas x (28 Reference: Rule 62-296.415(1)(b)	3/385) lb CO/ft ³ for Dryer and Afterburner			
7. Emissions Method Code: [X] 0 [] 1 [] 2	[]3 []4 []5			
8. Calculation of Emissions (limit to 600 chara	cters):			
$21,583 \text{ dscfm x } (100x10^{-6}) \text{ CO/ft}^3 \text{ x } (28/385) \text{ lb}$	$CO/ft^3 \times 60 \text{ min/hr} = 9.42 \text{ lbs/hr}$			
9.42 lbs/hr x 8760 hrs/yr x ton/2000 lbs = 41.25 tons/yr				
9. Pollutant Potential/Estimated Emissions Cor	nment (limit to 200 characters):			

Allowable Emissions (Pollutant identified on front of page)

Α.				
1.	Basis for Allowable Emissions Code: Rule			
2.	. Future Effective Date of Allowable Emissions: NA			
3.	Requested Allowable Emissions and Units: NA			
4.	Equivalent Allowable Emissions:	9.42 lb/hour	41.2 tons/year	
5.	Method of Compliance (limit to 60 characters):	62-297.500, F.A.C.		
6.	Pollutant Allowable Emissions Comment (Desc (limit to 200 characters):	. of Related Operating	g Method/Mode)	
В.				
1.	Basis for Allowable Emissions Code:			
2.	Future Effective Date of Allowable Emissions:			
3.	Requested Allowable Emissions and Units:			
4.	Equivalent Allowable Emissions:	lb/hr	tons/year	
5.	Method of Compliance (limit to 60 characters):			
6.	Pollutant Allowable Emissions Comment (Desc (limit to 200 characters):	. of Related Operating	g Method/Mode)	

Pollutant Detail Information: 3 of 5

1.	Pollutant Emitted: VOC			
2.	2. Total Percent Efficiency of Control: 99 %			
3.	Potential Emissions: 9.	42 lb/hour 6	1.3 tons/year	
4.	[X] Yes [] No			
5.	Range of Estimated Fugitive/Other Emissic [] 1		tons/year	
6.	Emission Factor: 20,000 PPM VOC Reference: Based on material balan	ce analysis		
7.		[]3 []4	[]5	
8. Calculation of Emissions (limit to 600 characters): 35 tons/hr soil x 2,000 lbs/ton x 20,000 ppm VOC/1,000,000 x (199) = 14.0 lbs/hr 14.0 lbs/hr x 8760 hrs/yr x ton/2000 lbs = 61.32 tons/yr				
9.	Pollutant Potential/Estimated Emissions Co	mment (limit to 200 character	rs):	
ı				

DEP Form No. 62-210.900(1) - Form

	•		
En	missions Unit Information Section <u>1</u> of	1	
Al	llowable Emissions (Pollutant identified on front	of page)	
Α.			
1.	Basis for Allowable Emissions Code: Other	_	
2.	Future Effective Date of Allowable Emissions:	NA	
3.	Requested Allowable Emissions and Units: NA		
4.	Equivalent Allowable Emissions:	14.0 lb/hour	61.3 tons/year
5.	Method of Compliance (limit to 60 characters):	62-297.410, F.A.C.	
6.	Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters):	. of Related Operatin	g Method/Mode)
	AC16-18765	50A	
В.			
1.	Basis for Allowable Emissions Code:		
2.	Future Effective Date of Allowable Emissions:		
3.	Requested Allowable Emissions and Units:		
4.	Equivalent Allowable Emissions:	lb/hr	tons/year
5.	Method of Compliance (limit to 60 characters):		
6.	Pollutant Allowable Emissions Comment (Desc.	. of Related Operating	g Method/Mode)

(limit to 200 characters):

Emissions Unit Information Section _____ of ____

Pollutant Detail Information: 4 of 5

1.	Pollutant Emitted: SO2
2.	Total Percent Efficiency of Control: NA %
3.	Potential Emissions: 15.4 lb/hour 67.6 tons/year
	Synthetically Limited? [] Yes [X] No
	Range of Estimated Fugitive/Other Emissions: NA [] 1
6.	Emission Factor: (0.003 x 2) lb/SO ₂ /lb fuel Reference: Stoichiometry
7.	Emissions Method Code: [X] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8.	Calculation of Emissions (limit to 600 characters):
34:	.2 gal/hr x 7.5 lb/gal x (0.003 x 2) lb/SO ₂ lb fuel = 15.4 lb/hr
15.	$\frac{1}{1}$ lbs/hr x 8760 hrs/yr x ton/2000 lbs = 67.6 tons/yr
9.	Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):

Emissions Unit Information Section1of1	·	
Allowable Emissions (Pollutant identified on front	of page)	
Α.		
1. Basis for Allowable Emissions Code: Other		
2. Future Effective Date of Allowable Emissions:	NA	
3. Requested Allowable Emissions and Units: NA		
4. Equivalent Allowable Emissions:	15.4 lb/hour	67.6 tons/year
5. Method of Compliance (limit to 60 characters):	Certified Fuel Anal	ysis
6. Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters):	of Related Operating	Method/Mode)
AC16-18765	0A	
B.		
1. Basis for Allowable Emissions Code:		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hr	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. (limit to 200 characters):	of Related Operating	Method/Mode)

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 1 of 1

Pollutant Detail Information: 5 of 5

1.	Pollutant Emitted: H017 (Benzene)		
2.	Total Percent Efficiency of Control:	%	
3.	Potential Emissions:	2.28 lb/hour	10.0 tons/year
	Synthetically Limited? [X] Yes [] No		
5.	Range of Estimated Fugitive/Other Emis		tons/year
6.	Emission Factor: 2.28 lb/hr and 10.0 to Reference: AC16-187650A, SC N		
		[]3 []4	[] 5
	Calculation of Emissions (limit to 600 cl		oters):
9.	Pollutant Potential/Estimated Emissions	Comment (limit to 200 chara	cters):

Eı	Emissions Unit Information Section 1 of 1				
Al	llowable Emissions (Pollutant identified on front	t of page)			
Α.					
' I.	Basis for Allowable Emissions Code: Other				
2.	Future Effective Date of Allowable Emissions:	NA			
3.	Requested Allowable Emissions and Units: NA	1			
4.	Equivalent Allowable Emissions:	2.28 lb/hour	10 tons/year		
5.	Method of Compliance (limit to 60 characters):	NA			
6.	Pollutant Allowable Emissions Comment (Descillation to 200 characters):	: of Related Operatin	g Method/Mode)		
	Basis: AC16-1	87650A			
В.					
1.	Basis for Allowable Emissions Code:				
2.	Future Effective Date of Allowable Emissions:		. –		
3.	Requested Allowable Emissions and Units:		<u> </u>		
4.	Equivalent Allowable Emissions:	lb/hr	tons/year		
5.	Method of Compliance (limit to 60 characters):				
6.	Pollutant Allowable Emissions Comment (Desc (limit to 200 characters):	. of Related Operating	g Method/Mode)		

39

	Emissions	Unit Inf	formation	Section	1 .	of 1	
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I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>1</u>

