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BUREAU OF AIR REGULATION

Angelo's Recycled Materials, Inc.

Cedarapids Inc. - Portable Reclaimed Aggregate Processing Plant No.2

FDEP "After-the-Fact" Construction Permit
Application

October - 1998



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

1. Date of Receipt of Application:

3. PSD Number (if applicable):4. Siting Number (if applicable):

2. Permit Number:

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:	-			
	Angelo's	Recycled I	Aaterials	s, Inc.	
2.	Site Name:				
	Angelo's Recycl	led Materia	ıls, Inc.	- Plant No.2	
3.	Facility Identification Number:			[X] Unknown	
4.	Facility Location:				
	Street Address or Other Locator:	2875 Wekiwa	Drive		
	City: Apopka	County: Oran	ge	Zip Code: 32703	
5.	Relocatable Facility?	6.	Existing Per	rmitted Facility?	
	[X] Yes [] No		[] Yes	[X] No	
Ar	plication Processing Information	on (DEP Use)			

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:

Mr. Bob Coble, General Manager

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

Organization/Firm: Angelo's Recycled Materials, Inc.

Street Address: P.O. Box 1493

City: Largo

State: Florida

Zip Code: **33779-1493**

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

Telephone: (727) 581-1544

Fax: (727) 586-5676

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

/0/28/98

^{*} 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	Cedarapids Inc., Model 3054 Jaw (Primary) Crushing Unit,	
	utilized to crush reclaimed concrete or asphalt to desired sizes.	AF2A
002	Cedarapids Inc., Model 4242 Impact (Secondary)Crushing Unit,	
	utilized to further process aggregate that was uncrushed by the	
	primary crushing unit.	
003	Cedarapids Triple Deck Screener (7 x 20') utilized to screen	
	crushed aggregate and separate and to send uncrushed, oversize	
	rock or asphalt to impact (secondary) crusher for reprocessing.	
004	Feed Conveyor (4 x 30') mounted in feeder hopper used to	
	primary crushed aggregate to screening conveyor through	
	magnet system.	
005	Screening Conveyor (4 x 50') utilized to transfer primary	
	crushed aggregate to triple deck screener.	
006	Oversize Belt (4 x 60') utilized to transfer oversized primary	
	crushed aggregate that would not pass through triple deck	
	screener to impact (secondary) crusher.	
007	Material Conveyor (4 x 65') utilized to transfer secondary	
	crushed aggregates from impact crusher back to triple deck	
	screening device.	
008	Portable Radial Stacking Belt (4 x 90') utilized to transfer	
	finished product to stockpiles or trucks.	
009	Portable Radial Stacking Belt (4 x 80') utilized to transfer	
212	finished product to stockpiles or trucks.	
010	Portable Radial Stacking Belt (4 x 60') utilized to transfer	
211	finished product to stockpiles or trucks.	
011	Caterpillar – 800 kW Generator Set used to supply power to the	
	crushing plant, fired on No. 2 Diesel Fuel, with < 0.50% sulfur	
	by weight.	
012	Fugitive Emissions from Unpaved / Paved Haul Roads.	
:012		
013	Fugitive emissions from stockpiles and conveyor drops to	
014	stockpiles from conveyor belts	
014	Cedarapids, Inc. – Vibrating Grizzly Feeder /Receiving Hopper,	
	used to vibrate material dumped into hopper by loader to jaw	
	(primary) crushing unit.	

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:
[] 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:	
[] Initial air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existin seeking classification as a synthetic non-Title V source.	g facility
Current operation/construction permit number(s):	
[] Renewal air operation permit under Rule 62-210.300(2)(b), F.A.C., for a synth Title V source.	etic non-
Operation permit to be renewed:	
[] Air operation permit revision for a synthetic non-Title V source. Give reason to e.g., to address one or more newly constructed or modified emissions units.	for revision;
Operation permit to be revised:	
Reason for revision:	
Category III: All Air Construction Permit Applications for All Facilities and En	missions
This Application for Air Permit is submitted to obtain:	
[]Air construction permit to construct or modify one or more emissions units within (including any facility classified as a Title V source).	in a facility
Current operation permit number(s), if any:	
[] Air construction permit to make federally enforceable an assumed restriction on emissions of one or more existing, permitted emissions units.	the potential
Current operation permit number(s):	
[X] Air construction permit for one or more existing, but unpermitted, emissions un	nits.

Application Processing Fee

α 1		
('h	ack.	one:
\sim 11		OHC.

\$2250.00

[X] Attached - Amount: \$ ***

***3000.00

] Not Applicable.

(\$2000.00 for generator-set and \$1000.00 for crushing plant)

Construction/Modification Information

1. Description of Proposed Project or Alterations:

This project will consist of a state-wide "after-the-fact" construction permit for a portable Cedarapids, Inc., Concrete and Reclaimed Asphalt – Aggregate Processing Unit owned and operated by Angelo's Recycled Materials, Inc. Any emissions that might be generated by various emission points throughout the crushing unit are controlled by a Self-made Water Suppression System w/ spray bars located at all the various emissions throughout the plant.

All stockpiles and roadways, where this crushing unit is located are watered on a regular basis by water truck equipped with spray bars, to control any fugitive emissions that may be generated by vehicular traffic or prevailing winds.

This facility will comply with all applicable Florida Department of Environmental Protection (FDEP) air pollution rules and regulations.

In addition, Angelo's Recycled Materials has published notification of similar crusher in newspapers throughout the state. This legal advertisement is to be found in the Supplemental Section V of this permit application.

2. Projected or Actual Date of Commencement of Construction:

ASAP

3. Projected Date of Completion of Construction:

After the Fact

Professional Engineer Certification

1. Professional Engineer Name: George C. Sinn, Jr., P.E.

Registration Number: 16911

2. Professional Engineer Mailing Address:

Organization/Firm:: Central Florida Testing Laboratories, Inc.

Street Address: 12625 - 40th Street North

City: Clearwater State: Florida Zip Code: 33762

3. Professional Engineer Telephone Numbers:

Telephone: (727) 572-9797

Fax: (727) 299-0023

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 [X] 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.

Signature STA

STATE OF

Date

*Attach any exception to certification statement.

^{**}This excludes certification of any test data, and equipment manufacturer's specifications that were certified by others.

Application Contact

1. Name and Title of Application Contact:

Mr. Bernard A. Ball, Jr., Environmental Specialist

2. Application Contact Mailing Address:

Organization/Firm: Central Florida Testing Laboratories, Inc.

Street Address: 12625 - 40th Street North

City: Clearwater

State: Florida

Zip Code: 33762

3. Application Contact Telephone Numbers:

Telephone: (727) 572-9797

Fax: (727) 299-0023

Application Comment

This project consists of a statewide "after-the-fact" construction permit application for a Cedarpids, Inc., Portable Concrete and Reclaimed Asphalt, Aggregate Processing Unit owned and operated by Angelo's Recycled Materials, Inc. Any emissions that might be generated at nine various emission points throughout the crushing unit are controlled by a self-made Water Suppression System w/ spray bars located at all the various emission points throughout the plant.

All stockpiles and roadways, where this crushing unit is located are watered on a regular basis by water truck equipped with spray bars and a long range water propulsion gun, to control any fugitive emissions that may generated by vehicular traffic or prevailing winds.

This facility is a natural non-Title V facility and will comply with all FDEP Rules and Regulations.

In addition, Angelo's Recycled Materials has published notification of similar crusher in newspapers throughout the state. This legal advertisement is to be found in the Supplemental Section V of this permit application.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1.	Facility UTM Coor	dinates:			
	Zone: 17	E	ast (km): 45	54.871 Nort	th (km): 3167.856
2.	Facility Latitude/Lo Latitude (DD/MM/	ongitude: SS): 28°38'19 "	Longi	tude (DD/MM/SS): 8	31°27'42"
3.	Governmental Facility Code:	4. Facility Sta	atus 5.	Facility Major Group SIC Code:	6. Facility SIC(s):
	<u> </u>	C		14	1439
11	Essility Comments	This project v	will comeict	a staterride fafter	the feet?? construction

11. Facility Comment: This project will consist a statewide "after-the-fact" construction permit for a portable Cedarapids, Inc. Concrete and Reclaimed Asphalt Crushing Aggregate Processing Unit owned and operated by Angelo's Recycled Materials, Inc. Any emissions that might be generated by various emission points throughout the crushing unit are controlled by a Self-Made Water Dust Suppression System w/ spray bars located at all the various emissions throughout the plant.

All stockpiles and roadways, where this crushing unit is located are watered on a regular basis by water truck equipped with spray bars, to control any fugitive emissions that may be generated by vehicular traffic or prevailing winds.

This facility will comply with all applicable Florida Department of Environmental Protection (FDEP) air pollution rules and regulations.

Facility Contact

1. Name and Title of Facility Contact:

Mr. Bob Coble, General Manager

2. Facility Contact Mailing Address:
Organization/Firm: Angelo's Recycled Materials, Inc.
Street Address: P.O. Box 1493
City: Largo State: Florida Zip Code: 33779-1493

3. Facility Contact Telephone Numbers:

Telephone: (727) 581-1544 Fax: (727) 586-5676

Facility Regulatory Classifications

1.	Small Business Stationary So	ource?	
	[] Yes	[] No	[X] Unknown
_			
2.	Title V Source?	F\$7.1 N.T	
	[] Yes	[X] No	•
3	Synthetic Non-Title V Source		
٥.	Yes	[X] No	
4.	Major Source of Pollutants (Other than Hazardous Air Pollu	utants (HAPs)?
	[] Yes	[X] No .	
	G d d CD	11	c-
5.	Synthetic Minor Source of P		
	[] Yes	[X] No	
6.	Major Source of Hazardous	Air Pollutants (HAPs)?	
	[] Yes	[X] No	
7.	Synthetic Minor Source of H		
	[] Yes	[X] No	
0	One or More Emissions Unit	g Subject to MSDS2	
ο.	Yes	[X] No	
	[] 103		
9.	One or More Emission Units	Subject to NESHAP?	
	[] Yes	[X] No	
10.	Title V Source by EPA Design	-	
	[] Yes	[X] No	
11.	Facility Regulatory Classific	ations Comment (limit to 200	characters):
		(
		itle V Source, subject to rule	es and regulations of 40 CFR
60,	subpart 000.		

B. FACILITY REGULATIONS

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

This facility will be subject to 40 CF	R, Part 60, subpart 000 i	rules and regulations.
	·	

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

62-212.200(56) FAC				
62-296.800 FAC				· .
40 CFR 60, Subpart 00	0			
40 CTR 00, Subpart 00	0			
62-296.310 (2) FAC				
62-297 FAC		· 		
62-297.340 FAC				
02-297.340 FAC				
62-210.350 FAC				
Chapter 84-446, Section	n 3(12) FS			
(2.20(.220 E.A.C.				
62-296.320 FAC				
62-296.310(3) FAC				
	•			
40 CFR 60.11 (d)				
6 4 7 4 6				
62-4 FAC				
62-210				
			,	

C. FACILITY POLLUTANTS

Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification
Particulate Matter 10	С
Nitrogen Oxides	В
Carbon Monoxide	В
Sulfur Oxides	. В
Total Organic Compounds	В

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Detail Information: Pollutant 1 of 5
1. Pollutant Emitted: PM10
2. Estimated Emissions: 5.49 ton/yr
3. Requested Emissions Cap: (#1) < 10 % Opacity from transfer points, belt conveyors, < 15 % Opacity from crusherand screener < 20% opacity from Caterpillar Gen-Set Exhaust, < 5% opacity from all vehicular traffic and roadways.
4. Basis for Emissions Cap Code: 40 CFR 60, subpart 000
5. Facility Pollutant Comment: Facility is subject to opacity limitations only.
Facility Pollutant Detail Information: Pollutant 2 of 5
1. Pollutant Emitted: NOx (Caterpillar Gen-Set)
2. Estimated Emissions: 18.26 lb/hr or 28.49 ton/yr
3. Requested Emissions Cap: < 20% Opacity
4. Basis for Emissions Cap Code: FAC 62-296.310
5. Facility Pollutant Comment: Generator subject to opacity limits only.

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Detail Information: Pollutant 3 of 5

1. Pollutant Emitted: CO (Caterpillar Gen-Set)
2. Estimated Emissions: 3.93 lb/hr or 6.14 ton/yr
3. Requested Emissions Cap: < 20% Opacity
4. Basis for Emissions Cap Code: 62-396.310
5. Facility Pollutant Comment: Generator subject to opacity limits only.
Facility Pollutant Detail Information: Pollutant4 of5
1. Pollutant Emitted: SOx (Caterpillar Gen-Set)
2. Estimated Emissions: 1.20 lb/hr or 1.87 ton/yr
3. Requested Emissions Cap: < 20% Opacity
4. Basis for Emissions Cap Code: 62-296.310
5. Facility Pollutant Comment: Generator subject to opacity limits only.

Facility	Pollutant	Detail	Information:	Pollutant	<u>5</u>	of	<u>5</u>

	Pollutant Emitted: Total TOC					
1.	Fondant Emitted. Total TOC					
2.	Estimated Emissions: 1.49 lb/hr	or 2.32 ton/yr				
3.	3. Requested Emissions Cap: : < 20% Opacity					
	Basis for Emissions Cap Code: 62					
	· •					
5.	Facility Pollutant Comment: Gene	erator subject to opacity li	imits only.			
	84					
		-				
<u>Fa</u>	cility Pollutant Detail Information	<u>n:</u> Pollutant of	·			
		n: Pollutant of				
<u>Fa</u>	cility Pollutant Detail Information Pollutant Emitted:	n: Pollutant of				
1.		n: Pollutant of	(tons/year)			
1. 2.	Pollutant Emitted: Requested Emissions Cap:					
1. 2.	Pollutant Emitted:					
 1. 2. 3. 	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code:	(lb/hour)				
1. 2. 3.	Pollutant Emitted: Requested Emissions Cap:	(lb/hour)				
 1. 2. 3. 	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code:	(lb/hour)				
1. 2. 3. 4.	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code: Facility Pollutant Comment (limit	(lb/hour) to 400 characters):	(tons/year)			
1. 2. 3.	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code:	(lb/hour) to 400 characters):				
1. 2. 3. 4.	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code: Facility Pollutant Comment (limit	(lb/hour) to 400 characters):	(tons/year)			
1. 2. 3. 4.	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code: Facility Pollutant Comment (limit	(lb/hour) to 400 characters):	(tons/year)			
 1. 2. 3. 4. 	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code: Facility Pollutant Comment (limit	(lb/hour) to 400 characters):	(tons/year)			

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1.	Area Map Showing Facility Location: [X] Attached, Document ID:I [] Not Applicable [] Waiver Requested
2	Facility Diet Diens
۷.	Facility Plot Plan: [X] Attached, Document ID:II [] Not Applicable [] Waiver Requested
3.	Process Flow Diagram(s): [X] Attached, Document ID:III [] Not Applicable [] Waiver Requested
	Precautions to Prevent Emissions of Unconfined Particulate Matter: [X] Attached, Document ID:IV [] Not Applicable [] Waiver Requested [Ill areas within facility are continuously sprayed w/ water to control fugitives.
5.	Fugitive Emissions Identification: [] Attached, Document ID: [X] Not Applicable [] Waiver Requested
6.	Supplemental Information for Construction Permit Application: [X] Attached, Document ID: V [] Not Applicable
<u>Ad</u>	ditional Supplemental Requirements for Category I Applications Only
	List of Proposed Exempt Activities: [] Attached, Document ID: [X] Not Applicable
7.	List of Proposed Exempt Activities:
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:
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

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:				
F. J. Dl. C. Lovinsky, Lo. J. L. C. A. C. M. A. C. M. A. C. L. A.				
[] Plan Submitted to Implementing Agency - Verification Attached, Document ID:				
Document ib				
Plan to be Submitted to Implementing Agency by Required Date				
[] 1 mm to so a summitted to implementally by Required 2 me				
[X] Not Applicable				
14. Compliance Report and Plan:				
[] Attached, Document ID: [X] Not Applicable				

EMISSIONS POINT No.1

PRIMARY JAW CRUSHER

Emissions Unit Information Section	1	of	14	
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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).				
[] 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.				
[X] 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.				

Emissions Unit Information Section	1_	of	14	
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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):						
Cedarapids, Inc. – Model 3054 Jaw Crusher.						
·						
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:	[] Yes [X] No	Group SIC Code:				
C		14				
6. Emissions Unit Comment (limit to 500 characters)	<u> </u>				
1	larapids, Inc. Model 3054 Jaw	Crusher				
The emission unit is a Cer	iai apius, inc. wiodei 3034 Jaw	Clushel.				
Emissions Unit Control Equipment						
A.						
1. Description (limit to 200 ch	naracters):					
	ated by this jaws crushing ur	nit are controlled by a Water				
	the feed hopper, used to damp					
, <u> </u>		ing unit. The material that is				
_	- -	ntrol emissions in the grizzly				
		as any fugitives generated by				
prevailing winds.						
I						
2. Control Device or Method	Code:					
2. Control Device of Method						
061, 062, and 99						

Emissions Unit Information Section	1	of	14
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C. EMISSIONS UNIT DETAIL INFORMATION (Regulated Emissions Units Only)

Emissions Unit Details

1. Initial Startup Date: "After	· the	Fact"
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2. Long-term Reserve Shutdown Date:

NA

- 3. Package Unit: Reclaimed Asphalt and Concrete Aggregate Processing Unit Jaw Crusher Manufacturer: Cedarapids, Inc. Model Number: 3054
- 4. Generator Nameplate Rating: NA

MW

5. Incinerator Information: NA

Dwell Temperature: °F (in the secondary chamber)

Dwell Time: seconds (minimum);

Emissions Unit Operating Capacity

- 1. Maximum Heat Input Rate: None
- 2. Maximum Incineration Rate:
- 3. Maximum Process or Throughput Rate: 200 ton/hr of reclaimed concrete or asphalt material.
- 4. Maximum Production Rate: 200 ton/hr of reclaimed concrete or asphalt material. (dependent on material characteristics)
- 5. Maximum Production Rate: 200 ton/hr as reclaimed concrete or asphalt material. (*** dependent on material characteristics)
- 5. Operating Capacity Comment:

Dampened, reclaimed concrete or asphalt material is feed into the grizzly feeder of the plant where any fugitive emissions generated are controlled by the Water Spray Dust Suppression System which sprays the material with water and dust suppression chemical before entering the jaws crusher of the plant.

*** Material characteristics consist of moisture, hardness and size.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

10 hours/day

52 weeks/year

6 days/week

3120 hours/year

Emissions	Unit	Information	Section	1	of	14	

D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

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

This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.					
	•				
·					
·					
	•				

Emissions Unit Information Section	_1_	of	<u> </u>	
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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.)

62-212.200(56) FAC		<u> </u>	:
62-296.800 FAC			
40 CFR 60, Subpart 000			
62-296.310 (2) FAC			
62-297 FAC			
62-297.340 FAC			
62-210.350 FAC			
Chapter 84-446, Section 3(12) FS			
62-296.320 FAC			
62-296.310(3) FAC			
40 CFR 60.11 (d)			
62-4 FAC			
62-210			
			-
<u> </u>			
· · · · · · · · · · · · · · · · · · ·			

Emissions	Unit	Infor	mation	Section	1	of	14	

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:
	Jaw Crushing Unit No.1 – EP. 001
2.	Emission Point Type Code:
	[] 1 [] 2 [] 3 [X] 4
2.	Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit
	to 100 characters per point):
	to 100 characters per pointy.
	Bottom of preliminary crushing unit.
	•
	TOUR A DOMESTIC OF THE STATE OF
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
	EP-001
	D'1 T C-1
Э.	Discharge Type Code:
	[] D [X] F [] H [] P
6.	Stack Height: Not Applicable (Emission Point Height ~ 3-4' above surface)
7.	Exit Diameter:
٠.	Lait Diameter.
8.	Exit Temperature:

Emissions Unit Information Section <u>1</u> of <u>14</u>.

9. Actual Volumetric	Flow Rate:	
10. Percent Water Vap	or:~4% moisture	
11. Maximum Dry Star	ndard Flow Rate:	
12. Nonstack Emission	Point Height: ~3-4 feet	
13. Emission Point UT	M Coordinates:	
Zone: 17	East (km): 454.871	North (km): 3167.856
	-	erally appear at bottom of crushing

Emissions Unit Information Section	1	of	14
---	---	----	----

F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment 1 of 1

1.	Segment Description (Process/Fuel Type ar (limit to 500 characters):	nd Associated Operating Method/Mode)
	Cedarapids Jav	w Crushing Unit
2.	Source Classification Code (SCC):	
3.	SCC Units:	
3.	Maximum Hourly Rate: 200 ton/hr	5. Maximum Annual Rate: 624,000 ton/hr
6.	Estimated Annual Activity Factor:	024,000 tom/m
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:
	NA COOLLIA NA	NA
9.	Million Btu per SCC Unit: NA	····
10.	Segment Comment (limit to 200 characters)) .

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

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM10	061, 062, and 099	NA	EL
	_		
			-

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

Pollutant Detail Information:

1. Pollutant Emitted:	
PM10	
2. Total Percent Efficiency of Control: 90 %	
3. Primary Control Device Code: 061, 062, and 099	
4. Secondary Control Device Code: NA	
5. Potential Emissions: 0.12 lb/hr or 0.18 ton/yr	
6. Synthetically Limited?	
[] Yes [X] No	
7. Range of Estimated Fugitive/Other Emissions:	
[] 1	0 tons/year
8. Emission Factor: 0.00059 lb/ton	
Reference: AP-42	
	•
9. Emissions Method Code:	
[] 1	[] 5
10. Calculation of Emissions:	0.10 4 /
$PM10_{year} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.00059 \text{ lb/ton})] / 2000 \text{ lb/ton} = 0.0000000000000000000000000000000000$	o.19 ton/yr
1 14110 Hour - (200 1011/111)(0.00039 10/1011) 0.12 10/111	

Emissions Unit Information Section __1_ of __14_.

Pollutant Potential/Estimated Emissions: Pollutant _____ of ____

1.	Pollutant Emitted:	
2	Total Percent Efficiency of Control:	
۷.	Total Percent Efficiency of Condol.	
3.	Primary Control Device Code:	
4.	Secondary Control Device Code:	
5.	Potential Emissions: lb/hour tons/year	
6.	Synthetically Limited?	
	[] Yes [] No	
7.	Range of Estimated Fugitive/Other Emissions:	
	[] 1	
8.	Emission Factor: Reference:	
9.	Emissions Method Code:	
10.	Calculation of Emissions:	
11	Pollutant Potential/Estimated Emissions Comment:	
11.	ronutant rotential/Estimated Emissions Comment.	

Emissions Unit Information Section 1 of 14.

Allowable Emissions (Pollutant identified on front of page
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mission
mission
le):
le):

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

e bee	in established are surfur dioxide, particulate matter, and introgen dioxide.
<u>PSD</u>	Increment Consumption Determination
If the answer	acrement Consuming for Particulate Matter or Sulfur Dioxide? e emissions unit addressed in this section emits particulate matter or sulfur dioxide, er the following series of questions to make a preliminary determination as to whether t the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. It 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 © 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.
	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.

Emissions	Unit	Inform	ation	Section	1	\mathbf{of}	14	

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

Pollutant Detail Information:

1.	Pollutant Emitted: PM10
4.	Total Percent Efficiency of Control: 90%
3.	Potential Emissions: lb/hour tons/year
4.	Synthetically Limited?
	[] Yes [X] No
5.	Range of Estimated Fugitive/Other Emissions:
	[] 1
6.	Emission Factor:
	Reference:
7.	Emissions Method Code:
8.	Calculation of Emissions (limit to 600 characters):

<u>2.</u>	Increment Consuming for Nitrogen Dioxide?
se ur	the emissions unit addressed in this section emits nitrogen oxides, answer the following ries of questions to make a preliminary determination as to whether or not the emission at consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies ad 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 © 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.
[] 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.
[X	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

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1	Description Discourse
1.	Process Flow Diagram [X] Attached, Document ID: III [] Not Applicable [] Waiver Requested
	[12] Premoned, Boethiem 13. 111 [] Not repplied to [] Warver resquested
2.	Fuel Analysis or Specification
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID: VI [] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID: [X] Not Applicable [] 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
	[X] Attached, Document ID: VII [X] Not Applicable
8.	
	[X] Attached, Document ID:V [] Not Applicable
	OI I C (
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable

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. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
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:
[] 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

EMISSIONS POINT No.2

SECONDARY IMPACT CRUSHER

III. EMMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

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).
 This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
- [] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.
- [X] 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.

Emissions Unit Description and Status

1. Description of Emissions U	Init Addressed in This Section:	
Cedarapids, Inc Model 424	2 Impact Crusher	
	•	
2. ARMS Identification Num	ber: [] No Correspo	onding ID [X] Unknown
2. Theris identification runn	The concept	inding ib [ik] Chikhown
3. Emissions Unit Status Code: C	4. Acid Rain Unit?	5. Emissions Unit Major Group SIC Code:
Code. C	[] Yes [X] No	14
6. Initial Startup Date (DD-M	ON-YYYY):	
7. Long-term Reserve Shutdo	•	
9 Dookoga I Init: Baslaimad Ass	NA phalt and Concrete Aggregate Proces	
Manufacturer: Cedarapid		
9. Generator Nameplate Ratin	g: NA	
10. Incinerator Information:		
Dwell Temperature: Dwell Time:		
Incinerator Temperature :		
memerator remperature.		
11. Emissions Unit Comment:		
	•	

Emissions Unit Control Equipment

<u>A.</u>	
1. Description:	
The fugitive emissions generated by this crushing unit are controlled by a Spra	v Bar
System located throughout the unit, used to dampen the material to control	
emissions generated in the crushing process. The material that is to be crushed	
dampened in it's stockpile as to control emissions in the crusher as well as any fu	gitives
generated by prevailing winds.	
2. Control Device or Method Code: 061, 062 and 099	
2. Condition Device of Medical Code. Vol., Vol. and Vo.	
В.	
1. Description:	
2. Control Device or Method Code:	
· ·	
1. Description:	
·	
2. Control Device or Method Code:	

Emissions Unit Operating Capacity

	1.	Maximum	Heat	Input	Rate:	NONE
--	----	---------	------	-------	-------	------

- 2. Maximum Incineration Rate:
- 3. Maximum Process or Throughput Rate: 200 ton/hr as reclaimed concrete or asphalt material (***dependent on material characteristics).
- 4. Maximum Production Rate: 200 ton/hr as reclaimed concrete or asphalt material (***dependent on material characteristics).
- 5. Operating Capacity Comment:

Dampened, reclaimed concrete or asphalt material is feed into the grizzly feeder of the plant where any fugitive emissions generated are controlled by the Water Spray Dust Suppression System which sprays the material with water and dust suppression chemical before entering the jaws crusher of the plant.

*** Material Characteristics consist of moisture, hardness and size.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

10 hours/day

6 days/week

52 weeks/year

3120 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

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

This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.

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

62-212.200(56) FAC
62-296.800 FAC
40 CFR 60, Subpart 000
62-296.310 (2) FAC
62-297 FAC
62-297.340 FAC
62-210.350 FAC
02-210:350 FAC
Chapter 84-446, Section 3(12) FS
62-296.320 FAC
62-296.310(3) FAC
40 CFR 60.11 (d)
62-4 FAC
62-210

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

	Emission Point Description and Type
1.	Identification of Point on Plot Plan or Flow Diagram:
	Impact Crushing Unit No.2 – EP 002
2.	Emission Point Type Code:
	[] 1
3.	Descriptions of Emissions Points Comprising this Emissions Unit:
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
•••	
	NA
5.	Discharge Type Code:
	[] D [X] F [] H [] P
	[] R
6.	Stack Height: NA
_	
7.	Exit Diameter: NA
8.	Exit Temperature:
0	Actual Volumetric Flow Rate:
<i>j</i> .	Actual volumetric flow Rate.

10. Percent Water Vapor: 4% moisture
11. Maximum Dry Standard Flow Rate: NA dscfm
12. Nonstack Emission Point Height: ~3-5 feet
13. Emission Point UTM Coordinates:
Zone: 17 East (km): 454. 871 North (km): 3167.856
14. Emission Point Comment:
·
·
·

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

1.	Segment Description (Process/Fuel Type an Reclaimed Asphalt and Concrete Aggr	d Associated Operating Method/Mode): egate Processing Unit - Impact Crusher
2.	Source Classification Code (SCC): 14	
3.	SCC Units: tons processed per hour	
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:
	200 ton/hr	624,000 ton/yr
6.	Estimated Annual Activity Factor:	
		A
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:
	NA_	NA
9.	Million Btu per SCC Unit:	
10.	Segment Comment:	

1.	Segment Description (Process/Fuel Type an	d Associated Operating Method/Mode):
		rete Aggregate Processing Unit - Impact
	3	
		•
	*	
2.	Source Classification Code (SCC):	
3.	SCC Units:	
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:
6.	Estimated Annual Activity Factor:	
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:
9.	Million Btu per SCC Unit:	
10.	Segment Comment:	
	•	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated	Emissions: Pollutant	<u>1</u> of <u>1</u>
1. Pollutant Emitted: PM10		
2. Total Percent Efficiency of Cont	rol: 90%	
3. Primary Control Device Code: (060, 062, and 099	
4. Secondary Control Device Code:	NA	
5. Potential Emissions:	0.12 lb/hr	0.18 ton/yr
6. Synthetically Limited?		-
[] Yes [X] No		
7. Range of Estimated Fugitive/Oth	ner Emissions:	
[] 1 [] 2	[] 3(o to o tons/year
8. Emission Factor: 0.00059 lbs/ton Reference: AP-42	n	
9. Emissions Method Code:		-
[] 1 [] 2	[X] 3] 4 [] 5
10. Calculation of Emissions:		
$PM10_{year} = [(200 \text{ ton/hr})(3120 \text{ hr/y})]$ $PM10_{hour} = (200 \text{ ton/hr})(0.00059 \text{ l})$		lb/ton = 0.18 ton/yr
11.110 hour (200 tolk M1)(010000)	or conj	
11. Pollutant Potential/Estimated En	nissions Comment:	
Emissions based on wo	orse case scenario @ highe	est production rate

Allowable Emissions

1.	Basis for Allowable Emissions Code: This Facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations
2.	Future Effective Date of Allowable Emissions:Initial Visible Emissions Compliance Test
3.	Requested Allowable Emissions and Units: <15 % Opacity
4.	Equivalent Allowable Emissions: 0.18 lb/hour 0.12 tons/year
5.	Method of Compliance: Initial and annual EPA Method 9 Compliance testing.
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
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:
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):

Emissions Unit Information Section	2	of	14
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F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field

Visible Emissions Limitation: Visible Emissions Limitation ____ 1 ___ of ___ 1

1. Most emissions units will be subject to a "subtype VE" limit only.

1.	Visible Emissions Subtype:
	VE ·
2.	Basis for Allowable Opacity: [X] Rule [] Other
	Subpart 000
3.	Requested Allowable Opacity:
	Normal Conditions: <15 % Exceptional Conditions: <15 %
	Maximum Period of Excess Opacity Allowed: 0 min/hour
4.	Method of Compliance:
	Initial and annual EPA Method 9 test on this unit.
	\cdot
5.	Visible Emissions Comment:
] .	Visible Limissions Comment.

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

Emissions Unit Information Section 2 of 14.

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:				
	NOT	`APP	LICABLE	! !	_
2.	CMS Requirement:	[] Rule.	[] Other
3.	Monitor Information:				
	Manufacturer:				
	Model Number:			Serial Nu	mber:
4.	Installation Date (DD-MON-YYYY):				
5.	Performance Specification Test Date ((DD-N	MON-YYY	Y):	
6.	Continuous Monitor Comment:				
	•				
	•				

Continuous Monitoring System: Continuous Monitor _____ of ____

1.	Parameter Code:	NOT APPLICABLE
2.	CMS Requirement:	[] Rule [] Other
3.	Monitor Information:	
	Manufacturer:	
	Model Number:	Serial Number:
4.	Installation Date (DD-MON-Y	YYY):
5.	Performance Specification Test	Date (DD-MON-YYYY):
6.	Continuous Monitor Comment:	
	•	
	Continuous Monitoring Syste	m: Continuous Monitor of
1.	Parameter Code:	·
2.	CMS Requirement:	[] Rule [] Other
3.	Monitor Information:	
	Manufacturer:	
	Model Number:	Serial Number:
4.	Installation Date (DD-MON-YY	YYY):
5.	Performance Specification Test	Date (DD-MON-YYYY):
	P	
6.	Continuous Monitor Comment:	
		·

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

		-
If the answorm	ne W	e emissions unit addressed in this section emits particulate matter or sulfur dioxide, er the following series of questions to make a preliminary determination as to whether at the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. It 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 © 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.
[]]	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.
[X]]	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.

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 © 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.
[]	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.
[X]	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.

3.	Increment Cons	uming/Expandir	ng Code:	
	PM	[] C	[] E	[X] No
	SO2	[] C	[] E	[X] No
	NO2	[] C	[] E	[X] No
4.	Baseline Emissi	ons: (for diesel g	generator only)	
	PM .	0.18	lb/hour	0.12 tons/year
	SO2		lb/hour	tons/year
	NO2		lb/hour	tons/year
	CO		lb/hr	tons/year
	HC		lb/hr	tons/year
5.	PSD Comment:			· -

EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications 1. Process Flow Diagram [X] Attached, Document ID: III [] Not Applicable [] Waiver Requested 2. Fuel Analysis or Specification [] Attached, Document ID: [X] Not Applicable [] Waiver Requested 3. Detailed Description of Control Equipment [X] Attached, Document ID: VI [] Not Applicable [] Waiver Requested 4. Description of Stack Sampling Facilities [] Attached, Document ID: [X] Not Applicable [] Waiver Requested 5. Compliance Test Report Attached, Document ID: [] Previously submitted, Date: [X] Not Applicable 6. Procedures for Startup and Shutdown [X] Attached, Document ID:____ [] Not Applicable 7. Operation and Maintenance Plan [X] Attached, Document ID: <u>VII</u> [] Not Applicable 8. Supplemental Information for Construction Permit Application [X] Attached, Document ID:__V___ [] Not Applicable 9. Other Information Required by Rule or Statute

Attached, Document ID:_____ [] Not Applicable

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
[] Attached, Bocument IB [A] Not Applicable
12. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
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:
[] 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

EMISSIONS POINT No.3

7' X 20' TRIPLE DECK SCREENER

Emissions Unit Information Section 3	of	14
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III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Cl	heck 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).
ſ	This Emissions Unit Information Section addresses, as a single emissions unit, an

individually-regulated emission point (stack or vent) serving a single process or production

[] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

unit, or activity, which also has other individually-regulated emission points.

[X] 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.

Emissions Unit Description and Status

1. Description of Emissions U	Init Addressed in This Section:			
Cedarapids, Inc Triple Deck Screener (7 x 20').				
2. ARMS Identification Number	per: [] No Correspo	nding ID [X] Unknown		
3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major		
Code: C	[] Yes [X] No	Group SIC Code: 14		
6. Initial Startup Date (DD-M	ON-YYYY): Unknown			
7. Long-term Reserve Shutdo		-		
8 Package Unit: Portable Reck	NA aimed Asphalt and Concrete Aggrega	te Processing Unit - 7 x 20' triple		
deck screening unit.	mmed Asphan and Concrete Aggrega	te 110ccssing Ont - 7 x 20 triple		
Manufacturer: Cedarapids	s, Inc.			
Model Number: 7 x 20 9. Generator Nameplate Ratin	σ			
10. Incinerator Information:	<u></u>			
Dwell Temperature:				
Dwell Time:				
Incinerator Temperature:		·		
primary jaw crusher and s	The triple deck screening of the secondary impact crusher. The and send them to the radia processed (recrushed).	nis unit is used to separate		

Emissions Unit Control Equipment

	<u>A.</u>
	Description:
sec ser (re dec by	e triple deck screening deck is located between the primary jaw crusher an ondary impact crusher. This unit is used to separate material into separate sizes and them to the radial stackers or to the impact (secondary) crusher to be reprocessed rushed). Water spray bars are located at the entrance and top of the vibrating triple k screener to dampen the processed materials and to control any emissions generate this process. The material to be crushed is dampened in it's stockpile as to control itive emissions throughout the entire process.
2.	Control Device or Method Code: 061, 062, 099
	В.
1.	Description:
2.	Control Device or Method Code:
	C.
1.	Description:
2	Control Device or Method Code:
	Control Device of Method Code.

Emissions Unit Operating Capacity

Emissions Unit Operating Schedule

Requested Maximum Operating	g Schedule:	
	10 hours/day	6 days/week
	52 weeks/year	3120 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

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

This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.

