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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

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 Nam	e:		
	Angelo's	Recycled Materia	als, Inc.	
2.	Site Name:		-	
	Angelo's Recyc	cled Materials, Inc	e. – Plant No.2	
3.	Facility Identification Number:		[X] Unknown	
	<u></u>			
4.	Facility Location:			
	Street Address or Other Locato	r: 2875 Wekiwa Drive		
	City: Apopka	County: Orange	Zip Code: 32703	
5.	Relocatable Facility?	6. Existing	Permitted Facility?	
	[X] Yes [] No	[] Yes	[X] No	
	•			

Application Processing Information (DEP Use)

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

Owner/Authorized Representative or Responsible Official

i.	Name and	Title of	Owner/A	uthorized	Representativ	e or Respons	sible Official:
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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 Date

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

Scope of Application

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

		Permit
Emissions Unit ID	Description of Emissions Unit	Type
001	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	
<u></u> .——	finished product to stockpiles or trucks.	
009	Portable Radial Stacking Belt (4 x 80') utilized to transfer	
	finished product to stockpiles or trucks.	
010	Portable Radial Stacking Belt (4 x 60') utilized to transfer	
	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	Fundative emissions from steeleriles and services dates to	
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.	L

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 existing facility seeking classification as a synthetic non-Title V source. Current operation/construction permit number(s): Renewal air operation permit under Rule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source. Operation permit to be renewed: Air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units. Operation permit to be revised: Reason for revision: Category III: All Air Construction Permit Applications for All Facilities and Emissions Units This Application for Air Permit is submitted to obtain: [] Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source). Current operation permit number(s), if any:

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

emissions of one or more existing, permitted emissions units.

[] Air construction permit to make federally enforceable an assumed restriction on the potential

Current operation permit number(s):

Application Processing Fee

(\$2000.00 for generator-set Construction/Modification	and \$1000.00 for Information	crushing plant)	
[X] Attached - Amount: \$_		[] Not Applicable
Check one:	\$2250.00		,

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

<u>/0-12-98</u> Date

(seal)

^{*}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

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

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		
l			

Facility Regulatory Classifications

1.	Small Business Stationary Sc	ource?	 -
	[] Yes	[] No	[X] Unknown
2.	Title V Source?		·
	[] Yes	[X] No	
3.	Synthetic Non-Title V Source	e?	
	[] Yes	[X] No	
4.	Major Source of Pollutants C	Other than Hazardous Air Pollu	ıtants (HAPs)?
	[] Yes	[X] No	(·
5.	Synthetic Minor Source of Po	ollutants Other than HAPs?	
	[] Yes	[X] No	
6.	Major Source of Hazardous	Air Pollutants (HAPs)?	
	[] Yes	[X] No	
7.	Synthetic Minor Source of H	APs?	
	[] Yes	[X] No	
8.	One or More Emissions Unit	s Subject to NSPS?	
	[] Yes	[X] No	
9.	One or More Emission Units	Subject to NESHAP?	
	[] Yes	[X] No	
10.	Title V Source by EPA Desig		
	[] Yes	[X] No	
11.	Facility Regulatory Classifica	ntions Comment (limit to 200	characters):
	is facility is a natural non-T subpart 000.	itle V Source, subject to rule	es and regulations of 40 CFR
			•

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 C	CFR, Part 60, subpart 000 rul	les and regulations.
,		

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

<u> </u>		
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. 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	<u>5</u>
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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: Pollutant 4 of 5
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: F	Pollutant	<u> </u>	of	<u>5</u>
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	Pollutant Emitted: Total TOC		
2.	Estimated Emissions: 1.49 lb/hr	or 2.32 ton/yr	
	Requested Emissions Cap: : <2		
4.	Basis for Emissions Cap Code: 62-	296.310	
5.	Facility Pollutant Comment: General	rator subject to opacity li	mits only.
	•		
<u>Fa</u>	ncility Pollutant Detail Information	ı: Pollutant of	·
	ncility Pollutant Detail Information Pollutant Emitted:	ı: Pollutant of	·
	Pollutant Emitted:	n: Pollutant of (lb/hour)	(tons/year)
2.	Pollutant Emitted:		(tons/year)
2.	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code:	(lb/hour)	(tons/year)
1. 2. 3.	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code:	(lb/hour)	(tons/year)
1. 2. 3.	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code:	(lb/hour) to 400 characters):	(tons/year)
1. 2. 3.	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code: Facility Pollutant Comment (limit to	(lb/hour) to 400 characters):	
1. 2. 3.	Pollutant Emitted: Requested Emissions Cap: Basis for Emissions Cap Code: Facility Pollutant Comment (limit to	(lb/hour) to 400 characters):	