1. Visible Emissions Subtype: VE5	
2. Basis for Allowable Opacity: [X] Rule [] Other	 er
3. Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: 5 % Maximum Period of Excess Opacity Allowed: 0 min/hour	
4. Method of Compliance: EPA Method 9 (30-minutes, @ exhaust of afterburner)	
5. Visible Emissions Comment (limit to 200 characters):	
Basis: 62-296.415	
This opacity limitation applies to the final exhaust stack	
Visible Emissions Limitation: Visible Emissions Limitation of 1. Visible Emissions Subtype:	_
	<u></u>
2. Basis for Allowable Opacity: [] Rule [] Othe	r
3. Requested Allowable Opacity: Normal Conditions:	% min/hour
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters):	
40	

DEP Form No. 62-210.900(1) - Form

Emissions	Unit	Informa	tion S	Section	1 of	1

J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

Continuous Monitoring System: Continuous Monitor 1 of 1

1.	Parameter Code: EM	2. Pollutant(s): CO				
3.	CMS Requirement:	[X] Rule [] Other				
	4. Monitor Information: Manufacturer: Thermal Environmental Instruments Model Number: 48 (Thermo Electron) Serial Number: NA					
5.	Installation Date: NA					
6.	Performance Specification Test Date: N	NA				
7.	Continuous Monitor Comment (limit to	200 characters):				
Ĺ						
Cor	Continuous Monitoring System: Continuous Monitor of					
1.	Parameter Code:	2. Pollutant(s):				
3.	CMS Requirement:	[] Rule [] Other				
4.	Monitor Information:					
	Manufacturer:	Serial Number:				
5.	Model Number: Installation Date:	Seriai Nulliber.				
	Performance Specification Test Date:					
7.	Continuous Monitor Comment (limit to	200 characters):				

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

(Regulated and Unregulated Emissions Units)

PS

<u>PS</u>	D Inc	rement Consumption Determination
1.	Incre	ement Consuming for Particulate Matter or Sulfur Dioxide?
	answ or no	e emissions unit addressed in this section emits particulate matter or sulfur dioxide, ver the following series of questions to make a preliminary determination as to whether of the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. It is the first statement, if any, that applies and skip remaining statements.
	[]	The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
	[]	The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
	[]	The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
	[X]	For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
	[]	None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

		ng Code:	nt Consuming/Expand	Increment Co	3.
	[] Unknown	[] E	[X] C	PM	
	[] Unknown	[] E	[X] C	SO2	
	[] Unknown	[] E	[X] C	NO2	
			Emissions:	. Baseline Emi	4.
	0 tons/year	0 lb/hour		PM	
	0 tons/year	0 lb/hour		SO2	
	0 tons/year			NO2	
		aracters):	nment (limit to 200 ch	5. PSD Comme	5.
		. <u>. </u>			
-					

Emissions	Unit Info	rmation Section	1	of	1
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L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements for All Applications

1.	Process Flow Diagram
	[X] Attached, Document ID: 001 [] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification
	[X] Attached, Document ID: 003 [] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID: 004 [] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested
5.	Compliance Test Report
	[] Attached, Document ID:
	[] Previously submitted, Date:
	[X] Not Applicable
6.	Procedures for Startup and Shutdown
	[] Attached, Document ID: [X] Not Applicable
7.	Operation and Maintenance Plan
	[] Attached, Document ID: [X] Not Applicable
8.	Supplemental Information for Construction Permit Application
	[] Attached, Document ID: [X] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable
E .	

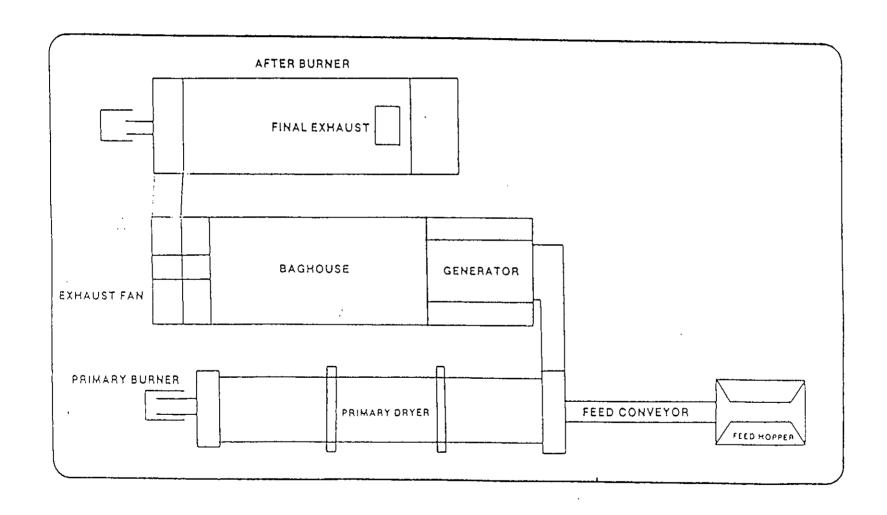
Emissions	Unit Inf	formation	Section	1 .	of	1

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
11. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
12 II. C.C. C. Addicional Applicable Descriptions
12. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
13. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
in A in it at the Province
14. Acid Rain Application (Hard-copy Required)
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:
Attached, Document 1D
Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:
[X] Not Applicable

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

MOBILE THERMAL TREATMENT UNIT



Attachment 002 SECTION II: FACILITY INFORMATION PART D: FACILITY SUPPLEMENTAL INFORMATION

OUESTION 4: Precautions to Prevent Emissions of Unconfined Particulate Matter

The handling of the processed soil and vehicle traffic will likely be the most significant sources of unconfined particulate matter emissions.

- The control of unconfined particulate matter emissions from processed soil will be controlled by water spray as necessary.
- The control of emissions resulting from vehicle movement will be controlled, as necessary, by the application of a chemical dust suppressant or water.

QUESTION 5: FUGITIVE EMISSIONS IDENTIFICATION

The generation of fugitive particulate matter emissions during the handling of contaminated soil is expected to be minimal; primarily because of the inherent moisture content of this material. If fugitive emissions do become a problem during the handling of contaminated soil (during the receiving, storage, or transfer to the processing plant), these emissions will be controlled by water sprays.

DEP Form No. 62-210.900(1) - Form

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Attachment 003

Fuel Specifications:

Kleen Soil International, Incorporated requests permission to use virgin No. 2 fuel oil, natural gas or propane for the kiln and afterburner and No. 2 fuel oil for the generator.

The fuels will be fired singularly to the kiln and afterburner. It is possible that one fuel might be fired to the kiln while a different type of fuel is fired to the afterburner. It is not proposed, however, that a mixture of two or more fuels will be fired co-currently to either the kiln or the afterburner. If the blending and co-firing of fuels does appear feasible in the future, an amendment to the permit will be requested.