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

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Emissions Unit Information Section	3	of	14
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C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

	Emission Point Description and Type
1.	Identification of Point on Plot Plan or Flow Diagram:
	Cedarapids, Inc Triple Deck Screener 7' x 20'
2.	Emission Point Type Code:
	[] 1
2	Descriptions of Emissions Points Commissions this Emissions Units
٥.	Descriptions of Emissions Points Comprising this Emissions Unit:
	Not Applicable
1	ID Numbers on Descriptions of Emission Units with this Emission Point in Commons
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
	NA NA
	·
5.	Discharge Type Code:
	[] D [X] F [] H [] P
	[] R
6.	Stack Height: Not Applicable
٠.	
7.	Exit Diameter:
8.	Exit Temperature:
9.	Actual Volumetric Flow Rate:

10. Percent Water Vapor: ~6% moisture
11. Maximum Dry Standard Flow Rate: NA dscfm
12. Nonstack Emission Point Height: ~10 feet
13. Emission Point UTM Coordinates: Zone: 17 East (km): 454.871 North (km): 3167.856
14. Emission Point Comment:
Emissions Point will be fugitive only, if any emissions are generated at all.
<u>-</u>

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

1.	Segment Description (Process/Fuel Type ar	nd Associated Operating Method/Mode):
Ma	nterial Handling Process – Cedarapids, In	nc. – 7 x 20' triple deck screener
2.	Source Classification Code (SCC): 14	
3.	SCC Units: tons processed per hour	
4.	. Maximum Hourly Rate: 200 ton/hr 5. Maximum Annual Rate: 624,000 ton/yr	
6.	Estimated Annual Activity Factor:	[A
7.	Maximum Percent Sulfur: NA	8. Maximum Percent Ash:
9.	Million Btu per SCC Unit:	
10.	Segment Comment:	

1. Segment Description (Pro	oess/Fuel Type or	nd Associated Operating Method/Mode):
1. Segment Description (110	cess/ruer rype ar	id Associated Operating Method/Mode).
		•
		•
2. Source Classification Cod	le (SCC):	
3. SCC Units:		
4. Maximum Hourly Rate:		5. Maximum Annual Rate:
6. Estimated Annual Activity	y Factor:	
. •	,	
7. Maximum Percent Sulfur:		8. Maximum Percent Ash:
	,	0.0000000000000000000000000000000000000
9. Million Btu per SCC Unit		
3. Willion Bia per see emit	•	
10 Sagment Comment:		
10. Segment Comment:		
		·
	· ·	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated E	missions: Pollutant _	of
1. Pollutant Emitted: PM10		
2. Total Percent Efficiency of Contro	ol: 90%	
3. Primary Control Device Code: 06	1, 062, and 099	
4. Secondary Control Device Code:	NA	
5. Potential Emissions:	0.42 lb/hr	0.66 ton/yr
6. Synthetically Limited?		
[] Yes [X] No		
7. Range of Estimated Fugitive/Other		
[] 1 [] 2	[] 3 _	0 to 0 tons/year
8. Emission Factor: 0.0021 lbs/ton		
Reference: AP-42, Table 3.	3-1	
9. Emissions Method Code:		
[] 1 [] 2	[X] 3	[] 4
10. Calculation of Emissions:		
$PM10_{yearly} = [(200 \text{ ton/hr})(3120 \text{ hr/y})]$		00 lb/ton = 0.66 ton/yr
$PM10_{hour} = (200 ton/hr)(0.0021 lb/t)$	on) = 0.42 lb/hr	
11. Pollutant Potential/Estimated Emi	ssions Comment:	

Allowable Emissions

1.	Basis for Allowable Emissions Code:			
	This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.			
	Future Effective Date of Allowable Emissions: Initial Visible Emissions Complaince			
Te	st .			
2	Degreeted Allegrable Emissions and Units			
3.	Requested Allowable Emissions and Units:			
1	Equivalent Allowable Emissions: lb/hour tons/year			
4.	Equivalent Allowable Emissions: lb/hour tons/year			
5	Method of Compliance: Annual EPA Method 9 Compliance Testing.			
٠.	· · · · · · · · · · · · · · · · · · ·			
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):			
1	Basis for Allowable Emissions Code			
1.	Dasis for Allowable Engissions Code			
2.	Future Effective Date of Allowable Emissions:			
3.	Requested Allowable Emissions and Units:			
4.	Equivalent Allowable Emissions: 1b/hr tons/year			
5.	Method of Compliance:			
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):			

Emissions 1	Unit	Information	Section	3	of	14

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field

1. Most emissions units will be subject to a "subtype VE" limit only.

	Visible Emissions Limitation: Visible Emissions Limitation1 of1
1.	Visible Emissions Subtype: VE
2.	
3.	Requested Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: 10 % Maximum Period of Excess Opacity Allowed: 0 min/hour
4.	Method of Compliance: Annual EPA Method 9 Visible Emissions Compliance Testing.
5.	Visible Emissions Comment:

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:			
	NOT	APPLICABLE		
2.	CMS Requirement:	[] Rule .	[] Other	
3.	Monitor Information:			
	Manufacturer:			
	Model Number:	S	erial Number:	
4.	Installation Date (DD-MON-YYYY):			
5.	Performance Specification Test Date (I	DD-MON-YYYY)	: 	
6.	Continuous Monitor Comment:			

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

nave been established are sulfur dioxide, particulate matter, and nitrogen dioxide.
PSD Increment Consumption Determination
1. Increment Consuming for Particulate Matter or Sulfur Dioxide? If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check 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 © 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.
[] 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.
[X] 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.

	<u>2. </u>	Increment	Consumir	ıg fe	or N	Vitrog	gen I	Dioxide?
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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 © 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.
- [] 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.
- [X] 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.

3.	Increment	Consuming/Expanding C	ode:		
	PM	[] C	[]E	[X] No	
	SO2	[] C	[] E	[X] No	
	NO2	[] C	[]E	[X] No	
4.	Baseline E	missions: (for diesel gene	erator only)		
	PM	0.42 lb/hour	0.66 tons/year		

EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications 1. Process Flow Diagram [X] Attached, Document ID: III [] Not Applicable [] Waiver Requested 2. Fuel Analysis or Specification [] Attached, Document ID: [X] Not Applicable [] Waiver Requested 3. Detailed Description of Control Equipment [X] Attached, Document ID: VI [] Not Applicable [] Waiver Requested 4. Description of Stack Sampling Facilities [] Attached, Document ID: [X] Not Applicable [] 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 [X] Attached, Document ID: VII [] Not Applicable 8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: V [] Not Applicable 9. Other Information Required by Rule or Statute Attached, Document ID: [X] Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
11 Alternative Modes of Operation (Emiggions Trading)
11. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
12. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Acid Rain Application (Hard-copy Required)
14. Acid Rain Application (Haid-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:
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

EMISSIONS POINT No.4

4' x 30' FEED CONVEYOR

III. EMMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

Check of	n	e	•
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- 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).
- [] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
- [] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.
- [X] 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.

Emissions Unit Description and Status

1. Description of Emissions U	Unit Addressed in This Section:							
	(4x 30') between primary Jarrock from primary crusher	9						
2. ARMS Identification Num	ber: [] No Correspo	nding ID [X] Unknown						
3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major						
Code: C	[] Yes [X] No	Group SIC Code: 14						
6. Initial Startup Date (DD-M	ON-VVVV)·							
o. Initial Startup Date (DD-W	Unknown							
7. Long-term Reserve Shutdo								
8 Package Unit: 4' v 30' Fee	NA 8. Package Unit: 4' x 30' Feed Conveyor Belt							
Manufacturer: Cedarapid								
Model Number: 4 x 30								
9. Generator Nameplate Ratin	g:							
10. Incinerator Information:								
Dwell Temperature: Dwell Time:								
Incinerator Temperature :								
memerator remperature.								
11. Emissions Unit Comment:	If any emissions generated they	will be fugitive at drop						
point between feed conveyor	and screen conveyor.							

Emissions Unit Control Equipment

	<u>A.</u>
1.	Description: Cedarapids, Inc Feed Conveyor (4x30') used to transfer crushed aggregates through magnetic field onto the screening conveyor. Material is dampened by a water spray bar suppression system at beginning of feed conveyor belt. In addition, material to be crushed is dampened in it's stockpiles before crushing as to control emissions during crushing process.
2.	Control Device or Method Code: 061, 062, 099
	В.
1.	Description:
2.	Control Device or Method Code:
	C.
1.	Description:
2.	Control Device or Method Code:

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: None
2. Maximum Incineration Rate:
3. Maximum Process or Throughput Rate: 200 ton/hr as crushed reclaimed concrete or asphalt material (dependent on material characteristics.)
4. Maximum Production Rate: 200 ton/hr as crushed reclaimed concrete or asphalt material (***dependent on material characteristics.)
5. Operating Capacity Comment: 4' x 30' Feed Conveyor- 200 ton/hr as crushed reclaimed concrete or asphalt material. Material is crushed in primary jaw crusher then transferred to screener to be separated into desired sizes.
***Material characteristics consist of size, moisture and hardness

Emissions Unit Operating ScheduleRequested Maximum Operating Schedule:

10 hours/day

6 days/week

52 weeks/year

3120 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

nis facility will be subject t	to 40 CFR, Part 6	60, subpart 000 ru	iles and regulations.				
		•					
·							

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

62-212.200(56) FAC 62-296.800 FAC 40 CFR 60, Subpart 000	
40 CFR 60, Subpart 000	
40 CFR 60, Subpart 000	
62-296.310 (2) FAC	
62-297 FAC	
62-297.340 FAC	
62-210.350 FAC	
Chapter 84-446, Section 3(12) FS	
62-296.320 FAC	
62-296.310(3) FAC	
40 CFR 60.11 (d)	
62-4 FAC	
62-210	

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

	Emission Point Description and Type
1.	Identification of Point on Plot Plan or Flow Diagram:
٠	4' x 30' Feed Conveyor (Transfer Point)
2.	Emission Point Type Code:
	[] 1
3	Descriptions of Emissions Points Comprising this Emissions Unit:
٥.	Descriptions of Limssions Folias Comprising and Limssions Offic.
	Not Applicable
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
	•
	NA .
5.	Discharge Type Code:
	[] D
	[] R
6	Stack Height: ~5 feet
0.	Stack Height. ~ 5 leet
7.	Exit Diameter: Not Applicable
8.	Exit Temperature:
9	Actual Volumetric Flow Rate:
٦.	return volumethe flow Rate.

10. Percent Water Vapor: ~4-6 %
11. Maximum Dry Standard Flow Rate:
12. Nonstack Emission Point Height: ~5 feet
13. Emission Point UTM Coordinates:
Zone: 17 East (km): 454.871 North (km): 3167.856
14. Emission Point Comment:
Emissions will occur at drop point between feed conveyor and screening conveyor if any at generated at all.

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

1.	1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):							
	Material Handling Operations – Cedarapids, Inc. (4' wide x 30' long) conveying system – used to transfer processed crushed aggregates.							
2.	Source Classification Code (SCC): 14							
3.	SCC Units: tons/hr material conveyed							
4.	Maximum Hourly Rate: 200 ton/hr	5. Maximum Annual Rate: 624,000 ton/yr						
6.	Estimated Annual Activity Factor:	I A						
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:						
9.	Million Btu per SCC Unit:							
10.	Segment Comment:							
	_							

1.	Segment Description (Process/Fuel Type and Associated Operating Method/Mode):							
	Not Applicable							
2.	Source Classification Code (SCC):							
3.	SCC Units:							
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:						
6.	Estimated Annual Activity Factor:							
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:						
9.	Million Btu per SCC Unit:							
10.	Segment Comment:							

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Polluta	int P	oten	itia	I/Estimated I	Emissions:	Pollutant	¹	oi	.1	-
D 11 /		•	1	D3.54.0						_

1. Pollutant Emitted: PM10										
2. Total Percent Efficiency of Control: 90 %										
3. Primary Control Device Code: 061,	3. Primary Control Device Code: 061, 062, and 099									
4. Secondary Control Device Code: N.	A									
5. Potential Emissions:	0.10 lb/hr	0.15 t	on/yr							
6. Synthetically Limited? [] Yes [X] No										
7. Range of Estimated Fugitive/Other [] 1 [] 2	Emissions:	<u>0</u> to <u>0</u>	tons/year							
8. Emission Factor: 0.0048 lbs/ton Reference: AP-42										
9. Emissions Method Code: [] 1 [] 2	[] 3	[] 4 [] 5							
10. Calculation of Emissions: PM10 _{yearly} = [(200 ton/hr)(3120 hr/yr)(0.00048 lb/ton)] / 2000 lb/ton = 0.15 ton/yr PM10 _{hourly} = (200 ton/hr)(0.00048 lb/ton) = 0.10 lb/hr										
11. Pollutant Potential/Estimated Emiss	sions Comment:									

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

	Pollutant Potential/Estimated E	missi	ons: Pollu	utant	of		
1.	Pollutant Emitted:			·			
2.	Total Percent Efficiency of Contro	ol:					
3.	Primary Control Device Code:			•			
4.	Secondary Control Device Code:						
5.	Potential Emissions:		lb/hou	r		tons/year	
6.	Synthetically Limited? [] Yes [] No						
7.	Range of Estimated Fugitive/Othe [] 1 [] 2	r Emi		_0_	to	0tons/year	
8.	Emission Factor: Reference:						
9.	Emissions Method Code:						
	[]1 []2	[] 3	[]	4	[] 5	
10.	Calculation of Emissions:						
11.	Pollutant Potential/Estimated Emi	ssion	s Commen	t:			

Allowable Emissions

1.								
	This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.							
2.	,							
	Initial Visible Emissions Compliance Test							
3.	•							
1	10 % Opacity							
4 .	Equivalent Allowable Emissions: tons/year							
5.	Method of Compliance: Annual EPA Method 9 Compliance testing.							
-	Tribund of Compliance. Timual 2171 Method > Compliance testing.							
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):							
1.	Basis for Allowable Emissions Code							
	District Description Description Description Description							
2.	Future Effective Date of Allowable Emissions:							
3.	Requested Allowable Emissions and Units:							
١٠.	reducated Throwavie Dimasions and Ones.							
4.	Equivalent Allowable Emissions: lb/hr tons/year							
5.	Method of Compliance:							
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):							

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field

1. Most emissions units will be subject to a "subtype VE" limit only.

	Visible Emissions Limitation: Visible Emissions Limitation1 of1							
1.	Visible Emissions Subtype:							
	VE ·							
2.	Basis for Allowable Opacity: [X] Rule [] Other							
3.	Requested Allowable Opacity:							
	Normal Conditions: 10 % Exceptional Conditions: 10 %							
	Maximum Period of Excess Opacity Allowed: 0 min/hour							
4.	Method of Compliance:							
	Annual EDA Mathad Onicible anticione consiliance testing							
	Annual EPA Method 9 visible emissions compliance testing.							
5.	Visible Emissions Comment:							

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:									
	NOT APPLICABLE									
2.	CMS Requirement:	[] Rule	[] Other					
3.	Monitor Information:				_					
	Manufacturer:			C : - 1 N						
	Model Number:			Serial Nur	moer:					
4.	Installation Date (DD-MON-YYYY):									
5.	Performance Specification Test Date	(DD-l	MON-YYY	Y):						
6.	Continuous Monitor Comment:									

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide

		in established are surfar dioxide, particulate matter, and introgen dioxide.
		Increment Consumption Determination ncrement Consuming for Particulate Matter or Sulfur Dioxide?
If an	th sw	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. Et 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 © 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.
]	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.
[X]	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.

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 © 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.
- [] 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.
- [X] 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.

3.	Increment Co	nsuming/Expandin	g Code:			_
	PM	[] C	[]E	[X]	No	
	SO2	[] C	[]E	[X]	No	
	NO2	[] C	[]E	[X]	No	
4.	Baseline Emi	ssions: (for diesel g	generator only)			
	PM	0.10	lb/hour	0.15	tons/year	
	SO2		lb/hour		tons/year	
	NO2		lb/hour		tons/year	
	CO	•	lb/hr		tons/year	
	HC_		lb/hr		tons/year	
5.	PSD Comme	nt:		·		
1						

EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

	Supplemental Requirements for All Applications
1.	Process Flow Diagram
	[X] Attached, Document ID: III [] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID: VI [] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID: [X] Not Applicable [] 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
	[X] Attached, Document ID:VII [] Not Applicable
8.	Supplemental Information for Construction Permit Application
	[X] Attached, Document ID: <u>V</u> [] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable

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. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
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:
[] 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

EMISSIONS POINT No.5

4' x 50' SCREENING CONVEYOR

III. EMMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

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).
 [] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
 [] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.
- [X] 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.

Emissions Unit Description and Status

1.	1. Description of Emissions Unit Addressed in This Section:			
Cedarapids Inc., Screening Conveyor (4x50') used to convey crushed aggregates to Cedarapids, Inc. Triple Deck Screener.				
2. ARMS Identification Number: [] No Corresponding ID [X] Unknown				
3.	Emissions Unit Status Code: C	4. Acid Rain [] Yes	Unit? [X] No	5. Emissions Unit Major Group SIC Code: 14
6.	Initial Startup Date (DD-M	•		
7.	7. Long-term Reserve Shutdown Date (DD-MON-YYYY):			
	NA			
8.	8. Package Unit: 4'x 50' Screening Conveyor Belt			
	Manufacturer: Cedarapids, Inc. Model Number: NA			
9.	9. Generator Nameplate Rating:			
10.	10. Incinerator Information:			
	Dwell Temperature: Dwell Time:			
	Incinerator Temperature :			
11. Emissions Unit Comment: Cedarapids, Inc. Screening Conveyor (4 x 50'). If any				
created they will be fugitive and will be generated at drop point to triple deck screener.				

Emissions Unit Control Equipment

	<u>A.</u>
1.	Description: Cedarapids, Inc. Screening Conveyor (4'x 50') used to convey crushed material from feed belt drop point to triple deck screener. Material is dampened by a water suppression system at feed conveyor point and in its stockpile before crushing as to control emissions during crushing and conveying process.
2.	Control Device or Method Code: 061, 062, 099
	В.
1.	Description:
2.	Control Device or Method Code:
	С.
1.	Description:
2.	Control Device or Method Code:

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: None
2. Maximum Incineration Rate:
3. Maximum Process or Throughput Rate: 200 ton/hr as crushed reclaimed concrete or
asphalt material (***dependent on material characteristics).
4. Maximum Production Rate: 200 ton/hr as crushed reclaimed concrete or asphalt material (***dependent on material characteristics).
6. Operating Capacity Comment: 4' x 50' Screening Conveyor – transfers ~200 ton/hr of crushed aggregates to triple deck screening device.
Material characteristics consists of moisture, size and hardness.
Emissions Unit Operating Schedule
Requested Maximum Operating Schedule:

10 hours/day

52 weeks/year

6 days/week

3120 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

	Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.) This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.		

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

62-212.200(56) FAC	
-	·
62-296.800 FAC	
40 CFR 60, Subpart 000	
62-296.310 (2) FAC	
62-297 FAC	
62-297.340 FAC	
62-210.350 FAC	
Chapter 84-446, Section 3(12) FS	
62-296.320 FAC	
62-296.310(3) FAC	
40 CFR 60.11 (d)	
62-4 FAC	
62-210	

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Identification of Point on Plot Plan or Flow Diagram: 4' x 50' Transfer Conveyor (Drop Point @ Triple Deck Screener) Emission Point Type Code: [] 1		Emission Point Description and Type
Emission Point Type Code: [] 1	1.	Identification of Point on Plot Plan or Flow Diagram:
Descriptions of Emissions Points Comprising this Emissions Unit: Not Applicable ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		4' x 50' Transfer Conveyor (Drop Point @ Triple Deck Screener)
Descriptions of Emissions Points Comprising this Emissions Unit: Not Applicable ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	2.	Emission Point Type Code:
Not Applicable ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		[] 1 [] 2 [] 3 [X] 4
ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	3.	Descriptions of Emissions Points Comprising this Emissions Unit:
		Not Applicable
NA	4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
		NA .
		111 <u>2</u>
	5.	
[] D	6.	Stack Height: 0 feet
[] R [] V [] W Stack Height: 0 feet	7.	Exit Diameter: Not Applicable
[] R	8.	Exit Temperature:
[] R [] V [] W Stack Height: 0 feet	9.	Actual Volumetric Flow Rate:
Discharge Type Code:	6.	[] D [X] F [] H [] P [] R [] V [] W Stack Height: 0 feet
	6.	Stack Height: 0 feet
[] R		
[] R [] V [] W Stack Height: 0 feet		
Stack Height: 0 feet Exit Diameter: Not Applicable		
Stack Height: 0 feet Exit Diameter: Not Applicable		

10. Percent Water Vapor: 4-6 %
11. Maximum Dry Standard Flow Rate:
12. Nonstack Emission Point Height: ~12 feet
13. Emission Point UTM Coordinates:
Zone: 17 East (km): 454.871 North (km): 3167.856
14. Emission Point Comment:
Emissions Point will be fugitive only, if any at all.

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

1.	Segment Description (Process/Fuel Type and Associated Operating Method/Mode):	
	<u> </u>	- 4' wide x 60' long screening conveyor. tes to triple deck screening device.
2.	Source Classification Code (SCC): 1421	
3.	SCC Units: tons of material conveyed per	hour
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:
	200 ton/hr	624,000 ton/yr
6.	Estimated Annual Activity Factor:	A
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:
9.	Million Btu per SCC Unit:	
10.	Segment Comment:	

1. Segment Description (Process/Fue	el Type and Associated Operating Method/Mode):		
	Not Applicable .		
·			
2. Source Classification Code (SCC)			
2. Source Classification Code (SCC)) . 		
3. SCC Units:	·		
4. Maximum Hourly Rate:	5. Maximum Annual Rate:		
6. Estimated Annual Activity Factor	:		
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:		
9. Million Btu per SCC Unit:			
10. Segment Comment:			

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated En	nissions: Pollutant	t of5		
1. Pollutant Emitted: PM10				
2. Total Percent Efficiency of Control	l: 90 %			
3. Primary Control Device Code: 061	1,062, and 099			
4. Secondary Control Device Code: N	IA.			
5. Potential Emissions:	0.10 lb/hr	0.15 ton/yr		
6. Synthetically Limited?				
[] Yes [X] No				
7. Range of Estimated Fugitive/Other				
[] 1 [] 2	[] 3	0 to0 tons/year		
8. Emission Factor: 0.0048 lbs/ton Reference: AP-42				
9. Emissions Method Code:				
[]1 []2	[] 3	[] 4 [] 5		
10. Calculation of Emissions:				
$PM10_{yearly} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})]$ $PM10_{hourly} = (200 \text{ ton/hr})(0.00048 \text{ lb/t})$		$\frac{1}{2000}$ lb/ton = 0.15 ton/yr		
	,			
11. Pollutant Potential/Estimated Emissions Comment:				

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

	Pollutant Potential/Estimated Emissions: Pollutant of
1.	Pollutant Emitted:
2.	Total Percent Efficiency of Control:
3.	Primary Control Device Code:
4.	Secondary Control Device Code:
5.	Potential Emissions: lb/hour tons/year
6.	Synthetically Limited? [] Yes [] No
7.	Range of Estimated Fugitive/Other Emissions: [] 1
8.	Emission Factor: Reference:
9.	Emissions Method Code:
	[]1 []2 []3 []4 []5
10.	Calculation of Emissions:
11.	Pollutant Potential/Estimated Emissions Comment:

Emissions Unit Information Section <u>5</u> of <u>14</u>.

Allowable Emissions

1.	Basis for Allowable Emissions Code:
	This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.
2.	Future Effective Date of Allowable Emissions:
	Initial Visible Emissions Compliance Test
3.	Requested Allowable Emissions and Units:
	10 % Opacity
4.	Equivalent Allowable Emissions: tons/year
5.	Method of Compliance: Annual EPA Method 9 Compliance testing.
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
L	
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:
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field

Most emissions units will be subject to a "subtype VE" limit only.
 Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1.	Visible Emissions Subtype:			
		VE -		
2.	Basis for Allowable Opacity:	[X] Rule	[] (Other
3.	Requested Allowable Opacity: Normal Conditions: 10 % Maximum Period of Excess Opa	Exceptional Conditions acity Allowed: 0 min/h		
4.	Method of Compliance: Annual EPA Metho	ed 9 visible emissions co	mpliance te	sting.
5.	Visible Emissions Comment:			

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:				
	NOT	APP	LICABLE	,	
2.	CMS Requirement:	[] Rule	[] Other
3.	Monitor Information: Manufacturer: Model Number:			Serial Nu	mber:
4.	Installation Date (DD-MON-YYYY):				
5.	Performance Specification Test Date	(DD-1	MON-YYY	Y):	
6.	Continuous Monitor Comment:				

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PS	D	Increment Consumption Determination
1.	I	ncrement Consuming for Particulate Matter or Sulfur Dioxide?
If ans	the sw 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. Ex 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 © 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.
[]	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.
[X]	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.

Emissions Unit Information Section 5 of 14.

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 © 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.
- 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.
- [X] 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.

[] C	[] E [] E [] E	[X] No [X] No [X] No	
ons: (for diesel	generator only)		
	lb/hour	tons/year	
,	lb/hour	tons/year	
	lb/hour	tons/year	
	lb/hr	tons/year	
	lb/hr	tons/year	
		-	
	•		
	[] C	ions: (for diesel generator only) lb/hour lb/hour lb/hour lb/hr lb/hr	[] C [] E [X] No lons: (for diesel generator only) lb/hour tons/year lb/hour tons/year lb/hr tons/year lb/hr tons/year

EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

	Supplemental Requirements for All Applications
1.	Process Flow Diagram
	[X] Attached, Document ID: III [] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID: VI [] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID: [X] Not Applicable [] 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
	[X] Attached, Document ID: VII [] Not Applicable
8.	Supplemental Information for Construction Permit Application
	[X] Attached, Document ID: <u>V</u> [] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable

Emissions Unit Information Section <u>5</u> of <u>14</u>.

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. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
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:
[] 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

EMISSION POINT No. 6

4' x 60' OVERSIZE BELT

III. EMMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

\mathbf{C}	heck 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).
[] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production

[] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

unit, or activity, which also has other individually-regulated emission points.

[X] 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.

Emissions Unit Description and Status

1. Description of Emission	ns Unit Addres	sed in This Section:		
Cedarapids, Inc Oversize Belt (4' x 60') utilized to transfer oversize aggregates from Cedarapids, Inc Triple Deck Screener to Cedarapids, Inc secondary Impact Crushing Unit.				
		•		
2. ARMS Identification N	umber:	[] No Corresp	oonding ID [X] Unknown	
3. Emissions Unit Status		Rain Unit?	5. Emissions Unit Major	
Code: C		Yes [X] No	Group SIC Code:	
C. Tuikini Start - Det (DE	NACNI WAXAY	7.		
6. Initial Startup Date (DI	D-MON-YYYY): Unknown		
7. Long-term Reserve Shu	tdown Date (D	•		
8. Package Unit: 4' x 60'	Oversize Pelt	NA		
Manufacturer: Cedara				
Model Number: 4x60	L			
9. Generator Nameplate R				
10. Incinerator Information	:			
Dwell Temperature: Dwell Time:				
Incinerator Temperature	.			
memerator remperature				
11. Emissions Unit Comme	ent: Cedarapid	s, Inc Oversize B	elt (4' x 60') utilized to	
transfer oversize aggregates from Cedarapids, Inc Triple Deck Screener to Cedarapids,				
Inc secondary Impact C	rushing Unit.	If any emissions ge	enerated they will be fugitive.	

Emissions Unit Control Equipment

	<u>A.</u>
1.	Description: Cedarapids, Inc Oversize Belt (4' x 60') utilized to transfer oversize aggregates from Cedarapids, Inc Triple Deck Screener to Cedarapids, Inc secondary Impact Crushing Unit. Material is dampened by a water supression system at triple deck screening device. Material is also dampened in it's stockpile before crushing as to control emissions during crushing and conveying processes.
2.	Control Device or Method Code: 061, 062, 099
	В.
2.	Description: Control Device or Method Code:
	C
1.	Description:
2.	Control Device or Method Code:

Emissions Unit Information Section <u>6</u> of <u>14</u>.

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: None				
2. Maximum Incineration Rate:				
3. Maximum Process or Throu asphalt material.	ighput Rate: 200 ton/hr as crus	hed reclaimed concrete or		
4. Maximum Production Rate: material.	200 ton/hr as crushed reclain	ned concrete or asphalt		
5. Operating Capacity Comment: 4' x 60' Oversize Belt - 200 ton/hr as crushed reclaimed concrete or asphalt material. Oversize Material is transferred from Cedarapids Triple Deck Screener to Cedarapids Impact Crusher. No specific amount of oversized material is sent back to the secondary Impact Crusher, the amount varies at all times.				
•				
•	Impact Crusher, the amount			
is sent back to the secondary I	Schedule			
is sent back to the secondary I Emissions Unit Operating	Schedule			

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)				
This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.				
•				
	·			

Emissions Unit Information Section 6 of 14.

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

62-212.200(56) FAC	
62-296.800 FAC	
40 CFR 60, Subpart 000	
62-296.310 (2) FAC	
62-297 FAC	
62-297.340 FAC	
62-210.350 FAC	
Chapter 84-446, Section 3(12) FS	
62-296.320 FAC	
62-296.310(3) FAC	
40 CFR 60.11 (d)	
62-4 FAC	
62-210	

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

	Emission Point Description and Type				
1.	Identification of Point on Plot Plan or Flow Diagram:				
	4' x 60' Oversize Belt (Drop Point from Screener to belt)				
2.	Emission Point Type Code:				
	[] 1				
3.	Descriptions of Emissions Points Comprising this Emissions Unit:				
	Not Applicable				
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:				
	NA				
5.	Discharge Type Code:				
	[] D [X] F [] H [] P				
	[] R				
6.	Stack Height: 0 feet				
7	Exit Diameter: Not Applicable				
8.	Exit Temperature:				
9.	Actual Volumetric Flow Rate:				

Emissions Unit Information Section 6 of 14.

10. Percent Water Vapor: 4-6 %				
11. Maximum Dry Standard Flow Rate:				
12. Nonstack Emission Point Height: ~5 feet				
13. Emission Point UTM Coordinates:				
Zone: 17 East (km): 454.871 North (km): 3167.856				
14. Emission Point Comment:				
Emissions Point will be fugitive only, if any at all.				

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):		
ov		Oversize Belt (4' x 60') utilized to transfer Triple Deck Screener to Cedarapids, Inc
2.	Source Classification Code (SCC): 1421	
3.	SCC Units: tons of material conveyed	
4.	Maximum Hourly Rate: 200 ton/hr	5. Maximum Annual Rate: 624,000 ton/yr
6.	Estimated Annual Activity Factor:	[A
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:
9.	Million Btu per SCC Unit:	
10.	Segment Comment:	-

Emissions Unit Information Section 6 of 14.

1.	. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):		
	Not Applicable		
•			
2.	Source Classification Code (SCC):		
3.	SCC Units:		
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:	
6.	Estimated Annual Activity Factor:		
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:	
9.	Million Btu per SCC Unit:		
10.	. Segment Comment:		
	·		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

	Pollutant Potential/Estimated E	missions: Pollutan	t1 of	f <u>5</u>
1.	Pollutant Emitted: PM10			_
2.	Total Percent Efficiency of Contro	ol: 90 %		
3.	Primary Control Device Code: 06	1, 062, and 099		
4.	Secondary Control Device Code: 1	NA		
5.	Potential Emissions:	0.10 lb/hr		0.15 ton/yr
6.	Synthetically Limited?	· · · · · · · · · · · · · · · · · · ·		
	[] Yes [X] No			
7.	Range of Estimated Fugitive/Othe	r Emissions:		
	[] 1 [] 2	[] 3	_0to	0tons/year
8.	Emission Factor: 0.00048 lbs/ton Reference: AP-42			
9.	Emissions Method Code:			
	[]1 []2	[] 3	[] 4	[] 5
10.	Calculation of Emissions:	-		
	$110_{yearly} = [(200 \text{ ton/hr})(3120 \text{ hr/y})]$		$\sqrt{2000 \text{ lb/ton}} = 0$	0.15 ton/yr
PM	$110_{\text{hourly}} = (200 \text{ ton/hr})(0.00048 \text{ lb/})$	/ton) = 0.10 lb/hr		
				,
	·			
11.	Pollutant Potential/Estimated Emi	ssions Comment:		

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

	Pollutant Potential/Estimated Emissions: Pollutant of
1.	Pollutant Emitted:
2.	Total Percent Efficiency of Control:
3.	Primary Control Device Code:
4.	Secondary Control Device Code:
5.	Potential Emissions: lb/hour tons/year
6.	Synthetically Limited? [] Yes [] No
7.	Range of Estimated Fugitive/Other Emissions: [] 1
8.	Emission Factor: Reference:
9.	Emissions Method Code:
	[]1 []2 []3 []4 []5
10.	Calculation of Emissions:
11.	Pollutant Potential/Estimated Emissions Comment:

Emissions Unit Information Section 6 of 14.

Allowable Emissions

1.	Basis for Allowable Emissions Code:		
	This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.		
2.	Future Effective Date of Allowable Emissions:		
	Initial Visible Emissions Compliance Test		
3.	Requested Allowable Emissions and Units:		
	10 % Opacity		
4.	Equivalent Allowable Emissions: tons/year		
5.	Method of Compliance: Annual EPA Method 9 Compliance testing.		
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):		
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:		
	•		
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):		

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field

Visible Emissions Limitation: Visible Emissions Limitation $\underline{1}$ of $\underline{1}$

1. Most emissions units will be subject to a "subtype VE" limit only.

1.	Visible Emissions Subtype:
	${f v_E}$
2.	Basis for Allowable Opacity: [X] Rule [] Other
3.	Requested Allowable Opacity:
	Normal Conditions: 10 % Exceptional Conditions: 10 %
	Maximum Period of Excess Opacity Allowed: 0 min/hour
4.	Method of Compliance:
	Annual EPA Method 9 visible emissions compliance testing.
5.	Visible Emissions Comment:

Emissions Unit Information Section 6 of 14.

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:			
	NOT APPLICABLE			
2.	CMS Requirement:	[] Rule	[] Other
3.	Monitor Information: Manufacturer:			
	Model Number:			Serial Number:
4.	Installation Date (DD-MON-YYYY):			
5.	Performance Specification Test Date (DD-I	MON-YYY	Y):
6.	Continuous Monitor Comment:			

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination					
<u>1.</u>	I	ncrement Consuming for Particulate Matter or Sulfur Dioxide?			
an or	sw no	e 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 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 © 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.			
[]	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.			
[X]	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.

Emissions Unit Information Section 6 of 14.

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 © 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.
- [] 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.
- [X] 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.

3. Increment Consuming/Expanding Code:				
PM	[] C	[] E	[X] No	
SO2	[] C	[]E	[X] No	
NO2	[] C	[] E	[X] No	
	nissions: (for diesel	generator only)		
PM		lb/hour	tons/year	
SO2		lb/hour	tons/year	
NO2		lb/hour	tons/year	
CO		lb/hr	tons/year	
HC		lb/hr	tons/year	
5. PSD Comm	ent:		·	

EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

	Supplemental Requirements for All Applications			
1.	Process Flow Diagram			
	[X] Attached, Document ID: III [] Not Applicable [] Waiver Requested			
				
2.	Fuel Analysis or Specification			
	[] Attached, Document ID:[X] Not Applicable [] Waiver Requested			
3.	Detailed Description of Control Equipment			
	[X] Attached, Document ID: VI [] Not Applicable [] Waiver Requested			
4.	Description of Stack Sampling Facilities			
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested			
5.	Compliance Test Report			
	[] Attached, Document ID:			
	I Described and with a Deter			
	Previously submitted, Date:			
	[X] Not Applicable			
	[A] Not Applicable			
6.	Procedures for Startup and Shutdown			
٠.	Attached, Document ID: [X] Not Applicable			
7.	Operation and Maintenance Plan			
	[X] Attached, Document ID: VII [] Not Applicable			
8.	Supplemental Information for Construction Permit Application			
	[X] Attached, Document ID: <u>V</u> [] Not Applicable			
9.	Other Information Required by Rule or Statute			
	[] Attached, Document ID: [X] Not Applicable			

Emissions Unit Information Section 6 of 14.

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
[Attached, Boedment 1D [A] Not Applicable
12. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
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:
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

EMISSIONS POINT No.7

4' x 65' MATERIAL CONVEYOR

III. EMMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

	eck		
e 'n		Λn	•∙
VIII		VII	•

[]	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).
[]	This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
[]	This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least

[X] 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.

one definable emission point (stack or vent) but may also produce fugitive emissions.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:					
Cedarapids, Inc Material Conveyor (4 x 65') Utilized to convey crushed aggregates Cedarapids, Inc Secondary Impact Crusher back to Cedarapids Triple Deck Screener.					
2. ARMS Identification Numb	per: [] No Correspo	nding ID [X] Unknown			
3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major			
Code: C	[] Yes [X] No	Group SIC Code: 14			
6. Initial Startup Date (DD-Me	•	<u> </u>			
7. Long-term Reserve Shutdov	Unknown				
7. Long-term Reserve Shuldov	NA				
8. Package Unit: 4' x 65' Mat	· ·				
Manufacturer: Cedarapids Model Number: 4x65	s, Inc.				
9. Generator Nameplate Ratin	g:				
10. Incinerator Information:	В.				
Dwell Temperature:					
Dwell Time:					
Incinerator Temperature:					
11. Emissions Unit Comment: Cedarapids, Inc Material Conveyor (4 x 65') Utilized to convey crushed aggregates Cedarapids, Inc Secondary Impact Crusher back to Cedarapids Triple Deck Screener. Any emissions generated during this process will be fugitive.					

Emissions Unit Control Equipment

	<u>A.</u>
1.	Description: Cedarapids, Inc Material Conveyor (4 x 65') Utilized to convey crushed aggregates Cedarapids, Inc Secondary Impact Crusher back to Cedarapids Triple Deck Screener. Material is dampened by a water suppression system as it enters the secondary impact crusher thus making material damp as it travels back to triple deck screener where it is again dampened. Uncrushed material is also dampened in its stockpile as to control any emissions generated through the entire crushing, screening and conveying process.
2.	Control Device or Method Code: 061, 062, 099
	В.
1.	Description:
2.	Control Device or Method Code:
	С.
1.	Description:
2.	Control Device or Method Code:

Emissions Unit Information Section 7 of 14.

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: None
2. Maximum Incineration Rate:
3. Maximum Process or Throughput Rate: ~ 200 ton/hr as crushed reclaimed concrete or asphalt material (***dependent on material characteristics).
4. Maximum Production Rate: ~ 200 ton/hr as crushed reclaimed concrete or asphalt material.
5. Operating Capacity Comment: *** Material characteristics consist of moisture, size and hardness.
Emissions Unit Operating Schedule
Requested Maximum Operating Schedule:

10 hours/day

52 weeks/year

6 days/week

3120 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)					
This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.					
•	•				

Emissions Unit Information Section _ 7 of _ 14 .

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

62-212.200(56) FAC		
62-296.800 FAC		
40 CFR 60, Subpart 000		
62-296.310 (2) FAC		
62-297 FAC	,	
62-297.340 FAC		
62-210.350 FAC		
Chapter 84-446, Section 3(12) FS		
62-296.320 FAC		
62-296.310(3) FAC		
40 CFR 60.11 (d)		
62-4 FAC		_
62-210		

Emissions Unit Information Section	7	of	<u>14</u> .
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C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

	Emission Point Description and Type
1.	Identification of Point on Plot Plan or Flow Diagram:
	4' x 65' Material Conveyor (Drop Point exit from secondary crusher)
2.	Emission Point Type Code:
	[] 1
	· · · · · · · · · · · · · · · · · · ·
3.	Descriptions of Emissions Points Comprising this Emissions Unit:
	No.4 Americania
	Not Applicable
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
• •	
	NA
5.	Discharge Type Code:
	[] D [X] F [] H [] P
	[] R
	Stool- Height. O foot
υ.	Stack Height: ~ 0 feet
7.	Exit Diameter: Not Applicable
, .	
8.	Exit Temperature:
9.	Actual Volumetric Flow Rate:

Emissions Unit Information Section ____7 of ___14 .

10. Percent Water Vapor:
11. Maximum Dry Standard Flow Rate:
12. Nonstack Emission Point Height: ~5 feet
13. Emission Point UTM Coordinates:
Zone: 17 East (km): 454.871 North (km): 3167.856
14. Emission Point Comment:
Emissions Point will be fugitive only, if any at all.

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

		<u> </u>
1.	Segment Description (Process/Fuel Type ar	nd Associated Operating Method/Mode):
cr		nterial Conveyor (4 x 65') Utilized to convey ondary Impact Crusher back to Cedarapids
2.	Source Classification Code (SCC): 1421	
3.	SCC Units: tons of material conveyed per	hour
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:
	200 ton/hr	624,000 ton/yr
6.	Estimated Annual Activity Factor:	VA
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:
9.	Million Btu per SCC Unit:	
10	Segment Comment:	

Emissions Unit Information Section ____7 of ___14 .