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

Area Map Showing Facility Location: [X] Attached, Document ID:I [] Not Applicable [] Waiver Requ	ested
Facility Plot Plan: [X] Attached, Document ID:II [] Not Applicable [] Waiver Requirement	iested
Process Flow Diagram(s): [X] Attached, Document ID:III [] Not Applicable [] Waiver Requ	ested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [X] Attached, Document ID:IV [] Not Applicable [] Waiver Requ *All areas within facility are continuously sprayed w/ water to control fugitives.	ested
Fugitive Emissions Identification: [] Attached, Document ID: [X] Not Applicable [] Waiver Requ	ested
6. Supplemental Information for Construction Permit Application: [X] Attached, Document ID: V [] Not Applicable	
Additional Supplemental Requirements for Category I Applications Only	
7. 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 8. List of Equipment/Activities Regulated under Title VI:	
7. List of Proposed Exempt Activities: [] Attached, Document ID: [X] Not Applicable 8. List of Equipment/Activities Regulated under Title VI: [] Attached, Document ID:	
7. List of Proposed Exempt Activities: [] Attached, Document ID: [X] Not Applicable 8. List of Equipment/Activities Regulated under Title VI: [] Attached, Document ID: [] Equipment/Activities On site but Not Required to be Individually Listed	

11. Identification of Additional Applicable Requirements:
[] Attached, Document ID: [X] Not Applicable
12. Compliance Assurance Monitoring Plan:
[] Attached, Document ID: [X] Not Applicable
13. Risk Management Plan Verification:
[] Plan Submitted to Implementing Agency - Verification Attached,
Document ID:
Plan to be Submitted to Implementing Agency by Required Date
[X] Not Applicable
fer I avera-Harman
14. Compliance Report and Plan:
[] Attached, Document ID: [X] Not Applicable

EMISSIONS POINT No.1

PRIMARY JAW CRUSHER

Emissions	Unit Information Section	on 1	of	14	

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)

(Regulated and Onlegulated Emissions Onles)
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	<u>1_</u> (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 U	Init Addressed in This Section (1	imit to 60 characters):
Cedarapids, Inc. – Model 305	54 Jaw Crusher.	
2. Emissions Unit Identification	on Number: [] No Correspo	onding ID [X] Unknown
	001	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major
Code:	[] Yes [X] No	Group SIC Code:
Couc.	[] les [A] No	_
C		14
6. Emissions Unit Comment (limit to 500 characters)	
The emission unit is a Cec	larapids, Inc. Model 3054 Jaw	Crusher.
	-	
Emissions Unit Control Equip	oment	
A.		
1. Description (limit to 200 ch	paracters):	
_ `		nit are controlled by a Water
		en the material to control any
_		ing unit. The material that is
		ntrol emissions in the grizzly
	d in the crushing unit as well	as any fugitives generated by
prevailing winds.		
2. Control Device or Method	Code:	
= Some Strive of Mellow	061, 062, and 99	
	001, 002, and 77	

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

Emissions Unit Details

1. Initial Startup Date: "After the Fa
--

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	on <u>1</u>	of	<u>14</u> .
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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.
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Emissions out futormation section 1 of 14	it Information Section 1 of 14
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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	
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	1_	of	14	
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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):
	Bottom of preliminary crushing unit.
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common: EP-001
5.	Discharge Type Code:
	[] D [X] F [] H [] P [] R [] W
6.	Stack Height: Not Applicable (Emission Point Height ~ 3-4' above surface)
7.	Exit Diameter:
8.	Exit Temperature:

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

	low Rate:	
10. Percent Water Vapo	r:~4% moisture	
11. Maximum Dry Stand	dard Flow Rate:	
12. Nonstack Emission	Point Height: ~3-4 feet	
13. Emission Point UTN	1 Coordinates:	***
Zone: 17	East (km): 454.871	North (km): 3167.856
		enerally appear at bottom of crushing

Emissions Unit Information Section	1	of	14	
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F. SEGMENT (PROCESS/FUEL) INFORMATION (Regulated and Unregulated Emissions Units)