FUEL ANALYSIS

	Natural Gas	No. 2 Fuel Oil	Propane
Percent Sulfur	Nil	0.30	Nil
Percent Ash	Nil	Nil	Nil
Percent Nitrogen	Nil	Nil	Nil
Density (lb/gal)	1 lb/23.8 ft ³	7.5	5.0
Heat Capacity (BTU/gal)	1,050 SCF	141,000	90,500
Other Contaminants	None	None	None

DEP Form No. 62-210.900(1) - Form

Attachment 004

Detailed Description of Control Equipment:

Baghouse:

Max No. Bags: 420 Nomex Bags; 8" diameter and 10' long

Media Area: 2931 sq. ft. Total Filter CFM: 36,077 acfm Air to Cloth Ratio: 12.3 to 1 Control Efficiency: 98.4%

Afterburner:

Control Efficiency: 99% Dwell Temperature: 1600 °F Dwell Time: 1.0 second

Incinerator Afterburner Temperature: 1600 °F

Stack Ht: 30.0 ft

Stack Diameter: 3.0 ft^2

48

DEP Form No. 62-210.900(1) - Form

5000



Department of **Environmental Protection**

DIVISION OF AIR RESOURCES MANAGEMENT

APPLICATION FOR AIR PERMIT - LONG FORM

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

This section of the Application for Air Permit form identifies the facility and provides general information on the scope and purpose of this application. This section also includes information on the owner or authorized representative of the facility (or the responsible official in the case of a Title V source) and the necessary statements for the applicant and professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department using ELSA, this section of the Application for Air Permit must also be submitted in hard-copy.

Identification of Facility Addressed in This Application

Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility site name, if any; and the facility's physical location. If known, also enter the facility identification number.

1.	Facility Owner/Company Name	:	
}	KleenSo	oil Internat	ional, Incorporated
2.	Site Name:		
	Mobi	le Soil Rer	nediation Unit #1
3.	Facility Identification Number:		[X] Unknown
4.	Facility Location: (Mobile Uni	t)	• .
	Street Address or Other Locator	:	
	City:	County:	Zip Code:
	•		
5.	Relocatable Facility?		6. Existing Permitted Facility?
ĺ	[X] Yes [] No		[X] Yes [] No
Ц			1

Application Processing Information (DEP Use)

1. Date of Receipt of Application:		
2. Permit Number: .	7770029-002-4F	
3. PSD Number (if applicable):		
4. Siting Number (if applicable):		

DEP Form No. 62-210.900(1) - Form

Owner/Authorized Representative or Responsible Official

1.	Name and Title of Owner/Authorized Representative or Responsible Official:
	Trevor Cook, Vice President

2. Owner/Authorized Representative or Responsible Official Mailing Address:

Organization/Firm: KleenSoil International, Incorporated

Street Address: 13838 Harlee Road

City: Palmetto

State: Florida

Zip Code: 34221

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:

Telephone: (941) 723-1600

Fax: (941) 772-7743

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.

Signature

___**6**//_ Date

^{*} Attach letter of authorization if not currently on file.

Scope of Application

This Application for Air Permit addresses the following emissions unit(s) at the facility. An Emissions Unit Information Section (a Section III of the form) must be included for each emissions unit listed.

		Permit
Emissions Unit ID	Description of Emissions Unit	Type
001	Mobile Thermal Soil Remediation Plant with a Generator,	AF2A
	Baghouse and Afterburner	
		-
·		
}		
]		

DEP Form No. 62-210.900(1) - Form

Purpose of Application and Category

Check one (except as otherwise indicated):

Category I: All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.

Tł	nis Application for Air Permit is submitted to obtain:
[] Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.
[] Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.
	Current construction permit number:
[] Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.
	Operation permit to be renewed:
[] Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.
	Current construction permit number:
	Operation permit to be revised:
[] Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. Also check Category III.
	Operation permit to be revised/corrected:
[] Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.
	Operation permit to be revised:
	Reason for revision:

Category II: All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain: 1 Initial air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source. Current operation/construction permit number(s): Renewal air operation permit under Rule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source. Operation permit to be renewed: \(\bigve{X} \) Air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units. Operation permit to be revised: A016-231440 Reason for revision: ESCAPE TITLE V WITH A FESOP Category III: All Air Construction Permit Applications for All Facilities and Emissions Units This Application for Air Permit is submitted to obtain: Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source). Current operation permit number(s), if any: Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units. Current operation permit number(s): ______

5

] Air construction permit for one or more existing, but unpermitted, emissions units.

DEP Form No. 62-210.900(1) - Form

Application Processing Fee	
Check one:	
[] Attached - Amount: \$	[X] Not Applicable.
Construction/Modification Information	
1. Description of Proposed Project or Alterations: NA	
2. Projected or Actual Date of Commencement of Con	nstruction: NA
3. Projected Date of Completion of Construction: NA	
Professional Engineer Certification	
1. Professional Engineer Name: John B. Koogler, P. Registration Number: 12925	h.D., P.E.
2. Professional Engineer Mailing Address:	
Organization/Firm: Koogler & Associates	
Street Address: 4014 N.W. 13th Street	7:- Codo: 22600
City: Gainesville State: FL	Zip Code: 32609
3. Professional Engineer Telephone Numbers:	ix: (352) 377-7158
Telephone: (352) 377-5822 Fa	

6 ·

DEP Form No. 62-210.900(1) - Form

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein*, that:

- (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
- (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [] if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [] if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [X] if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature Date

(seal)

^{*} Attach any exception to certification statement.

Application Contact

1. Name and Title of Application Contact:

Mark Hagmann-Project Engineer

State: Florida

Zip Code: **32609**

2. Application Contact Mailing Address:

Organization/Firm: Koogler & Associates

Street Address: 4014 N.W. 13th Street City: Gainesville

3. Application Contact Telephone Numbers:

Telephone: (352) 377-5822 Fax: (352) 377-7158

Application Comment

This application is a request for a FESOP.

KleenSoil International, Inc. will curtail operations in order to escape Title V applicability. The HAP emissions will be below 10 tpy for any individual HAP and 25 tpy for total HAPs.

No fees are associated with this request because the facility is still currently subject to Title V.

This FESOP application is being jointly submitted with a Title V application. We are requesting the evaluation of the Title V application be delayed in order to allow time to evaluate the FESOP application. As soon as the FESOP is issued, KleenSoil International, Inc. will withdraw the Title V application.

It is our understanding that Title V emissions fees have been paid through 1995 by Anderson Columbia Thermal Systems, Inc.

DEP Form No. 62-210.900(1) - Form

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1.	1. Facility UTM Coordinates: Mobile Unit					
	Zone:	East (km)): Nor	th (km):		
2.	Facility Latitude/La	ongitude: Mobile Unit				
٠	Latitude (DD/MM/	-	ongitude (DD/MM/SS):			
				1 (F 3) (10()		
3.	Governmental	4. Facility Status Code:	5. Facility Major Group SIC Code:	6. Facility SIC(s):		
	Facility Code: 0	A Code.	16	1622		
 	-					
7.	Facility Comment ((limit to 500 characters):				
He	7. Facility Comment (limit to 500 characters): This mobile unit is permitted to operate in all counties in the state of Florida except for Hernando and Okaloosa Counties where KleenSoil International, Incorporated does not plan on operating the portable soil thermal treatment unit.					