1.	Segment Description (Process/Fuel Type	and Associated Operating Method/Mode):			
	Not Applicable				
		·			
		·			
2.	Source Classification Code (SCC):				
3.	SCC Units:				
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:			
6.	Estimated Annual Activity Factor:				
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:			
9.	Million Btu per SCC Unit:				
10.	Segment Comment:				
<u> </u>					

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Er	missions: Pollutant _	<u>1</u> of <u>5</u>	
1. Pollutant Emitted: PM10			
2. Total Percent Efficiency of Contro	1: 90 %		
3. Primary Control Device Code: 06	1, 062, and 099		
4. Secondary Control Device Code: N	NA		
5. Potential Emissions:	0.10 lb/hr	0.15 ton/yr	
6. Synthetically Limited?			
[] Yes [X] No			
7. Range of Estimated Fugitive/Other	r Emissions:		
[]1 []2	[] 3	0 to 0 tons/year	
8. Emission Factor: 0.00048 lbs/ton Reference: AP-42			
9. Emissions Method Code:		-	
[]1 []2	[] 3	[] 4 [] 5	
10. Calculation of Emissions:			
$PM10_{yearly} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})]$ $PM10_{hourly} = (200 \text{ ton/hr})(0.00048 \text{ lb/r})$		000 lb/ton = 0.15 ton/yr	
11. Pollutant Potential/Estimated Emis	ssions Comment:		
·			

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

	Pollutant Potential/Estimated Emissions: Pollutant of
1.	Pollutant Emitted:
2.	Total Percent Efficiency of Control:
3.	Primary Control Device Code:
4.	Secondary Control Device Code:
5.	Potential Emissions: lb/hour tons/year
6.	Synthetically Limited? [] Yes [] No
7.	Range of Estimated Fugitive/Other Emissions: [] 1
8.	Emission Factor: Reference:
9.	Emissions Method Code:
	[]1 []2 []3 []4 []5
10.	Calculation of Emissions:
11.	Pollutant Potential/Estimated Emissions Comment:

Emissions Unit Information Section __7 of __14 .

Allowable Emissions

4	D 1 0 1 1 D 1 1 C 1					
1.	. Basis for Allowable Emissions Code:					
<u> </u>	This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.					
2.	L. Future Effective Date of Allowable Emissions:					
	Initial Visible Emissions Compliance Test					
3.	Requested Allowable Emissions and Units:					
	10 % Opacity					
4.	Equivalent Allowable Emissions: tons/year					
5.	Method of Compliance: Annual EPA Method 9 Compliance testing.					
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):					
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:					
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):					

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field

1. Most emissions units will be subject to a "subtype VE" limit only.

	Visible Emissions Limitation: Visible Emissions Limitation1 of1
1.	Visible Emissions Subtype:
	VE ·
2.	Basis for Allowable Opacity: [X] Rule [] Other
3.	Requested Allowable Opacity:
	Normal Conditions: 10 % Exceptional Conditions: 10 %
	Maximum Period of Excess Opacity Allowed: 0 min/hour
4.	Method of Compliance:
	Annual EPA Method 9 visible emissions compliance testing.
5.	Visible Emissions Comment:

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:					
<u> </u>	N	OT APP	LICABLE			
2.	CMS Requirement:	[] Rule	[] Other	
3.	Monitor Information: Manufacturer: Model Number:			Serial Nu	mber:	
4.	Installation Date (DD-MON-YYYY)	Y):				
5.	Performance Specification Test Date	te (DD-N	MON-YYY	Y):		
6.	Continuous Monitor Comment:					

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

		es) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates in established are sulfur dioxide, particulate matter, and nitrogen dioxide.
1. If ans	the sw	Increment Consumption Determination ncrement Consuming for Particulate Matter or Sulfur Dioxide? e 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 of the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. 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 © 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.
[]	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.
[X]	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.

2	T	a .	C TIL	D' '10
۷	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 © 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.
- [] 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.
- [X] 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.

Increment Co PM	onsuming/Expandi [] C	[]E	[X] No	
SO2	[] C	[] E	[X] No	
NO2	[] C	[] E	[X] No	
Baseline Em	issions: (for diesel	generator only)		
PM		lb/hour	tons/year	
SO2		lb/hour	tons/year	
NO2		lb/hour	tons/year	
CO		lb/hr	tons/year	
HC		lb/hr	tons/year	
. PSD Comme	ent:		•	

EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications 1. Process Flow Diagram [X] Attached, Document ID: III [] Not Applicable [] Waiver Requested 2. Fuel Analysis or Specification Attached, Document ID: [X] Not Applicable [] Waiver Requested 3. Detailed Description of Control Equipment [X] Attached, Document ID: VI [] Not Applicable [] Waiver Requested 4. Description of Stack Sampling Facilities [] Attached, Document ID:_____ [X] Not Applicable [] 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 [X] Attached, Document ID: <u>VII</u> [] Not Applicable 8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: <u>V</u> [] Not Applicable 9. Other Information Required by Rule or Statute Attached, Document ID:_____ [X] Not Applicable

Emissions Unit Information Section ____7 of ____14 .

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. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
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:
New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:
<u></u>
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:
[V] Not Applicable
[X] Not Applicable

EMISSIONS POINT No. 8

4' x 90' PORTABLE RADIAL STACKING BELT

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section 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).
 This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
- [] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.
- [X] 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.

Emissions Unit Description and Status

Ce	nvey or stack finished aggr	o' P	ortable Rac te in stockp	dial Stacking I iles or in trucks	
2.	ARMS Identification Numb	er:	[] No Correspo	onding ID [X] Unknown
3.	Emissions Unit Status Code: C	4.	Acid Rain [] Yes	Unit? [X] No	5. Emissions Unit Major Group SIC Code: 14
6.	Initial Startup Date (DD-M	ON-	,		
7	Long town Dogowy Chutdo	T		nown	
7.	Long-term Reserve Shutdov	wn 1	•	ON-1111): I A	
8.	Package Unit: 4' x 90' Por Manufacturer: Ceadarpids Model Number: 4x90			acking Belt (Tr	ansfer Point)
9.	Generator Nameplate Ratin	g:		NA	
10	Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Temperature:				
4' sto sev un	11. Emissions Unit Comment: 4' x 90' Portable Radial Stacking Belt - utilized to convey or stack finished product into stockpiles or trucks. Material dampened by a Water Spray Dust Suppression System several points throughout the crushing, screening and conveying system. In addition, all uncrushed material stockpiles are dampened as to control emissions in any of the above mentioned processes.				

Emissions Unit Control Equipment

<u>A.</u>
1. Description:
4' x 90' Portable Radial Stacking Belt - utilized to convey or stack finished product into
stockpiles or trucks. Material dampened by a Water Spray Dust Suppression System
several points throughout the crushing, screening and conveying system. In addition, al
uncrushed material stockpiles are dampened as to control emissions in any of the above
mentioned processes.
·
2. Control Device or Method Code: 061, 062 and 099
, and the second
В.
1. Description:
1. Description.
·
2. Gardari Daniara a Madari Gari
2. Control Device or Method Code:
C.
1. Description:
2. Control Device or Method Code:

Emissions Unit Operating Capacity

- 1. Maximum Heat Input Rate: NONE
- 2. Maximum Incineration Rate:
- 3. Maximum Process or Throughput Rate: ~ 200 ton/hr as crushed reclaimed concrete or asphalt material (dependent on material characteristics)
- 4. Maximum Production Rate: \sim 200 ton/hr as crushed reclaimed concrete or asphalt material (dependent on material characteristics).
- 5. Operating Capacity Comment:
- 4' x 90' Portable Radial Stacking Belt utilized to convey or stack finished product into stockpiles or trucks. Material dampened by a Water Spray Dust Suppression System at triple deck screening device. A known amount of material is undeterminable from this belt as it carries one size of the aggregates that are separated at the triple deck screening device.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

10 hours/day

6 days/week

52 weeks/year

3120 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

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

This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.			

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

62-212.200(56) FAC	
62-296.800 FAC	
40 CFR 60, Subpart 000	·
62-296.310 (2) FAC	
62-297 FAC	
62-297.340 FAC	
62-210.350 FAC	_
Chapter 84-446, Section 3(12) FS	
62-296.320 FAC	
62-296.310(3) FAC	
40 CFR 60.11 (d)	
62-4 FAC	
62-210	
	· .

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

Emission Point Description and Type

	Emission 1 oint Description and Type				
1.	Identification of Point on Plot Plan or Flow Diagram:				
	4' x 90' Portable Radial Stacking Belt (Drop Point at belt end to stockpile)				
2.	Emission Point Type Code:				
	[] 1				
3	Descriptions of Emissions Points Comprising this Emissions Unit:				
	Descriptions of Emissions Forms Comprising this Emissions Circ.				
	NOT APPLICABLE				
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:				
	NA				
5.	Discharge Type Code:				
	Discharge Type Code.				
	[] D				
	, *				
	[] D				
6.	[] D				
	[] D [X] F [] H [] P [] R [] V [] W Stack Height: NOT APPLICABLE				
	[] D				
7.	[] D [X] F [] H [] P [] R [] V [] W Stack Height: NOT APPLICABLE Exit Diameter:				
7.	[] D [X] F [] H [] P [] R [] V [] W Stack Height: NOT APPLICABLE				
7.	[] D [X] F [] H [] P [] R [] V [] W Stack Height: NOT APPLICABLE Exit Diameter: Exit Temperature:				
7.	[] D [X] F [] H [] P [] R [] V [] W Stack Height: NOT APPLICABLE Exit Diameter:				

10. Percent Water Vapor: 4-6%	
11. Maximum Dry Standard Flow Rate:	
12. Nonstack Emission Point Height: variable	feet
13. Emission Point UTM Coordinates: Zone: 17 East (km): 454.871 North (km): 3167.856	
14. Emission Point Comment:	
Emissions Point will be fugitive only, if any emissions are ge	nerated at all.

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

details on this subsection of the Application for	r Air Permit.
1. Segment Description (Process/Fuel Type and	nd Associated Operating Method/Mode):
finished product into stockpiles or trucks. Suppression System at triple deck screening	al Stacking Belt - utilized to convey or stack Material dampened by a Water Spray Dust ng device. A known amount of material is ne size of the aggregates that are separated at
2. Source Classification Code (SCC): 1421	
3. SCC Units: tons of material conveyed	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
200 ton/hr	624,000 ton/yr
6. Estimated Annual Activity Factor:	
•	NA.
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

1.	Segment Description (Process/Fuel Type an	d Associated Operating Method/Mode):	
	NOT APPLICABLE		
		·	
2.	Source Classification Code (SCC):		
3.	SCC Units:		
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:	
	Estimated Annual Activity Factor:		
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:	
9.	Million Btu per SCC Unit:		
10.	Segment Comment:		
		·	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant 1 of 1

1.	Pollutant Emi	tted: PM10, TSP	,	-	
2.	Total Percent	Efficiency of Con	trol: 90 %		
3.	Primary Contr	rol Device Code:	061, 062 and 099		
4.	Secondary Cor	ntrol Device Code	: NA		
5.	Potential Emi	ssions: 0.10 lb/t	on 0.15 ton/yr		
6.	Synthetically	Limited?			
	[X] Yes	[] No			
7.	Range of Esti	mated Fugitive/Ot	her Emissions:		
	[] 1	[] 2	[] 3	<u>0</u> to <u>0</u>	tons/year
8.	Emission Fact	tor: 0.00048 lbs/t o	n		
	Reference: A				
9.	Emissions Me				
	[] 1	[]2	[X] 3	[] 4	[] 5
ı	. Calculation of				
				[0] / 2000 lb/ton = 0.3	15 ton/yr
PN	$110_{\text{hourly}} = (200$	ton/hr)(0.00048	lb/ton) = 0.10 lb/hr	•	
11	Pollutant Pote	ential/Estimated E	missions Comment:		
					· .

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant of 1. Pollutant Emitted: 2. Total Percent Efficiency of Control: 3. Primary Control Device Code: 4. Secondary Control Device Code: 5. Potential Emissions: lb/hour tons/year 6. Synthetically Limited? [] Yes [] No 7. Range of Estimated Fugitive/Other Emissions: [] 1 [] 2 [] 3 $\underline{0}$ to $\underline{0}$ tons/year 8. Emission Factor: Reference: 9. Emissions Method Code: [] 3 [] 4 [] 5 [] 1 [X] 2 10. Calculation of Emissions: 11. Pollutant Potential/Estimated Emissions Comment:

Allowable Emissions

1.	Basis for Allowable Emissions Code:
	This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.
2.	Future Effective Date of Allowable Emissions:
_	Initial Visible Emissions Compliance Test
3.	Requested Allowable Emissions and Units:
<u> </u>	10 % Opacity
4.	Equivalent Allowable Emissions: tons/year
5.	Method of Compliance: Annual EPA Method 9 Compliance testing.
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
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:
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

	Visible Emissions Limitation: Visible Emissions Limitationl of1						
1.	Visible Emissions Subtype:						
	VE						
2.	Basis for Allowable Opacity: [X] Rule [] Other						
3.	Requested Allowable Opacity:						
	Normal Conditions: 10 % Exceptional Conditions: 10 %						
	Maximum Period of Excess Opacity Allowed: 0 min/hour						
4.	Method of Compliance:						
-	Annual EPA Method 9 visible emission compliance testing.						
5.	Visible Emissions Comment:						

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:					
	NOT APPLICABLE					
2.	CMS Requirement:	[] Rule	[] Other	
3.	Monitor Information: Manufacturer: Model Number:			Serial Nu	mber:	
4.	Installation Date (DD-MON-YYYY)	:				
5.	. Performance Specification Test Date (DD-MON-YYYY):					
6.	Continuous Monitor Comment:					

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

-		
If the ans	ne w	ncrement Consuming for Particulate Matter or Sulfur Dioxide? emissions unit addressed in this section emits particulate matter or sulfur dioxide, er the following series of questions to make a preliminary determination as to whether t the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. k 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 © 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.
[]	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.
[X	-	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.

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
11 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

- [] 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 © 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.
- [] 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.
- [X] 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 SO2 NO2	nsuming/Expanding [] C [] C [] C [] C	ng Code: [] E [] E [] E	[X] No [X] No [X] No	
4. Baseline Emi PM SO2 NO2	ssions:	lb/hour lb/hour lb/hour	tons/year tons/year tons/year	
5. PSD Comme	nt:			

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

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

Emissions Unit Information Section 8 of 14

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
11 Alexandr 16 CO 11 (D. 11 D. 11)
11. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
12. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
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:
[] 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

EMISSIONS POINT No.9

4' x 80' PORTABLE RADIAL STACKING BELT

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section 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).
 This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production
- [] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

unit, or activity, which also has other individually-regulated emission points.

[X] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section: Cedarapids, Inc - 4' x 80' Portable Radial Stacking Belt (Transfer Belt) - used to convey or stack finished material in stockpiles or in trucks.					
2.	ARMS Identification Number	er:	[] No Correspo	nding ID [X] Unknown
3.	Emissions Unit Status Code: C	4.	Acid Rain [] Yes	Unit? [X] No	5. Emissions Unit Major Group SIC Code: 14
6.	Initial Startup Date (DD-M	ON-	,	nown	
7.	Long-term Reserve Shutdo	wn I	Date (DD-M	_	
8.	Package Unit: 4' x 80' Portable Radial Stacking Belt (Transfer Point) Manufacturer: Cedarapids Inc. Model Number: 4x80				
9.	Generator Nameplate Ratin	g:		NA	
10.	Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Temperature:				
11. Emissions Unit Comment: 4' x 80' Portable Radial Stacking Belt - utilized to convey or stack finished product into stockpiles or trucks. Material dampened by a Water Spray Dust Suppression System at triple deck screening device. All uncrushed material is dampened in its stockpile as to control emissions in the conveying, screening and crushing process.					

Emissions Unit Control Equipment

	<u>A.</u>			
4' sto tri				
2.	Control Device or Method Code: 061, 062 and 099			
	В.			
	Description:			
2.	Control Device or Method Code:			
	C			
1.	Description:			
2.	Control Device or Method Code:			

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: NONE
2. Maximum Incineration Rate:
3. Maximum Process or Throughput Rate: ~200 ton/hr as crushed reclaimed concrete or asphalt material (***dependent on material characteristics)
4. Maximum Production Rate: 200 ton/hr as crushed reclaimed concrete or asphalt material (dependent on material characteristics)
5. Operating Capacity Comment: *** Material characteristics consist of size, moisture and hardness.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

10 hours/day

6 days/week

52 weeks/year

3120 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

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

This facility will be subject	t to 40 CFR, Part 60	0, subpart 000 rules	and regulations.
			•

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

62-212.200(56) FAC	
62-296.800 FAC	
40 CFR 60, Subpart 000	
62-296.310 (2) FAC	
62-297 FAC	
62-297.340 FAC	
62-210.350 FAC	
Chapter 84-446, Section 3(12) FS	
62-296.320 FAC	
62-296.310(3) FAC	
40 CFR 60.11 (d)	
62-4 FAC	
62-210	

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

	Emission Point Description and Type	
1.	Identification of Point on Plot Plan or Flow Diagram:	
	4' x 80' Portable Radial Stacking Belt (Drop Point @ end of belt to stockpile)	
2.	Emission Point Type Code:	
	[] 1	
3.	Descriptions of Emissions Points Comprising this Emissions Unit:	_
	NOT APPLICABLE	
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
	NT A	
	NA .	
5	Discharge Type Code:	_
٥.	[] D [X] F [] H [] P	
6.	Stack Height: NOT APPLICABLE	_
7.	Exit Diameter:	
8.	Exit Temperature:	_
9.	Actual Volumetric Flow Rate:	

10. Percent Water Vapor: 4-6%	
11. Maximum Dry Standard Flow Rate:	
12. Nonstack Emission Point Height: variable	feet
13. Emission Point UTM Coordinates:	•.
Zone: 17 East (km): 454.871 North (km): 3167.856	
14. Emission Point Comment:	
Emissions Point will be fugitive only, if any emissions are genera	ted at all.
Zmissions I ome was so regime only, it any emissions are general	
	•

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

details on this subsection of the Application for Air Permit.				
	1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):			
fin Su	Material Handling - 4' x 80' Portable Radial Stacking Belt - utilized to convey or stack finished product into stockpiles or trucks. Material dampened by a Water Spray Dust Suppression System at triple deck screening device. All uncrushed material is dampened in its stockpile as to control emissions in the conveying, screening and crushing process.			
2.	Source Classification Code (SCC): 1421			
3.	SCC Units: tons of material conveyed			
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		
	200 ton/hr	624,000 ton/yr		
6.	Estimated Annual Activity Factor:			
	N	A		
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:		
9.	Million Btu per SCC Unit:			
10.	Segment Comment:			

Emissions Unit Information Section $\underline{9}$ of $\underline{14}$

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):		
NOT APPLICABLE		
2. Source Classification Code (SCC):		
3. SCC Units:		
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	
6. Estimated Annual Activity Factor:		
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:	
9. Million Btu per SCC Unit:		
10. Segment Comment:		
	•	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit. Pollutant Potential/Estimated Emissions: Pollutant ____1___ of ___1___ 1. Pollutant Emitted: PM10

2.	Total Percent Ef	ficiency of Control	: 90 %		
3.	Primary Control	Device Code: 061	, 062 and 099		
4.	Secondary Contro	ol Device Code: N	A		
5.	Potential Emission	ons: 0.10 lb/ton	0.15 ton/yr		
6.	Synthetically Lin	nited?			
	[X] Yes	[] No		<u>.</u>	
7.	Range of Estima	ted Fugitive/Other	Emissions:		
	[] 1	[] 2	[] 3	<u>0</u> to <u>0</u>	tons/year
8.	Emission Factor:	0.00048 lbs/ton			
	Reference: AP-4	12			
9.	Emissions Metho	od Code:	•		
	[] 1	[]2	[X] 3	[] 4	[] 5
10.	Calculation of E	missions:			
PM	$110_{\text{yearly}} = [(200 \text{ to})$	on/hr)(3120 hr/yr)	(0.00048 lb/ton)]	$\frac{1}{2000}$ lb/ton = 0.1	5 ton/yr
PM	$110_{\text{hourly}} = (200 \text{ to})$	n/hr)(0.00048 lb/t	on) = 0.10 lb/hr		
11.	Pollutant Potenti	al/Estimated Emiss	sions Comment:		
		• ,			
	•	• •			

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant _____ of _ 1. Pollutant Emitted: 2. Total Percent Efficiency of Control: 3. Primary Control Device Code: 4. Secondary Control Device Code: 5. Potential Emissions: lb/hour tons/year 6. Synthetically Limited? [] Yes [] No 7. Range of Estimated Fugitive/Other Emissions: [] 1 [] 3 0 to 0 tons/year [] 2 8. Emission Factor: Reference: 9. Emissions Method Code: [] 3 [] 1 [X] 2 [] 4 [] 5 10. Calculation of Emissions: 11. Pollutant Potential/Estimated Emissions Comment:

Allowable Emissions

1.	Basis for Allowable Emissions Code:
	This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.
2.	Future Effective Date of Allowable Emissions:
	Initial Visible Emissions Compliance Test
3.	Requested Allowable Emissions and Units:
	10 % Opacity
4.	Equivalent Allowable Emissions: tons/year
5.	Method of Compliance: Annual EPA Method 9 Compliance testing.
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
L	
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:
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
	

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

	Visible Emissions Limitation: Visible Emissions Limitation 1 of 1
1.	Visible Emissions Subtype:
	VE
2.	Basis for Allowable Opacity: [X] Rule [] Other
3.	Requested Allowable Opacity:
	Normal Conditions: 10 % Exceptional Conditions: 10 %
	Maximum Period of Excess Opacity Allowed: 0 min/hour
4.	Method of Compliance:
	Annual EPA Method 9 visible emission compliance testing.
5.	Visible Emissions Comment:
	<u> </u>

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1. Parameter Code:

NOT APPLICABLE

2. CMS Requirement: [] Rule [] Other

3. Monitor Information:
 Manufacturer:
 Model Number: Serial Number:

4. Installation Date (DD-MON-YYYY):

5. Performance Specification Test Date (DD-MON-YYYY):

6. Continuous Monitor Comment:

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

If t ans	he sw no	recrement Consuming for Particulate Matter or Sulfur Dioxide? Elemissions 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 of the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. It is that 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 © 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.
[]	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.
[X]	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.

2.	Increment	Consuming	for 1	Nitrogen	Dioxide?

	series of questions to make a prounit consumes PSD increment for and skip remaining statements. [] The emissions unit address	eliminary determin or nitrogen dioxide sed in this section one PSD review pr	s nitrogen oxides, answer the folloation as to whether or not the emit. Check first statement, if any, the sundergoing PSD review as part eviously, for nitrogen dioxide. If	ssions at applies of this								
	[] The facility addressed in this application is classified as an EPA major source pursuant to paragraph © 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.											
	[] 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.											
	nonzero. In such case, add	litional analysis, be ner changes in emi	emissions of the emissions unit are eyond the scope of this application ssions have occurred (or will occur d increment.	n, is								
3.	Increment Consuming/Expandir	ng Code:										
	PM [] C	[]E	[X] No									
	SO2 [] C	[]E	[X] No									
	NO2 [] C	[] E	[X] No									
4.	Baseline Emissions:			-								
	PM	lb/hour	tons/year									
	SO2	lb/hour	tons/year									
	NO2	lb/hour	tons/year									
5.	PSD Comment:											

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

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

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. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
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:
[] 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

EMISSIONS POINT No.10

4' x 60' PORTABLE RADIAL STACKING BELT

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section 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).
[]	This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
[]	This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

[X] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:								
4' x 60' Portable Radial Stacking Belt (Transfer Belt) - used to convey or stack finished								
material in stockpiles or into	trucks.							
	·							
		•						
	·							
		•						
O ADMOLI COLLEGE	1	J' ID IV I II.I						
2. ARMS Identification Num	ber: [] No Correspo	onding ID [X] Unknown						
3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major						
Code: C	[] Yes [X] No	Group SIC Code:						
		14						
6. Initial Startup Date (DD-N	•							
7 Lang tama Dagama Chatda	Unknown							
7. Long-term Reserve Shutdo	own Date (DD-MON-YYYY): NA							
7. Package Unit: 4' x 60' Po		-						
Manufacturer: Cedarapid	_							
Model Number: 4x60	•							
9. Generator Nameplate Ratio	ng: NA							
10. Incinerator Information:								
Dwell Temperature:								
Dwell Time:								
Incinerator Temperature:								
11. Emissions Unit Comment:	cking Belt - utilized to convey	or stook finished product into						
	al dampened by a Water Spra	_						
_	. All uncrushed material is da	• • • •						
	eying, screening and crushing							

Emissions Unit Information Section $\underline{10}$ of $\underline{14}$

Emissions Unit Control Equipment

	<u>A.</u>
4' sto tri	Description: x 60' Portable Radial Stacking Belt - utilized to convey or stack finished product into ockpiles or trucks. Material dampened by a Water Spray Dust Suppression System at ple deck screening device. All uncrushed material is dampened in its stockpile as to attrol emissions in the conveying, screening and crushing process.
2.	Control Device or Method Code: 061, 062 and 099
	В.
1.	Description:
2.	Control Device or Method Code:
	С.
1.	Description:
2.	Control Device or Method Code:

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: NONE
2. Maximum Incineration Rate:
3. Maximum Process or Throughput Rate: ~200 ton/hr as crushed reclaimed concrete or asphalt material (*** dependent of material characteristics)
4. Maximum Production Rate: 200 ton/hr as crushed reclaimed concrete or asphalt material (dependent on material characteristics)
5. Operating Capacity Comment: *** Material characteristics dependent on moisture, size and hardness.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:							
10 hours/day	6 days/week						
52 weeks/year	3120 hours/year						

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

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

This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.								
·								

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

62-212.200(56) FAC	
62-296.800 FAC	
40 CFR 60, Subpart 000	
62-296.310 (2) FAC	
62-297 FAC	
62-297.340 FAC	
62-210.350 FAC	
Chapter 84-446, Section 3(12) FS	
62-296.320 FAC	
62-296.310(3) FAC	
40 CFR 60.11 (d)	
62-4 FAC	
62-210	
	·

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

	Er	nis	sion	Point	Descripti	ion and '	Туре	;						
1.	Ιdε	enti	fica	tion of	Point on	Plot Plan	or F	lov	v Dia	agram:				
	4'	X	60'	Porta	ble Radia	ıl Stacki	ng B	elt	(Dro	p Poin	t @	end of belt to st	ockpile)	
2.	En	niss	sion	Point	Type Code	e:								
	[]	1		[] 2		[]	3		[X]	K] 4		
3.	De	scr	iptio	ons of	Emissions	Points C	Comp	ris	ing t	his Emi	ssio	ons Unit:		
	NIC	\	4 TO	DT 10	DIE									
	NC	JΤ	AP	PLIC	ABLE									
4.	ID	Nυ	ımb	ers or	Descriptio	ns of Em	issio	n U	Jnits	with thi	is E	Emission Point in	Common:	_
								1	NA					
5.	Dis	sch	arge	Type	Code:									_
	[]		- 1	[X] F		[]	Н		[] P		
	[]	R		[] V				W					
	Cto	-1-	TT-:	-1-4. NI	OT ABBI	ICADI	T.							_
0.	Sta	ick	пец	gnt: N	OT APPI	ACABL	£							
7.	Ex	it I	Diam	neter:				_						_
8.	Ex	it T	emp	peratu	e:									
9.	Ac	tua	1 Vc	lumet	ric Flow R	ate:								_
٠.	110	·ua	. , ,	, and the	110 1 10 10 10	aic.								
														_

Emissions Unit Information Section $\underline{10}$ of $\underline{14}$

10. Percent Water Vapor: 4-6%	
11. Maximum Dry Standard Flow Rate:	
12. Nonstack Emission Point Height: variable	feet
13. Emission Point UTM Coordinates: Zone: 17	
14. Emission Point Comment:	
Emissions Point will be fugitive only, if any emissions are generate	ed at all.

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

details on this subsection of the Application for	or Air Permit.		
1. Segment Description (Process/Fuel Type a	nd Associated Operating Method/Mode):		
Material Handling - 4' x 80' Portable Radial Stacking Belt - utilized to convey or stack finished product into stockpiles or trucks. Material dampened by a Water Spray Dust Suppression System at triple deck screening device. All uncrushed material is dampened in its stockpile as to control emissions in the conveying, screening and crushing process.			
2. Source Classification Code (SCC): 1421			
3. SCC Units: tons of material conveyed			
4. Maximum Hourly Rate:	5. Maximum Annual Rate:		
200 ton/hr	624,000 ton/yr		
6. Estimated Annual Activity Factor:	NA		
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:		
9. Million Btu per SCC Unit:			
10. Segment Comment:			

1.	Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):		
	NOT APPLICABLE			
	•			
2.	Source Classification Code (SCC):			
3.	SCC Units:			
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		
6.	Estimated Annual Activity Factor:			
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:		
9.	Million Btu per SCC Unit:			
10.	Segment Comment:			
	· 			

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant ____1___ of ___1____

	<u> </u>
1.	Pollutant Emitted: PM10, TSP
2.	Total Percent Efficiency of Control: 90 %
3.	Primary Control Device Code: 061, 062 and 099
4.	Secondary Control Device Code: NA
5.	Potential Emissions: 0.10 lb/ton 0.15 ton/yr
6.	Synthetically Limited?
	[X] Yes [] No
7.	Range of Estimated Fugitive/Other Emissions:
	[] 1
8.	Emission Factor: 0.00048 lbs/ton
	Reference: AP-42
9.	Emissions Method Code:
	[] 1 [] 2 [X] 3 [] 4 [] 5
10.	Calculation of Emissions:
PN	$110_{\text{yearly}} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.00048 \text{ lb/ton})] / 2000 \text{ lb/ton} = 0.15 \text{ ton/yr}$
PN	$110_{\text{hourly}} = (200 \text{ ton/hr})(0.00048 \text{ lb/ton}) = 0.10 \text{ lb/hr}$
11	Pollutant Potential/Estimated Emissions Comment:
11.	Tondant Totalian Estimated Emissions Comment.

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated Emissions: Pollutant of 1. Pollutant Emitted: 2. Total Percent Efficiency of Control: 3. Primary Control Device Code: 4. Secondary Control Device Code: 5. Potential Emissions: lb/hour tons/year 6. Synthetically Limited? [] Yes [] No 7. Range of Estimated Fugitive/Other Emissions: [] 1 [] 2 [] 3 $\underline{0}$ to $\underline{0}$ tons/year 8. Emission Factor: Reference: 9. Emissions Method Code: [] 3 [] 4 [] 5 [] 1 [X] 2 10. Calculation of Emissions: 11. Pollutant Potential/Estimated Emissions Comment:

Emissions Unit Information Section $\underline{10}$ of $\underline{14}$

Allowable Emissions

1.	Basis for Allowable Emissions Code: This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.
2.	Future Effective Date of Allowable Emissions:
	Initial Visible Emissions Compliance Test
3.	Requested Allowable Emissions and Units:
	10 % Opacity
4.	Equivalent Allowable Emissions: tons/year
	Equivalent into whole Emissions.
5	Method of Compliance: Annual EPA Method 9 Compliance testing.
٥.	We would be compliance. Annual El A Method 9 Compliance testing.
	·
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
	•
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:
6	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
U.	Tollulant Anomable Emissions Comment (Desc. of Related Operating Method/Mode).
	·

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

	Visible Emissions Limitation: Visible Emissions Limitation1 of1
1.	Visible Emissions Subtype: VE
2.	Basis for Allowable Opacity: [X] Rule [] Other
3.	Requested Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: 10 % Maximum Period of Excess Opacity Allowed: 0 min/hour
	Method of Compliance: Annual EPA Method 9 visible emission compliance testing.
5.	Visible Emissions Comment:

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:					
	·	NOT APP	PLICABLE			
2.	CMS Requirement:	[] Rule	[] Other	
3.	Monitor Information: Manufacturer: Model Number:			Serial Nur	nber:	
4.	Installation Date (DD-MON-YYY	YY):				
5.	Performance Specification Test D	ate (DD-l	MON-YYY	Y):		
6.	Continuous Monitor Comment:				-	
	•				•	
	•					

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

If an or	the sw no	ncrement Consuming for Particulate Matter or Sulfur Dioxide? e 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 of the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Ex 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 © 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.
[]	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.
[X]	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.

Emissions Unit Information Section $\underline{10}$ of $\underline{14}$

2.]	naramant	Canarian	ina fa	- Nitua	m Diamida?
<u> </u>	Helement	Consum	ung 10	rmuoge	n Dioxide?

	series of ques unit consume and skip rema [] The eman	stions to make a pross PSD increment faining statements. issions unit address	eliminary determine or nitrogen dioxide sed in this section one PSD review pr	s nitrogen oxides, answer thation as to whether or not the. Check first statement, if a sundergoing PSD review a eviously, for nitrogen dioxi	he emissions any, that applies as part of this
	[] The factor to parage F.A.C., commen	ility addressed in the define and the emissions	nis application is conition of "major so unit addressed in t fter February 8, 19	lassified as an EPA major surce of air pollution" in Chhis section commenced (or 88. If so, baseline emission	apter 62-213, will
	emission	ns unit began initia	l operation after F	assified as an EPA major sebruary 8, 1988, but before emissions unit consumes in	March 28,
				will begin) initial operation and emissions unit consume	
	nonzero needed	. In such case, add	litional analysis, be ner changes in emis	emissions of the emissions by eyond the scope of this applesions have occurred (or wild increment.	ication, is
3.	Increment Co	nsuming/Expandir	og Code:		
٠.	PM	[] C	[] E	[X] No	
	SO2	įjc	[] E	[X] No	
	NO2	[] C	[] E	[X] No	
4.	Baseline Emis	ssions:			
	PM		lb/hour	tons/year	
	SO2		lb/hour	tons/year	
	NO2		lb/hour	tons/year	
5.	PSD Commer	nt:			_

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

Supplemental Requirements for All Applications

1	n El D'
1.	Process Flow Diagram
	[X] Attached, Document ID: III [] Not Applicable [] Waiver Requested
2	Fuel Analysis or Specification
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
	[] Attached, Document in: [A] Not Applicable [] Walver Requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID:_VI [] Not Applicable [] Waiver Requested
4	Description of Stack Sampling Facilities
١.	
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
5.	Compliance Test Report
	[] Attached, Document ID:
l	Previously submitted, Date:
	[] 1101104017 04011111044, 2410.
	IV 1 Not Applicable
	[X] Not Applicable
6.	Procedures for Startup and Shutdown
	[X] Attached, Document ID: [] Not Applicable
7	Operation and Maintenance Plan
/ .	•
	[X] Attached, Document ID:VII [] Not Applicable
8.	Supplemental Information for Construction Permit Application
	[X] Attached, Document ID: V [X] Not Applicable
	
9	Other Information Required by Rule or Statute
٦.	
	[] Attached, Document ID:[] Not Applicable

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. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
12 Identification of Additional Applicable Requirements
13. Identification of Additional Applicable Requirements
[] Attached, Document ID:[X] Not Applicable
14. Acid Rain Application (Hard-copy Required)
The real real representation (real 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:
[] 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

EMISSIONS POINT No.11

CATERPILLAR MODEL 3412 GENERATOR SET

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section Check one:

[X]	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).
[]	This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
[]	This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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

Emissions Unit Description and Status

1.	1. Description of Emissions Unit Addressed in This Section:				
	- ·	oration - Model 3412, 800 kW mum sulfur limit of 0.5% by w			
2.	ARMS Identification Numb	per: [] No Correspo	nding ID [X] Unknown		
3.	Emissions Unit Status Code: C	4. Acid Rain Unit? [] Yes [X] No	5. Emissions Unit Major Group SIC Code: 14		
6.	Initial Startup Date (DD-M	ON-YYYY): Unknown			
7.	Long-term Reserve Shutdov	wn Date (DD-MON-YYYY): NA			
8.	. Package Unit: Generator Set Manufacturer: Caterpillar Machinery Corporation Model Number: 3412				
9.	Generator Nameplate Ratin	g: 800 kW			
10.	0. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Temperature :				
11. Emissions Unit Comment: Caterpillar Machinery Corporation – Generator Set used to supply power to all components of this aggregate processing facility. Generator Set fired on No.2 virgin diesel fuel oil with a maximum sulfur content of 0.5 % by weight, ~ 138,000 BTU/gal and a maximum fuel consumption of ~ 30 gallons per hour.					

Emissions Unit Control Equipment

	<u>A.</u>
1.	Description:
	UNCONTROLLED
_	
2.	Control Device or Method Code:
	В
1.	Description:
	•
	·
<u> </u>	
2.	Control Device or Method Code:
	C
1.	Description:
	Control De
² .	Control Device or Method Code:

Emissions Unit Operating Capacity

- 1. Maximum Heat Input Rate: 6.21 MMBTU/hr
- 2. Maximum Incineration Rate:
- 3. Maximum Process or Throughput Rate: 30 gal/hr No.2 Fuel oil max.
- 4. Maximum Production Rate: 30 gal/hr No.2 virgin diesel fuel oil
- 5. Operating Capacity Comment:

Caterpillar Machinery Corporation -Generator Set used to supply power to entire crushing facility. Generator Set fired on "off-road" virgin No.2 Fuel Oil with a maximum sulfur content of 0.5 % by weight, ~138,000 BTU/gal and a maximum fuel consumption of 30 gallons per hour.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

10 hours/day

6 days/week

52 weeks/year

3120 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

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

This facility will be subject to 62-296.310(2) FAC rules and regulations.			