Segment Description and Rate: Segment ___1 of __1

1.	Segment Description (Process/Fuel Type and (limit to 500 characters):	nd Associated	Operating Method/Mode)
	Cedarapids Jav	w Crushing U	J nit
<u> </u> -			
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:	ļ <u> </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7.	Maximum Percent Sulfur:	8. Maximu	ım Percent Ash:
	NA		NA
_	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
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Emissions Unit Information Section	1	01	14	
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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 [] 2 [] 3 <u>0 to 0 tons/year</u>
8.	Emission Factor: 0.00059 lb/ton
	Reference: AP-42
9.	Emissions Method Code:
	[] 1 [] 2 [X] 3 [] 4 [] 5
PN	Calculation of Emissions: $M10_{year} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.00059 \text{ lb/ton})] / 2000 \text{ lb/ton} = 0.18 \text{ ton/yr}$ $M10_{hour} = (200 \text{ ton/hr})(0.00059 \text{ lb/ton}) = 0.12 \text{ lb/hr}$

Emissions Unit Information Section 1 of 14.

Pollutant Potential/Estimated Emissions: Pollutant _____ of ____

1.	Pollutant Emitted:					
2.	Total Percent Efficiency of Control:	•				
	Primary Control Device Code:					
	Secondary Control Device Code:					
5.	Potential Emissions:	·	11	b/hour		tons/year
6.	Synthetically Limited?					
	[] Yes [] No					
7.	Range of Estimated Fugitive/Other	Em	issi	ons:		
	[] 1 [] 2]]	3	to	tons/year
8.	Emission Factor: Reference:					·
9.	Emissions Method Code:					
	[] 1 [] 2	[]	3	[] 4	[] 5
10.	. Calculation of Emissions:					
11.	. Pollutant Potential/Estimated Emiss	ion	s C	omment:		
					• •	
	•					,
	-					<u> </u>

Emissions Unit Information Section 1 of 14
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Allowable Emissions (Pollutant identified on front of page)

A.	
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:
3.	Requested Allowable Emissions and Units: < 15% Opacity per subpart 000.
4.	Equivalent Allowable Emissions: 018 lb/hour 0.12 tons/year
5.	Method of Compliance: Initial and Annual EPA Method 5 Visible Emission
	mpliance Testing
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
B.	
1.	Basis for Allowable Emissions Code
2.	Future Effective Date of Allowable Emissions:
3.	Requested Allowable Emissions and Units:
4.	Equivalent Allowable Emissions: lb/hr tons/year
5.	Method of Compliance:
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
	, , , , , , , , , , , , , , , , , , , ,
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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.

	, ,
<u>PSD</u>	Increment Consumption Determination
If the answor 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. 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	1	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 C	Control: 90%		
3.	Potential Emissions:	lb/hour	t	ons/year
4.	Synthetically Limited?			
	[] Yes [X] No			
5.	Range of Estimated Fugitive	Other Emissions:		
	[]1 []2	[] 3	to	tons/year
6.	Emission Factor:			
	Reference:			
7.	Emissions Method Code:			
	[]0 []1		[]4	[] 5
8.	Calculation of Emissions (lin	mit to 600 characters):		

Emissions Unit Information Section __1_ 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 Cons	uming/Expandir	ıg Code:		
	PM	[] C	[]E	[X] No	
	SO2	[] C	[]E	[X] No	
	NO2	[] C	[] E	[X] No	
4.	Baseline Emissi	ons: (for burning	g pit only)		
	PM .	0.18	lb/hour	0.12 tons/year	
	SO2	• •	lb/hour	tons/year	
	NO2		lb/hour	tons/year	
5.	PSD Comment:				

Emissions Unit Information Section1_	OI	14
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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: <u>III</u> [] 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
_	
٥.	Compliance Test Report
	[] Attached, Document ID:
	[] Description of the J. Description
	Previously submitted, Date:
	IV 1 Not Applicable
	[X] Not Applicable
6	Procedures for Startup and Shutdown
0.	[] Attached, Document ID: [X] Not Applicable
-	[A] Not Applicable
7.	Operation and Maintenance Plan
	[X] Attached, Document ID: VII [X] 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
	L J 11