Facility Contact

1.	Name and Title of Facility Cont Tre	act: evor Cook, Vice Presid	ent	
2.	Facility Contact Mailing Address Organization/Firm: KleenSoil Street Address: 13838 Harlee City: Palmetto	International, Incorpor	rated Zip Code: 34221	
3.	Facility Contact Telephone Num Telephone: (941) 723-1600		941) 772-7743	

DEP Form No. 62-210.900(1) - Form

Facility Regulatory Classifications

1.	Small Business Stationary S	Source?	
	[] Yes	[] No	[X] Unknown
2.	Title V Source?		
	[] Yes	[X] No	
3.	Synthetic Non-Title V Source	ce?	
	[X] Yes	[] No	
4.	_		zardous Air Pollutants (HAPs)?
	[] Yes	[X] No	
_			J. HADO
5.	Synthetic Minor Source of P		er than HAPs?
	[X] Yes	[] No	
6	Major Source of Hazardous	Air Pollutants	(HAPs)?
0.	Yes	[X] No	(111 d 3):
	[] 103	[12] 110	
7.	Synthetic Minor Source of H	HAPs?	
	[X] Yes	[] No	
8.	One or More Emissions Uni		ISPS?
	[] Yes	[X] No	
9.	One or More Emission Units		ESHAP?
	[] Yes	[X] No	•
10	Title V Source by EPA Desi	anation?	
10.	Yes	[X] No	
	[] 163	[A] No	
11.	Facility Regulatory Classific	ations Commo	ent (limit to 200 characters):
			,
Th	is facility will no longer be o	classified as a	Title V source once HAPs are limited below
the	applicable Title V threshol	ld.	

B. FACILITY REGULATIONS

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

FDEP Core List		
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<u>List of Applicable Regulations</u> (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

(NA)				

Facility Pollutant Information

B- roundled is on Sm)

1. Pollutant Emitted	2. Pollutant Classification
VOC	SMPw'
HAPS	SM
Ċo	· · · · · · · · · · · · · · · · · · ·
CO Sor PM	
PM	
· .	
· · ·	
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	·

D. FACILITY POLLUTANT DETAIL INFORMATION (NA)

Facility Pollutant Detail Information: Pollutant ____ of ____

1.	Pollutant Emitted:		
2.	Requested Emissions Cap:	(lb/hour)	(tons/year)
3.	Basis for Emissions Cap Code:		
<u> </u>		400 t	
4.	Facility Pollutant Comment (limi	it to 400 characters):	
	All - alluta-ta ana nanant	ted in the emissions unit in	formation section
	An ponutants are report	ed in the chiissions unit in	ioi mation section.
L			
TC-	-: Ital Dallatant Datail Information	one Bollutant of	
<u>ra</u>	cility Pollutant Detail Information	on: PollulantOI	
1	Pollutant Emitted:	<u></u>	
1.	Tonutant Emitted.		
2.	Requested Emissions Cap:	(lb/hour)	(tons/year)
		,	` •
3.	Basis for Emissions Cap Code:		
	•		
4.	Facility Pollutant Comment (limi	t to 400 characters):	
4.	Facility Pollutant Comment (limi	t to 400 characters):	
4.	Facility Pollutant Comment (limi	t to 400 characters):	
4.	Facility Pollutant Comment (limi	t to 400 characters):	
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4.	Facility Pollutant Comment (limi	t to 400 characters):	
4.	Facility Pollutant Comment (limi	t to 400 characters):	
4.	Facility Pollutant Comment (limi	t to 400 characters):	

DEP Form No. 62-210.900(1) - Form

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1.	Area Map Showing Facility Location: [X] Not Applicable [] Waiver Requested
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
2.	Facility Plot Plan:
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3	Process Flow Diagram(s):
	[X] Attached, Document ID: <u>001</u> [] Not Applicable [] Waiver Requested
	Precautions to Prevent Emissions of Unconfined Particulate Matter:
4.	[X] Attached, Document ID:002 [] Not Applicable [] Waiver Requested
	[71] Attached, Bootament 387.
5.	Fugitive Emissions Identification:
	[X] Attached, Document ID: <u>002</u> [] Not Applicable [] Waiver Requested
6.	Supplemental Information for Construction Permit Application:
	[] Attached, Document ID: [X] Not Applicable
A	dditional Supplemental Requirements for Category I Applications Only
7.	List of Proposed Exempt Activities:
	[] Attached, Document ID: [X] Not Applicable
8.	List of Equipment/Activities Regulated under Title VI:
	[] Attached, Document ID:
	[] Equipment/Activities On site but Not Required to be Individually Listed
	[X] Not Applicable
9.	Alternative Methods of Operation:
	Alternative Methods of Operation.
	[] Attached, Document ID: [X] Not Applicable
	[] Attached, Document ID: [X] Not Applicable
	·

DEP Form No. 62-210.900(1) - Form

11. Identification of Additional Applicable Requirements:
[] Attached, Document ID: [X] Not Applicable
12. Compliance Assurance Monitoring Plan:
[] Attached, Document ID: [X] Not Applicable
13. Risk Management Plan Verification:
[] Plan Submitted to Implementing Agency - Verification Attached,
Document ID:
[] Plan to be Submitted to Implementing Agency by Required Date
CALLAT A Part 1
[X] Not Applicable
14 Compliance Deport and Plan:
14. Compliance Report and Plan: [] Attached, Document ID: [X] Not Applicable
[] Attached, Document ID [A] Not Applicable
15. Compliance Certification (Hard-copy Required):
[] Attached, Document ID: [X] Not Applicable
Attached, Document ID [A] Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section
1. Regulated or Unregulated Emissions Unit? Check one:
[X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
[] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.
2. Single Process, Group of Processes, or Fugitive Only? Check one:
[] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
[X] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.
[] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 1 01_1_1	Emissions	Unit Information Section	1 of	<u> </u>
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B. GENERAL EMISSIONS UNIT INFORMATION (Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1.	Description of Emissions Unit Addressed in This Section (limit to 60 characters):]			
Mobile Soil Thermal Treatment Unit					
2.	Emissions Unit Identification Number: [] No Corresponding ID [X] Unknown				
3.	Emissions Unit Status Code: A 4. Acid Rain Unit? [] Yes [X] No 5. Emissions Unit Major Group SIC Code: 16	-49			
6.	Emissions Unit Comment (limit to 500 characters):				
Emissions unit consists of a 35 TPH mobile soil thermal treatment unit with air pollution controlled by a baghouse and an afterburner. Major components of the emissions unit are a contaminated soil feed bin, bin to dryer belt conveyor, dryer, generator, baghouse, and an afterburner.					
HAPs are below Title V threshold based on FDEP MEMO, dated August 3, 1995, from C. H. Fancy (Subject: Methods of Determining/Quantifying HAPs). See Attachment 005.					
	issions Unit Control Equipment				
A.	Description (limit to 200 characters):				
	oric Filter-High Temperature (T>250F)	:			
Baghouse					
2.	Control Device or Method Code: 016				