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

62-212.200(56) FAC	
62-296.800 FAC	
40 CFR 60, Subpart 000	
62-296.310 (2) FAC	
62-297 FAC	
62-297.340 FAC	-
62-210.350 FAC	
Chapter 84-446, Section 3(12) FS	
62-296.320 FAC	
62-296.310(3) FAC	
40 CFR 60.11 (d)	
62-4 FAC	
62-210 FAC	

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

	Emission Point Description and Type
1.	Identification of Point on Plot Plan or Flow Diagram:
	Caterpillar Machinery Corporation - Diesel Fired Generator - Set
2.	Emission Point Type Code:
	[X] 1 [] 2 [] 3 [] 4
3.	Descriptions of Emissions Points Comprising this Emissions Unit:
	NOT APPLICABLE
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
	NA
•	
	Discharge Town Code.
Э.	Discharge Type Code:
	[] D
6.	Stack Height: ~ 15'
7.	Exit Diameter: ~8"
0	To 'a Transport and Annual
δ.	Exit Temperature: NA
9.	Actual Volumetric Flow Rate: 5265 cfm

10. Percent Water Vapor: unknown	-
11. Maximum Dry Standard Flow Rate: un	known
12. Nonstack Emission Point Height: NA	feet
13. Emission Point UTM Coordinates: Zone: 17 East (km): 454.871	North (km): 3167.856
14. Emission Point Comment:	
crushing facility. Generator Set fired	Senerator Set used to supply power to entire on virgin "off-road" No.2 Fuel Oil with a veight, ~ 138,000 BTU/gal and a maximum fuel
	•

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

1.	Segment Description (Process/Fuel Type and Associated Operating Method/Mode):				
	Generator Set - No. 2 Virgin Diesel Fuel				
2.	Source Classification Code (SCC): 2020040	01			
3.	SCC Units: 1,000 gallons burned				
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:			
	30.0 gal/hr	~ 93,600 gal/yr			
6.	Estimated Annual Activity Factor:	-			
	N	A			
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:			
	0.50 %	Neg.			
9.	Million Btu per SCC Unit:	•			
		ΓU/SCC Unit			
10.	Segment Comment:				

1.	. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):			
	NOT APPLICABLE			
2.	Source Classification Code (SCC):			
3.	SCC Units:			
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		
	Estimated Annual Activity Factor:			
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:		
9.	Million Btu per SCC Unit:			
10.	Segment Comment:			
_				

E. POLLUTANT INFORMATION

	Pollutant Potential/Estimated Emissions: Pollutant1 of5				
1.	Pollutant Emitte	d: PM10			
2.	Total Percent Ef	ficiency of Contro	ol: NONE		
3.	Primary Control	Device Code: N	A		
4.	Secondary Contro	ol Device Code:	NA		
5.	Potential Emission	ons: 1.28 lb/hr o	or 2.00 ton/hr		
6.	Synthetically Lin	nited?			
	[] Yes				
7.	Range of Estima	ted Fugitive/Othe	er Emissions:		
	[] 1	[] 2	[] 3	_0 to0	tons/year
8.	Emission Factor: Reference:		U		-
9.	Emissions Metho	od Code:	- -		
	[.] 1	[]2	[X] 3	[] 4	[] 5
10.	Calculation of E	missions:			
	PM10 =	= (30 gal/hr fuel	use)(138,000 BTU	/gal) = 4.14 MMB'	TU/hr
		` _	/hr)(0.31 lb/MMB	0 /	
	(1.28 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 2.00 ton/yr				
11.	11. Pollutant Potential/Estimated Emissions Comment:				

E. POLLUTANT INFORMATION

	Pollutant Potential/Estimated En	missions: Pollutant _	2	of5
1.	Pollutant Emitted: NOx			
2.	Total Percent Efficiency of Contro	ol: NONE		
3.	Primary Control Device Code: NO	ONE		
4.	Secondary Control Device Code:			
5.	Potential Emissions:	18.26 lb/hour		28.49 tons/year
6.	Synthetically Limited? [] Yes [X] No			
7.	Range of Estimated Fugitive/Other	r Emissions: [] 3	<u>0</u> to _	0 tons/year
8.	Emission Factor: 4.41 lb/MMBT Reference: AP-42	U		
9.	Emissions Method Code: [] 1 [] 2	[X] 3] 4	[] 5
10. Calculation of Emissions: NOx = (30 gal/hr) (138,000 BTU/gal) = 4.14 MMBTU/gal (4.14 MMBTU/hr) (4.41 lb/MMBTU) = 18.26 lb/hr (18.26 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 28.49 ton/yr				
11	. Pollutant Potential/Estimated Emis	ssions Comment:		

E. POLLUTANT INFORMATION

	Pollutant Potential/Estim	ated Emissions: Pollutant	3	of	5
1.	Pollutant Emitted: CO				
2.	Total Percent Efficiency of	Control: NONE			
3.	Primary Control Device Co	ode: NONE			
4.	Secondary Control Device	Code:			
5.	Potential Emissions:	3.93 lb/hour		6.	14 tons/year
6.	Synthetically Limited?				
	[] Yes [X] No				
7.	Range of Estimated Fugitive	ve/Other Emissions:			
·	[] 1 [] 2	[] 3	_0	to <u>0</u>	tons/year
8.	Emission Factor: 0.95 lb/N Reference: AP-42	MMBTU			
9.	Emissions Method Code:				
	[] 1 [] 2	[X] 3	[] 4		[] 5
CC	(4.14 MMBTU/hr) (0.4 (3.93 lb/hr)(3120 hrs/y	TU/gal) = 4.14 MMBTU/gal 95 lb/MMBTU) = 3.93 lb/hi r) / 2000 lb/ton = 6.14 ton/y	r		
11. Pollutant Potential/Estimated Emissions Comment:					

E. POLLUTANT INFORMATION

ssions: Pollutant4	015
NONE	
NE ·	
1.20 lb/hour	1.87 tons/year
Emissions: [] 3	o <u>0</u> tons/year
[X] 3 [] 4	[] 5
4.14 MMBTU/gal (BTU) = 1.20 lb/hr (b/ton = 1.87 ton/yr ons Comment:	
	1.20 lb/hour missions: [] 3

E. POLLUTANT INFORMATION

	Ponutant Potential/Estimated E	missions: Pollutant	_ 5 0)I _5	
1.	Pollutant Emitted: TOC total				
2.	Total Percent Efficiency of Contro	ol: NONE			
3.	Primary Control Device Code: N	ONE			
4.	Secondary Control Device Code:				
5.	Potential Emissions:	1.49 lb/hour		2.32 tons/year	
6.	Synthetically Limited?				
	[] Yes [X] No				
7.	Range of Estimated Fugitive/Other	er Emissions:			
	[] 1 [] 2	[] 3	<u>0</u> to	0 tons/year	
8.	Emission Factor: 0.36 lb/MMBT	U			
	Reference: AP-42				
9.	Emissions Method Code:				
	[]1 []2	[X] 3] 4	[] 5	
10.	Calculation of Emissions:		-	_	_
TC	OC = (30 gal/hr) (138,000 BTU/ga)	al) = 4.14 MMBTU/gal			
	(4.14 MMBTU/hr) (0.36 lb/				
	(1.49 lb/hr)(3120 hrs/yr) / 20				
11. Pollutant Potential/Estimated Emissions Comment:					
11.	ronulant Potential/Estimated Emi	issions Comment:			
	•				
٠					

Allowable Emissions

1.	Basis for Allowable Emissions Code:				
_	RULE				
2.	·				
3.	Initial Emissions Compliance Test Requested Allowable Emissions and Units:				
ا ا	< 20 % Opacity				
4.	Equivalent Allowable Emissions: tons/year				
5.	Method of Compliance: Annual EPA Method 9 Compliance testing.				
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):				
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				
	Mother Laf Committee on				
٥.	Method of Compliance:				
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):				
	·				

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

	Visible Emissions Limitation: Visible Emissions Limitation1 of1
1.	Visible Emissions Subtype: VE
2.	Basis for Allowable Opacity: [X] Rule [] Other
3.	Requested Allowable Opacity: Normal Conditions: < 20 % Exceptional Conditions: < 20 % Maximum Period of Excess Opacity Allowed: 0 min/hour
4.	Method of Compliance: Annual EPA Method 9 visible emission compliance testing.
5.	Visible Emissions Comment:

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:				
		APF	LICABLE	1	
2.	CMS Requirement:	[] Rule	[] Other
3.	Monitor Information:				
	Manufacturer:				
	Model Number:			Serial Nu	mber:
4.	Installation Date (DD-MON-YYYY):				
5.	Performance Specification Test Date (DD-l	MON-YYY	Y):	
6.	Continuous Monitor Comment:				
	•				
	•				
		,			
					•

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSD Increment Consumption Determination

If to	he sw no	recrement Consuming for Particulate Matter or Sulfur Dioxide? e emissions unit addressed in this section emits particulate matter or sulfur dioxide, where the following series of questions to make a preliminary determination as to whether at 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 © 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.
[.]	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.
[X]	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.

225

2. Increment Consuming for Nitrogen Dioxide?

se un	ne emissions unit addressed in this section emits nitrogen oxides, answer the following es of questions to make a preliminary determination as to whether or not the emissions consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies 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 © 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
	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.

- [] 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.
- [X] 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.

3. I	PM SO2 NO2	uming/Expanding C [] C [] C [] C	Code: [] E [] E [] E	[X] No [X] No [X] No
4. E	Baseline Emission PM SO2 NO2	ons:	lb/hour lb/hour lb/hour	tons/year tons/year tons/year
5. P	SD Comment:			

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

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

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		
10 7 1 11 11 11		
12. Enhanced Monitoring Plan		
[] Attached, Document ID: [X] Not Applicable		
13. Identification of Additional Applicable Requirements		
[] Attached, Document ID: [X] Not Applicable		
[] Attached, Boddinent 15 [A] Not Applicable		
14. Acid Rain Application (Hard-copy Required)		
The state of the s		
[] 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:		
[] N		
[] 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:		
Temolog, Soulion 15.		
[X] Not Applicable		

EMISSIONS POINT No.12

FUGITIVE EMISSIONS FROM UNPAVED/ PAVED HAUL ROADS

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section 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).
 This Emissions Unit Information Section addresses, as a single emissions unit, an
- individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
- [] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.
- [X] 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.

Emissions Unit Information Section $\underline{12}$ of $\underline{14}$

Emissions Unit Description and Status

1.	Description of Emissions Unit Addressed in This Section:						
	Fugitive Emissions from Unpaved / Paved Haul Roads (Worst Case Scenario).						
2.	ARMS Identification Num	ber:	[] No Correspo	onding ID [X] Unknown		
3.	Emissions Unit Status Code: C	4.		Unit? [X] No	5. Emissions Unit Major Group SIC Code: 14		
6.	Initial Startup Date (DD-M	ON-	•	nown			
7	I are dame Danas Clastic	т					
1.	Long-term Reserve Shutdo	wn I	•	ION-YYYY): VA			
8.	Package Unit: Not Applica	ble					
	Manufacturer:						
	Model Number:						
9.	9. Generator Nameplate Rating:						
10.	Incinerator Information:				·		
	Dwell Temperature:						
	Dwell Time:						
	Incinerator Temperature :						
11. Emissions Unit Comment: Fugitive Emissions from Unpaved Haul Roads – emissions based on a worst case scenario. All roads are watered continuously by a water truck. Vehicular traffic speed is posted and enforced at a maximum of 5 m.p.h							

Emissions Unit Control Equipment

<u>A.</u>
1. Description:
Fugitive Emissions from Unpaved Haul Roads - emissions based on a worst case
scenario. All roads are watered continuously by a water truck. Vehicular traffic speed is
posted and enforced at a maximum of 5 m.p.h.
posted and enforced at a maximum of 5 m.p.n.
·
2. Control Device or Method Code: 099
· · · · · · · · · · · · · · · · · · ·
В.
1. Description:
2. Control Device or Method Code:
C.
1. Description:
1. Description.
2. Control Device or Method Code:

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate: Not Applicable
2.	Maximum Incineration Rate:
3.	Maximum Process or Throughput Rate:
4.	Maximum Production Rate:
All – e	Operating Capacity Comment: emissions are fugitive, if any emissions at all. Fugitive Emissions from Unpaved Sites missions based on a worse case scenario. All roads are watered continuously by a ter truck. Vehicular traffic speed is posted and enforced at a maximum of 5 m.p.h.

Emissions Unit Operating Schedule

Re	Requested Maximum Operating Schedule:					
	10 hours/day	6 days/week				
	52 weeks/year	3120 hours/year				

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

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

This facility will be subject to 40 CFR Part 60, subsection 000 rules and regulations.

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

62-212.200(56) FAC	
62-296.800 FAC	
40 CFR 60, Subpart 000	
62-296.310 (2) FAC	
62-297 FAC	
62-297.340 FAC	
62-210.350 FAC	
Chapter 84-446, Section 3(12) FS	
62-296.320 FAC	
62-296.310(3) FAC	-
40 CFR 60.11 (d)	·
62-4 FAC	
62-210 FAC	

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

	Emission Point Description and Ty	pe				
1.	Identification of Point on Plot Plan or Flow Diagram:					
	Unpaved/Paved Haul Roads					
2.	Emission Point Type Code:					
	[] 1	Γ	1	3	[X] 4	
		-	•			
3.	Descriptions of Emissions Points Co.	mp	risi	ing this	Emissions Uni	t:
		_				
	NOT APPLICABLE					
4.	ID Numbers or Descriptions of Emis	sio	n U	nits w	ith this Emissio	n Point in Common:
			ľ	NA		
5.	Discharge Type Code:					_
	[] D [X] F	ſ	1	Н	[] P	
	Î Î R Î Î V	ĺ	-	W		
		-	•			
6.	Stack Height:					_
7.	Exit Diameter:					
				_		
8.	Exit Temperature:					
9.	Actual Volumetric Flow Rate:					

Emissions Unit Information Section $\underline{12}$ of $\underline{14}$

10. Percent Water Vapor:
11. Maximum Dry Standard Flow Rate:
12. Nonstack Emission Point Height: Groundlevel
13. Emission Point UTM Coordinates:
Zone: 17 East (km): 454.871 North (km): 3167.856
14. Emission Point Comment:
Fugitive Emissions from Unpaved and paved Haul Roads – emissions based on a worst case scenario. All roads are watered continuously by a water truck. Vehicular traffic speed is posted and enforced at a maximum of 5 m.p.h.

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):				
Material Handling - Fugitive Emissions from Unpaved and paved Haul Roads - emissions based on a worst case scenario. All roads are watered continuously by a water truck. Vehicular traffic speed is posted and enforced at a maximum of 5 m.p.h.				
Source Classification Code (SCC): 1421				
SCC Units: Vehicle miles traveled				
	5. Maximum Annual Rate:			
0.32 lb/hr	0.50 ton/yr			
Estimated Annual Activity Factor:				
Maximum Percent Sulfur:	8. Maximum Percent Ash:			
NA	NA			
Million Btu per SCC Unit:				
Segment Comment:				
	Aterial Handling - Fugitive Emissions bissions based on a worst case scenario. A lick. Vehicular traffic speed is posted and Source Classification Code (SCC): 1421 SCC Units: Vehicle miles traveled Maximum Hourly Rate: 0.32 lb/hr Estimated Annual Activity Factor: Maximum Percent Sulfur:			

1.	Segment Description (Process/Fuel Type and Associated Operating Method/Mode):					
	NOT APPLICABLE					
2.	Source Classification Code (SCC):					
3.	SCC Units:					
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:				
6.	Estimated Annual Activity Factor:					
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:				
9.	9. Million Btu per SCC Unit:					
10.	10. Segment Comment:					

E. POLLUTANT INFORMATION

Pollutant Potential/Estimated E	missions: Polluta	nt1 of	1	
1. Pollutant Emitted: PM10				
2. Total Percent Efficiency of Control	ol: 90 % (AP-42 so	ection 13.2.2-26 re	eference 18)	
3. Primary Control Device Code: 00)9			
4. Secondary Control Device Code:	NA			
5. Potential Emissions: without con	itrols: 2.0lb/VM7			
with contro	ols: 0.2 lb/VMT	•		
6. Synthetically Limited?				
[] Yes [X] No				
7. Range of Estimated Fugitive/Other				
[] 1 [] 2	[] 3	<u>0</u> to	0tons/year	
8. Emission Factor: 0.2 lb/VMT Reference: AP-42 Section	13.2.1.1 Unpaved	Roads		
9. Emissions Method Code:				
[]1 []2	[X] 3	[] 4	[] 5	
10. Calculation of Emissions: $ E = k(5.9)[s/12][S/30][W/3]^{0.7} [w/4]^{0.5} [365-P/365] $ $ E = 0.36(5.9)[8.9/12][5/30][31.3/3]^{0.7} [10/4]^{0.5} [365-120/365] = 2.0 \text{ lb/VMT} $ $ E = 2.0 \text{ lb/VMT } (1-0.90 \text{ control efficiency}) = 0.2 \text{ lb/VMT} $ $ E_{\text{daily}} = (0.2 \text{ lb/VMT})(16 \text{ VMT/day}) = 3.2 \text{ lb/day} $ $ E_{\text{year}} = [(3.2 \text{ lb/day} / 10 \text{ hr/day})] (3120 \text{ hrs/yr}) / 2000 \text{ lb/ton} = 0.50 \text{ ton/yr} $				
11. Pollutant Potential/Estimated Em	ssions Comment:			

Emissions Unit Information Section $\underline{12}$ of $\underline{14}$

Allowable Emissions

1.	Basis for Allowable Emissions Code:					
	Rule Future Effective Date of Allowable Emissions:					
2.						
	Initial Emissions Compliance Test					
3.	Requested Allowable Emissions and Units:					
1	< 5 % Opacity Equivalent Allowable Emissions: tons/yeer					
4.	Equivalent Allowable Emissions: tons/year					
5.	Method of Compliance: Annual EPA Method 9 Compliance testing.					
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):					
	,					
1	Davis for Allered La D. Labor Co. 1					
1.	Basis for Allowable Emissions Code					
2	Future Effective Date of Allowable Emissions:					
2.	Tutale Effective Bate of Time waste Emissions.					
3.	Requested Allowable Emissions and Units:					
	1					
4.	Equivalent Allowable Emissions: lb/hr tons/year					
	•					
5.	Method of Compliance:					
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):					

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

	Visible Emissions Limitation: Visible Emissions Limitation1 of1
1.	Visible Emissions Subtype:
l	VE
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:
	Annual EPA Method 9 visible emission compliance testing.
5.	Visible Emissions Comment:

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:					
	NOT APPLICABLE					
2.	CMS Requirement:	[] Rule	[] Other	
3.	Monitor Information:					
	Manufacturer:					
	Model Number:			Serial Nu	mber:	
4.	Installation Date (DD-MON-YYYY):				·	
5.	Performance Specification Test Date (DD-l	MON-YYY	YY):		
6.	Continuous Monitor Comment:					
	<u> </u>				•	

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

DSD Ingramant Congumntian Detarmination

<u>P3</u>	<u>ע</u> י	Increment Consumption Determination
If to and or	he sw no	ncrement Consuming for Particulate Matter or Sulfur Dioxide? e emissions unit addressed in this section emits particulate matter or sulfur dioxide, eer the following series of questions to make a preliminary determination as to whether t the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. k 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 © 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.
[]	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.
[X]	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.

3.

4.

5.

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.

uiiu	outpremaining statements.						
[]		PSD review previo	ndergoing PSD review as part of this busly, for nitrogen dioxide. If so,				
] The facility addressed in this application is classified as an EPA major source pursuant to paragraph © 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.						
[]	- · · · · · · · · · · · · · · · · · · ·	- '	begin) initial operation after March emissions unit consumes increment.				
[X] 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.							
Incre	ement Consuming/Expanding C	Code:					
	PM [] Ĉ	[]E	[X] No				
5	SO2 [] C	[]E	[X] No				
1	NO2 [] C	[] E	[X] No				
Base	eline Emissions:						
	PM	lb/hour	tons/year				
	SO2	lb/hour	tons/year				
	NO2	lb/hour	tons/year				
PSD	Comment:						

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

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

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. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
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:
[] 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

EMISSIONS POINT No.13

STOCKPILES AND CONVEYOR DROPS TO STOCKPILES

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section 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).
[-	This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
	-	This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

Emissions Unit Description and Status

1.	1. Description of Emissions Unit Addressed in This Section:						
		Stora	nge Piles & Conveyor Drop	S.			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	igo i nos co conveyor brop				
2.	ARMS Identification Numb	ber:	No Correspo	nding ID [X] Unknown			
			[]				
3.	Emissions Unit Status	4.	Acid Rain Unit?	5. Emissions Unit Major			
	Code: C		[] Yes [X] No	Group SIC Code:			
				14			
6.	Initial Startup Date (DD-M	ON-	•				
7	Long-term Reserve Shutdo	um F	Unknown				
7.	Long-term reserve shutdo	WII 1	NA				
8.	Package Unit: Not Applica	ble					
	Manufacturer:						
	Model Number:						
9.	Generator Nameplate Ratin	ıg:					
10.	Incinerator Information:						
	Dwell Temperature:						
	Dwell Time:						
	Incinerator Temperature :						
11. Emissions Unit Comment:							
Fugitive Emissions from Storage Piles and Drops from conveyors to stockpiles – worst							
case scenario. All stockpiles are watered continuously by water truck.							

Emissions Unit Control Equipment

	<u>A.</u>
1.	Description:
	ugitive Emissions from Storage Piles and Drops from conveyors to stockpiles - worst
ca	se scenario. All stockpiles are watered continuously by water truck.
	of socialist 111 stockples are watered continuously by water trucks
	\cdot
2.	Control Device or Method Code: 099
	В.
1.	Description:
2.	Control Device or Method Code:
_	C
1.	Description:
2.	Control Device or Method Code:

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: Not Applicable
2. Maximum Incineration Rate:
3. Maximum Process or Throughput Rate:
4. Maximum Production Rate:
5. Operating Capacity Comment:
5. Operating Capacity Comment: Fugitive Emissions from Storage Piles and Drops from conveyors to stockpiles – worst case scenario. All stockpiles are watered continuously by water truck.

Emissions Unit Operating Schedule					
Requested Maximum Operating Schedule:					
10 hou	ars/day 6 days/week				
52 wee	eks/year 3120 hours/year				

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

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

This facility will be subject to 40 CFR Part 60, subsection 000 rules and regulations.				

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

	1
62-212.200(56) FAC	
62-296.800 FAC	
40 CFR 60, Subpart 000	
62-296.310 (2) FAC	
62-297 FAC	
62-297.340 FAC	
62-210.350 FAC	
Chapter 84-446, Section 3(12) FS	
62-296.320 FAC	
62-296.310(3) FAC	
40 CFR 60.11 (d)	
62-4 FAC	
62-210 FAC	

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

	Emission Point Description and Type
	Identification of Point on Plot Plan or Flow Diagram:
	orage Piles and Drops from conveyors to storage piles.
2.	Emission Point Type Code:
	[] 1
3.	Descriptions of Emissions Points Comprising this Emissions Unit:
	NOT APPLICABLE
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
	NA
5.	Discharge Type Code:
	[] D [X] F [] H [] P
	[] R [] V [] W
6.	Stack Height:
7.	Exit Diameter:
8.	Exit Temperature:
9.	Actual Volumetric Flow Rate:

10. Percent Water Vapor:
11. Maximum Dry Standard Flow Rate:
12. Nonstack Emission Point Height: Groundlevel
13. Emission Point UTM Coordinates:
Zone: 17 East (km): 454.871 North (km): 3167.856
14. Emission Point Comment:
Fugitive Emissions from Storage Piles and Drops from conveyors to stockpiles – worst case scenario. All stockpiles are watered continuously by water truck.
·

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

1.	Segment Description (Process/Fuel Type and Associated Operating Method/Mode):			
Ma	aterial Handling – Material Storage Stock	xpiles and Conveyor Drops		
2.	Source Classification Code (SCC): UNKN	IOWN		
3.	SCC Units:			
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:		
	200 ton/hr and 0.16 lb/hr fugitives	624,000 tpy & 0.26 tpy fugitives		
6.	Estimated Annual Activity Factor:			
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:		
9.	Million Btu per SCC Unit:			
10	Segment Comment:			
	•			

1.	1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):				
	NOT APPLICABLE				
		•			
2.	Source Classification Code (SCC):				
3.	SCC Units:				
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:			
6.	Estimated Annual Activity Factor:				
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:			
9.	Million Btu per SCC Unit:				
10.	10. Segment Comment:				

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

Pollutant Potential/Estimated	Emissions: Poll	utant1 o	of1
1. Pollutant Emitted: PM10			
2. Total Percent Efficiency of Con-	trol: 90 % (AP-42	2 section 13.2.4.4)	
3. Primary Control Device Code:	009		
4. Secondary Control Device Code:	: NA		
5. Potential Emissions: without cowith cont	ontrols : 1.62 lb/l rols : 1.62 lb/day		
6. Synthetically Limited?			
[] Yes [X] No			
7. Range of Estimated Fugitive/Ott	her Emissions:		
[] 1 [] 2		_ <u>0</u> to	0 tons/year
8. Emission Factor: 0.2 lb/VMT			
Reference: AP-42 Section	1 13.2.4.2 Aggreg	rate Handling and	Storage Piles.
9. Emissions Method Code:			
[]1 []2	[X] 3	[] 4	[] 5
10. Calculation of Emissions:		_	
$E = k (0.0032) [u/5]^{1.3} / [M/2]^{1.4}$			
$ \begin{aligned} \mathbf{E} &= \mathbf{k} \ (0.0032) \ [\mathbf{u}/5]^{1.3} \ / \ [\mathbf{M}/2]^{1.4} \\ \mathbf{E} &= 0.35 \ (0.0032) \ [7/5]^{1.3} \ / \ [0.7/2]^{1.4} \end{aligned} $	$^{4} = 0.0081 \text{ lb/ton}$		
E = (200 ton/hr)(0.0081 lb/ton) = 1			
E = (1.62 lb/hr) (1-0.90 control eff)		(v) = 1.62 lb/day	
E = [(1.62 lb/day / 10 hr/day)] (312)			r
11. Pollutant Potential/Estimated Er	nissions Commer	nt:	

Allowable Emissions

1.	Basis for Allowable Emissions Code:
	Rule
2.	Future Effective Date of Allowable Emissions:
	Initial Emissions Compliance Test
3.	Requested Allowable Emissions and Units:
	< 5 % Opacity
4.	Equivalent Allowable Emissions: tons/year
5.	Method of Compliance: Annual EPA Method 9 Compliance testing.
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
,	
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
	M. 4. 1. CO 12
5.	Method of Compliance:
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
	<u></u>

F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field 1. Most emissions units will be subject to a "subtype VE" limit only.

	Visible Emissions Limitation: Visible Emissions Limitation1 of1
1.	Visible Emissions Subtype:
L_	<u></u>
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:
5	Annual EPA Method 9 visible emission compliance testing.
5.	Visible Emissions Comment:

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:			
	NOT APPLICABLE			
2.	CMS Requirement:	[] Rule	[] Other
3.	Monitor Information:		•	
٦.	Manufacturer:			
	Model Number:		Carial Nav	1
	Model Number:		Serial Nu	mber:
4.	Installation Date (DD-MON-YYYY)	:		
5.	Performance Specification Test Date	(DD-MON-YYY	Y):	
6.	Continuous Monitor Comment:			

I._PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD increment. PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

<u>PS</u>	D	Increment Consumption Determination
If tans	he sw no	recrement Consuming for Particulate Matter or Sulfur Dioxide? emissions unit addressed in this section emits particulate matter or sulfur dioxide, er the following series of questions to make a preliminary determination as to whether t the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. k 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 © 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.
[]	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.
[X]	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

4.

5.

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 © 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.					
[]	•	• •	begin) initial operation after March emissions unit consumes increment.		
[X	[X] 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.					
Inc	re	ment Consuming/Expanding Co	ode:			
		M [] C	[]E	[X] No		
	S	O2 [] C	ΪE	[X] No		
	N	102 [] C	įjε	[X] No		
Ba	se	line Emissions:				
	PM lb/hour tons/year					
		O2	lb/hour	tons/year		
		102	lb/hour	tons/year		
PS	PSD Comment:					

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

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

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. Enhanced Monitoring Plan		
[] Attached, Document ID: [X] Not Applicable		
13. Identification of Additional Applicable Requirements		
[] Attached, Document ID: [X] Not Applicable		
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:		
[] 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		

EMISSIONS POINT No.14

VIBRATING GRIZZLY FEEDER / RECEIVING HOPPER

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through I 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.

A. GENERAL EMISSIONS UNIT INFORMATION

This subsection of the Application for Air Permit form provides general information on the emissions unit addressed in this Emissions Unit Information Section, including information on the type, control equipment, operating capacity, and operating schedule of the emissions unit.

Type of Emissions Unit Addressed in This Section

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).
 This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production
- [] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated 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.

unit, or activity, which also has other individually-regulated emission points.

[X] 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.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section:			
Cedarapid	Cedarapids, Inc. – Grizzly Feeder / Receiving Hopper.		
	,		
2. ARMS Identification Num	ber: No Correspo	nding ID [X] Unknown	
2. Micros radialization realization	j ito conespo	nding ib [A] Cindiowii	
3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major	
Code: C	[] Yes [X] No	Group SIC Code: 14	
6. Initial Startup Date (DD-M	ION VVVV): Unknown	17	
6. Hillar Startup Date (DD-W	iON-1111). Ulkliowii		
7. Long-term Reserve Shutdo	•		
O. Deslace Heiter and D. I.	NA NA		
Feeder / Receiving Hopper.	aimed Asphalt and Concrete Aggrega	te Processing Unit – Grizzly	
Manufacturer: Cedarapid			
Model Number: Unknown			
 Generator Nameplate Ratin Incinerator Information: 	ng:		
Dwell Temperature:			
Dwell Time:			
Incinerator Temperature:			
11. Emissions Unit Comment: The Grizzly feeder / receiving hopper is used to receive			
uncrushed material from a front end loader and vibrate it into the primary crusher.			
	<u> </u>		

Emissions Unit Control Equipment

<u>A.</u>
1. Description:
The Grizzly feeder / receiving hopper is used to receive uncrushed material from a front
end loader and vibrate it into the primary crusher. Water spray bars are located at the
entrance and top of the vibrating feeder to dampen the processed materials and to
control any emissions generated by this process. The material to be crushed is dampened
in it's stockpile as to control fugitive emissions throughout the entire process.
and a second-process to control region of emissions throughout the entire process,
2. Control Device or Method Code: 061, 062, 099
<u> </u>
В.
1. Description:
2. Control Device or Method Code:
. C
1. Description:
2. Control Device or Method Code:

Emissions Unit Information Section <u>14</u> of <u>14</u>.

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: None
2. Maximum Incineration Rate:
3. Maximum Process or Throughput Rate: 200 ton/hr as reclaimed concrete or asphalt material (***dependent on material characteristics).
4. Maximum Production Rate: 200 ton/hr as processed (crushed) reclaimed concrete or asphalt aggregate material (***dependent on material characteristics).
5. Operating Capacity Comment: The Grizzly feeder / receiving hopper is used to receive uncrushed material from a front end loader and vibrate it into the primary crusher. Water spray bars are located at the entrance and top of the vibrating feeder to dampen the processed materials and to control any emissions generated by this process. The material to be crushed is dampened in it's stockpile as to control fugitive emissions throughout the entire process.

Emissions Unit Operating Schedule

Emissions only Operating Schedule	
Requested Maximum Operating Schedule:	
10 hours/day	6 days/week
52 weeks/year	3120 hours/year

B. EMISSIONS UNIT REGULATIONS

Depending on the application category, this subsection of the Application for Air Permit form provides either a brief analysis or detailed listing of all federal, state, and local regulations applicable to the emissions unit addressed in this Emissions Unit Information Section.

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)		
This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.		

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

62-212.200(56) FAC	
62-296.800 FAC	
40 CFR 60, Subpart 000	
62-296.310 (2) FAC	
62-297 FAC	
62-297.340 FAC	
62-210.350 FAC	
Chapter 84-446, Section 3(12) FS	
62-296.320 FAC	
62-296.310(3) FAC	
40 CFR 60.11 (d)	
62-4 FAC	
62-210	

C. EMISSION POINT (STACK/VENT) INFORMATION

This subsection of the Application for Air Permit form provides information about the emission point associated with the emissions unit addressed in this Emissions Unit Information Section. An emission point is typically a stack or vent but can be any identifiable location at which air pollutants, including fugitive emissions, are discharged into the atmosphere.

	Emission Point Description and Type		
1.	Identification of Point on Plot Plan or Flow Diagram:		
	Cedarapids, Inc. – Vibrating Grizzly Feeder / Receiving Hopper		
2.	Emission Point Type Code:		
	[] 1 [] 2 [] 3 [X] 4		
2	Descriptions of Emissions Delicto Commission this Emissions Heit		
٥.	Descriptions of Emissions Points Comprising this Emissions Unit:		
	Not Applicable		
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
	N		
	NA		
5	Discharge Type Code:		
٥.	[] D [X] F [] H [] P		
6.	Stack Height: Not Applicable		
7.	Exit Diameter:		
0	T. t. T.		
δ.	Exit Temperature:		
0	Actual Volumetric Flow Rate:		
7.	Actual Volumetric Flow Rate.		

Emissions Unit Information Section <u>14</u> of <u>14</u>.

10. Percent Water Vapor: ~ 6% moisture		
11. Maximum Dry Standard Flow Rate: NA dscfm		
12. Nonstack Emission Point Height: ~15 feet		
13. Emission Point UTM Coordinates:		
Zone: 17 East (km): 454.871 North (km): 3167.856		
14. Emission Point Comment:		
Emissions Point will be fugitive only, if any emissions are generated at all.		
·		
·		

D. SEGMENT (PROCESS/FUEL) INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of segment data (Fields 1-10) must be completed for each segment required to be reported and for each alternative operating method or mode (emissions trading scenario) under Chapter 62-213, F.A.C., for which the maximum hourly or annual segment-related rate would vary. A segment is a material handling, process, fuel burning, volatile organic liquid storage, production, or other such operation to which emissions of the unit are directly related. See instructions for further details on this subsection of the Application for Air Permit.

2.	Segment Description (Process/Fuel Type ar	nd Associated Operating Method/Mode):
Material Handling Process – Cedarapids, Inc The Grizzly feeder / receiving hopper is used to receive uncrushed material from a front end loader and vibrate it into the primary crusher. Water spray bars are located at the entrance and top of the vibrating feeder to dampen the processed materials and to control any emissions generated by this process. The material to be crushed is dampened in it's stockpile as to control fugitive emissions throughout the entire process.		
2.	Source Classification Code (SCC): 14	
3.	SCC Units: tons processed per hour	•
4.	Maximum Hourly Rate:	5. Maximum Annual Rate:
	200 ton/hr	624,000 ton/yr
6.	Estimated Annual Activity Factor:	•
	N	A
8.	Maximum Percent Sulfur:	8. Maximum Percent Ash:
	NA	
9.	Million Btu per SCC Unit:	
10.	Segment Comment:	

Emissions Unit Information Section 14 of 14.

1. Segment Description (Process/Fuel Type a	nd Associated Operating Method/Mode):
	•
2. Source Classification Code (SCC):	<u> </u>
z. Source Classification Code (SCC).	
3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
C. Entire at ad Americal Astinity France	
6. Estimated Annual Activity Factor:	•
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment:	

E. POLLUTANT INFORMATION

For the emissions unit addressed in this Emissions Unit Information Section, a separate set of pollutant information must be completed for each pollutant required to be reported. See instructions for further details on this subsection of the Application for Air Permit.

	Pollutant Potential/Estimated Emissions: Pollutantl ofl
1.	Pollutant Emitted: PM10
2.	Total Percent Efficiency of Control: 90%
3.	Primary Control Device Code: 061, 062, and 099
4.	econdary Control Device Code: NA
5.	Potential Emissions: 0.42 lb/hr 0.66 ton/yr
6.	Synthetically Limited?
	Yes [X] No
7.	Range of Estimated Fugitive/Other Emissions:
] 1 [] 2 [] 3 <u>0 to 0 tons/year</u>
8.	Emission Factor: 0.0021 lbs/ton Reference: AP-42, Table 3.3-1
9.	Emissions Method Code:
] 1 [] 2 [X] 3 [] 4 [] 5
10.	Calculation of Emissions:
PN	$0_{\text{yearly}} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.0021 \text{ lb/ton})] / 2000 \text{ lb/ton} = 0.66 \text{ ton/yr}$
	$10_{\text{hour}} = (200 \text{ ton/hr})(0.0021 \text{ lb/ton}) = 0.42 \text{ lb/hr}$
11.	Pollutant Potential/Estimated Emissions Comment:
	<u> </u>

Emissions Unit Information Section <u>14</u> of <u>14</u>.

Allowable Emissions

1.	Basis for Allowable Emissions Code:							
	This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.							
	Future Effective Date of Allowable Emissions: Initial Visible Emissions Complaince lest							
3.	Requested Allowable Emissions and Units:							
	10 % Opacity							
4.	Equivalent Allowable Emissions: lb/hour tons/year							
5.	Method of Compliance: Annual EPA Method 9 Compliance Testing.							
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):							
1	Davis Car Allerent I. Davissians Carle							
1.	Basis for Allowable Emissions Code							
2.	Future Effective Date of Allowable Emissions:							
3.	Requested Allowable Emissions and Units:							
٠.	Trequestion Time Whole Emissions and Cinis.							
4.	Equivalent Allowable Emissions: lb/hr tons/year							
5.	Method of Compliance:							
	Dille (Allem II E. C.							
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):							

Emissions Unit Information Section 14 of	14	Ł	
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F. VISIBLE EMISSIONS INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are subject to a visible emissions limitation. The intent of this subsection of the form is to identify each activity associated with the emissions unit addressed in this section for which a separate opacity limitation would be applicable. Visible emission subtype codes for each such activity are listed in the instructions for Field

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Most emissions units will be subject to a "subtype VE" limit only.

	Visible Emissions Emittation. Visible Emissions Emittation or
$\overline{1}$.	Visible Emissions Subtype:
	·VE
2.	Basis for Allowable Opacity: [X] Rule [] Other
3.	Requested Allowable Opacity:
	Normal Conditions: 10 % Exceptional Conditions: 10 %
	Maximum Period of Excess Opacity Allowed: 0 min/hour
4.	Method of Compliance:
	Annual EPA Method 9 Visible Emissions Compliance Testing.
5.	Visible Emissions Comment:

G. CONTINUOUS MONITOR INFORMATION

This subsection of the Application for Air Permit form must be completed for only those emissions units which are required by rule or permit to install and operate one or more continuous emission, opacity, flow, or other type monitors. A separate set of continuous monitor information (Fields 1-6) must be completed for each monitoring system required.

Continuous Monitoring System:

1.	Parameter Code:			
		OT APP	LICABLE	
2.	CMS Requirement:	[] Rule	[] Other
3.	Monitor Information: Manufacturer: Model Number:			Serial Number:
4.	Installation Date (DD-MON-YYYY	Y):		•
5.	Performance Specification Test Da	te (DD-l	MON-YYY	Y):
6.	Continuous Monitor Comment:			

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

This subsection of the Application for Air Permit form must be completed for all applications, not just those undergoing prevention-of-significant-deterioration (PSD) review pursuant to Rule 62-212.400, F.A.C. The intent of this subsection is to make a preliminary determination as to whether the emissions unit addressed in this Emissions Unit Information Section consumes PSD PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates have been established are sulfur dioxide, particulate matter, and nitrogen dioxide.

PSL	Increment Consumption Determination
If the enthe following the fol	increment Consuming for Particulate Matter or Sulfur Dioxide? missions unit addressed in this section emits particulate matter or sulfur dioxide, answer owing series of questions to make a preliminary determination as to whether or not the as unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first ant, 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 © 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.
[]	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.
[X]	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.

Emissions Unit Information Section 14 of 14.

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 © 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.
- [] 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.
- [X] 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.

3.	Increment Co	nsuming/Expandin	g Code:						
	PM	[] C	[]E	[X] No					
	SO2	[] C	[]E	[X] No					
	NO2	[] C	[] E	[X] No					
4.	4. Baseline Emissions: (for diesel generator only)								
	PM	lb/hour	tons/year						
			·						

Emissions Unit Information Section 14 of 14

EMISSIONS UNIT SUPPLEMENTAL INFORMATION

This subsection of the Application for Air Permit form provides supplemental information related to the emissions unit addressed in this Emissions Unit Information Section. Supplemental information must be submitted as an attachment to each copy of the form, in hard-copy or computer-readable form.