DEP Form No. 62-210.900(1) - Form

B. 1. Description (limit to 200 characters): Direct-Flame Afterburner 2. Control Device or Method Code: 619 C. 1. Description (limit to 200 characters):

19

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

2. Control Device or Method Code:

Emissions	Unit	Informat	tion Section	_1(of	1	_
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C. EMISSIONS UNIT DETAIL INFORMATION (Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date:	NA
--------------------------	----

2. Long-term Reserve Shutdown Date: NA

3. Package Unit: Mobile Thermal Treatment Unit

Manufacturer: Industrial Waste, Inc. Model Number:

4. Generator Nameplate Rating: 0.20 MW

5. Incinerator Information:

Dwell Temperature: 1500 °F

Dwell Time: 1.0 seconds

Incinerator Afterburner Temperature: 1500 °F

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate: 23mmBtu/hr to kiln / 22 mmBtu/hr to afterburner					
	- -	/ 1.86 mmBtu/hr to generator	46.96			
2.	Maximum Incineration Rate:	lb/hr	tons/day			
1	Maximum Process or Throug	hout Rate: 35 0 tons per hour cont	taminated soil			

3. Maximum Process or Throughput Rate: 35.0 tons per hour contaminated soil 306,600 tons per year contaminated soil

4. Maximum Production Rate: NA

5. Operating Capacity Comment (limit to 200 characters):

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

8,760 hours/year

DEP Form No. 62-210.900(1) - Form

Emissions U	nit In	formation	Section	10	of]	[
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D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

FDEP Core List		

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section10	f <u>1</u>		
List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.) (NA)			

E. EMISSION POINT (STACK/VENT) INFORMATION (Regulated Emissions Units Only)

Emission Point Description and Type

1.	Identification of Point on Plot Plan or Flow Diagram:
	Attachment 001-Final Exhaust
2.	Emission Point Type Code:
	[] 1
3.	Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit
	to 100 characters per point): NA
	·
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA
5.	Discharge Type Code:
	[] D
6.	Stack Height: 30 feet
7.	Exit Diameter: 3.0 feet
	F. '4 T
8.	Exit Temperature: 1500 °F

Emissions Unit Information Section ___1__of__1__

9. Actual Volumetric Flow Rate: 34,325 acfm	Sty P
10. Percent Water Vapor: 25 %	
11. Maximum Dry Standard Flow Rate: 21,583 dscfm	18°F sb! 12
12. Nonstack Emission Point Height: NA	feet
13. Emission Point UTM Coordinates: Zone: East (km):	North (km):
14. Emission Point Comment (limit to 200 characters):	
Maximum dry standard flow rate is based on back-cal	culating from PM emission limit.
7.4 lbs/hr / 0.04 gdscf x 7,000 grains/lb / 60	min/hr = 21,583 dscfm
2,30	
The Alb	

Emissions Unit Information Section 1 of 1	ions Unit Information Section 1 of 1
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F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment (1 of 4)

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):		
in segment secondaria (110000)		
Solid Waste Disposal/Industrial/Incineration (Petroleum Contaminated Soil)	n/Single Chamber	
·		
2. Source Classification Code (SCC): 5-03-0	01-02	
3. SCC Units: Tons Burned		
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	
35.0 tons burned per hour	306,600 tons burned per year	
6. Estimated Annual Activity Factor: N/A	306,600 tons burned per year	
	8. Maximum Percent Ash: N/A	
6. Estimated Annual Activity Factor: N/A		
6. Estimated Annual Activity Factor: N/A7. Maximum Percent Sulfur: N/A		
 Estimated Annual Activity Factor: N/A Maximum Percent Sulfur: N/A Million Btu per SCC Unit: N/A 		
 Estimated Annual Activity Factor: N/A Maximum Percent Sulfur: N/A Million Btu per SCC Unit: N/A 		
 Estimated Annual Activity Factor: N/A Maximum Percent Sulfur: N/A Million Btu per SCC Unit: N/A 		
 Estimated Annual Activity Factor: N/A Maximum Percent Sulfur: N/A Million Btu per SCC Unit: N/A 		
 Estimated Annual Activity Factor: N/A Maximum Percent Sulfur: N/A Million Btu per SCC Unit: N/A 		
 Estimated Annual Activity Factor: N/A Maximum Percent Sulfur: N/A Million Btu per SCC Unit: N/A 		

Emissions Unit Information Section ___1_of__1_

Segment Description and Rate: (2 of 4)

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):

In-Process Fuel: Liquified Petroleum (Propane)

- 2. Source Classification Code (SCC): 3-90-010-89
- 3. SCC Units: 1000 Gallons Burned
- 4. Maximum Hourly Rate:
- 5. Maximum Annual Rate:
- 0.497 Thousand Gallons Burned
- 4.355.8 Thousand Gallons Burned
- 6. Estimated Annual Activity Factor: NA
- 7. Maximum Percent Sulfur: NA
- 8. Maximum Percent Ash: NA
- 9. Million Btu per SCC Unit: 90.5
- 10. Segment Comment: NA

march 0.497 1000 50 page 1000 gal.

5 mosti
1/000 50 page 1000 gal.

1/36 = 0.213 120 and 1012 = 115.6 1000 50

1/4

Emissions Unit Information Section ____1__of___1__

Segment Description and Rate: (3 of 4)

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):

In-Process Fuel: Distillate Oil (# 2 Diesel)

- 2. Source Classification Code (SCC): 3-90-005-89
- 3. SCC Units: 1000 Gallons Burned
- 4. Maximum Hourly Rate:
- 5. Maximum Annual Rate:
- 0.332 Thousand Gallons Burned
- 2,911.4 Thousand Gallons Burned
- 6. Estimated Annual Activity Factor: NA
- 7. Maximum Percent Sulfur:

- 8. Maximum Percent Ash: NA
- ***See Attachment 003*** 9. Million Btu per SCC Unit: 141.0
- 10. Segment Comment:

P. 20
46.86 marsh = ,332 1000 Sal = 2911,3 120 Sal
141 1000 Sal

Segment Description and Rate: (4 of 4)

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):

In-Process Fuel: Natural Gas

- 2. Source Classification Code (SCC): 3-90-006-89
- 3. SCC Units: 1 Million Cubic Feet Burned
- 4. Maximum Hourly Rate:
 0.045 Million Cubic Feet Burned
- 5. Maximum Annual Rate:
 394.2 Million Cubic Feet Burned
- 6. Estimated Annual Activity Factor: NA
- 7. Maximum Percent Sulfur: NA
- 8. Maximum Percent Ash: NA
- 9. Million Btu per SCC Unit: 1000
- 10. Segment Comment: NA

15 mmry = 0.045 mm;

1.86 = 0.013 1000 gal = 115.6 1000 gal No. 2

G. EMISSIONS UNIT POLLUTANTS (Regulated and Unregulated Emissions Units)

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device-Code	Device Code	Regulatory Code
PM	018/	NA	EL
PM10	/018	NA	NS
NOX	NA	NA	NS
СО	NA	NA	EL
VOC	(019)	NA	EL
SO2	NA	NA	EL
H017 (Benzene)	019	NA	NS -
H104 (Hexane)	019	NA	NS
H169 (Toluene)	019	NA	NS
H181 (Trimethylpentane)	019	NA	NS
H186 (Xylene)	019	NA	NS
HAPS	\019'	NA ·	N8 EL
ethylbenzine?			
hightives?			