	Supplemental Requirements for All Applications
1.	Process Flow Diagram
	[X] Attached, Document ID: III [] Not Applicable [] Waiver Requested
2.	Fuel Analysis or Specification
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
3.	Detailed Description of Control Equipment
	[X] Attached, Document ID: VI [] Not Applicable [] Waiver Requested
4.	Description of Stack Sampling Facilities
	[] Attached, Document ID: [X] Not Applicable [] Waiver Requested
5.	Compliance Test Report
	[] Attached, Document ID:
	[] Previously submitted, Date:
	[X] Not Applicable
6	Procedures for Startup and Shutdown
υ.	[] Attached, Document ID: [X] Not Applicable
	[A] Not Applicable
7.	Operation and Maintenance Plan
	[X] Attached, Document ID:_VII_ [] Not Applicable
8.	Supplemental Information for Construction Permit Application
	[X] Attached, Document ID: <u>V</u> [] Not Applicable
9.	Other Information Required by Rule or Statute
	[] Attached, Document ID: [X] Not Applicable

Emissions Unit Information Section 14 of 14

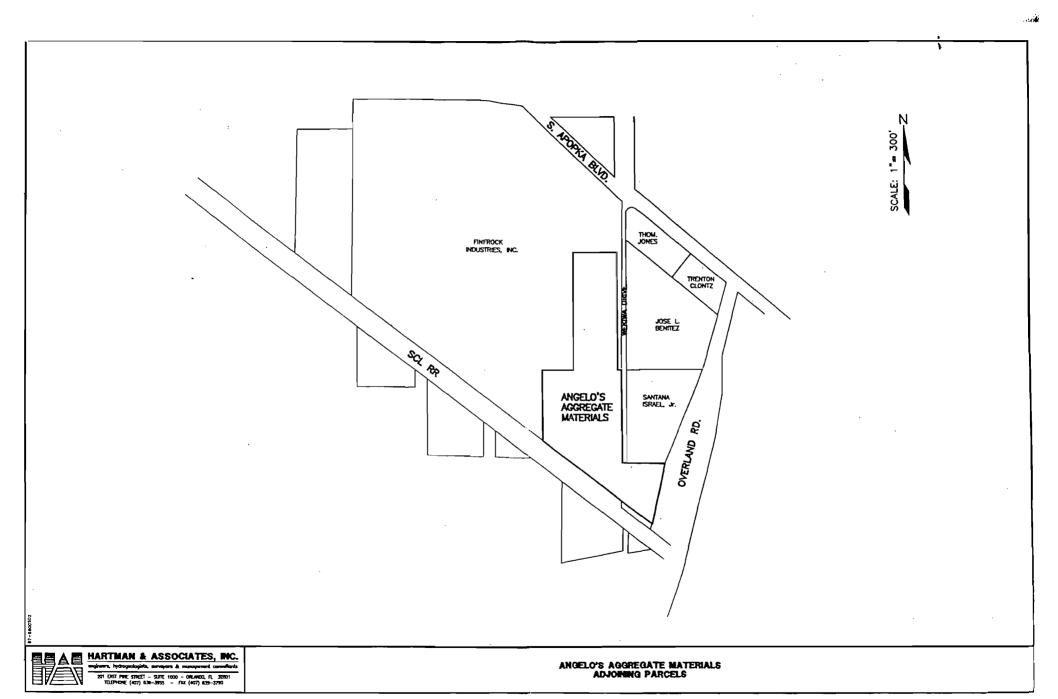
Additional Supplemental Requirements for Category I Applications Only

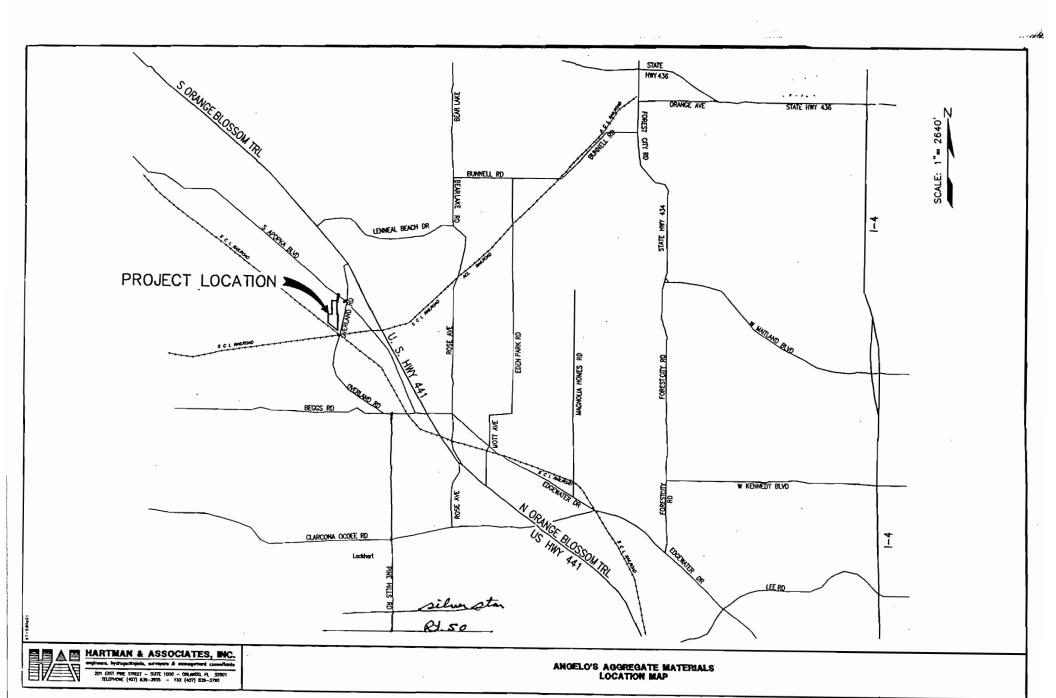
10. Alternative Methods of Operation
[] Attached, Document ID: [X] Not Applicable
·
11. Alternative Modes of Operation (Emissions Trading)
[] Attached, Document ID: [X] Not Applicable
12. Enhanced Monitoring Plan
[] Attached, Document ID: [X] Not Applicable
[1] Troubles, 200 minoria in [12] Troublespecies
13. Identification of Additional Applicable Requirements
[] Attached, Document ID: [X] Not Applicable
14. Acid Rain Application (Hard-copy Required)
[] Acid Pain Part Phase II (Form No. 62-210 000(1)(a))
[] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID:
Attached, Document ID
[] 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:
[] Detired Heir Franchisco (Franchisco (F
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:
[X] Not Applicable
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TABLE OF CONTENTS

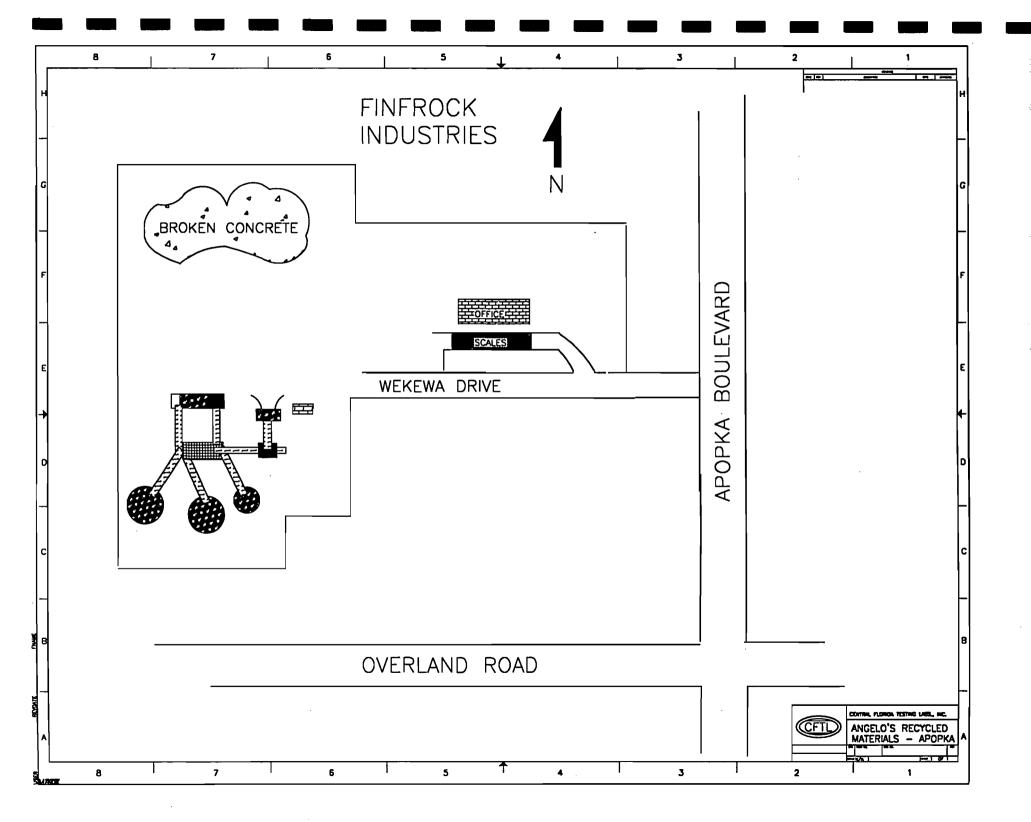
- I. FACILITY LOCATION
- II. SITE PLAN
- III. FLOW DIAGRAM
- IV. PRECAUTIONS TO PREVENT FUGITIVE EMISSIONS
- V. SUPPLEMENTAL INFORMATION
- VI. CONTROL EQUIPMENT
- VII. O&MPLAN
- VIII. TYPICAL FUEL ANALYSIS

FACILITY LOCATION I.





II. SITE PLAN



III. FLOW DIAGRAM

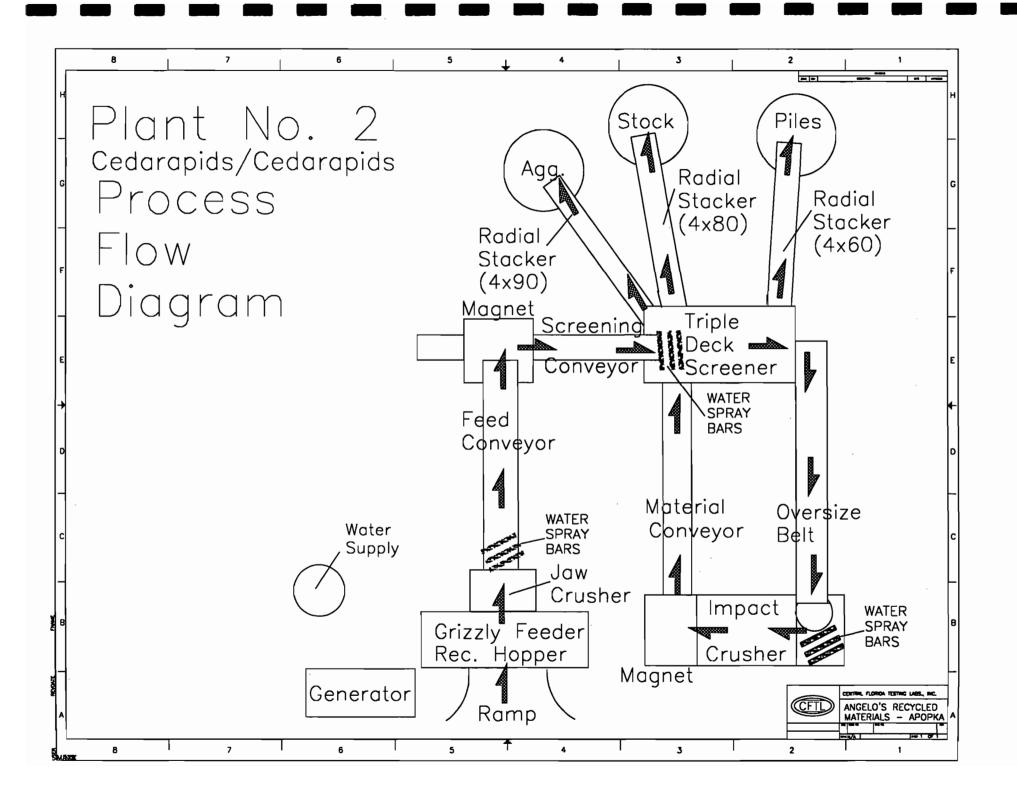
PROCESS DESCRIPTION

This project consists of a portable secondary crushing plant that will be utilized to recycle reclaimed concrete and asphalt material at various sites throughout the State of Florida, for use as demolition recycling, base material and fill by contracting companies and for sale to the general public.

The process begins with the transfer of reclaimed concrete and asphalt material that has been scalped or excavated from bridges, highways, parking lots, building demolition, etc. is brought to the temporary by dump truck and stockpiled for crushing or the crushing unit is brought to the site of demolition where material has been stockpiled for crushing. This stockpiled material, usually in chunk form ranging from one to twenty inches in diameter contains very little if any fine material and therefore is virtually dust free. This material is too large to reuse in it's reclaimed size, so it has to be screened and crushed to various practical aggregate sizes. The reclaimed concrete are transferred from their stockpiles by a front-end-loader into the vibrating grizzly feeder hopper. From this hopper the reclaimed material vibrates into the crusher where it is crushed to a desired size and drops onto the vibrating screener below the crusher. This crushed material is then transferred by conveyor belt to a metal extractor that removes any metal that may have been within the reclaimed material. After passing the metal extractor the material is then dropped to another conveyor belt where it travels to the screening system. Once the material reaches and drops onto the portable discharge system any over size material is transferred back to the secondary crusher by conveyor, then passes through the secondary crushing unit onto a material conveying belt where it travels back to the screening system, whereas the material that passes through several screens and is dropped onto a appropriate converyor/stacker belts that stockpiles the material for reuse at a later time.

The majority of fugitive dust created during this process is generated by the vibrating feeder hopper, crushers and at the drop point below the crusher. These emission points as well as all transfer and drop points throughout the plant will be controlled by a self-made water spray bar / spray head dust suppression system that employs spray bars and spray heads at the various emission points throughout the plant. Any fugitives generated by vehicular traffic, winds and airborne particulate from stockpiles will be controlled by the constant use of a water truck employed at this facility and at the different jobsites to keep the entire facility dampened, to control these emissions.

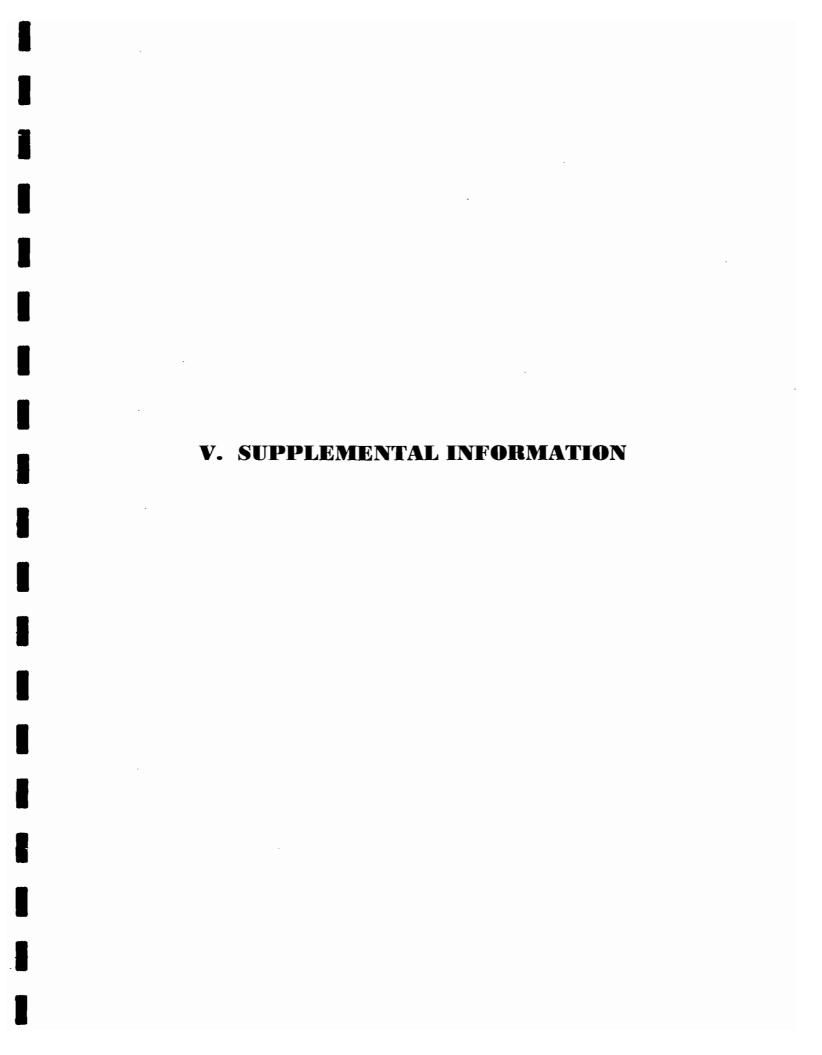
This facility will comply with all FDEP Rules and Regulations referencing portable crushing plants of this type.



IV. PRECAUTIONS TO PREVENT FUGITIVE EMISSIONS

FUGITIVE EMISSION CONTROL

Precautions to control and prevent fugitive emissions at this facility are accomplished in several different ways. Any stockpiles at this facility are kept damp by sprlinker systems and a water truck to control airborne emissions from prevailing winds. Fugitive emissions from vechicular traffic is controlled by dampening roadways with a water truck and posting and enforcing a 5 mph speed limit throughout the facility.



ANGELO'S RECYCLED MATERIALS, INC. - Plant No.2

Total Emissions Produced by Facility

	_	PM10	PM10	SOx	SOx	co	CO	NOx	NOx	TOC	тос
Point	Emission Point Name	lb/hr	ton/yr	lb/hr_	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr	lb/hr	ton/yr
001	Primary Jaw Crusher	0.12	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
002	Secondary Impact Crusher	0.12	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
003	Triple Deck Screener (7x 20')	0.42	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
004	Feed Conveyor (4 x 30')	0.10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
005	Screening Conveyor (4 x 60')	0.10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
006	Oversize Belt (4 x 60')	0.10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
007	Material Conveyor (4 x 65')	0.10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
008	Radial Stacker Belt (4 x 90')	0.10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
009	Radial Stacker Belt (4 x 80')	0.10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
010	Radial Stacker Belt (4 x 60')	0.10	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
011	Caterpillar 800kW Generator	1.28	2.00	1.20	1.87	3.93	6.14	18.26	28.49	1.49	2.32
012	Paved / Unpaved Roads	0.32	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
013	Stockpiles / Conveyor Drops	0.16	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
014	Feeder / Receiving Hopper	0.42	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	TOTALS:	3.54	5.49	1.20	1.87	3.93	6.14	18.26	28.49	1.49	2.32

The Orlando Sentinel

633 North Orange Avenue P.O. Box 2833 Orlando, Florida 32802-2833

November 12, 1997

Mr. Bob Coble

Angleo's Recycling Materials P. O. Box 280226 Tampa, Florida, 33682-0226

Dear Mr. Coble:

We wish to thank you for advertising with The Orlando Sentinel. Your advertisement appeared today, November 12, 1997.

We also wish to apologize any inconvenience that the delay in publishing your advertisement for "Public Notice to Issue Air Permits", due to miscommunication problems. We have spoken previously in order to have this advertisement published in a timely manner.

However, doe to unforseen circumstances, the advertisement was never ran on the publication date as previously indicated by you. We hope that this does not cause any inconvenience on your behalf.

Thank you very much for you patience and understanding. The original publish date for this _J was October 19, 1997.

Sincerely Yours,

Denise Little Legal Advertising Representative

cc: file

Affiant further says that the said Oriando Sentinel is a newspaper published in said newspaper in the issue; of LL/12/17 Affiant further says that the said Oriando Sentinel is a newspaper published at IRANGE ANGE County, Florida, in said ORANGE ANGE ANGE County, Florida, in said ORANGE ANGE County, Florida, in said ORANGE ANGE ANGE ANGE ANGE ANGE County, Florida, in said ORANGE ANGE ANGE ANGE ANGE County, Florida, in said ORANGE ANGE ANGE ANGE County, Florida, in said ORANGE ANGE ANGE ANGE County, Florida, in said ORANGE ANGE County, Florida, in said ORANGE ANGE County, Florida, in said ORANGE County, Florida, in said ORANGE County, Florida, In said ANGE ANGE County, Florida, In said ANGE ANGE Coun

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DEPARTMENT OF BUPPENMENTAL PROTECTION
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The applicant proposes to operate the facility in counter covered by this notice. The units self and lugitive personale matter and the gooducts of combustion from the classification. Air pollution control is discovered

Pollutest House Emissions
Particulate Matter PM/PH10 6.1 6.1
(Neropen Oxides (No.) 27.8 42.7
Carbon Monoxide (CO) 6.9 9.2

Compounds (VCC)

Because of the low emissions and limited time of operation at any one site, the cruster will set cause or contribute to any violation of an emission of the cruster and set of the contribute to any violation of the property of the contribute to any violation of the cruster of the contribute to any violation of the cruster of the crus

The Department will issue the FRAL Permits , in accordance with the conditions of the DRAFT Permits unless a response received in accordance with the following procedures results in a different dedision or stanticant charges of terms or conditions.

The Department will accept within comments concerning the proposed CHAFT Fermits issuance actions for a period of 14 (borbert) days from the date of publication of the fedors. When comments should be provided to the Department's Bursain of Ar-Pregulations, \$500 (but Source Hood, Mail Sustion 9500; Tushinases, Provide 2009-2000. Any refilten comments indicated the verificable for a public impaction. It settlem comments received revall in a significant change in these DHAFT permits may be a verificable for a public impaction of the property of the permits of the result in a significant change in these DHAFT permits and require, if applicable a mother Public Holos.

of the DANTERY was the true free FROM, remains when he commons of the DANTERY were true to Sections 120,569 and 120,57 F.S. Modition is not evaluable for this action. The procedures for petitioning for a hearing one set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may pession for an administrative hearing in accordance with Sections 120.559 and 120.57 FS. The pession must contain the information and forth below and must be fact from the Contained the information and forth below and must be fact from the Contained the Contained Section 120.57, Tele-Institute Contained Section 120.559 and 120.57, FS, or to Intervent in the person of the approach of the person 120.559 and 120.57, FS, or to Institute Institute Contained Section 120.559 and 120.57, FS, or to Institute Institute Contained Section 120.559 and 120.57, FS, or to Institute Institute Contained Section 120.559 and 120.57, FS, or to Institute Institute Contained Section 120.559 and 120.57, FS, or to Institute Institute Contained Section 120.559 and 120.57, FS, or to Institute Institute Contained Section 120.559 and 120.57, FS, or to Institute Institute Contained Section 120.559 and 120.57, FS, or to Institute Institute Contained Section 120.559 and 120.57, FS, or to Institute Institute Contained Section 120.559 and 120.57, FS, or to Institute Institute Contained Section 120.559 and 120.57, FS, or to Institute Instit

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A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dade County Department of Environmental Resources Mont 33 Southness 2nd Ave., Sulle St Merni, Florida 33130-1540 Telentrons: 305/3/7-6925

Division of Environmental Science and Engineering Palm Beach County Heath Unit 901 Evernia Street West Palm Beach, Florida 33401 Telephone: 561/355-3070

Dept. of Environmental Protection Northwest District 160 Government Center, Suite 305 Pensacota, Florida 32501-5794 Telenhone; 904-444-8300

Dept. of Environmental Protection Northeast District 7825 Beymaedows Way, Suite 200 Jacksonwille, Floride 32256 Telephone: 9044448-2000

Broward County Department of Natural Resource Protection 218 Southwest 1st Avenue Fort Lauderdale, Floris 33301 Telephone 9545 10, 1220

Air Quality Division
Pinelias County Department of
Environmental Management
300 South GArden Avenue
Cleanvater, Florida 34616
Telephone: 813/858.4422

Out. of Environmental Protect southwest District 3804 Coconut Patra Drive Tamps, Florida Telephone: 813-744-6100

Dept. of Environmental Protection Central District 3319 Maguire Bouleverd, Suite 23 Orlando, Florida 32803-3757 Telephone 407/894-3555

Hilsborough County Environment

1 Protection Commission 1410 North 21 Street Tamps, Florida 33605 Talephone: 813/2772-6500

Air and Water quality Division Regulatory and Environmental Services Department 421 West Church Street, Suite & Jacksonville, Florida 32202-411

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that he/s	the is the Legal Advertising Representative of The Orlando Sentinet, a daily per published at0 &LANDOin
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that the a	E. County, Florida: Milached copy of advertisement their 1977 70 202 - 661 DELLCE OF I
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	It further says that the said Orlando Sentinel is a newspaper published at
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ORAN	GE County, Florida, the said newspaper has heretofore been continuously published in
said_OR	ANGE County, Florida,
each We	ek Day and has been entered as second-class mail matter at the post
office in_	ORLANDO in said
ORAN	
for a pe	riod of one year next preceding the first publication of the attached
	advertisement; and affiant further says that he/she has neither paid
uor bio	mised any person, firm or corporation any discount, rebate,
commis	sion or refund for the purpose of securing this divertisement for ion in the said newspaper.
publicat	ion in the said newspaper.
	_ Novial Comment
The fore	going instrument was acknowledged before me this 12 day of
	November 19 97by Denise Little .
who is a	ersonally known to me and who did take an oath.
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Food emission of productine we estimated to be:
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 Because of the low emissions and limited time of operation at any one site, the crusher will not cause or contribute to any violation of an emblant air quality standard.
 The Department will issue the FRVAL Permits , in accordance with

The Department will issue the FINAL Permits, in accordance with the conditions of the DRAFT Permits unless a response received in accordance with the following procedures results in a different dediation or significant change of terms of conditions.

The Department will accord without comments concerning the parposed DFAFT Permits Issuence actions for a period of 14 flow years display from its season according to the Notice. Without comments should be provided to the Oppartment's Divisors of Al-Regulations, 2000 State Stone Road, Mail Station #5000, Tellansee, Florida 2029-3400. Any without comments delined be madvanishable for a public Impaction. If without comments received in that is a significant change in these DFAFT Permits, The Opparment shall issue REvised DFAFT Permits and require, if applicable confort Pacific Notice.

The Department will issue the FINAL Permits with the conditions of the DRAFT Permits unless a timely petition for an administrative hearing is fleed pursuant to Sections 120.569 and 120.57 F.S. Mediation is not available for this action. The procedures for patititioning

for a histering are set only block.

A person whose substantial interests are affected by the Department's persons on a substantial interests are affected by the Department's persons on the Section 12.0.56 and 12.0.37 between bearing the accordance with Sections 12.0.56 and 12.0.37 between 15.0.56 and 15.0.56 between 15.0.57 between 15.

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A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, second least holidays, at:

Dade County Department of Environmental Resources Migmit. 33 Southwest 2nd Ave., Suite 900 Mismit, Florida 33130-1540 Telephone: 305/372-8925

Division of Emvironmental Science and Engineering Patra Beach County Health Unit 901 Exemis Street West Patra Beach, Florida 33401 Telephoner, 651/555-3020

Dept. of Environmental Protection Northwest District 160 Government Center, Suite 308 Pensacolos, Florida 32501-5794 Telephone: 904-444-8300

Dept. of Environmental Protection : Northeast District 7825 Baymeedows Way, Suita 2008 Jacksonville, Florida 32256 Telephone: 904/448-4300

Broward County Department of Natural Resource Protection 218 Southwest 1st Avenue Fort Lauderdale, Floria 33301 Telephone: 954/519-1220

Air Quality Division Pinelius County Department of Environmental Management 300 South GArden Alvenue Cleanwater, Florida 34616 Telephone: 813468,4422

Dept. of Environmental Protection confluent District \$804 Coconut Palm Drive Temps, Florida Velephone, 813 744 6100

Dept. of Environmental Protection Central District 3319 Maguire Boulevard, Suite 23: Orlando, Florida 32803-3787 February 407 7014

Protection Commission 1410 North 21 Street

Ar and Water quality Division legistatory and Environmental Sensice Department 21 West Church Street, Suite 412 ecksonville, Floride 32202-4111 elephone: 904/630-3484

Dept. of Environmental Protection South Florida District 2295 Victoria Avenue, Suite 354 Fort Myers, Florida 33901 Telephone: 813/332-6975

Dept of Environmental Protection Southeast Division 400 North Congress Avenue West Palm Beach, Floride 33416-542

The complete project Sie includes the application technical evaluations, Draft Permits and the information submitted by the responsi-

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Published Daily \$ 692.00

State of Florida S.S.

Before the undersigned authority personally appeared Denise Little who on act has says that he/she is the Legal Advertising Representative of The Orlando Sentinet, a daily newspaper published at ORI ANDO In ORANGE County, Florida, that the attached copy of advertisement beings RUBI STATE OF In the matter of DRANT PRINT COUNTY, Florida, in the ORANGI was published in said newspaper in the issue; of LILIZ/97 County, Florida, and that the said newspaper has heretofore been continuously published in said ORANGE County, Florida, and that the said newspaper has heretofore been continuously published in said ORANGE and that the said newspaper has heretofore been continuously published in said ORANGE of a period of one year next preceding the first publication of the attached copy of advertisement; and afficient further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this divertisement for publication in the said newspaper.

The foregoing instrument was acknowledged before me this 12 day of November 19 97by Denise Little who is personally known to me and when did take an oath.

(SEAL)

DEPARTMENT OF ENVERONMENTAL PROTECTION DAYS TERRAIT WAS TYTOSE QUI S.A.

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Dade County Department of Environmental Resources Mgmt. 33 Southwest 2nd Ave., Suite 90 Mismil, Florida 33130-1540

Division of Environmental Science and Engineering Palm Beech County Health Unit 901 Eventa Street West Palm Beach, Florida 33401 Telephone 561 (855, 1970)

Dept. of Environmental Protection Northwest District 160 Government Center, Suite 305 Pentscots, Florida 32501-5794 Telechone: 904-444-8300

Dept. of Environmental Protection Northeast District 7625 Baymeedows Way, Suite 2006 Jacksonville, Florida 32256 Telentrone: 904/448-4300

Broward County Department of Natural Resource Protection 218 Southwest 1st Avenue Fort Laudersteile, Florts 33301 Telephone: 954519,1220

Air Quality Division Pinellas County Department of Environmental Management 300 South GArden Avenue Cleanuster, Florida 34516 Telephone: 813/464-4422

Dept. of Environmental Protects acutivest District 3604 Coconsid Palm Drive Tamps, Florkis Telephone: 813-744-6100

Dept. of Environmental Protection Central District 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767 Talenhone: 407/864-7555

Hillsborough County Environment

Protection Commission 1410 North 21 Street Tempa, Florida 33605 Telephone: 813/272-5530

Air and Water quality Division Regulatory and Environmental Sanioss Department 421 West Church Street, Suite 412 Jackson/Bur, Florida 32202-4111 Telephone: 904/530-3484

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The Orlando Sentinel
Published Daily \$ 692.00
State of Florida S.S.
COUNTY OF ORANGE
Before the undersigned authority personally appeared <u>Denise Little</u> , who on cath says
that he/she is the Legal Advertising Representative of The Orlando Sentinel, a daily newspaper published atORI_ANDO
ORANGE County, Fortda: that the attached copy of advertisement home 7/7/02/2-661 NOTICE OF I in the matter of DRAFT PERSON 11/1/19/20/20/20/20/20/20/20/20/20/20/20/20/20/
in the ORANGE Court
was published in said newspaper in the Issue; of
Affiant further says that the said Orlando Seminel is a newspaper published at ORI ANDO in said ORANGE County, Florida, and that the said newspaper has heretofore been continuously published in
each Week Day and has been entered as second-class mail matter at the post office in . ORL ANDO in said
ORANGE County, Florida,
for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this divertisement for
publication in the said newspaper.
The foregoing instrument was acknowledged before me this 12 day of November 19 92by Denise Little
November 19 3.00 Detile inclie
November 19 97by Denise Little who is personally known to me and who did take an oath.

DEPARTMENT OF ENPRONMENTAL PROTECTION
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Dade Courty Department of Environmental Resources Mont, 33 Southwest 2nd Ave., Suite 900 Marri, Florida 33130-1540 Valuntures 906,773-8925

Division of Environmental Science of Engineering Pain Beach County Health Unit 301 Everne Street West Pain Beach, Florida 33401 Telephone 651055-3020

Oupt, of Environmental Protection Northwest District 100 Government Center, Suile 30 Penescole, Floride 32501-5794 Telephone: 804-445-330

Dept. of Emergrandel Protection Northeest Digital 7825 Beymeadous Wey, Suite 200 Jecksonville, Floride 32256

Broward County Department of Natural Resource Protection 218 Southwest 1st Avenue Fort Lauderdele, Florie 33301 Telephone: 854/519-1220

 Air Quellty Division
 Prinstas County Department of Environmental Management, 300 South GArden Avenue Cleanwater, Florida 34616 Telephone: 813454-4472

Dept. of Environmental Protector southwest District 3804 Coconut Palm Drive Tamps, Florida Talenhone: 813-244-8100

Dept. of Environmental Protection Central District 3319 Maguine Boulevard, Suite 232 Orlando, Floride 82803-3767

Hillsborough County Environments

Protection Commission 1410 North 21 Street Tampa, Florida 33605

Air and Water quality Division Regulatory and Environmental Services Department 421 West Church Street, Suite Jacksonville, Florida 32202-411 Telephone: On Erro 1464

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marine Department summer action may be different from the position taken by it in this natice, of intent. Persons twhose substantial interests by the personal person
                              Dade County Department of
Environmental Resources
Mannia 33 Southwest 2nd Ave. 1
174 12 Suite 900 1
Micmil, Florida 33130-1540
Micmil, Florida 33130-1540
Telephone: 305/372-6725
                     Division of Environmental
Science and Engineering
Poim Beach County Health
Unit
901 Evernia Street
West Palm Beach, Florida
33401
Telephone: 561/355-3070
                                    Dept. of Environmental
Protection
Northwest District
160 Government Center,
Sufte 308
Persacola, Florida 22501-5794
Telephone: 904/444-8300
Popt. of Environmental
Northebst District
7825 Baymeadows Way,
Sufte 2008
Jacksonville, Florida 22256
Telephone: 904/448-4300
               Broward County Department

Broward Resource Protection

12 3301

County Department

13 Avenue

13301

Telephone: 954/519-1220
                     Air Quality Division
Pinelias, County Department
Pinelias, County Department
Pictor County Department
Soo South Garden Avenue
Clearwater, Florida 34616
                                                Dept. of Environmental Pro-
tection
Southwest District
3804 Coconut Polm Drive
Tampo, Florida
Telephone: $13/744-$100
                                                   Dept. of Environmental
Protection
Central District
3319 Maguire Boulevard,
Sulte 222
Orlanda, Florida 32803-3767
Telephone: 407/984-7555
                                                            Hillsborough County
Environmental
Protection Commission
1410 North 21 Street
Tampa, Florida 33605
Telephone: 813/272-5530
Air and Water quality Division
Regulatory and Environment
tal Services Department
421 West Church Street,
Suite 412
                                                                           Jacksonville, Florida
32202-4111
Telephone: 904/630-3484
                                                                                 Dept. of Environmental
Protection South Florida Dis-
trict
2295 Victoria Avenue,
Sulte 364
Fort Myers, Florida 33901
Telephone: $13/332-6975
                                                                                       Telephone: 813/332-6975

Dept. of Environmental Protection
Southeast District
400 North Congress Avenue
West Paim Beach, Florida
33416-5425
Telephone: 501/681-6600
The complete project file includes the application, technical conductions, Draff Permits, and the information, submitted by the responsible official, exclusive of confidential refundations and the information with the property of the conductions, Draff Permits, and the information, submitted by the responsible official, exclusive of confidential refundation of the information and the conduction of 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/485
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following information: (a) The name, address, and telephone number of each petitioner, the applicants name and address, the Permit File Numbers and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of the facts that the petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take with respect to the Department's action or proposed action addressed in this notice of intent.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:
Dade County Department of Environmental Resources

4

Mgmt.

33 Southwest 2nd Ave., Suite 900 Miami, Florida 33130-1540

Telephone: 305/372-6925

Division of Environmental Science and Engineering Palm Beach County Health Unit 901 Evernia Street

West Palm Beach, Plorida 33401

Telephone: 561/355-3070

Dept. of Environmental Protection Northwest District 160 Government Center, Suite 308 Pensacola, Florida 32501-

Pensacola, Florida 32501-5794 Telephone: 904/444-8300

Dept. of Environmental
Protection
Northeast District
7825 Baymeadows Way,
Suite 200B
Jacksonville, Florida 32256
Telephone: 904/448-4300

Broward County Department of Natural Resource Protection 218 Southwest 1st Avenue Fort Lauderdale, Florida 33301

Telephone: 954/519-1220

Air Quality Division Pinellas County Department of Environmental Management 300 South Garden Avenue Clearwater, Florida 34616 Telephone: 813/464-4422

Dept. of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida Telephone: 813/744-6100

Dept. of Environmental Protection Central District 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767

Telephone: 407/984-7555

Hillsborough County Environmental Protection Commission 1410 North 21 Street Tampa, Florida 33605 Telephone: 813/272-5530 Air and Water quality Division Regulatory and Environmental Services Department 421 West Church Street, Suite 412 Jacksonville, Florida 32202-4111 Telephone: 904/630-3484

Dept. of Environmental Protection South Florida District 2295 Victoria Avenue, Suite 364 Fort Myers, Florida 33901 Telephone: 813/332-6975

Dept. of Environmental Protection Southeast District 400 North Congress Avenue West Palm Beach, Florida 33416-5425 Telephone: 561/681-6600 The complete project file includes the application, technical evaluations, Draft Permits, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Resource Review Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-1344, or call 850/488-1344, for additional information 902810/29/97



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A Ad #50960
Exp @ 0:00 Runs
                 Last date Acct 208271
Name VIRONMENTAL
                    DEPARTMENT OF EN Business X Ph (904) 9225907
Address REGULATION
                                        Alt PH (904) 9225907
2600 BLAIR STONE ROAD
                                  SUITE 158
City TALLAHASSEE
                           State FL Zip 32399-2400
AD: Gvnb FAX - BOB C.
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PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DRAFT Permit Nos: 7770262-001-AC/7770262-005-AO Portable Concrete and Asphalt Material Crusher The Department of Environmental Protection (Department) gives notice of its intent to issue a modified air construction permit and the initial air operation permit to Angelo's Recycled Materials for a diesel engine powered portable concrete and asphalt material crusher that will be operated at construction and industrial sites throughout Florida. These units were originally permitted under the name of Frontier Recycling, Inc. The crusher is a minor source of air pollution and not subject to the Prevention of Significant Deterioration (PSD) regulations, Rule 62-212.400, F.A.C. A Best Available Control Technology de-

termination was not required for this facility. The applicant's name and address are: Angelo's Recycled Materials, P.O. Box 280226, Tampa, Florida 33682-0226.

The applicant proposes to operate the facility in counties covered by this notice. The units will emit fugitive particulate matter and the products of combustion from the diesel fuel. Air pollution control is accomplished by wetting as needed.

Total emissions of pollutants are estimated to be: Pollutant Hourly Emissions pounds per hour Annual Emissions tons per year Particulate Matter(PM/PM10) 5.1 8.0 Nitrogen Oxides (NOx) 27.3 42.7 Carbon Monoxide (CO) 5.9 9.2 Sulfur Dioxide (SO2) 1.8 2.8

Volatile Organic Compounds

(VOC) 2.2 3.5 Because of the low emissions and limited time operation at any one site, the crusher will not cause or contribute to any violation of an ambient air quality standard.

The Department will issue the FINAL Permits; in accordance with the conditions of the DRAFT Permits unless a response received in accordance with the following procedures results in a different decision or significant change

of terms or conditions. The Department will accept written comments concerning the proposed DRAFT Permits issuance actions for a period of 14 (fourteen) days from the date of publication of this Notice. Written comments should be provided to The Department's Bureau of Air Regulation, 2600 Blair Stone Road. Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a sig-

nificant change in these DRAFT Permits, the Department shall issue Revised DRAFT Permits and require, if applicable, another Public Notice.

The Department will issue the FINAL Permits with the conditions of the DRAFT Permits unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S. Mediation is not available for this action. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57 F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, telephone; 850/488-9370, fax 850/487-4938. Petitions must be flied within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative de-|termination (hearing) under |Sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-5.207 of the Florida Administrative Code.

A petition must contain the

3

THE TAMPA TRIBUNE Published Daily

Tampa, Hillsborough County, Florida

State of Florida }
County of Hillsborough } ss.

Before the undersigned authority personally appeared J. Rosenthal, who on oath says that she is Classified Billing
Manager of The Tampa Tribune, a daily newspaper published at Tampa in Hillsborough County, Florida; that the
attached copy of advertisement being a

LEGAL NOTICE CITRUS, SUMTER, HERNANDO, PASCO, PINELLAS, POL HILLSBOROUGH, MANATEE, HARDEE, HIGHLANDS, SARASOTA, DESOTO

in the matter of PUBLIC NOTICE OF INTENT

was published in said newspaper in the issues of OCTOBER 29, 1997

OPPICIAL NOTARY SEAL
SUSTEINE BLATON
COMMISSION NUMBER
COSSISTA
MY COMMISSION EXP.
PERO APRIL 16, 2001

Affiant further says that the said The Tampa Tribune is a newspaper published at Tampa in said Hillsborough County, Florida, and that the said newspaper has heretofore been continuously published in said Hillsborough County, Florida each day and has been entered as second class mail matter at the post office in Tampa, in said Hillsborough County, Florida for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, this advertisement for publication in the said newspaper.

Sworn to and subscribed before me, this

im to and substribed before me, this____

OCTOBER , A.D. 19

Personally Known ___ or Product Identification Type of Identification Produced___

(SEAL)

Ausie Lee Slaton

PUBLIC NOTICE OF MYTENT TO BSUE AR PERMIT STATE OF PLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DRAFT Permit Mee-

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Suffur Dioxide (SO2): 1.8 2.8
Volotile Organic Compounds
(VOC) 2.2 3.5
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to any violation of an emblent of quality standard. The Department will issue, the FRIAL Permiths in accordance with the conditions of the DRAFT Permits unless a response received in accordance with the following pro-

Codures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning with proposed DRAFT Permits issuance actions for a period of M fourteent done

Viction, 2600 Biole Stone Rood.
Medi Stotion et Stod. Telechansee, Fiorida 2209-260. Any/Owritten comments filled stone, Obe made excitable for public last
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DRAFT Permits, the Depart bament shell issue Revised IA
DRAFT Permits and requirer. SIDA
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The Department will leave SST
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Conditions of the DRAPT Per J1
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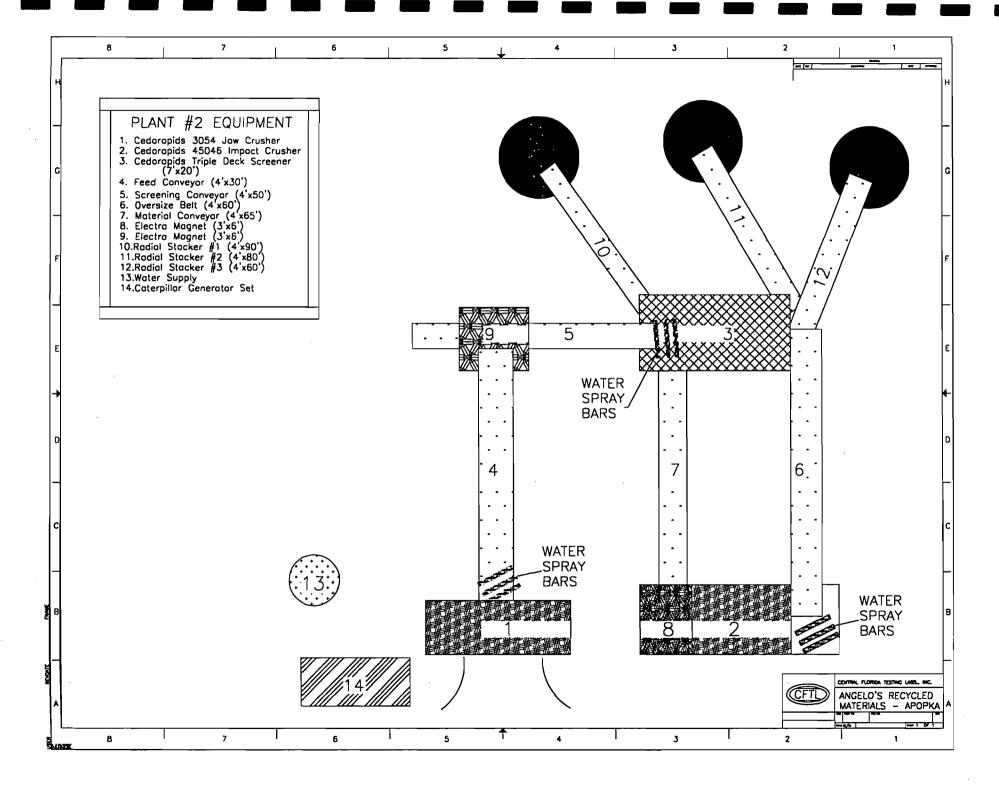
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request on administrative determination (hearing) under Sections 120.549 and 120.57 Sections 120.549 and 120.57 FS, or to intervent in this proceeding and participate as party to it. Any subsequent intervention will be only at the approved of the presiding officer upon the filing officer upon the filing offior compliance with Rule 22-15.207 of the Florida Adminish trative Code.

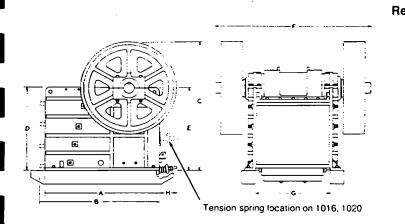
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ecomm	ended Op	enings at (Closed St	roke - incl	hes & (mm)
Size	Min.	Max.	Size	Min.	Max.
1016	¾ (19)	3½ (89)	2248	2½ (64)	6 (152)
1020	¾ (19)	3½ (89)	2436	2½ (64)	6 (152)
1024	.¾ (19)	3½ (89)	2438	4½ (114)	8 (203)
1036	1½ (38)	3½ (89)	2542	31⁄2 (89)	10 (254)
1236	1½ (38)	5 (127)	2742	3½ (89)	10 (254)
1242	1½ (38)	5 (127)	3042	4 (102)	13 (330)
1248	1½ (38)	5 (127)	3054	3½ (89)	13 (330)
1524	1½ (38)	5 (127)	3242	4 (102)	13 (330)
1636	1½ (38)	5 (127)	3648	4 (102)	13 (330)
1642	1½ (38)	5 (127)	3660	4 (102)	13 (330)
1648	1½ (38)	5 (127)	4242	14 (356)	23 (584)
1824	1½ (38)	5 (127)	4248	4 (102)	13 (330)
1836	11/2 (38)	5 (127)	5460	6 (152)	20 (508)
2236	2½ (64)	6 (152)	5748	19 (483)	28 (711)

Dimensi	ion to th	e neares	st inch &	5mm										
Model	1016	1020	1024	1036	1236	1242	1248	1524	1636	1642	1648	1824	1836	2236
A	40 1015	48 1220	45 1145	48 1220	48 1220	56 1420	59 1500	55 1395	61 1550	71 1800	· 6 6 1675	56 1420	64 1625	65 1650
В	-	_	_	_	- -	-	-	_	- .	73 1855	<u> </u>	_	-	-
С	41 1040	46 1170	46 1170	46 1170	51 1295	55 1395	56 1420	57 1445	63 1600	76 1930	70 1780	57 1445	ස 1600	77 1955
D	24 610	28 710	28 710	28 710	32 810	33 840	3 5 890	36 915	41 1040	4 6 1170	41 1040	3 6 915	41 1040	48 1220
E	26 660	28 710	28 710	28 710	33 840	34 865	3 5 890	39 990	42 1065	48 1220	42 1065	39 990	42 1065	49 1245
F	58 1470	72 1830	72 1830	81 2055	81 2055	98 2490	104 2640	67 1700	92 2335	99 2515	94 2385	77 1955	92 2335	92 2335
G	<i>2</i> 2 560	26 660	27 685	41 1040	41 1040	47 1195	53 1345	27 685	41 1040	47 1195	53 1345	27 685	41 1040	43 1090
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Model	2248	2436	2438	2542	2742	3042	3054	3242	3648	3660	4242	4248	5748	5460
Model A							3054 88 2235		3648 107 2715	3660 118 2995	4242 103 2615	4248 123 3125	5748 138 3505	5460 149 3785
	2248 79	2436 88	2438 67	2542 82	2742 88	3042 88	88	3242 93	107	118	103	123	138	149
A	2248 79 2005	2436 88 2235 91	2438 67 1700	2542 82 2080 85	2742 88 2235 88	3042 88 2235 91	88 2235 91	3242 93 2360	107 2715 113	118 2995 	103 2615 109	123 3125 126	138 3505 141	149 3785
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B C	2248 79 2005 81 2055 83 2110	2436 88 2235 91 2310 89 2260 61	2438 67 1700 - - 77 1955	2542 82 2080 85 2160 93 2360	2742 88 2235 88 2235 92 2337 62	3042 88 2235 91 2311 92 2337 62	88 2235 91 2311 92 2337	93 2360 99 2515 105 2665	107 2715 113 2870 120 3050 82	118 2995 - - 125 3175	103 2615 109 2770 105 2665	123 3125 126 3200 137 3480	138 3505 141 3580 137 3480	149 3785 152 3860 172 4370
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Halbrardis <u>Ew Bus</u>har

Cedarapids Inc • 916 Sixteenth St NE • Cedar Rapids IA 52402 USA • Telephone 319 363 3511 • Fax 319 399 4871

Standard Features

Fabricated, stress-relieved welded steel base

Rib-reinforced side plates

Close-tolerance machining of jaw plate backs and seating surfaces

Reversible key plates through model 2438

Drop-forged, heat-treated, chrome-nickel-steel overhead eccentric shaft

Spherical self-aligning roller bearings

Hydraulic bearing removal for 3648 side bearing, models 4248

& 5460 side and pitman bearings

Cast steel pitman

Hydraulic/shim toggle seat adjustment (discharge opening) except wedge adjustment on 1016 and 1020

One smooth and one grooved flywheel

Split-hub flywheels

Standard left-hand drive (face tension spring)

Options

V-belt drives

Grooving second flywheel

Circulating oil lubrication system with reservoir and low-oil alarm for 1836 and above

Steel skid for crusher and motor for 2236 and above

Motor platform for 2236 and above

Operator's platform, ladder and crusher hopper for 2236 and above

Stationary grizzly with bypass chute for 2236 and above Undercrusher discharge chute to belt conveyor, end or side discharge, for 2236 and above

Dimensions t	o nearest	inch & r	mm - wei	ights (kg))		•							
Model	1016	1020	1024	1036	1236	1242	1248	1524	1636	1642	1648	1824	1836	2236
Weights	5306	7 00 0	8255	12,551	13,978	.19,936	24,300	12,305	21,003	33,998	28,406	12,426	21,280	24.903
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Ю	20-30	25-40	40-50	55-70	60-75	70-100	80-120	40-60	60-90	100-130	100-150	40-60	60-90	90-125
RPM	300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300
Jaw	10x16	10x20	10x24	10x36	12x36	12x42	12x48	15x24	16x36	16x42	16x48	18x24	18x36	22x36
Opening	255x405	255x510	255x610	255x915	305x915	305x1065	305x1220	380x610	405x915	405x1065	405x1220	455x610	455x915	560x915
Shaft Dia.	3.937	4.4375	4.4375	5.4375	5.9375	6.4375	6.4375	4.921	6.4375	8.6603	7.091	4.921	6.4375	6. 43 75
Side Bearing	85	113	113	138	151	164	164	125	164	220	180	125	164	164
Shaft Dia.	5.120	5.907	5.907	7.4821	7.8764	7.875	7.875	6.694	7.875	10.2383	8.664	6.694	7.875	7.875
Pitman Bearing	130	150	150	190	200	200	200	170	200	260	220	170	200	200
Std. Grooved	30	36	36	36	36	42	42	36	42	55	42	36	42	55
Flywheel Dia.	760	915	915	915	915	1065	1065	915	1065	1395	1065	915	1065	1395
Face Std.	7	11	11	11	11	12	12	11	12	13	12	11	12	13
Flywheel	175	280	280	280	280	305	305	280	305	330	305	280	305	330
Stationary	20	22	21	24	28	29	29	34	34	38	34	33	34	43
Jaw Length	510	560	535	610	710	735	735	865	865	965	865	840	865	1090
Movable	26	27	27	27	31	33	34	40	41	45	41	40	41	50
Jaw Length	660	685	685	685	785	840	865	1015	1040	1145	1040	1015	1040	1270
Model	. 2248	2436	2438	2542	2742	3042	3054	3242	3648	3660	4242	4248	5748	5460
Weights	43,094	46,737	26,017	42,095	48,520	48,520	52,740	57,137	79.653	107,664	58.838	104,567	117,000	196,258
	19547	21200	11801	19366	22008	22008	28269	25917	36131	48836	26689	47431	53071	89023
Ю	127-175	125-150	90-125	125-175	125-175	125-175	125-175	150-200	200-250	250-300	150-200	250-300	250-300	350-450
RPM	225 -275	225-275	250-300	225-275	225 -275	225-275	225-275	225-275	200-250	210-235	225-275	200-225	200-225	200
Jaw	22x48	24x36	24x38	25x42	27x42	30x42	30x54	32x42	36x48	36x60	42x42	42x48	57x48	54x60
Opening	560x1220	610x915	610x965	625x1065	685x1065	760x1065	760x1372	810x1065	915x1220	915x1524	1065x1065	1065x1220	1445x1220	1372x152
Shaft Dia.	836603	8.6603	6.4375	7.091	8.6603	8.6603	8.6603	8.6603	10.375	14.000	8.6603	14.000	14,000	18.000
Side Bearing	220	220	164	180	220	220	220	220	264	356	220	356	356	457
Shaft Dia.	10.2383	10.2383	7.875	8.6645	10.2383	10.2383	10.2383	10.2383	11.815	15.570	10.2383	15.750	15.750	19.687
Pitman Bearing	260	260	200	220	260	260	260	260	300	400	260	400	400	500
Std. Grooved	57	57	55	57	57	57	57	57	72	72	57	72	72	84
Flywheel Dia.	1445	1445	1395	1445	1445	1445	1445	1445	1830	1830	1445	1830	1830	2134
Face Std.	18	15	13	15	15	18	18	18	13	13	18	13	13	20
Flywheel	4 55	380	330	380	380	455	455	455	330	330	455	330	330	510
Stationary	45	53	43	57	57	57	57	68	77	77	68	90	90	113
Jaw Length	1145	1345	1090	1445	1445	1445	1445	1725	1956	1956	1725	2285	2285	2870
Movable	- 56	- 65	50	63	66	65	65	75	85	86	75	98	98	129

Design and specifications subject to change without notice. Design features may be covered by patents issued and/or patents applied for.

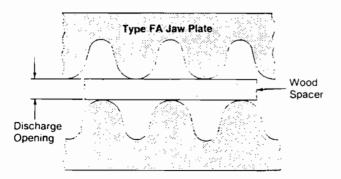


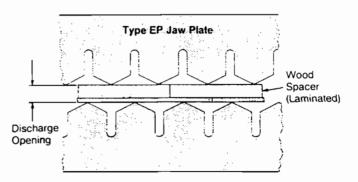
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Jaw Crusher Capacity in tons and (metric tons)

Jaw Size in. & (cm.) Size Opening Closed Stroke	10 × 16 (25 × 41)	10 × 20 (25 × 50)	10 × 24 (25 × 61)	15 × 24 (38 × 61) 18 × 24 (46 × 61)	10 x 36 (25 x 91) 12 x 36 (30 x 91) 16 x 36 (41 x 91) 18 x 36 (46 x 91)	22 × 36 (56 × 91) 24 × 36 (61 × 91)	24 × 38 (61 × 97)	12 × 42 (30 × 107)	(12 × 48) (30 × 122) 16 × 48 (41 × 122) 22 × 48 (59 × 122)	25 × 42 (61 × 107) 64 × 42 (69 × 107)	32 × 42	42 × 48 (107 × 122) 57 × 48 (148 × 122) 36 × 48 (91 × 122)	30 × 54	36 × 60 (91 × 152) 54 × 60 (137 × 152)
¥4~	10-20	1 0-2 5	15-25											
19mm	(9-18)	(9-23)	(14-23)											
1-	15-25	20-30	25-35											
25.4mm	(14-23)	(18-27)	(23-32)											
11/2	25-35	25-45	35-50	35-50	55-75			60-90	70-100					
38.1mm	(23-32)	(23-41)	(32-45)	(32-45)	(36-68)			(54-81)	(63-90)					
2-	30-45	40-55	50-70	50-70	70-100			85 -115	115-130					
50.8mm	(27-41)	(36-50)	(45-63)	(45-63)	(63-90)			(77-100)	(104-117)					
2'h-	40-55	50-70	60-85	60-85	95-125	95-125		105-145	125-165					
63.5mm	(36-50)	(45-63)	(54-77)	(54-77)	(86-113)	(86-113)		(95-131)	(113-149)					
3-	50-70	60-85	70-100	70-100	110-150	110-150		125-175	150-200					
76.2mm	(45-63)	(54-77)	(63-90)	(63-90)	(99-135)	(99-135)		(113-158)	(135-180)					
31h-	60-80	70-100	85-115	85-115	125-175	125-175		155-205	180-230	155-205				
88.9mm	(54-72)	(63-90)	(77-104)	(77-104)	(113-158)	(113-158)		(140-185)	(162-207)	(140-185)				
4-				100-130	150-200	150-200		175-225	210-260	175-225	175-225	210-260	235-285	265-315
101.6mm				(90-117)	(135-180)	(135-180)		(158-203)	(189-234)	(158-203)	(158-203)	(189-234)	(212-257)	(239-284)
4'h-				110-150	170-220	170-220	180-230	200-260	230-290	200-260	200-260	230-290	260-320	295-355
114.3mm				(99-135)	(153-198)	(153-198)	(162-207)	(180-234)	(207-261)	(180-234)	(180-234)	(207-261)	(234-288)	(266-320)
5-				120-170	190-250	190-250	200-260	225-285	260-320	225-285	225-285	260-320	295-355	335-395
127.0mm				(108-153)	(171-225)	(171-225)	(180-234)	(203-257)	(234-288)	(203-257)	(203-257)	(234-288)	(266-320)	(302-356)
6-						230-300	240-320		310-390	260-340	260-340	310-390	355-435	400-480
152.4mm						(207-270)	(216-288)		(279-351)	(234-306)	(234-306)	(279-351)	(320-392)	(360-432)
7-							285-365			320-400	320-400	370-450	420-500	470-550
177.8mm							(257-329)			(288-360)	(288-360)	(333-405)	(378-450)	(423-495)
8-							320-420			350-450	350-450	415-515	475-575	530-630
203.2mm							(288-378)			(315-405)	(315-405)	(374-464)	(428-518)	(477-567)
10-							,			460-560	460-560	530-630	605-705	680-780
254mm										(414-504)	(414-504)	(477-567)	(545-635)	(612-702)
12 ⁻										· · · · · · · · · · · · · · · · · · ·	560-660	650-750	740-840	830-930
304.8mm								-		_	(504-594)	(585-675)	(666-756)	(747-837)

All capacities are based on 100 lbs. per cu. ft. (1602 kg/m³) weight of rock. Tonnage may vary depending on particle size of feed, rate of feed, proper operating conditions, breaking characteristics and compressing strength of rock. Type of jaw faces and horsepower used can also affect capacity.





To set FA, EP, or E style jaws, use a piece of wood cut to correct size and set between jaws as shown.

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Jaw Crusher

Features

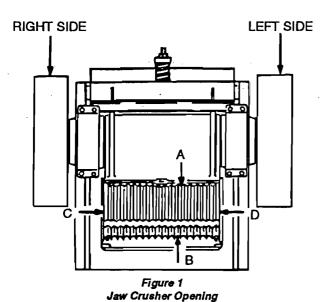
- Submerged arc welded all-steel base (thermally stress relieved in oven at 1400°F).
- Side bearings directly over side plates.
- Independent side bearing housings.
- Minimum bearing center distance to eliminate flexing.
- Spherical, self-aligning roller bearings to handle side thrush.
- Positive, maintenance-free labyrinth seals to keep out dust.
- Oil/grease lubrication large sizes for more positive lubrication.
- Drop forged, heat treated 4340 chrome-nickel-steel alloy shafts.
- Massive, large diameter split hub flywheels (most sizes) to maintain inertia and remove easily.
- Cast steel pitman with machined surfaces for highest strength.
- Several Manganese jaw plate choices.
- Steep toggle plate for aggressive crushing action.
- Hydraulic-shim adjustment.
- Two convertible rip-rap crushers (4242-3242 & 5748-4248).
- Widest range of crusher sizes (26 total).
- Optional hydraulic toggle for quick adjustment and high pressure relief.

Jaw Crusher Calculated Weights

	•						
Model	Complete Total	Complete Pitman Assembly	Flywheel Only (Each)				
1016	5,306	2,844	690				
1024	8,255	4,817	1,275				
1036	12,551	7,449	1,223				
1236	13,978	8,007	1,250				
1242	19,521	12,120	2,098				
1248	24,300	14,374	2,175				
1524	12,305	6,771	1,215				
1636	21,003	11,895	2,075				
1642	33,998	19,642	2,741				
1648	32,406	16,988	2,684				
1824	12,426	6,771	1,215				
1836	21,280	12,105	2,126				
2236	24,903	14,266	2,785				
2248	43,094	25,746	3,700				
2436	46,737	22,861	3,462				
2438	42,695	21,832	3,509				
2540	45,000	18,950	4,200				
2542	42,095	21,832	3,584				
2742	45,992	24,416	3,675				
3042	48,520	25,842	4,194				
3054	52,740	27,525	4,194				
3242	57,137	28,755	4,028				
3648	79,653	39,524	5,560				
3660	107,664	58,478	5,595				
4242	58,838	28,755	4,028				
4248	104,567	52,827	5,595				
5460	196,258	102,715	10,570				
5748	117,000	52,827	5,595				

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Service Technical Information



Right & Left Side

Right and left side of crusher are determined when standing facing the tension springs. (Figure 1)

Table 1
Recommended Openings at Closed Stroke (Inches & mm)

Size	Min	mum	Maxi	RPM	
Size	Inches	mm	Inches	mm	Range
1016	3/4	19	3-1/2	89	250-300
1020	3/4	19	3-1/2	89	250-300
1024	3/4	19	3-1/2	:89	250-300
1036	1-1/2	38	3-1/2	89	250-300
1236	1-1/2	38	5	127	250-300
1242	1-1/2	38	5	127	250-300
1248	1-1/2	38	5	127	250-300
1524	1-1/2	38	5	127	250-300
1636	1-1/2	38	5	127	250-300
1648	1-1/2	38	5	127	250-300
1824	1-1/2	38	5	127	250-300
1836	1-1/2	38	5	127	250-300
2236	2-1/2	64	6	152	250-300
2248	2-1/2	64	6	152	225-275
2436	2-1/2	64	6	152	225-275
2438	4-1/2	114	8	203	250-300
2442	3-1/2	:89	10	254	225-275
2742	3-1/2	89	10	254	225-275
3042	4	102	13	330	225-275
3054	4	102	13	330	225-275
3242	4	102	13	330	225-275
3648	4	102	13	330	200-250
4242	14	355	23	584	225-275
4248	4	102	13	330	200-225
5460	6	152	20	508	200
5748	19	483	28	711	200-225

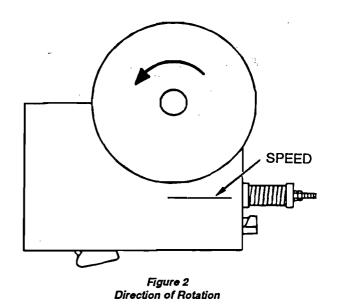


Table 2
"All Grease" Lubrication Capacities (Lbs. Required)

Crusher Size	Each Side Bearing	Pitman Bearings	
1016	.2	4	
1020	2	√ 5	
1024	2	.8	
1036	2	14	
1236	, 2	18	
1524, 1824	3	8	
1536, 1636, 1836	6	2 5	
2236	4	23	
1242	4	27	
1248	4	32	
2540, 2442	7	33	
2436	12	29	
1646	9	38	
2640, 3040, 1642	10	48	
3042, 3242 4242, 3054	10	48	
2248	. 8	55	
2742	10	47	
3648	12	64	
4248, 5748	9	51	
5460	31	153	

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Pitman Assembly Procedure

All pitman and side bearing end cap bolts are to be of the self-locking type and Loctite #271 is also to be applied. Then tighten bolts to correct torque.

All seals with grooved lands should be packed with proper grease when assembling. After assembly, purge seal on grease lubricated unit. Remove grease fitting for seals and install plugs.

Removing Clearance from Straight Bore Pitman Bearings:

Be sure no more than 50% of the unmounted clearance is removed after the bearings have cooled and shrunk in place on the shaft.

Removing Clearance from Tapered Side Bearings:

Remove between 40% and 50% of the unmounted clearance, no more.

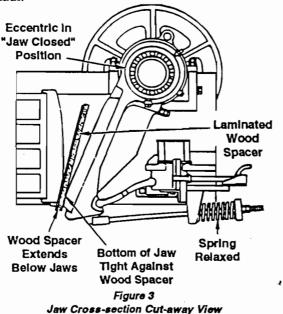
Example: Unmounted (bench) clearance = .010. 40% = .010 x (.4) = .004; 50% = .010 x (.5) = .005. .010 minus .004 = .007; .010 minus .005 = .005

Record all unmounted and mounted clearances for future reference.

Jaw Crusher Lubrication

Proper lubrication for jaw crusher should follow guidelines established in our current Cedarapids 010 Operation Manual until notified differently by Engineering.

Be sure to add 20% grease just like new unit is an overhaul.

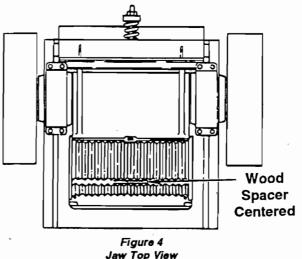


Setting Discharge Opening

General Information

To set the discharge opening between jaws to obtain the desired product size range:

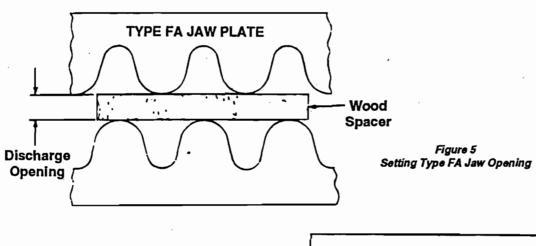
- 1) When the crushing chamber is completely empty, stop the crusher drive and lock out the power source so no unexpected movement of the flywheel can occur.
- 2) Loosen nuts that hold base toggle seat.
- 3) Loosen tension spring nuts so shim pack can be adjusted.
- 4) Make a wooden spacer similar to Figure 7, to the exact thickness of the correct discharge opening. When lumber of proper width or thickness is not available, make up a lamination, including plywood, hard fibre board, or metal to obtain the correct thickness. Spacer must be wide enough to bridge between several jaw plate tips shown in Figures 5 & 6. This is especially important when setting the specified minimum discharge opening!
- 5) Turn the flywheel so that eccentric shaft closes the jaws as much as possible.
- Hold the wooden spacer so that it is centered in the crushing chamber and extends below jaws. (Figures 3 & 4)
- 7) Force the bottom of the movable jaw tight against the wood spacer. Adjust shim packs uniformly to fix toggle seat in that position. (On some models this is done with a mechanical linkage)
- 8) Tighten nuts with hold base toggle seat.
- Tighten tension spring nuts to restore holding force on toggle plate.

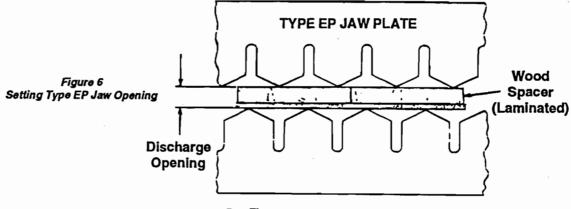


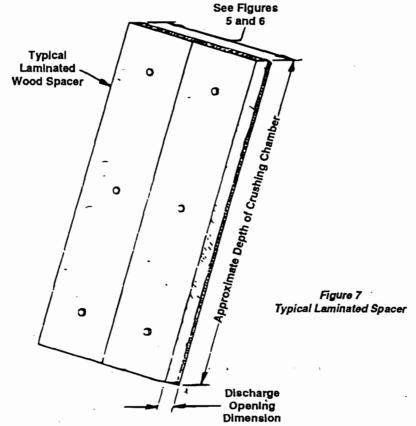
Jaw Top View

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General Information







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Jaw Crusher Adjustment Procedure



Caution! Never adjust crusher when it is being operated.

- 1) Loosen tension rods and spring assembly.
- 2) Loosen adjustable toggle plate seat wedges.
- 3) Install hydraulic ram(s) and pump.
- Using a piece of wood the thickness of the desired opening hanging down to the bottom of the crushing chamber.
- 5) Pump the hydraulic rams to move the pitman toward the stationary jaw till block of wood is tight against both jaw plates.
- 6) Remove or install as required the necessary shims behind the adjustable toggle plate seals.

NOTE: Be sure shims are equal on both sides.

- Release the hydraulic pressure this will allow the pitman to retract forcing the shims tight against the base.
- 8) Retension the tension springs equally to insure the pitman, toggle plate and adjustable seat are all tight, one against the other.
- 9) Retension the adjustable toggle plate seat wedges.

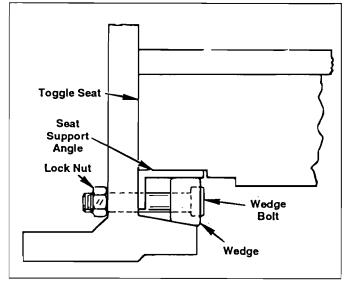


Figure 8
End View of Toggle Seat Wedge Assembly

Jaw Plates Installation

General Information

Base Stationary Jaw Plates & Key Plates

- 1) Stationary jaw machined surface must be checked for flatness both crosswise and top to bottom. In general, it should be within 1/16", however, it will vary with each size crusher. Key plates should be checked in the same manner.
- Stationary jaw must be centered in base and must be held tight against the bottom end of the base while in this position.
- 3) Lower key plates are installed and then a ¾" or 1" spacer bar is set on top of the lower key plate and the upper key plate is installed.
- 4) Using a minimum of 16 lb. sledge hammer, you drive on the upper key plate forcing the lower key plate down tight in place.
- 5) A properly fitting key plate will have a minimum of 70% contact between the base guide and the ear of the jaw plate. The bolts which hold the key plates in the base should be halfway between the upper ¾ of the slotted hole in the base. At no time should the bolts contact either end of the base hole.
- 6) After the lower key plates are in position, remove the spacer and drive the upper key plates into position following the guidelines for contact and bolt locations in Step 5. All bolts should be torqued for proper tension. Refer to standard bolt torque chart and follow (lube) recommendation.

NOTE: It may require grinding of key plates to properly fit as described above.

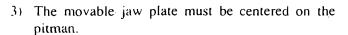
- 7) With steps five and six completed, install the required shims under the upper lip of the jaw plate and base and weld the shim to the base. Refer to Print No. 3645-049-01.
- 8) After operating crusher for eight hours, recheck bolt tension. Retension bolts as required until they remain tight.

Pitman Plate & Jaw Wedge

- 1) Movable jaw machined surface must be checked for flatness crosswise and top to bottom in general. It must be with 1/16", however, it will vary with each size crusher.
- 2) The pitman lip must be smooth for the jaw plate to fit evenly and tight against the lip.

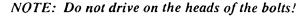
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General Information



NOTE: This may require trimming pitman sides or ears.

- 4) Install the pitman jaw wedge. Be sure it does not extend beyond the end of the pitman, restricting the pitman side float.
- 5) Install the keeper bolts to hold the wedge in place and their lock nuts and washer.
- 6) Using a minimum 16 lb. sledge hammer, you must drive on the face of the wedge starting in the center and working toward both ends to seat the wedge. While driving on wedge, a person is to be tightening the bolts and nuts in the same area.



All bolts should be torqued for proper tension. Refer to standard bolt torque chart and follow (lube) recommendation.

7) After operating crusher for eight hours, recheck bolt tension. Retension both as required until they remain tight.

NOTE: The wedge should never bottom out against the pitman nor should the top of the wedge be in further than the pitman barrel. In either case, add a shim to top of wedge same width and length as wedge to correct.



Figure 9 Proper Use of Lifting Loop on Jaw Plate



Caution! When welding mild steel lifting loops to Manganese jaw plates or key plates. American Welding Society standards are to be followed as summarized:

- Stainless 310 rod 5/32 diameter. A number of passes should be used rather than one large pass.
- No preheating or after welding heating to be done.
- Follow all safety precautions whenever lifting items.

Shim Locations

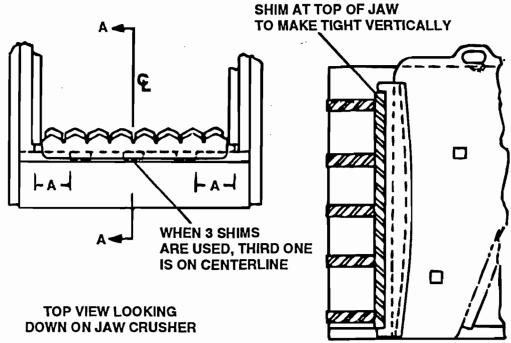


Figure 10 Top View of Jaw Crusher for Shim Location

Size	A	Shim Places	Shim Group
1016	3'	2	<u>. </u>
1020	3,	2	1
1024	5*	2	1
1524	5*	2	. 1 .
1824	5'	2	. 1
1036	5"	3	1
1236	5"	3	
1536	5°	3	- 1
1636	5'	3	
1836	5"	3	1
2236	5'	3	11
2436	5'	3	11
2442	5*	3	11
2742	5'	3	H
3046	5	3	<u> </u>
1242	5"	3	ı
3042	5'	3	II
3242	9,	2	III
4242	9,	2	III
3645	5*	3	Ш
1648	7'	3	1
2248	7*	3	11
4248	5'	3	111
1248	7*	3	1
2438	5'	3	- 11
1642	5'	3	Ħ
5460	7°	3	IV
3054	6'	3	IV
3660	7'	3	. 17

Part #	Description					
Shim Group I						
41306-001	1/4" FL x 2-1/2" x 1" LG					
41314-001	5/16' FL x 2-1/2' x 1' LG					
41321-001	3/8" FL x 2-1/2" x 1" LG					
41335-001	1/2" FL x 2-1/2" x 1" LG					
Shim Group II						
41306-002	1/4" FL x 2-1/2" x 2" LG					
41314-002	5/16" FL x 2-1/2" x 2" LG					
41321-002	3/8" FL x 2-1/2" x 2" LG					
41335-002	1/2" FL x 2-1/2" x 2" LG					
"Shim Group III						
41307-004	1/4" FL x 3" x 4" LG					
41315-004	5/16' FL x 3' x 4' LG					
41322-004	3/8" FL x 3" x 4" LG					
41336-004	1/2" FL x 3" x 4" LG					
Shim Group IV	· · · · · · · · · · · · · · · · · · ·					
41307-006	1/4" FL x 3" x 6" LG					
41315-006	5/16" FL x 3" x 6" LG					
41322-006	3/8" FL x 3" x 6" LG					
41336-006	1/2' FL x 3' x 6' LG					

Jaw Crusher Toggle Plate Changing Procedure



Caution! Never adjust toggle plate setting when crusher is being operated.

- 1) Install chain through the center hold of the toggle plate and feed it up between the pitman and the base.
- 2) Connect chain to come-along and snug up chain just so it doesn't fall back down.
- 3) Loosen the tension rod and spring assembly.
- 4) Loosen adjustable toggle plate seat wedges.
- 5) Install hydraulic rams and pump assembly.
- 6) Pump rams to push seat forward far enough to remove shims.
- 7) Release hydraulic pressure this will allow the pitman to push the seat back.
- Remove hydraulic ram(s) and relocate upper position in order to push the pitman end toward the stationary iaw.
- 9) Pump ram(s) far enough so the toggle plate drops free of the pitman.
- 10) For safety, put hard block of wood between pitman and base.
- 11) Lower the toggle plate down to the tension rods.
- 12) Lower tension rods down on to the conveyor and remove springs.
- 13) Let the toggle plate all the way down on to tension rods.
- 14) Pull plate out from under the crusher. To install new toggle plate, slight the new plate under the crusher on the tension rod.
- 15) Feed the chain backup between pitman and base and hood chain on to the come-along.
- 16) Raise the toggle plate up into the adjustable seat.
- 17) Remove the wooden block between pitman and base.
- 18) Slowly release hydraulic pressure to let pitman come back and adjust come-along as required to line toggle plate up with pitman seat.

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Changing Toggle Plate

- Remove ram(s) from upper position and reinstall in position to adjust crusher setting.
- 20) Raise the tension rods up in to position and install the springs and snug up assembly.
- 21) Use block of wood for desired setting of crusher and hang it down to bottom of crushing chamber.
- 22) Adjust crusher until the block of wood is tight between the pitman jaw and stationary jaw.
- 23) Install required equal amount of shims on both sides.
- 24) Release hydraulic pressure on rams. This will allow the pitman to retract forcing the shims tight against the base.
- 25) Retension the tension springs equally to insure the pitman, toggle plate and adjustable seat are all tight one against the other.
- 26) Retension the adjustable toggle plate seat wedges.



Caution! Never operate the crusher with the hydraulic cylinders under pressure.

NOTE: If you hear or see the toggle plate slapping in its seats, the tension rod and spring assemblies must be retensioned more.

- Install the toggle plate inside the base. Use a chain through the center hole to suspend the toggle plate in the base. Make sure the chain can be dropped out through the hole after the pitman is installed.
- 2) Hook a crane to the pitman at the top and the bottom so that when the pitman is hoisted, it will be held at an angle of around 15 to 20 degrees from end to end and level horizontally from side to side. Crane(s) must be adequate for the weight of the pitman.
- Lower the pitman into the base. Be careful not to bang the side of the bearing housing into the base seats.
- 4) When the bearing is 1 or 2 inches from being seated, install the bearing bolts on the bottom and top.
- 5) Start the back bearing bolts. Disconnect the chain on the top of the pitman.
- 6) Before unhooking the lower chain from the pitman, lift the pitman and raise the toggle plate into position. Then remove the chain.
- 7) Tighten the bearing housing to the base. Tighten the back bolts first (the tension spring end). This draws the side bearing housing to the rear. Tighten the

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Installation of Jaw Pitman Assembly into Base

bottom bolts second. This ensures the assembly is down tight. Tighten the top bolts last in a corner-to-corner or criss-cross pattern.