29

DEP Form No. 62-210.900(1) - Form

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION (Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Pollutant Detail Information: 1 of 4

1.	Pollutant Emitted: PM			
				······································
2.	Total Percent Efficiency of Control: 98	%		
3.	Potential Emissions:	7.98 lb/hour		34.9 tons/year
			1	
4.	Synthetically Limited?			
	[] Yes [X] No			
5.	Range of Estimated Fugitive/Other Emi	ssions: NA		
	[] 2 [] 3	to	tons/year
6.	Emission Factor: 0.04 grains/dscf	^ A-	1 ,	
	Reference: Process Knowledge	finish in Rule		
7.	Emissions Method Code:	r 1.2	r 1 4	
	Emissions Method Code: [X] 0 [] 1 [] 2	[] 3	[] 4	[] 3
	Calculation of Emissions (limit to 600 c	haracters):		
Emissions from kiln/afterburner: 21,583 dscfm x 0.04 gdscf x 1lb/7,000 grains x 60 min/hr = 7.4 lbs/hr 500 p. 24 7.4 lbs/hr x 8760 hrs/yr x ton/2000 lbs = 32.4 tons/yr				
Generator:				
	A A A A A A A A A A A A A A A A A A A	M/) 11. a/l	
	6 mmBtu/hr from diesel fuel $x_10.31$ lb-Pl 8 lbs PM/hr x 8760 hrs/2000 lbs = 2.53 t		s (OS/Nr	
0.5	8 105 FW/III X 8/00 1115/2000 105 - 2.33 t	OHS/		
0	Pollutant Potential/Estimated Emissions	Comment (limi	t to 200 charac	ters):
<i>)</i> .	1 Official 1 Occidental Estimated Emissions	, Common (mm		

Allowable Emissions (Pollutant identified on front of page)

•

- 1. Basis for Allowable Emissions Code: Rule
- 2. Future Effective Date of Allowable Emissions: NA
- 3. Requested Allowable Emissions and Units: NA

0.04 grldsef

4. Equivalent Allowable Emissions:

7.4 lb/hour

32.4 tons/year

5. Method of Compliance (limit to 60 characters): EPA Method 5

62-297.45 62-204.800

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):

Rule Basis: 62-296.415(2)(a), F.A.C.

There are no applicable emission standards for the generator. Therefore, the allowable emissions limit in Field 4 does not include emissions associated with the generator.

B. (NA)

- 1. Basis for Allowable Emissions Code:
- 2. Future Effective Date of Allowable Emissions:
- 3. Requested Allowable Emissions and Units:
- 4. Equivalent Allowable Emissions:

lb/hr

tons/year

- 5. Method of Compliance (limit to 60 characters):
- 6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):

Pollutant Detail Information: 2 of 4

1. Pollutant Emitted: CO
2. Total Percent Efficiency of Control: NA %
3. Potential Emissions: 11.19 lb/hour 48.95 tons/year
4. Synthetically Limited? [] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: NA [] 1
6. Emission Factor: 100 ppm CO/ft ³ gas x (28/385) lb CO/ft ³ for Dryer and Afterburner Reference: Rule 62-296.415(1)(b)
7. Emissions Method Code: [X] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters): $\frac{7}{37}$
Emissions from kim/afterburner:
21,583 dscfm x 60 min/hr x (100x10-6) CO/ft ³ gas x (28/385) lb CO/ft ³ = 9.42 lbs/hr 9.42 lbs CO/hr x 8760 hrs/2000 lbs = 41.25 tons/yr
Generator:
1.86 mmBtu/hr from diesel fuel x 0.95 lb CO/mmBtu=1.77 lbs/hr 1.77 lbs CO/hr x 8760 hrs/2000 lbs = 7.7 tons/yr
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):

Allowable Emissions (Pollutant identified on front of page)

^
-

- 1. Basis for Allowable Emissions Code: Rule
- 2. Future Effective Date of Allowable Emissions: NA
- 3. Requested Allowable Emissions and Units: NA 100 ppm
- 4. Equivalent Allowable Emissions:

9.42 lb/hour

41.2 tons/year

5. Method of Compliance (limit to 60 characters): 62-297.500, F.A.C.

METHOD 10 62-204.000

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):

Rule Basis: 62-296.415(1)(b)

There are no applicable emission standards for the generator. Therefore, the allowable emissions limit in Field 4 does not include emissions associated with the generator.

B. (NA)

- 1. Basis for Allowable Emissions Code:
- 2. Future Effective Date of Allowable Emissions:
- 3. Requested Allowable Emissions and Units:
- 4. Equivalent Allowable Emissions:

lb/hr

tons/year

- 5. Method of Compliance (limit to 60 characters):
- 6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):

Emissions Unit Information Section ___1__of__1__

Pollutant Detail Information: 3 of 4

Pollutant Emitted: VOC		
2. Total Percent Efficiency of Control: 99	9 %	
3. Potential Emissions:	14.65 lb/hour	64.2 tons/year X.11 HAPS
4. Synthetically Limited? [X] Yes [] No		7.06
5. Range of Estimated Fugitive/Other Em [] 1 [] 2 [issions: NA	_ to tons/year
6. Emission Factor: 1,400 lb/hr VOC in Reference: Based on material b		
7. Emissions Method Code: [] 0	[]3 []	4 []5
8. Calculation of Emissions (limit to 600 of Afterburner destruction efficiency of 99 From soil: 20, 500 ppm 35 1,400 lb/hr VOC in Soil x (199) = 14.0 lb 14.0 tons/hr VOC x 8,760 hrs/yr / 2,000 lb/105 From generator:	1/2 min.) - ins / con /b / 20,00,00 - for / for / 1000,00	(200)= 1400 16 hr
1.86 mmBtu/hr from diesel fuel x 0.35.lb VOC/mmBtu = 0.65 lbs/hr 0.65 lbs VOC/hr x 8760 hrs/2000 lbs = 2.85 tons/yr		
9. Pollutant Potential/Estimated Emission	s Comment (limit to 200	characters):
This pollutant is synthetically limited ba	sed on limiting contam	inant level in soil. 20, συν ρρω

Allowable Emissions (Pollutant identified on front of page)

^ €	

- 1. Basis for Allowable Emissions Code: Other
- 2. Future Effective Date of Allowable Emissions: NA
- 3. Requested Allowable Emissions and Units: NA
- 4. Equivalent Allowable Emissions:

14.0 lb/hour

61.3 tons/year

5. Method of Compliance (limit to 60 characters): 62-297.410, F.A.C.

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):

AC16-187650A

There are no applicable emission standards for the generator. Therefore, the allowable emissions limit in Field 4 does not include emissions associated with the generator.

B. (NA)

- 1. Basis for Allowable Emissions Code:
- 2. Future Effective Date of Allowable Emissions:
- 3. Requested Allowable Emissions and Units:
- 4. Equivalent Allowable Emissions:

lb/hr

tons/year

- 5. Method of Compliance (limit to 60 characters):
- 6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):

Pollutant Detail Information: 4 of 4

1.	Pollutant Emitted: SO2	<u> </u>		
2.	Total Percent Efficiency of Con	ntrol: NA	Ç	%
3.	Potential Emissions:	15.4 lb/hour	(67.6 tons/year
	Synthetically Limited? [] Yes [X] No			
5.	Range of Estimated Fugitive/O [] 1 [] 2		to	tons/year
6.	Emission Factor: (0.003 x 2) II Reference: Stoichiometr			
	Emissions Method Code: [X] 0 [] 1 [
8. Fro	Calculation of Emissions (limit om Drum/Afterburner: 19 gal/hr x 7.5 lb/gal x (0.003 x 36 lbs/hr x 8760 hrs/yr x ton/20	to 600 characters): $from p$ 2) $1b/SO_2$ $1b$ fuel = 14.30 00 $1bs = 62.9$ tons/yr	4.67 0.332 17 72911,4 6 lb/hr 14,94 15 65.49	Toro gal Menocoon
Fr	om Generator:	 .:	••	
1.8 0.5	6 mmBtu/hr from diesel fuel x/0 4 lbs SO2/hr x 8760 hrs/2000 lb	0.29 lb/SO2/mmBtu = 0.3 0.5 = 2.36 tons/yr	54 lbs/hr	
9.	Pollutant Potential/Estimated E	missions Comment (lim	it to 200 characte	ers):

E	Emissions Unit Information Section <u>1</u> of <u>1</u>		
<u>A</u>	Allowable Emissions (Pollutant identified on front o	f page)	
A.			
1.	. Basis for Allowable Emissions Code: Other		
	. Future Effective Date of Allowable Emissions: N		
3.	. Requested Allowable Emissions and Units: NA	0.3 % SULFUR TWE	2 —
4.	. Equivalent Allowable Emissions:	15.4 lb/hour	67.6 tons/year
5.	Method of Compliance (limit to 60 characters): C	Certified Fuel Anal	ysis
6.	Pollutant Allowable Emissions Comment (Desc. of (limit to 200 characters):	of Related Operating	g Method/Mode)
	AC16-187650	A	
			generatively
В.	•		
1.	Basis for Allowable Emissions Code:		
2.	Future Effective Date of Allowable Emissions:		
3.	Requested Allowable Emissions and Units:		
4.	Equivalent Allowable Emissions:)/hr	tons/year
5.	Method of Compliance (limit to 60 characters):		
6.	Pollutant Allowable Emissions Comment (Desc. o (limit to 200 characters):	f Related Operating	Method/Mode)

Emissions Unit Information Section1	of	1
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I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation <u>1</u> of <u>1</u>

1.	Visible Emissions Subtype: VE5
2.	Basis for Allowable Opacity: [X] Rule [] Other
3.	Requested Allowable Opacity: Normal Conditions: 5 % Exceptional Conditions: 5 % Maximum Period of Excess Opacity Allowed: 0 min/hour
4.	Method of Compliance: EPA Method 9 (30-minutes, @ exhaust of afterburner)
5.	Visible Emissions Comment (limit to 200 characters):
	Basis: 62-296.415(2)
	This opacity limitation applies to the final exhaust stack
Vi	sible Emissions Limitation: Visible Emissions Limitation of
1.	Visible Emissions Subtype:
2.	Basis for Allowable Opacity: [] Rule [] Other
3.	Requested Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour
4.	Method of Compliance:
5.	Visible Emissions Comment (limit to 200 characters):

38

DEP Form No. 62-210.900(1) - Form

J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

Continuous Monitoring System: Continuous Monitor 1 of 1

		,		
1.	Parameter Code: EM	2. Pollutant(s): CO)	
3.	CMS Requirement:	[X] Rule	[]	Other
4.	Monitor Information:			
	Manufacturer: Thermal Environmen	ntal Instruments		
	Model Number: 48 (Thermo Electron) Serial Nu	ımber:	NA=)
5.	Installation Date: NA		Ü	
6.	Performance Specification Test Date: N	A		
7.	Continuous Monitor Comment (limit to	200 characters):		
	•	,		
		•		
		 		· · · · · · · · · · · · · · · · · · ·
<u>Co</u>	ntinuous Monitoring System: Continuo	ous Monitor of	· 	-
		· · · · · · · · · · · · · · · · · · ·		
1.	Parameter Code:	2. Pollutant(s):		
3.	CMS Requirement:	[] Rule	[]	Other
4.	Monitor Information:			
•	Manufacturer:			
	Model Number:	Serial Nu	mber:	
5	Installation Date:			
J.	instantion Pate.			
6.	Performance Specification Test Date:			
7.	Continuous Monitor Comment (limit to 2	200 characters):		
	(· · · · · · · · · · · · · · · · · · ·		

Emissions Unit Information Section 1 of 1	Em	issions	Unit	Information	Section	1 o	f 1	
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K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

(Regulated and Unregulated Emissions Units)

<u>P</u>

<u>PS</u>	D Ir	crement Consumption Determination
۱.	Inc	rement Consuming for Particulate Matter or Sulfur Dioxide?
	ans or r	me emissions unit addressed in this section emits particulate matter or sulfur dioxide, were the following series of questions to make a preliminary determination as to whether not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. eck the first statement, if any, that applies and skip remaining statements.
	[] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
	[The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
	[The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
	[X	For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
	[None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 1 of 1 2. Increment Consuming for Nitrogen Dioxide? If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements. The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment. [] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment. [] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment. [X] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment. None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

PM	onsuming/Expandi	ng Code: [] E	[] Unknown	
SO2	[X] C	įjĒ	Unknown	
NO2	[x] C	[] E	[] Unknown	
. Baseline Emi	ssions:			
PM		0 lb/hour	0 tons/year	
SO2		0 lb/hour	0 tons/year	
NO2			0 tons/year	
. PSD Comme	nt (limit to 200 cha	aracters):		

Emissions	Unit Info	ormation	Section	1 o	f 1
THUSSIUMS	OHILL THAT	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Section	1 0	

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION (Regulated Emissions Units Only)