- 8) Torque all housing bolts to the recommended value.
- 9) Check and record the clearance between the outside rotating seal and the side bearing end cap for future reference. This clearance should be very close to equal all the way around.
- 10) Install the tension rods and spring assemblies. Compress both springs evenly until there is no looseness between the pitman seat, the toggle plate, and the adjustable seat.
- 11) Install the flywheels onto the shaft.

Note: Be sure the counterweights on the flywheels are in line from side to side and ahead of the leading spoke as it rotates down into the closed stroke.

- 12) Tighten the shaft's end cap bolts first to push the flywheels onto the shaft.
- 13) Tighten the flywheel hub bolts last.

Note: Number 12 and number 13 bolts should be torqued to the recommended value of the torque chart, using the "LUBE" column of the chart.

Size	Old Part#	Description	New Part #	Description	Qty.
2236	7146-196	1-1/4" N.C. x 15"	7383-324	1-1/4" N.C. x 16"	8
2542	7146-196	1-1/4" N.C. x 15"	7383-324	1-1/4" N.C. x 16"	8
2742	7146-196	1-1/4" N.C. x 15"	7383-324	1-1/4" N.C. x 16"	8
3042	7146-196	1-1/4" N.C. x 15"	7383-324	1-1/4" N.C. x 16"	8
3054	7146-196	1-1/4" N.C. x 15"	7383-324	1-1/4" N:C. x 16"	8
3242	7146-196	1-1/4" N.C. x 15"	7383-324	1-1/4" N.C. x 16"	8
4242	7146-196	1-1/4" N.C. x 15"	7383-324	1-1/4" N.C. x 16"	8
3648	3645-049-02	1-1/2" N.C. x 19" (Stud)	7383-325	1-1/2* N.C. x 18-1/2*	8
3660	3645-049-02	1-1/2" N.C. x 19" (Stud)	7383-325	1-1/2" N.C. x 18-1/2"	8
4248	3645-049-02	1-1/2" N.C. x 19" (Stud)	7383-325	1-1/2" N.C. x 18-1/2"	8
5460	4248C04	1-1/2" N.C. x 21-1/2" (Stud)	7383-326	1-1/2" N.C. x 20"	8

Torque bolts per Standard Torque Chart. Use Lubricated column figure.

Jaw Crusher Shielding & Lubricating Pitman Toggle Plate & Seat to Reduce Wear

During jaw crusher operation, fine dust generated by the process accumulates on top of the toggle plate and works its way in between toggle plate and seat. The addition of lubricant to that area produces a combination of oil and dust which acts like a grinding compound to speed up the wearing of toggle plate and seat.

We recommend a burlap shield and oil wick that will trap the dust and bleed clean oil into the contact area so that wear is minimized.

- Cut burlap strips, wide enough to nest in area above toggle seat, on low point of toggle plate as shown.
 Strips should be as long as the crushing chamber is wide.
- Cut at least ten strips, laying them one on top of each other to form a laminated shield. Saturate the strips with old engine oil.
- Install shield on top of pitman toggle seat and toggle plate contact area as shown.

Maintenance:

- 1) Check shield periodically.
- 2) When top strip is saturated with dust, carefully peel it off.
- Add old motor oil to shield after each top strip is removed.
- Remove entire shield before the last two strips are removed.

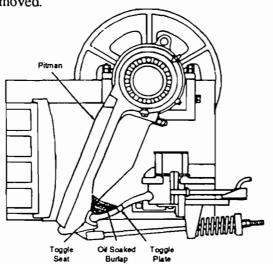


Figure 11
Cut-away Side View of Typical Jaw Crusher
with Burlap Dust Shield

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Pitman Information

Pitman Assembly Procedure

- All pitman and side bearing end cap bolts are to be of the self locking type and Loctite #271 is also to be applied. Then tighten bolts to correct torque.
- All seals with grooved lands should be packed with proper grease when assembling. After assembly, purge seal on grease lubricated unit, then remove grease fitting for seals and install plugs.
- 3) In removing clearance from bearings follow these guidelines:

Straight Bore Pitman Bearings: Be sure no more than 50% of the unmounted clearance is removed after the bearings have cooled and shrunk in place on the shaft.

Tapered Side Bearings: Remove between 40 and 50% of the unmounted clearance, no more.

Example: Unmounted bench clearance = .010; 40% = .010 x 0.4 = .004; 50% = .010 x 0.5 = .005; Then .010 - .004 = .006; .010 - .005 = .005. Record all unmounted and mounted clearances for future reference.

 Proper lubrication for jaw crusher should follow guidelines established in IMCO 010 Operation & Maintenance Manual until notified differently by factory.

Be sure to add 20% grease just like new unit in an overhaul.

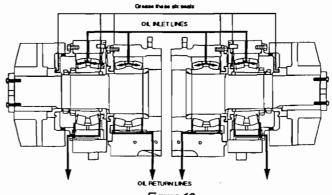


Figure 12
Pitman Oil Lubricating System

Lubrication

Pitman and Side Bearings: Fill supply tank with recommended lubricants. See Operation Manual for the oil capacity. Lubricant: Extreme pressure type oil. Typical brand names are, Amoco Amogear EP (220) [150], Mobil Mobilgear (630) [629], Exxon Spartan EP

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Pitman Information

(220) [150], Shell Omala (220) [150], Gulf EP Lube HD (220) [150], Texaco Meropa (220) [150]

Ambient Oil Temperature Guide: (Above 32°F) [Below 32° F]

Use ISO Viscosity Grade 68 of primary lubricant for flushing.

Every 1000 hours, drain the supply tank and fill with flushing oil. Proceed with flushing operation. See specific instruction in the Operation Manual.

Grease Fittings: Dust & Moisture seals. Grease must extrude from seals at all times to produce an effective dust and moisture seal. Greasing intervals must be established to maintain this visible grease slick. Lubricant: Lithium base, grade 2 grease.

Contaminants in Lubricants

The following is a guide to levels of contaminants in lubrication. This is the concerned range measured in parts per million (ppm).

Iron: 125-150, Chrome: 25-30, Aluminum: 45-50, Copper: 100-125, Silicon: 25-30, Water: 0.

Oil is to be changed every 1000 hours. (Shorter intervals if at elevated temperature or continuous operation)

Refer to Cedarapids Operation & Maintenance Manual for bearing grease capacities and other detailed lubrication instructions.

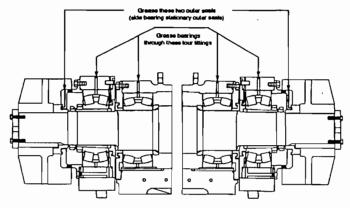


Figure 13 Grease Fittings on Pitman

Pitman Grease Fittings

Pitman and Side Bearings: Grease must extrude from seals at all times to produce an effective dust and moisture seal. Greasing intervals must be established to maintain this visible grease slick. Typical brand names are Amoco Amolith EP1, Gulf Gulfcrown EP1, Shell Alvania EP1, Exxon Lidok EP1, Mobil Mobilux EP1, Texaco Multifak EP1.

Refer to Cedarapids Operation & Maintenance Manual for bearing grease capacities and other detailed lubrication instructions.

Setting Oil Lubricating Flow Switches

- 1) Run the oil lubrication system without the crusher running.
- 2) Open flow switches all the way open.
- 3) Allow enough time for oil to warm up.
- 4) Adjust the three highest switches back down to the lowest switch setting.

Notes:

- As the higher ones are backed down the low ones will raise some.
- The flow switch brass indicator settings will vary with each size of crusher due to pump output.
- If indicator(s) begin to lower their preset position, it could indicate oil line problems or a bearing beginning to fail.
- If excessive oil leaks out of the seals, possible causes are: lack of grease in seals, return line blockage, return line has low area trapping oil fluid restricting flow to reserve or oil flow rate is too high and the flow rate indicator needs to be lowered.
- Oil is to be drained and flushed every 1000 hours of operation or seasonally, whichever occurs first.



Caution! Never operate oil lubricated crusher without the alarm system in operation.

Lubrication Instructions

Oil Lubrication for Combination Grease or Oil Lubricated Crusher

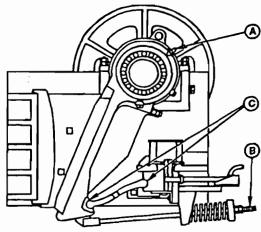


Figure 14 Side View - Location of Dust Barrier Grease Fittings & Oil Hoses

Grease these six seals OIL INLET LINES OIL RETURN LINES

Figure 15 Cut-away Front View - Location of Dust Barrier Grease Fittings & Oil Hoses

SYMBOL	PART	INSTRUCTIONS	LUBRICANT RECOMMENDED
A	Side Bearing Seals, Pitman Seals (Dirt Barriers)	Check daily. Grease must extrude from the seals at all times to produce an effective dust and moisture seal. Greasing intervals must be established to maintain this visible grease slick.	Lithium base, Grade 2 grease
В	Tension Rod Threads	Lubrication with oil as needed.	SAE 30 motor oil
С	Toggle Plate	Lubricate at reassembly.	Lithium base, Grade 2 grease
. D	Oil Circulation System	Every 1000 hours or seasonally, whichever occurs first. Drain when hot. Flush with at least 10 gallons flushing oil, run empty, drain and refill.	Amoco Amogear EP 220 or 150° Excon Spartan EP 220 or 150° Gulf EP Lube HD 220 or 150° Mobil Mobilgear 630 or 629° Shell Omala 220 or 150° Texaco Meropa 220 or 150° °Use lower number for temperatures below freezing

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Circulating Oil System Electric Oil Pump Drive

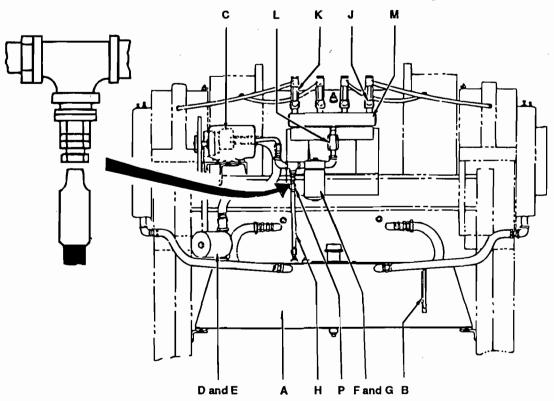


Figure 16
Circulating Oil System Components – Rear End View of Crusher with Electric Oil Pump Drive

Item Descriptions

- A Oil reservoir
- B Level gauge
- C Oil pump
- D & E Suction filter with gauge
- F & G Discharge filter with gauge
 - H Relief line
 - J Pressure oiler
 - K Flow indicator tube
 - L Check valve
 - M Oil manifold
 - P Relief valve

Supply Tank & Level Gauge

A large supply tank (A) for the oiling system is mounted on the crusher frame. It is set lower than the pitman shaft bearings so that oil draining from each bearing will return by gravity flow to the tank for re-circulation.



Caution! It is vital that all four drain hoses be without a low point where oil could collect and congeal during cold weather so that drainage back to the supply tank would be slowed or blocked.

A sight gauge (B) on the side of the tank shows the level of oil. The tank size is dependent upon the crusher size as follows: 3648, 4248, 3660 & 5460 crushers have a 25 gallon tank while 3242 and smaller crushers have a 20 gallon capacity.

Use an extreme pressure type oil with the proper viscosity grade. Typical brand names are: Amoco Amogear EP, Exxon Spartan EP, Gulf EP Lube HD, Mobil Mobilgear, Shell Omala, Texaco Meropa. Viscosity should be 220 with ambient temperatures above 32°F and 150 with temperatures below 32°F. (Mobil 630 and 629)

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Circulating Oil System Flywheel Pump Drive

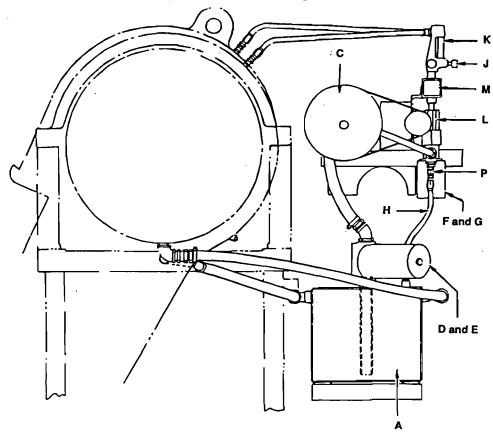


Figure 17
Circulating Oil System Components – Left Side View of Crusher with Flywheel-to-Pump Drive

Item Descriptions

- A Oil reservoir
- C Oil pump
- D & E Suction filter with gauge
- F & G Discharge filter with gauge
 - H Relief line
 - J Pressure oiler
 - K Flow indicator tube
 - L Check valve
 - M Oil manifold
 - P Relief valve

Oil Pump

The oil pump (C) picks up oil from the tank and forces it through the distribution system to the top of each of the four main roller bearings. When the oil reaches the bottom of each bearing it flows by gravity back to the supply tank. Oil which reaches the central gravity of the pitman, after having passed through the pitman bearings, also flows back to the supply tank. In this way a continuous circulation of oil over all bearing rollers takes place whenever the crusher drive is operating.

System Filters

Two filters are used in the lubrication system, a suctionline filter (D) above the reservoir (A) and a discharge-line filter (F) below the oil manifold, (M).

The suction filter has a reusable 100-mesh wire cloth element to prevent particles from reaching the pump. The discharge filter has a 25-micron disposable element which prevents even the smallest particles from being carried to the bearings. Each filter has an internal bypass which assures oil flow even if the element is plugged.

A 75 psi external relief valve is included in the inlet to the discharge filter to prevent damage if oilers become plugged or are shut off.

If there is a drop in volume at pressure oilers, (J) this may be an indication filters are clogged.

The reusable filter should be cleaned seasonally and the disposable filter changed when oil is changed. Under excessive dust conditions, filters should be checked periodically.

Check Valve

A check valve (L) in the oil feed line to the flow indicators prevents any reverse flow of oil in the feed line. This assures instant discharge of fresh oil into each bearing as soon as crusher operation begins again.

Flow Adjustment

The control knobs (J) regulate the oil flow to the bearings. To adjust them, allow the crusher to run until the oil is warmed up. Fully open all knobs. The brass indicators will be at their highest points in the tubes (K). Then close the valves until all the indicators are at the same level.

Periodically check the level. If the level falls evenly or in one or two of the tubes, it could be a sign of bearing problems or clogged filters.

During normal operation the relief line (I) returns excess oil to the reservoir.

Filters and Pressure Gauges

The discharge filter gauge (G) shows the pressure in the feed line to the filter (F) and flow control unit (J). The gauge will indicate a pressure but the readings will vary with ambient temperature, type of lubricant, operating temperature, etc.

Suction gauge (E) will normally show little or no reading.

Dust Barrier Grease Requirement

Circumferential grease passages around the outer side of each bearing cap and retaining ring serve as dust barriers and oil retainers when they are kept full of grease. Regular injection of grease at the six fittings (A) Figure 16 will force trapped dirt and dust particles outward and keep the lubricating oil from leaking to the outside. Any grease which is forced inward and manages to reach the oil cavity on the inner side of the assembly merely displaces some oil and eventually adds to the overall lubrication of the bearings.

Grease these fittings as often as necessary to keep a slick of grease extruding from each barrier so that all dust and dirt are kept out and oil leakage is minimized. Use a lithium base, grade 2 grease.

Heating Oil Prior to Start-up

During periods of cold weather the system should be observed closely for pump V-belt slippage or pump cavitation (failure to pump oil even though pump is being driven). If no oil flow is visible through flow indicators (K) when the crusher flywheels are turning, there will eventually be a lack of the required lubrication at each

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Circulating Oil System Flywheel Pump Drive

bearing. A pre-heating of the oil in the supply tank will help to minimize the problem.



Caution! Do not heat oil be applying a torch flame directly to the sides an bottom of the supply tank. Extreme heating will carbonize the oil and create serious operating problems.

Draining and Flushing System

Each 1000 hours of crusher operation or seasonally, whichever occurs first, drain the supply tank. Remove the screen from suction filter (D) and clean it. Reinstall the filter screen. Add at least 10 gallons of flushing oil to the supply tank. Run the crusher empty for at least 10 minutes, then stop the drive and drain the flushing oil. If it appears extremely dirty, repeat the flushing with fresh oil to remove more of the contaminants.

When the flushing has been completed, install a new element in the pump discharge line filter (F). Remove and clean the filter screen in suction filter (D). Reinstall the screen. Refill the supply tank to normal operating level with the lubricant recommended.

Oil Pump Drive (Flywheel Drive)

Some early lubrication system pumps were driven by belt from the flywheel. These hand a link-type belt which could be replaced without removing the flywheel. A turnbuckle maintains belt tension by pivoting the pump bracket.

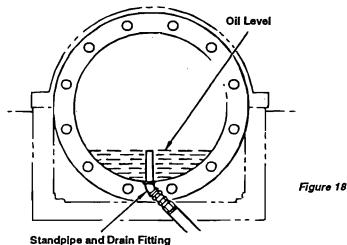
The belt should be kept only tight enough to drive the pump without slippage when the oil is cold at start-up. Over-tightening can cause rapid belt wear.

Oil Pump Drive Belt (Electric Motor Drive)

Maintain normal V-belt tightness by adjusting motor position. V-belt should be kept only tight enough to drive the pump without slippage when oil is cold at crusher start-up. Over-tightening will cause rapid V-belt wear.

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Circulating Oil System Standpipe & Oil Level (Early Models Only)



(Used on serial numbers preceding 38760)

End View of Side Bearing Showing Standpipe & Oil Level

Standpipe and Drain Fitting
(Used on serial numbers preceding 38760)

End View of Pitman Showing Standpipe & Oil Level



Caution! Pitman Shaft Removal: The oil standpipes in the pitman must be unscrewed and removed before the shaft assembly with bearings can be withdrawn from the pitman. If this is not done, the standpipes will be severely damaged as shaft and bearings are withdrawn.

Oil Level Standpipes

All crushers (except model 5460) that precede serial number 38760 have two oil level standpipes in the pitman. (Figure 18) Model 3648 and smaller crusher also have an oil level standpipe in each of the side bearing end caps. These standpipes keep a small amount of oil covering the bottom of each bearing at all times. The maintenance of this oil supply assures the proper lubrication of each bearing at the moment of start-up. Also, if the oil pump fails the bearings will still be adequately lubricated for a reasonable length of time.



Caution! Routinely check the pressure system during each day's operation so that any interruption in the oil flow can be spotted quickly and restored. Shut down the crusher immediately if the oil flow is interrupted. The residual oil supply is not sufficient to last for long periods.

Pitman Shaft Removal - The oil standpipes in the pitman must be unscrewed and removed before the shaft assembly with bearings can be withdrawn from the pitman.

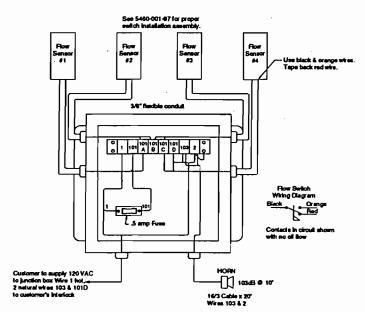
Lubricating Stored Equipment

Idle equipment whether new or used, must be turned over at least every 30 days either by power or hand to redistribute the lubricant. Revolving the bearing assemblies periodically insures lubricant on all surfaces of the bearing.

Failure to rotate bearings when crusher is idle will permit lubricant to drain to the bottom of the bearing assembly and by the collection of moisture through condensation will set up a chemical reaction in the bearing assemblies know as corrosive staining. These stained areas are a positive point for premature bearing failures, as flaking will start at these points when the equipment is put back into operation.

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Circulating Oil System Low Oil Flow Alarm System



NOTE: TAPE REMAINING BOX OF PUSES TO INSIDE BOTTOM OF ENCLOSURE.

Figure 19 Wiring Diagram for Optional Low Flow Alarm System

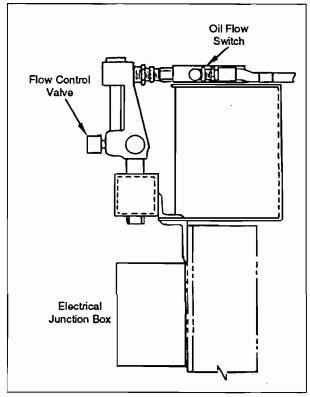


Figure 21
Location of Oil Flow Detection Switch

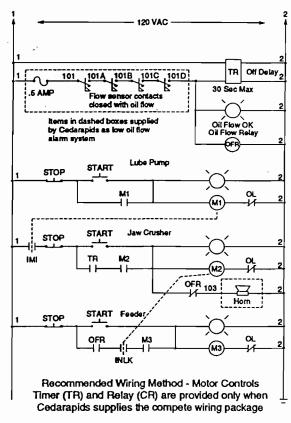


Figure 20 Schematic for Optional Low Flow Alarm System

Note: Flow sensors have normally closed contacts that open up as flow is sensed. The alarm will sound when there is a loss of oil flow.

Optional Low Oil Flow Alarm (Figures 19-21)

All jaw crushers equipped with circulating oil lubrication systems can be equipped with an electric alarm to warn of inadequate oil flow to one or more bearings. A flow sensor is installed between each flowmeter and the crusher bearing it serves. A set of electrical contacts is closed by oil flowing through the device.

When oil is flowing to all four crusher bearings, the "Oil Flow OK" light will be on, the OFR relay will be energized, allowing the feeder to run and the TR timer will close, allowing the crusher to run (Figure 20).

If any switch opens due to a no-flow condition, the oil flow relay will drop out, the feeder will stop, the horn will sound, and the "Oil Flow OK" light will go out, warning the operator of an oil flow problem. This condition will remain until the oil flow is reestablished.

If the alarm sounds for the time set on the timer, the crusher will stop.

Jaw Crusher Tool Listing

Model	Sleeve Type	Removal Nut	Tightening Nut	Wrench
1016	Push	369	7031 021	45500 752 03
1020X	Push	569	569B	45500 752 09
1020W	Pull	569A	- ₹569C	45500 752 09
1024	Push	569	569B	45500 752 09
1024W	Pull	569A	569C	45500 752 09
1036B	Push	697	697B	45500 752 09
1036D	Pull	697A	10 mg 1 m 896 . m 1 m 1	45500 752 09
1036	Pull	697A	896	45500 752 09
∗1236	Pul	697A	896	45500 752 09
1236	Pull	4418 238	4418 237	45500 752 09
1242	Pull	896	897	45500 752 09
1248	Pull	896	897	45500 752 09
1424	· · · · · · · · Pull	995	896	45500 752 09
1524	Puli	697BA	697 01	45500 752 09
1524	Push	697	697B	45500 752 09
1536	Push	895	896	45500 751 09
1624	Pull	569D	569E	45500 751 09
1636	Pull	896	897	45500 751 09
1642	Puli	946	4418 115	45500 751 10
]		
1648 1824	Pull	947	946 697B	45500 751 10 45500 751 09
* *	Push	***		13.7.
1830	Push	895	896	45500 752 09
1836	Push	895	896	45500 752 09
2025	Pull	896	897	45500 752 09
2036	Pult	896	897	45500 752 09
2225	Pull	896	897	45500 752 09
2236	Pull	896	897	45500 752 09
2248	Pull	946	4418 115	45500 751 10
2436	Pull	946	4418 115	45500 751 10
2540	Putt	946	947	45500 751 10
2540	Push	947	946	45500 751 10
2542	Pull	947	946	45500 751 10
2640	Pull	946	4418 115	45500 751 10
2742	Pull	946	4418 115	45500 751 10
3040	Push	946A	946	45500 751 10
3040	Pull	946	4418 115	45500 751 10
3042	Push	946A	946	45500 751 10
3042	Pull	946	4418 115	45500 751 10
3054	Pull	946	4418 115	45500 751 10
3240	Pull	946A	946	45500 751 10
.3242	Puti	946	4418 115	45500 751 10
3648	Pull	4418 172	4418 170	45500 751 16
3660	Push	4418 190	4418 189	45500-751-20
4242	Pull	946	4418 115	45500 752 10
4242	Push		4418 189	45500-751-20
		4418 189 5460 002 34	5460 002 34	
5460	Pull	5460 002 35	5460 002 35	01376AXA
		Twin Jaw Cru	ushers	<u> </u>
1216	Pull	370	5698	45500 751 09
1236	Puli	397A	896	45500 751 09
1624	Pull	569D	569E	45500 751 09
1836	Pull	896	897	45500 751 09
		Dual Jaw Cru		40000 701 00
1840/640	Puli	896	897A	45500 751 09
		Gyra Jaw Cru	I .	
		Gyra daw Ci,	ishers 946N	45500 751 10

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Crusher Operation Problems

Feed too large

Pounding or crushing on pitman barrel and pitman bearing housings can cause short bearing life.

Feed too small

Excessive wear on bottom end of jaw plates. No wear in center area of jaw plates. Good manganese wasted.

Feeding material in excess of 35,000 - 40,000 PSI

Rock too hard can cause shaft breakage, bearing failure, base breakage and bolt fractures.

Setting crusher below minimum setting

Excessive wear on top of pitman, excessive wear on bottom of jaw plates. Overstressing shaft and bearing assemblies causing either or both shaft and bearing failure.

Choke feeding crusher

Excessive load on shaft and bearings. Excessive wear on pitman barrel. Excessive wear on feed hopper. Normal feed rate is to maintain 80% of jaw chamber.

Operating crusher too slowly

Make crusher too aggressive and end up overloading shaft, bearing and base, causing early failure.

Operating crusher too fast

No allowing enough time for jaw plates to grip the rock to break it. Excessive scrubbing wear action on jaw plates, shortening their life.

Operating at minimum setting short toggle plate & worn jaw plate

Excessively overloading stressing shaft.

Not centering movable jaw plate on pitman & in between key plate

Restricts the lateral movement of pitman. Stress loading bearings assembly causing excessive heat and early bearing failure. Possible shaft failure.

Operating with movable jaw plate rubbing on key plat due to movable jaw plate growth

Restricts lateral movement of pitman. Stress loading bearing assembly, causing excessive heat and early bearing failure. Possible shaft failure.

Operating with worn jaw plates

Crusher Operation Problems

Pounding of jaw plates into base and pitman causing excessive wear on base and pitman. Depending on amount of wear, could over-stress shaft and bearings, causing either or both shaft and bearing failure.

Operating with two flat face jaw plates - no configuration

Excessive stress on shaft in hard rock application. For use in soft rock only.

Operating with two straight face jaw plates with configuration

Rapid wear on lower end of jaw plates.

Operating with unequal amount of shims behind the adjustable toggle seat

Over-stress of the toggle plate causes early failure of seat. Over-stress of one side of pitman and tension rod causing failure of tension rod and/or tension springs. Also causes uneven wear in toggle seats plus the toggle plate.

Toggle seat wedges loose

Will cause excessive wear on wedges, seat and base. Could cause toggle plate failure.

Operating with worn toggle seats

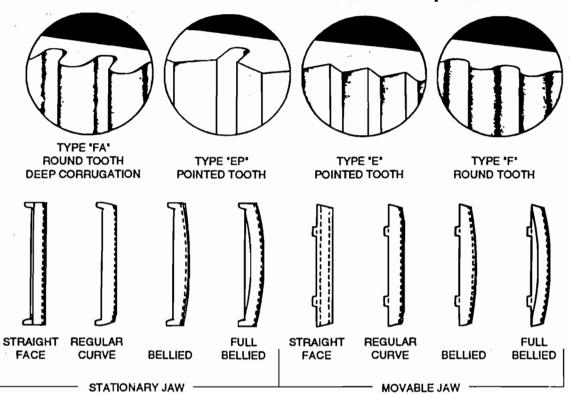
Will cause toggle plate to have uneven wear and early failure as well as toggle seat and crusher base damage.

Over-tensioning one rod and spring assembly

Will carry majority of load and fail prematurely.

Flywheel loose on shaft

Damage keyways and shaft. Most important, loose lateral tightness for rotating seal which could cause contaminants to enter the bearing.



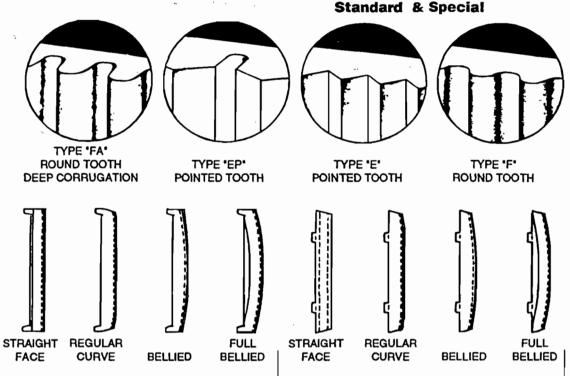
•	SING	LE OVE	ROLLER B	EARING CRUS	HER			
WELDED BASE		STATIO	NARY		MOVABLE			
Model Number	. ≮Part Number	Style Tooth	Pitch (Inch)	Profile	Part Number	Style Tooth	Pitch (Inch)	Profile
1016	302	Е	1-1/2	Straight	303B 305T	Е	1-1/2	Reg Curve Full Bellied
1020	402A	É.	.1-1/2	Bellied	403 405	E	1-1/2	Reg Curve Full Bellied
1024	502	Е	1-1/2	Bellied	503 505	Е	1-1/2	Reg Curve Full Bellied
	602L	F	2	Bellied	603SS 605S	F	2 7	Reg Curve Full Bellied
	602LH	F	2	Bellied	603SS 605S	F F	2	Reg Curve Full Bellied
	602UA	EP	3	Wedge	603UA 603VA	EP EP	3	Straight Full Bellied
1036	1036-049-01	FA	3-3/8	Bellied	1036-049-02 1036-049-03 1036-049-04	FA	3-3/8	Bellied Full Bellied Reg Curve
	1036-049-05	FA	3-3/8	Reg Curve	1036-049-02 1036-049-03 1036-049-04	FA	3-3/8	Bellied Full Bellied Reg Curve
	1036-049-06	FA	3-3/8	Full Bellied	1036-049-02 1036-049-03 1036-049-04	FA	3-3/8	Bellied Full Bellied Reg Curve

	SINGL	E OVE	RHEAD	ROLLER B	EARING CRUS	HER		
WELDED BASE		OITATE	NARY			MOVA	BLE	
Model Number	Part Number	Style Tooth	Pitch (Inch)	Profile	Part Number	Style Tooth	Pitch (Inch)	Profile
	1236X01	F	2	Bellied	1236X02	F	2	Reg Curve
	1236X03	EP	3	Bellied	1236X04 1236X06	EP	3	Reg Curve Bellied
	1236X05	EP	3	Wedge	1236X04 1236X06	EP	3	Reg Curve Full Bellied
1236	1236-066-01	FA	3-3/8	Bellied	1236-066-02 1236-066-04 1236-066-05	FA	3-3/8	Full Bellied Reg Curve Bellied
	1236-066-03	FA	3-3/8	Reg Curve	1236-066-02 1236-066-04 1236-066-05	FA	3-3/8	Full Bellied Reg Curve Bellied
	1236-066-06	FA	3-3/8	Full Bellied	1236-066-02 1236-066-04 1236-066-05	FA	3-3/8	Full Bellied Reg Curve Bellied
1524	702 L	F	2	Straight	703L 705A01	F E	2	Reg Curve Full Bellied
er ar slættje fett	9001-344	EP	3	Bellied	9001-345	EP	3	RegCurve
1830	1830B01	F	2	Straight	1830B02	F	2	Reg Curve
	1636-050-20		3	Bellied	1636-050-21 1636-050-22	P	3	Straight Bellied
1836	1636-050-23	FA	3-3/8	Bellied	1636-050-24 1636-050-28 1636-050-29	FA	3-3/8	Full Bellied Bellied Reg Curve
	1636-050-27	FA	3-3/8	Reg Curve	1636-050-24 1636-050-28 1636-050-29	FA	3-3/8	Full Bellied Bellied Reg Curve
2025	2025A04	Е	2	Bellied	2025A05	Е	2	Bellied
	802D	E	2	Straight	803D 805B	E	2	Straight Bellied
	802-01	EP	3	Bellied	803DA 805C	. EP	3	Straight Bellied
2036	802DB	EP.	3	Wedge	803DA 805C	EP	3	Straight Bellied
	2236-006-10	FÄ	4-3/8	Reg Curve	2236-006-11 2236-006-13	FA	4-3/8	Reg Curve Bellied
	2236-006-12	FA	4-3/8	Bellied	2236-006-11 2236-006-13	FA	4-3/8	Reg Curve Bellied
2225	2025A04	Е	2	Bellied	2025A05	E	2	Bellied

	SINGL	E OVE	RHEAD	ROLLER B	EARING CRUS	HER		-			
WELDED BASE		OITATE	NARY		2236-006-13 FA 4-3/8 Bellied 2236-006-11 FA 4-3/8 Reg Curve Bellied 2248-100-02 EP 3 Straight Bellied 2248-100-08 FA 4-3/8 Reg Curve Bellied 2248-100-10 FA 4-3/8 Reg Curve Bellied 2248-100-12 FA 4-3/8 Reg Curve Bellied 2436-401-01 EP 3 Bellied 902K E 3 Straight Bellied 902K EP 3 Straight Bellied 902KA DS 3 Straight Bellied 902KA DS 3 Straight Bellied 2540-400-04 FA 5-3/8 Bellied 2540-400-04 FA 5-3/8 Bellied			MOVABLE			
.≇Model ⊭Number	Part Number	Style Tooth	Pitch*	Profile				Profile			
	802D	E	2	Straight		Е	2				
	802-01	EP	3	Bellied		EP	3				
2226	802DB	ΕP	3	Wedge		EP	3				
	2236-006-10	FA	4-3/8	Reg Curve		FA	4-3/8	Reg Curve Bellied			
	2236-006-12	FA	4-3/8	Bellied	· · · · ·	FA	4-3/8	Reg Curve Bellied			
	2248-10-01	EP	3	Bellied	2248-100-08	EP	3 %				
.2248	2248-10-09	FA	4-3/8	Straight	And the second of the second o	FA	4-3/ 8	Reg Curve Bellied			
	2248-10-11	FA	4-3/8	Bellied	Address the street of the stre	FA	4-3/8	Reg Curve Bellied			
2436	2436-400-01 2436-400-05	ΕP	3	Reg Curve Full Bellied	2436-401-01	EΡ	3	Bellied			
	901K	E	3	Straight	902K	E	3	Straight			
	901KA	EP ⊹	3	Straight	902L		3	Bellied			
	-∮901KC	EP .	3	Bellied	902L	EP					
2540	901L	EP	3	Wedge	902L						
	2540-400-03	FA	5-3/8	Bellied	2540-400-06	FA	5-3/8	Reg Curve			
	2540-400-05	FA	5-3/8	Reg Curve	2540-400-04 2540-400-06	FA	5-3/8	Bellied Reg Curve			
2540 IX D	901HA	В	3	Bellied	902H	В	3	Bellied			
2540 H.D.	901 KA	EP	3	Straight	902KA	DS		Straight			
3042	3042-051-01	FA	6-3/8	Bellied	3042-051-02 3042-051-03	FA	6-3/8	Reg Curve Bellied			
.3042	3042-051-04	FA	6-3/8	Reg Curve	3042-051-02 3042-051-03	FA	6-3/8	Reg Curve Bellied			
3054	3054-500-17	FA	6-3/8	Bellied	3054-500-18	FA	6-3/8	Bellied			

	SINGL	E OVE	RHEAD	ROLLER B	EARING CRUS	HER		
WELDED BASE	•	OITATE	NARY		3 44	MOVA	BLE	
Model Number	Part Number	Style Tooth	Pitch (Inch)	Profile	Part Number	Style Tooth	Pitch (Inch)	Profile
	901KA	EP	3	Straight	3040A05 3040-600-01	DS EP	3	Straight Full Bellied
	901KC	EP	3	Bellied	3040A05 3040-600-01	DS EP	3	Straight Full Bellied
3240	901L	EP	3	Wedge	3040A05 3040-600-01	DS EP	3	Straight Full Bellied
	2540-400-03	FA	5-3/8	Bellied	3040A05 3040-600-01	DS FA	5-3/8	Straight Reg Curve
	2540-400-05	FA	5-3/8	Reg Curve	3040A05 2640-001-27 2640-001-26	DS FA FA	5-3/8	Straight Bellied Reg Curve
	3242L01	E	. 7	Straight	3242L02	DS		Straight
	3242L01F	் ' ப ்	7	Straight	3242L02 3242L02D	DS EP	7	Straight Full Bellied
3242	3242-050-06	FA	6-3/8	Bellied	3242L02 3242-050-07 3242-050-05	DS FA FA	6-3/8 6-3/8	Straight Bellied Reg Curve
	3242-050-04	FA	6-3/8	Bellied	3242L02 3242-050-07 3242-050-05	DS FA FA	6-3/8 6-3/8	Straight Bellied Reg Curve
3648	3645-049-20	FA	6-3/8	Reg Curve	3645-049-21 3645-049-30	FA	6-3/8	Reg Curve Bellied
3040	3645-049-22	FA	6-3/8	Bellied	3645-049-21 3645-049-30	FA	6-3/8	Reg Curve Bellied
3660	3660-049-02 3660-049-03	FA	6	Bellied Reg Curve	3660-049-01	FA	6	Bellied
	3242L01 3242L01F	E EP	7	Straight	3242L02	DS		Straight
4242	3242-050-06	FA	6-3/8	Bellied	3242L02 3242-050-07 3242-050-05	DS FA FA	6-3/8 6-3/8	Straight Bellied Reg Curve
	3242-050-04	FA	6-3/8	Reg Curve	3242L02 3242-050-07 3242 -050-05	DS FA FA	6-3/8 6-3/8	Straight Bellied Reg Curve
4248	4248B01D 4248-049-01 4248-049-03	Swage FA FA	6 6 6	Bellied Reg Curve Bellied	4248B02 4248B02 4248-049-02	DS DS FA	6	Bellied Bellied Reg Curve
5460 Requires 2-piece Jaw	5460-001-85 5460-001-93	FA	6	Straight Bellied	5460-001-86 5460-001-92	FA	6 .	Straight Bellied
5748	4248B01D 4248-049-01 4248-049-03	Swage FA FA	6 6 6	Bellied Reg Curve Bellied	4248B02 4248B02 4248-049-02	DS DS FA	6	Bellied Bellied Reg Curve