Supplemental Requirements for All Applications

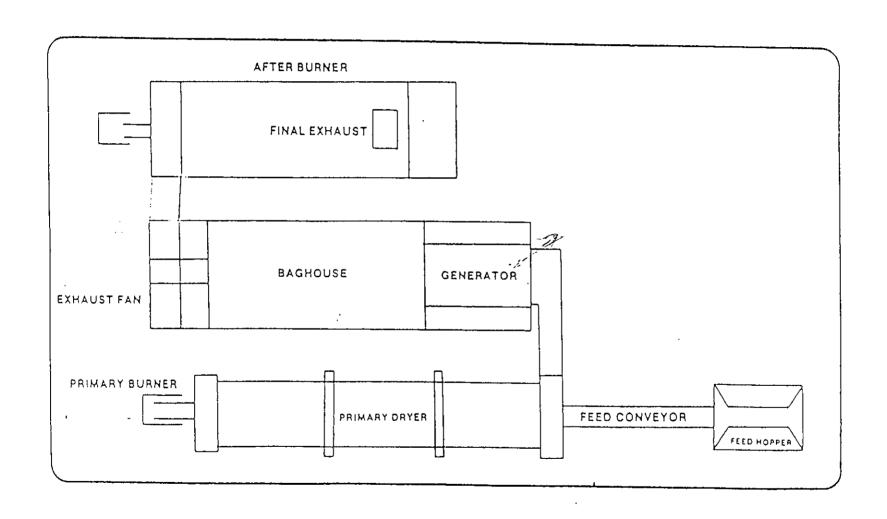
1.	Process Flow Diagram	
	[X] Attached, Document ID: 001 [] Not Applicable [] Waiver Requested	
2.	Fuel Analysis or Specification	1
	[X] Attached, Document ID: 003 [] Not Applicable [] Waiver Requested	
3.	Detailed Description of Control Equipment	
	[X] Attached, Document ID: 004 [] Not Applicable [] Waiver Requested	
4.	Description of Stack Sampling Facilities	
	[] Attached, Document ID: [] Not Applicable [X] Waiver Requested	done to ground?
5.	Compliance Test Report	
ļ	[] Attached, Document ID:	
		•
	Previously submitted, Date:	And the state of t
	[X] Not Applicable	·
6.	Procedures for Startup and Shutdown	
 	[] Attached, Document ID: [X] Not Applicable	
7.	Operation and Maintenance Plan	
	[] Attached, Document ID: [X] Not Applicable	
8.	Supplemental Information for Construction Permit Application	
	[] Attached, Document ID: [X] Not Applicable	
9.	Other Information Required by Rule or Statute	
	[] Attached, Document ID: [X] Not Applicable	

Emissions Unit Information Section	_11	of	1
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Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
11. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
12. Identification of Additional Applicable Requirements
[X] Attached, Document ID: <u>005-DEP MEMO</u> [] Not Applicable
13. Compliance Assurance Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
[] Attached, Bocament IB[14] Not Application
14. Acid Rain Application (Hard-copy Required)
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:
[] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:
[] N1/-' [
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:
Tradition, Doddinon 15
[X] Not Applicable

MOBILE THERMAL TREATMENT UNIT



Attachment 002
SECTION II: FACILITY INFORMATION
PART D: FACILITY SUPPLEMENTAL INFORMATION

QUESTION 4: Precautions to Prevent Emissions of Unconfined Particulate Matter

The handling of the processed soil and vehicle traffic will likely be the most significant sources of unconfined particulate matter emissions.

- The control of unconfined particulate matter emissions from processed soil will be controlled by water spray as necessary.
- The control of emissions resulting from vehicle movement will be controlled, as necessary, by the application of a chemical dust suppressant or water.

QUESTION 5: FUGITIVE EMISSIONS IDENTIFICATION

The generation of fugitive particulate matter emissions during the handling of contaminated soil is expected to be minimal; primarily because of the inherent moisture content of this material. If fugitive emissions do become a problem during the handling of contaminated soil (during the receiving, storage, or transfer to the processing plant), these emissions will be controlled by water sprays.

Attachment 003

Fuel Specifications

KleenSoil International, Incorporated requests permission to use virgin No. 2 fuel oil, natural gas or propane for the kiln and afterburner and No. 2 fuel oil for the generator.

The fuels will be fired singularly to the kiln and afterburner. It is possible that one fuel might be fired to the kiln while a different type of fuel is fired to the afterburner. It is not proposed, however, that a mixture of two or more fuels will be fired co-currently to either the kiln or the afterburner. If the blending and co-firing of fuels does appear feasible in the future, an amendment to the permit will be requested.

During a 30-day rolling average the sulfur content will not exceed 0.3 percent. The maximum sulfur content requested is 0.75 percent.

To provide the Department with assurance that the sulfur content of the virgin No. 2 fuel oil will neither exceed 0.75% maximum nor 0.3% on a 30-day average, Kleen Soil International, Incorporated will require oil suppliers to provide certification of the sulfur content of each shipment of fuel and the quantity of fuel contained in each shipment, Kleen Soil International, Incorporated can maintain a running average of the sulfur content of the fuels used during each month, Kleen Soil International, Incorporated can assure itself and the Department that the 30-day average sulfur content of the fuel will not exceed 0.3%. The records of fuel deliveries and the running 30-day average fuel sulfur levels will be maintained and available for the Department's review, as required by applicable state regulations.

The record keeping will include records of individual shipments of fuel and cumulative quantities of fuel received during each calendar year and records of the monthly average sulfur contents of the virgin No. 2 diesel fuel. Additionally, Kleen Soil International, Incorporated will maintain records of fuel use during each day of plant operation and of the number of hours that the plant operates each day. These records will include the amount and type of fuel consumed. FUEL ANALYSIS (

	Natural Gas	No. 2 Fuel Oil	Propane
Percent Sulfur	Nil	0.30	Nil
Percent Ash	Nil	Nil	Nil
Percent Nitrogen	Nil	Nil	Nil
Density (lb/gal)	1 lb/23.8 ft ³	7.5	5.0
Heat Capacity (BTU/gal)	1,000 SCF	141,000	90,500
Other Contaminants	None	None	None

DEP Form No. 62-210.900(1) - Form

Attachment 004

Detailed Description of Control Equipment

Baghouse:

Max No. Bags: 420 Nomex Bags; 8" diameter and 10' long

Media Area: 2931 sq. ft. Total Filter CFM: 34,325 acfm Air to Cloth Ratio: 11.7 to 1 Control Efficiency: 98.4%

Afterburner:

Control Efficiency: 99% Dwell Temperature: 1500 °F Dwell Time: 1.0 second

Incinerator Afterburner Temperature: 1500 °F

Stack Ht: 30.0 ft

Stack Diameter: 3.0 ft

DEP Form No. 62-210.900(1) - Form Effective: 3-21-96

	HAP TO VOC RATIO (percentage by weight)		
HAZARDOUS AIR POLLUTANT®	MINIHUM	ARITHMETIC AVERAGE	KAXIMUM
			••
Hexane	0.3	1.6	4.4
Benzene	0,2	. 0.9	2, 2
Toluene	0.4	1.3	4.0
2.2.4 Trimethylpentane (iso-octane)	0.03	0.8	2,-6
Xylenes	0.05	0.5	1.5
Ethylbenzene	0.03	0.1	0.5
TOTAL HAPS ^b	2.0	4.8	11.0

Cumene and naphthalene were also identified in some of the data points in small quantities. They are not shown as their addition does not significantly change the analysis.

The total HAP ratios shown in the table are not simply sums of the individual HAPs. Total HAPs were calculated for each individual sample in the data base and the values represented in the table reflect the maximum, minimum, and arithmetic average total HAPs of these samples.