Crusher Jaws - Cast Base Standard & Special



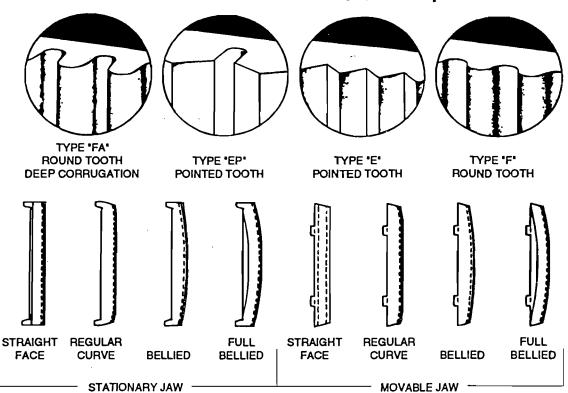
STATIONARY JAW -MOVABLE JAW

**	SINGL	ROLLER B	EARING CRUS	HER	•			
CAST BASE		OITAT	NARY			MOVA	BLE	
Model Number	Part Number	Style Tooth	Pitch (Inch)	Profile	Part Number	Style Tooth	Pitch (Inch)	Profile
336	6		-Obsole	ete-	7		-Obsole	te-
336 Special	102	None :		Full Bellied	103	None		Straight
1016	302	Е	1-1/2	Straight	303B 305T	Е	1-1/2	Reg Curve Full Bellied
1020	402A	E	1-1/2	Bellied	403 405	Е	1-1/2 1-1/2	Reg Cürve Full Bellied
1024	502	Е	1-1/2	Bellied	503 505	Е	1-1/2	Reg Curve Full Bellied
7 7 7 7 5 A	602L	F	2	Bellied	603SS 605S	F F	2	Reg Curve Full Bellied
	602LH	F	2	Bellied	603SS 605S	F	2	Reg Curve Full Bellied
	602UA	·EP	3	Wedge	603UA 605VA	EP.	3	Straight Full Bellied
1036	1036-049-01	FÁ	3-3/8	Bellied	1036-049-02 1036-049-03 1036-049-04	FA	3-3/8	Bellied Full Bellied Reg Curve
Proceedings of	1036-049-05	FA	3-3/8	Reg Curve	1036-049-02 1036-049-03 1036-049-04	FA	3-3/8	Bellied Full Bellied Reg Curve
478.8 478.8 4	1036-049-06	FA	3-3/8	Full Bellied	1036-049-02 1036-049-03 1036-049-04	FA	3-3/8	Bellied Full Bellied Reg Curve

Crusher Jaws - Cast Base Standard & Special

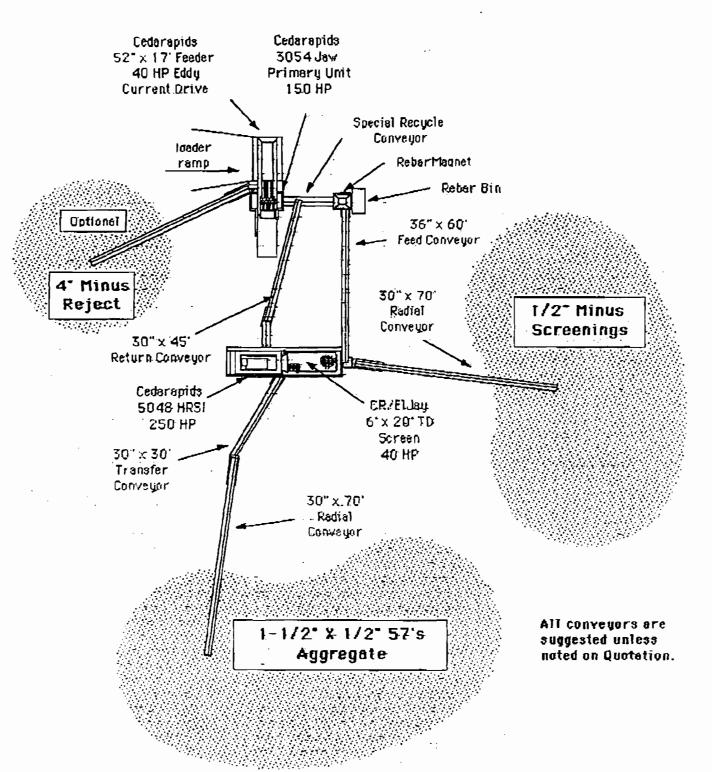
	SINGLE OVERHEAD ROLLER BEARING CRUSHER								
CAST BASE	:	STATIO	NARY		_	MOVA	BLE		
Model Number	Part Number	Style Tooth	Pitch (Inch)	Profile	Part Number	Style Tooth	Pitch (Inch)	Profile	
1524	702	Е	2	Straight	703 705A	Е	2	Reg Curve Obsolete	
1524 Special	702L	F	2	Straight	703L 705A01	F E	2	Reg Curve Full Bellied	
	9001-344	EP	3	Bellied	9001-345	EP	3	Reg Curve	
1536	802X	Е	2	Straight	803X 803Y	Е	2	Reg Curve	
1536 Special	802Y	F	2	Straight	803XY	F	2	Reg Curve	
1836	802X	Е	2	Straight	803X	Е	2	Reg Curve	
1836 Special	802Y	F	2	Straight	803XY 803Y	F	2	Reg Curve	

Crusher Jaws - Twin/Dual/Gyra Standard & Special



ner •	Т	WIN JA	W ROI	LER BEAR	ING CRUSHER			
		OITATE	NARY			MOVA	BLE	
Model Number	Part Number	Style Tooth	Pitch (Inch)	Profile	Part 'Number	Style Tooth	Pitch (Profile
1216					303U	F	2	Bellied
1236					1604A07 1640A07-02	EP?	-9	Reg Curve Wedge
1624					703T	F		Bellied
1836					1602A06 1602A06C 1602-001-05 1602-001-04 1602-001-03	E EP FA FA FA	3. 3-3/8 3-3/8 3-3/8 3-3/8	Reg Curve Reg Curve Full Bellied Bellied Reg Curve
	D	UAL J	AW RO	LLER BEAR	ING CRUSHER			
1640 640	1700-12A	E	3	Reg Curve	1700-13A	E	3	Bellied
1830 630	:1702A07A	EP	3	Reg Curve	1702A08A	EP.	.33	Bellied
	GYR	A DUA	L JAW	ROLLER BE	ARING CRUSH	IER		
1036	1604A07	EP	3	Reg Curve	1606-002-01 1606-002-04	EP	3	Bellied Full Bellied

TYPICAL CEDARAPIDS/ELJAY CONCRETE RECYCLING PLANT



Jaw Crusher Standard Jaw Configuration

	S	TANDARD JA	W CRU	SHER CO	NFIGURATION		
Model	Stationary Jaw Style	Movable Jaw Style	Tooth Type	Model	Stationary Jaw Style	Movable Jaw Style	Tooth Type
1016	Straight	Regular Curve	E	2248	Regular Curve	Bellied	FA
1020	Bellied	Regular Curve	Ε	2436*	Regular Curve	Bellied	EP
1024	Bellied	Regular Curve	E	2438†	Regular Curve	Bellied	FA
1036	Bellied	Regular Curve	FA	2542	Regular Curve	Bellied	FA
1236	Bellied	Regular Curve	FA	2742	Regular Curve	Bellied	FA
1242	Bellied	Regular Curve	FA	3042	Regular Curve	Bellied	FA
1248	Bellied	Regular Curve	FA	3054**	Bellied	Bellied	FA
1524	Straight	Regular Curve	F	3242	Bellied	Regular Curve	FA
1636	Bellied	Regular Curve	FA	3648	Bellied	Regular Curve	FA
1642°	Bellied	Regular Curve	FA	3660**	Bellied	Bellied	FA
1648	Bellied	Regular Curve	FA	4242‡	Bellied	Regular Curve	FA
1824	Straight	Regular Curve	F	4248	Bellied	Regular Curve	FA
1836	Regular Curve	Bellied	FA	5460	Straight	Straight	FA
2 236	Regular Curve	Bellied	FA	5748‡	Bellied	Regular Curve	FA

^{*}Hard Rock **Recycle †Limestone ‡Rip-Rap

A Raytheon Company

Jaw Crusher Jaw Plate Assembly Procedure

Base Stationary Jaw & Key Plates

- (1) Stationary jaw machined surface must be check for flatness both crosswise and top to bottom. It must be within 1/16".
- (2) Stationary jaw must be centered in base and must be held tight upwards against the bottom end of the base and while in this position.
- (3) Lower key plates are installed and then a ¾" or 1" spacer bar is set on top of the lower key plate and the upper key plate is installed.
- (4) Using a minimum of a 16 lb sledge hammer, you drive on the upper key plate forcing the lower key plate down tight in place.
- (5) A properly fitting key plate will have a minimum of 70% contact between the base guide and the ear of the jaw plate. At the same time, the bolts that hold the key plates in the base should be between ½ way and the upper ¾ of the slotted hole in the base. At no time should the bolts contact either end of the base hole.
- (6) After the lower key plates are in position, remove the spacer and drive the upper key plates into position following guidelines for contact and bolt locations as in step (5).

NOTE

It may require grinding of key plates to properly fit as described above.

(7) With steps (5) & (6) completed, install the required shims under the upper lip of the jaw plate and base and weld the shims to the base. Refer to print #3645-049-01.

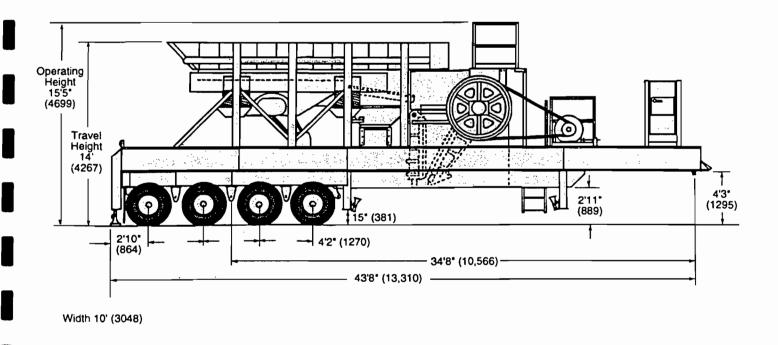
Pitman Jaw Plate & Key Wedge

- (1) Movable jaw machined surface must be checked for flatness both crosswise and top to bottom. It must be within 1/16".
- (2) The pitman lip must be smooth for the jaw plate to fit evenly and tight against the lip.
- (3) The movable jaw plate must be centered on the pitman.
- (4) The jaw wedge must be installed and be sure it does not extend beyond the end of the pitman, restricting the pitman slide float.
- (5) Install the keeper bolts, locknuts and washer to hold the wedge in place.
- (6) Using a minimum of a 16 lb sledge hammer, drive on the face of the wedge, starting in the center and working towards both ends to seat the wedge. While driving on wedge, a person is to be tightening the bolts and nuts in the same area.
- (7) At no time should the jaw wedge be driven in deeper than the pitman barrel surface. If it goes in too deep, remove it and add a shim on top of the wedge the same width and length of wedge and then reset it.

NOTE

The wedge should never bottom out so there is no room left to draw it tighter.

Cedarapids Inc • 916 Sixteenth St NE • Cedar Rapids IA 52402 USA • Telephone 319 363 3511 • Fax 319 399 4871



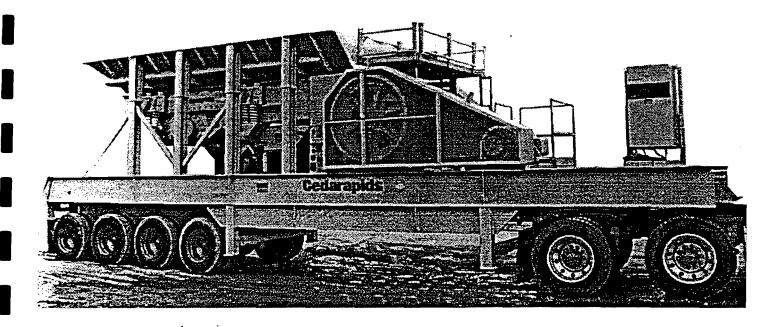
Specifications	
Jaw Crusher	30" x 54" (762 x 1372 mm)
operating speed	225-275 rpm
Feeder	52" x 17' (1321 x 5182 mm)
operating speed	600-900 rpm
Grizzly 60" (1524 mm)	long; 3" (76 mm) avg. opening
Pan liners	½" (12.7 mm)
Hopper capacity	9 cu. yd.
Tires	(16) 11:00 x 22.5 tubeless
Horsepower	

Specifications

AIT III 1010	······································
opper capacity	9 cu. yd
	(16) 11:00 x 22.5 tubeles
orsepower	
Jaw	150 hp, 1200 rpm, electric, tefo
Feeder 40 hp, variable spe	eed eddy current, 300-1650 rpm

	200 hp, 1200 rpm, tefc, electric . 207 hp, 1800 rpm, 8.3L diesel
Weight of plant (no options)	
Total	102,610 lbs (46,544 kg)
King Pin	39,170 lbs (17,768 kg)
Rear	63,440 lbs (28,776 kg)
Weight of plant (with all options)	
	111,860 lbs (50,740 kg)
King Pin	44,850 lbs (20,344 kg)
Rear	67,010 lbs (30,396 kg)

Design and specifications subject to change without notice. Design features may be covered by patents issued and/or patents applied for



Standard Features

Jaw Crusher

Fabricated, stress-relieved submerged arc welded steel base Drop forged, heat-treated, 4340 chrome-nickel-steel eccentric shaft

Hydraulic shim adjustment Reversible manganese steel jaw dies Manganese steel key plates Massive grooved, split hub flywheel Large, spherical self-aligning roller bearings

Main Drive

V-belt drive to jaw crusher with guard Adjustable motor mount

Vibrating Feeder

8° sloped welded bar grizzly section Adjustable angle of throw Engineered bolt-in side liners

Feeder pan liners

Eddy current variable speed drive

Spring mounting

Motor pivot base

Loading hopper with sloped sides

Bypass chute to divert material passing through grizzly section to discharge area, removable midsection of bypass chute allows for use of optional cross conveyor

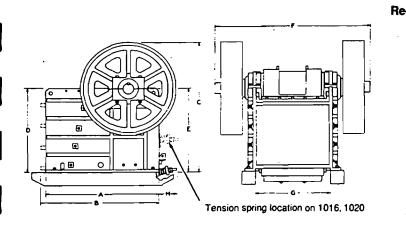
Main Frame with Quad Axle

Fifth wheel kingpin
Flaps, brake and tum signals
Quad-axle air brakes
Operator's platform with access ladder
Cribbing supports

Optional Equipment

Unit-mounted electrical panel, wiring and operator's pushbutton station

Set of six screw type stabilizing jacks with supports Diesel drive system with 200 hp, 1800 rpm engine (for jaw power only) 200 hp electric motor for jaw power 30" (726 mm) side cross conveyor with 7.5 hp (5.6 kW) electric motor Battery operated leveling jacks



ecomm	ended Op	enings at (Ciosed Sti	roke - incl	hes & (mm)
Size	Min.	Max.	Size	Min.	Max.
1016	3/4 (19)	31/2 (89)	2248	2½ (64)	6 (152)
1020	3/4 (19)	3½ (89)	2436	2½ (64)	6 (152)
1024	¾ (19)	3½ (89)	2438	4½ (114)	8 (203)
1036	11/2 (38)	3½ (89)	2542	31/2 (89)	10 (254)
1236	1½ (38)	5 (127)	2742	31/2 (89)	10 (254)
1242	1½ (38)	5 (127)	3042	4 (102)	13 (330)
1248	11/2 (38)	5 (127)	(3054)	31/2 (89)	13 (330)
1524	1½ (38)	5 (127)	3242	4 (102)	13 (330)
1636	1½ (38)	5 (127)	3648	4 (102)	13 (330)
1642	1½ (38)	5 (127)	3660	4 (102)	13 (330)
1648	1½ (38)	5 (127)	4242	14 (356)	23 (584)
1824	1½ (38)	5 (127)	4248	4 (102)	13 (330)
1836	11/2 (38)	5 (127)	5460	6 (152)	20 (508)
2236	21/2 (64)	6 (152)	5748	19 (483)	28 (711)

Dimens	sion to t	he neare	st inch a	and 5mm	1									
Model	1016	1020	1024	1036	1236	1242	1248	1524	1636	1642	1648	1824	1836	2236
A	40	48	45	48	48	56	59	55	61	71	66	56	64	65
	1015	1220	1145	1220	1220	1420	1500	1395	1550	1800	1675	1420	1625	1650
В	_			_ _	-	_	_	-	-	73 1855	_	_		_
С	41	46	46	46	51	55	56	57	63	76	70	57	63	77
	1040	1170	1170	1170	1295	1395	1420	1445	1600	1930	1780	1445	1600	1955
D	24	28	28	28	· 32	33	35	36	41	46	41	3 6	41	48
	610	710	710	710	810	840	890	915	1040	1170	1040	915	1040	1220
E	26	28	28	28	33	34	35	39	42	48	42	39	42	49
	6 60	710	710	710	840	865	890	990	1065	1220	1065	990	1065	1245
F	58	72	72	81	81	98	104	67	92	99	94	77	92	92
	1470	1830	1830	2055	2055	2490	2640	1700	2335	2515	2385	1955	2 3 35	2335
G	22	26	27	41	41	47	53	27	41	47	53	27	41	43
	560	660	685	1040	1040	1195	1 3 45	685	1040	1195	1345	685	1040	1090
н	14	14	21	18	19	20	19	18	16	20	16	19	16	17
	355	355	53 5	455	480	510	480	455	405	510	405	480	405	430
Model	2248	2436	2438	2542	2742	3042	3054	3242	3648	3660	4242	4248	5748	5460
A	79	88	67	82	88	88	88	93	107	118	103	123	138	149
	2005	2235	1700	2080	2235	2235	2235	2360	2715	2995	2615	3125	3505	3785
В	81 2055	91 2310	-	85 2160	88 2235	91 2311	91 2311	99 2515	113 2870	- -	109 2770	126 3200	141 3580	152 3860
С	83	89	77	93	92	92	92	105	120	125	105	137	137	172
	2110	2260	1955	2360	2337	2337	2337	2665	3050	3175	2665	3480	3480	4370
D	52	61	50	63	62	62	63	75	82	86	75	96	96	127
	1320	1550	1270	1600	1575	1575	1600	1905	2080	2185	1905	244 0	2440	322 5
E	54	61	49	65	64	64	64	77	84	88	77	101	101	130
	1370	1550	1245	16 5 0	1626	1626	1626	1955	2135	2235	1955	2565	2565	3300
F	99	94	92	95	99	99	110	99	101	119	99	120	120	140
	2515	238 5	2335	2415	2515	2515	2795	2515	2565	3025	2515	3050	3050	3555
G	53	43	43	45	47	47	6 9	47	52	78	47	55	55	67
	1 34 5	1090	1090	1145	1195	1195	1755	1195	1320	1980	1195	1395	1395	1700
н	16	17	18	19	17	17	20	22	20	28	22	20	20	18
	405	430	455	480	430	430	510	560	510	711	560	510	510	455

Cedarapids Inc • 916 Sixteenth St NE • Cedar Rapids IA 52402 USA • Telephone 319 363 3511 • Fax 319 399 4871

Standard Features

Fabricated, stress-relieved welded steel base

Rib-reinforced side plates

Close-tolerance machining of jaw plate backs and seating surfaces

Reversible key plates through model 2438

Drop-forged, heat-treated, chrome-nickel-steel overhead eccentric shaft

Spherical self-aligning roller bearings

Hydraulic bearing removal for 3648 side bearing, models 4248 and 5460 side and pitman bearings

Cast steel pitman

Hydraulic/shim toggle seat adjustment (discharge opening) except wedge adjustment on 1016 and 1020

One smooth and one grooved flywheel

Split-hub flywheels

Standard left-hand drive (face tension spring)

Options

V-belt drives

Grooving second flywheel

Circulating oil lubrication system with reservoir and low-oil alarm for 1836 and above

Steel skid for crusher and motor for 2236 and above

Motor platform for 2236 and above

Operator's platform, ladder, crusher hopper for 2236 and above Stationary grizzly with bypass chute for 2236 and above Undercrusher discharge chute to belt conveyor, end or side

discharge, for 2236 and above

Dimensions t	o nearesi	l Inch an	d mm - w	reights (k	(g)									
Model	1016	1020	1024	1036	1236	1242	1248	1524	1636	1642	1648	1824	1836	2236
Weights	5306	7000	8 255	12,551	13,978	19,936	24,300	12,305	21,003	33,998	28,406	12,426	21,280	24,903
	2406	3175	3744	5693	6340	9042	11022	5581	9527	15421	12885	5636	9653	11296
HP	20-30	25-40	40-50	55-70	60-75	70-100	80-120	40-60	60-90	100-130	100-150	40-60	60-90	90-125
RPM	300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300	250-300
Jaw Opening	10x16 2 5 5x405	10x20 255x510	10x24 255x610	10x36 255x915	12x36 305x915	12x42 305x106 5	12x48 305x122 0	15x24 380x610	16x36 405x915	16x42 405x106 5	16x48 405x1220	18x24 455x610	18x36 455x915	22x36 560x915
Shaft Dia. Side Bearing	3.937 85	4.4375 113	4.4375 113	5.4375 138	5.9375 151	6.4375 164	6.4375 164	4.921 125	6.4375 164	8.6603 220	7.091 180	4.921 125	6.4375 164	6.4375 164
Shaft Dia.		_								_				
Pitman Bearing	5.120 130	5.907 150	5.907 150	7.4821 190	7.8764 200	7.875 200	7.875 200	6.694 170	7.875 200	10.2383 260	8.664 220	6.694 170	7.875 200	7.875 200
Std. Grooved Flywheel Dia.	30 760	36 915	36 915	36 915	36 915	42 1065	42 1065	36 915	42 1065	55 1395	42 1065	36 915	42 1065	50 1270
Face Std. Flywheel	7 175	11 280	11 280	11 280	11 280	12 305	12 305	11 280	12 305	13 330	12 305	11 280	12 305	13 3 3 0
Stationary Jaw Length	20 510	22 560	21 535	24 610	28 710	29 735	29 735	34 865	34 865	38 965	34 865	33 840	34 865	43 1090
Movable Jaw Length	26 660	27 685	27 685	27 685	31 785	33 840	34 865	40 1015	41 1040	45 1145	41 1040	40 1015	41 1040	50 1270
Model	2248	2436	2438	2542	2742	3042 7	3054	3242	3648	3660	4242	4248	5748	546 0
Weights	43.094 19547	46,737 21200	26,017 11801	42,095 19366	48,520 22008	48,520 22008	52,740 28269	57,137 25917	79,653 36131	107,664 48836	58,838 26689	104,567 47431	117,000 53071	196,258 89023
HP	127-175	125-150	90-125	125-175	125-175	125-175	125-175	150-200	200-250	250-300	150-200	250-300	250-300	350-450
RPM	225-275	225-275	250-300	225-275	225-275	225-275	225-275	225-275	200-250	210-235	225-275	200-225	200-225	200
Jaw Opening	22x48 560x122 0	24x36 610x915	24x38 610x965	25x42 625x106 5	27x42 685x106 5	30x42 760x106 5	30x54 760x137 2	32x42 810x106 5	36x48 915x122 0	36x60 915x152 4	42x42 1065x106 5	42x48 1065x122 0	57x48 1445x122 0	54x60 1372x152 .4
Shaft Dia. Side Bearing	836603 220	8.6603 220	6.4375 164	7.091 180	8.6603 220	8.6603 220	8.6603 220	8.6603 220	10.375 264	14.000 356	8.6603 220	14.000 356	14.000 356	18.000 457
Shaft Dia. Pitman Bearing	10.2383 260	10.2383 260	7.875 200	8.6645 220	10.2383 260	10.2383 260	10.2383 260	10.2383 260	11.815 300	15.570 400	10.2383 260	15.750 4 00	15.750 400	19.687 500
Std. Grooved Flywheel Dia.	57 1445	57 1445	55 1395	57 1445	57 1445	57 1445	57 1445	57 1445	72 1 8 30	72 1830	57 1445	72 1830	72 1830	84 2134
Face Std.	18	15	13	15	15	18	18	18	13	13	18	13	13	20 510
Stationary	455 45	380 53	330 43	380 57	380 57	455 57	455 57	455 68	330 77	330 77	455 68	330 90	330 90	113
Jaw Length	1145	1345	1090	1445	1445	1445	1445	1725	1956	1956	1725	2285	2285	2870
Movable Jaw Length	56 1420	65 1650	50 1270	63 1600	65 1650	65 1650	65 1650	75 1905	85 2160	85 2160	75 1905	98 2490	98 2490	129 3277

Design and specifications subject to change without notice. Design features may be covered by patents issued and/or patents applied for.





Engine Division

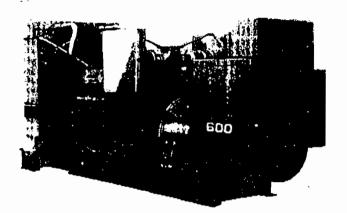
25000 Nov. Road

Nov: Michigan 48375

Phone, 800/833-1789

Connie Griffore Generator Rental Manager **GENERATOR**

PRIME POWER **840** kW



Generator Set may be shown with optional equipment.

GENERAL SPECIFICATIONS - 60 Hz

CAT 3412 ENGINE 1800 RPM

Type-Watercooled Diesel Aspiration-turbochargedaftercooled

Cycle-four stroke No. of Cylinders-V-12 Bors-137 mm (5.4 in) Stroke-152 mm (6.0 in) Piston Displacement-27.0 liter (1649 cu in) Compression Ratio—14.5.1

CATERPILLAR SR4 GENERATOR

Frame Size-589 Type-Static Regulated Brushless Excited Construction—Single Bearing, Close coupled Three Phase-wys connected Insulation-Class F with Tropicalization Terminal Box-drip proof IP 22 Overspeed Capability-150% Wave Form-Less than 5% Deviation Paralleling Capability-Optional with adjustable Voltage Droop Voltage Regulator -- 3 Phase Sensing with Volts-per-Hertz Adjustable -25% +10% Voltage Regulation—Less than plus or minus 1% Voltage Gain-Adjustable to compensate for engine speed droop and line loss TIF-Less than 50 THF-Less than 3%

CATERPILLAR CONTROL PANEL 24 VOLT DC CONTROL Terminal Box Mounted Vibration Isolated NEMA 1, IP 22 Enclosure Dead Front Lockable Door Generator Instruments meet ANSI C-39-1

VOLTAGES AVAILABLE

139/240, 277/480, 346/600, 173/300, 380 (Adjustable a minimum of +10% -10%) (Consult T.I.F for possible detation)

recommendation and delivered to you in a DIS8528, NEMA MG1-22.

313/349-7053 Ext. 323 Light Plants/Used Gen Sets

RELIABLE. FUEL EFFICIENT DIESEL

The compact, four stroke-cycle diesel engine combines durability with minimum weight while providing dependability and economy. The fuel system operates on a variety of fuels.

THE CATERPILLAR 8R4 GENERATOR

Single-bearing, wye connected, static regulated brushless excited generator designed to match the performance and output characteristics of the Caterpillar Diesel Engine that drives it.

EXCLUSIVE CATERPILLAR VOLTAGE REQULATOR Three phase sensing and Volts per Hertz regulation with Constant Voltage in the normal operating range gives precise control and excellent Block Loading:

STANDARD PACKAGE ARRANGEMENT

ENGINE Aftercooler Air Cleaner with service indicator Base, Structural Steel Breather, Crankcase Cooler, Lubricating Oil Exhaust Fitting and Flange Filters, right hand Fuel, full flow Lubricating Oil, full flow Governor Lifting Eyes Manifold, Exhaust, Dry Pumps, Fuel Transfer, gear driven Lubricating Oil, gear driven

Frequency Meter Auto start-stop control module w/Oycle Crank and Cooldown Digital DC Voltmeter, Tachometer, Hourmeter Emergency Stop Push Button Engine Control Switch for Auto. Start/Run, Off/Reset, Stop Digital Oil Pressure and Water Temperature Gauges Shutoffs with Indicators for: Low Oil Pressure High Water Temperature Overspeed Jacket Water, gear driven Overcrank Radiator Emergency Stop Push Button Shutoff, Manual Voltage Adjust Rheostst System Diagnostic Codes Starting, Electric, 24 volt DC Digital Readout GENERATOR Lamo Display SR4 Brushless with VR3

CONTROL PANEL

Digital Ammeter, Voltmeter, Phase Selector Switch,

OPTIONAL EQUIPMENT

Automatic Voltage Regulator

ENGINE Air Cleaner, Heavy Duty Charging Alternator Exhaust Systems Governor, Woodward Protection Davices Tachometer Drive GENERATOR

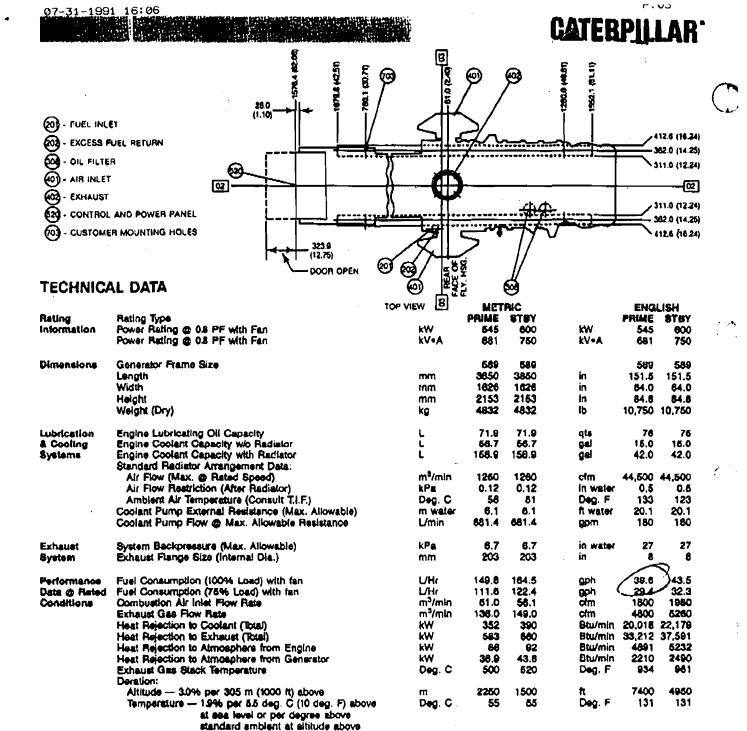
Manual Voltage control Space Heater MIL Std. 481B RFI N Level (VDE 875), BS800 SWITCHGEAR Circuit Breaker Manual Electric Operated

Enclosure-Floor standing

NEMA 1

Main Load Buss

SWITCHGEAR Paralleling Manual Permissive Auto (Consult Factory) Protective Relays CONTROL PANEL Enclosure, NEMA 12/IP 44 Provision for: Alarm Module **Auxillary Relay** Governor Speed Switch illuminating lights installed 1724 speed sensing panel Reverse Power Relay Starting Ald Switch Synchronizing Lights



CONDITIONS AND DEFINITIONS

Prime — For continuous electrical service with 10% overload capability for one hour in twelve in accordance with ISO 3046/1, DIN 6271, BS 5514, and ISO 8528.

780 m (2500 ft)

Standby — For continuous electrical service during the interruption of normal power.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO 3046/1, DIN 6271 and BS 5514 standard conditions. Fuel rates are based on ISO 3046 and on fuel oil of 35 deg. API (16 deg. C or 60 deg. F) gravity having a LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29 deg. C (85 deg. F) and weighing 838.9 g/l (7.001 lbs/U.S. gal.).

No generator set deration required below 55 deg. C (131 deg. F)

Materials and specifications are subject to change without notice. The International System of Units (St) is used in this publication

LEHX9443 (12-89) Supersedes LEHX5458

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Printed in U.S.A.

Emissions Data Caterpillar 3412 Generator Set 545ekw, 1800rpm

3412C DI TA JW DAY MANE TURBO OTY 2 HYDRA GOV TW4610-06 PGS PRIMS 60 MERTS EXH 6TH DIA 8.0 IN GEN 545.0 W/F EKW 566.0 W/O F EKW 780 W/F BHP 810 W/O F BHP 8 1600 RPM

EMISSIONS DATA * * REFERENCE NOTES - NOT TO EXCLED * * * * * * EMISSIONS DATA MEASUREMENT IS CONSISTENT WITH THOSE DESCRIBED IN EPA CFR 40 PART 66 SUBPART D AND 180 \$178-1 FOR MEASUREMENT IN CO., CO2 AND NOX. THESE PROCEDURES ARE VERY SIMILAR TO THE METHODS DESCRIBED IN EPA CFR 40 PART 60 APPENDEX A METHOD 25A FOR HYDROCARBONS, METHOD 10 FOR CO. METHOD 7E FOR NOX.

DATA SHOWN IS BASED ON STEADY STATE ENGINE OPERATING CONDITIONS OF 77 DEG 7. 20.42 IN NG AND NUMBER 2 DIESEL FUEL WITH 35 DEG ARI AND LMV OF 16,390 STU/LB.

PAISE)	аиот	DATA	* * * *	* RATE	D SPEED	* * * *	STANDARD	TIMING
-ROT TO	EICEE	PATAD C					OZ (DRY)	
GEN		eng	Nox	τ	TAL		IN EXH SHOK	
PWR	•		AS HOZI		HC		(VOL) OPA	
£K₩	LOAD	BHP	. ,	• • • LI	I/KK • •	• • • • •	- • •	NO.
\$45.0	100	810.0	13.64	. 47	.13	.62	5 10.01 4	.8 1.85
108.8	75	616.0	11.04	. 29	.17	.41	3 10.48 3	.4 1.35
272.5	50	424.0	0.43	.16	. 20	.31	6 11.28 2	.5 1.28
136.3	28	235.0	5.67	.14	.18	.25	4 13.46 1	.7 1.28
\$4.5	10	114.0	3.47	. 21	.44	. 21	9 15.87 1	.4 1.29

EMISSIONS DATA * * * * * PATED CONDITIONS * * STANDARD TIMING "NOMINAL DATA"
AT RATED:

VI. CONTROL EQUIPMENT

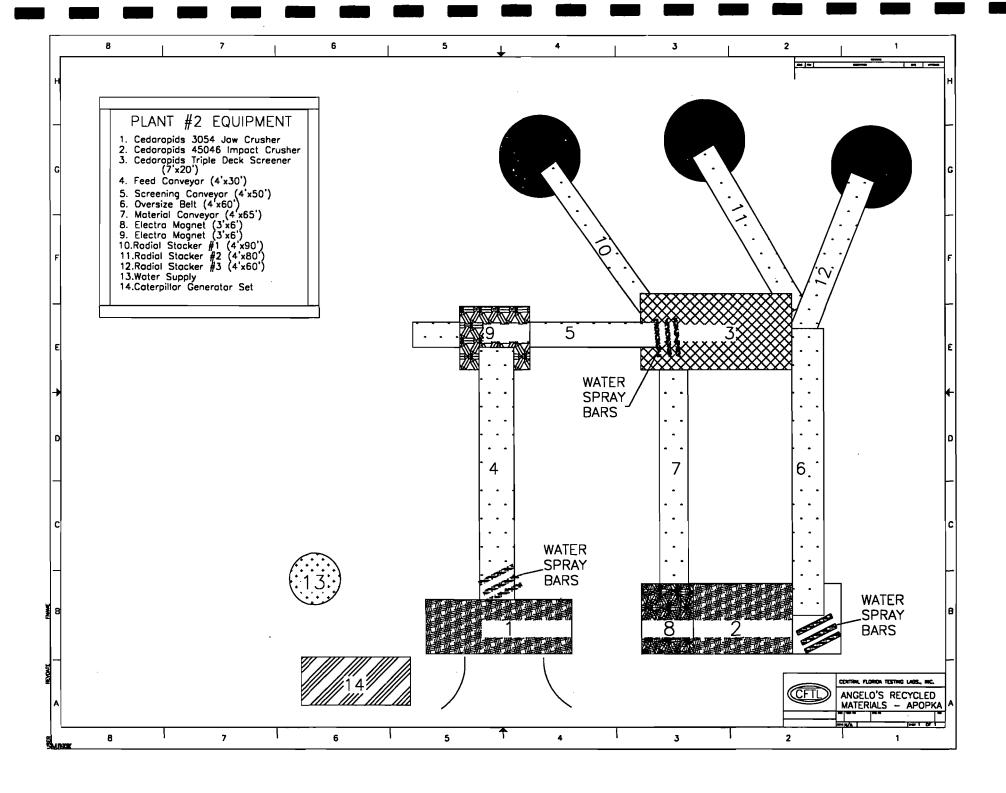
CONTROL EQUIPMENT

All of the equipment used to control fugitive dust emissions from this crushing unit was generated by crushing and maintenance personnel on as needed basis as this crushing unit did not come equipped with any dust suppression equipment when purchased.

The water spray bar and spray head system used on this equipment were manufactured and installed on all areas where possible fugitive dust emissions would occur during the crushing, screening and conveying operations. These areas include the grizzly feeder, the crusher, the conveyor belt drop points, screens and discharge pan.

The control process starts with an on site well that is equipped with two (2) electric pumps (only one used at a time as one is a spare) that is used to feed water through 1 1/2 inch PVC pipe to a hose bib rack. From the hose bib rack water is fed through either 1/2 PVC piping or 1/2 inch hose to spray heads and bars mounted at the various fugitive emission points mentioned above at 25-40 psi, depending what is needed to control the emissions. When at other sites the crusher is equipped with its own pump to supply water to the dust supression spray bar system. Water is usually obtained from various sources such as on site water supplies, fire hydrant, lakes, ponds or water truck.

In addition, plant personnel stand on top of the feeder hopper, where the material is dumped in by front loader, dampening the material that is in the loader and the material that is being dumped into this hopper with a high pressure water hose, to control any fugitive emissions generated.



VII. O & M PLAN

General Maintenance Intervals

The crushing unit and the general area are checked visually, daily for visible emissions. The entire compound inclusive of storage piles are continiously kept damp by a water truck. If any fugitive emissions are seen escaping the crushing plant the source is identified immediately and the problem area is corrected. Fugitive emissions at drop points are controlled by increasing and decreasing the water pressure from 25-40 psi, at the spray bars/heads.

Inspections of various parts of the Self-Made Water Spray Bar / Spray Head Dust Suppression System are done on a daily basis before startup, during operation and after shut down, as well as complete inspection on a weekly basis. If anything is found broken, not functioning or out of the ordinary it is fixed immediately by trained plant personnel. In addition, this dust supression system is equipped with a spare pump in case of breakdown the spare pump can be used until the other pump can be fixed.

OPERATING PARAMETERS for SELF-MADE WATER SPRAY BAR / SPRAY HEAD DUST SUPRESSION SYSTEM

Water Pressure to Spray Bars & Spray Heads
Operation Mode Continuous w/ product

20-45 psi @ each head

Maintenance Log

Description of Maintenance Performed:	<u>Date</u>	<u>Initials</u>
	 ,-	
		_
		,
<u> </u>		
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	-	
		•

VIII. TYPICAL FUEL ANALYSIS



CENTRAL OIL COMPANY, INC.

FUEL OIL #2 (DISTILLATE) SPECIFICATIONS

	CHARACTERISTICS	MIH	<u>XAM</u>
	GRAVITY, API AT 60°F	32.3	
•	SULPHUR, % WT.		0.21
	POUR POINT, F		15.
	BS & W. %		0.2
	VISCOSITY, SSU/100F SECS	33	40.
	VISCOSITY, KINEMATIC CST/40C	2.0	4.
	FLASH POINT, PM CC. F	150.	• •
	ASH, % WT.		0.01
	CETANE NUMBER	40.	
	CARBON RESIDUE, RAMSBOTTOM (10%)		125.
	CLOUD POINT, F		0.01
	SEDIMENT BY EXTRACTION, % WT.	C&B	
	APPEARANCE		1.5
	COLOR, ASTM		1-A
	CORROSION, COPPER STRIP 3 HRS.122°F		"REPORT"
	BTU PER U.S. GALLON		138,500
			•