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

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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 Unit Addressed in This Section:				
Cedarapids, Inc Model 4242 Impact Crusher				
	•			
2. ARMS Identification Num	ber: [] No Correspo	onding ID [X] Unknown		
2. ARMS Identification Num	eci. [] No Concept	manig ID [A] Chalown		
3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major		
Code: C	[] Yes [X] No	Group SIC Code: 14		
6 Initial Startum Data (DD)	(ON VVVV).	17		
6. Initial Startup Date (DD-M	ION-1111):			
7. Long-term Reserve Shutdo	own Date (DD-MON-YYYY):			
0 P 1 TI'-	NA NA			
8. Package Unit: Reclaimed As Manufacturer: Cedarapid	sphalt and Concrete Aggregate Proce ls, Inc. Model Number: 4242			
9. Generator Nameplate Ratio				
10. Incinerator Information:				
Dwell Temperature:				
Dwell Time: Incinerator Temperature:				
memerator remperature.				
11. Emissions Unit Comment:				
•	•			

Emissions Unit Control Equipment

1. Description: The fugitive emissions generated by this crushing unit are controlled by a Spray Bar System located throughout the unit, used to dampen the material to control any emissions generated in the crushing process. The material that is to be crushed is also dampened in it's stockpile as to control emissions in the crusher as well as any fugitives generated by prevailing winds. 2. Control Device or Method Code: 061, 062 and 099 B. 1. Description: C. 1. Description: 2. Control Device or Method Code: C. 2. Control Device or Method Code:	<u>A.</u>
The fugitive emissions generated by this crushing unit are controlled by a Spray Bar System located throughout the unit, used to dampen the material to control any emissions generated in the crushing process. The material that is to be crushed is also dampened in it's stockpile as to control emissions in the crusher as well as any fugitives generated by prevailing winds. 2. Control Device or Method Code: 061, 062 and 099 B. 1. Description: 2. Control Device or Method Code: C. 1. Description:	1. Description:
B. 1. Description: 2. Control Device or Method Code: C. 1. Description:	The fugitive emissions generated by this crushing unit are controlled by a Spray Bar System located throughout the unit, used to dampen the material to control any emissions generated in the crushing process. The material that is to be crushed is also dampened in it's stockpile as to control emissions in the crusher as well as any fugitives
2. Control Device or Method Code: C. 1. Description:	2. Control Device or Method Code: 061, 062 and 099
2. Control Device or Method Code: C. 1. Description:	В.
C. 1. Description:	1. Description:
C. 1. Description:	
1. Description:	2. Control Device or Method Code:
1. Description:	
1. Description:	
2. Control Device or Method Code:	•
2. Control Device or Method Code:	
2. Control Device or Method Code:	
2. Control Device or Method Code:	
2. Control Device or Method Code:	
2. Control Device or Method Code:	
2. Control Device or Method Code:	
2. Control Devide of Middle Code.	2. Control Device or Method Code:

Emissions Unit Operating Capacity

 Maximum Heat Input Rate: NON 	1.	Maximum	Heat	Input	Rate:	NON	E
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- 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 II applications involving non Title-V sources. See Instructions.)	Π
]
ŀ	This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.	
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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	
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	
	·
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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:					
	Impact Crushing Unit No.2 – EP 002					
2.	Emission Point Type Code:					
	[] 1 [] 2 [] 3 [X] 4					
	-					
3.	Descriptions of Emissions Points Comprising this Emissions Unit:					
						
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:					
	N/ A					
	NA					
Э.	Discharge Type Code:					
	[] D					
6	Stack Height: NA					
0.	ouek Height. 14A					
7.	Exit Diameter: NA					
-	·					
8.	Exit Temperature:					
	<u>-</u>					
9.	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 a Reclaimed Asphalt and Concrete Agg	nd Associated Operating Method/Mode): regate Processing Unit - Impact Crusher
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:	NA.
7.	Maximum Percent Sulfur: NA	8. Maximum Percent Ash: NA
9.	Million Btu per SCC Unit:	
10.	Segment Comment:	

1.	Segment Description (Process/Fuel Type and Associated Operating Method/Mode):			
	200 TPH - Reclaimed Asphalt and Concrete Aggregate Processing Unit - Impact Crusher			
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: Pollutant1 of1						
1. Pollutant I	Emitted: PM10	•				
2. Total Perc	2. Total Percent Efficiency of Control: 90%					
3. Primary C	3. Primary Control Device Code: 060, 062, and 099					
4. Secondary	Control Device Code:	: NA				
5. Potential F	missions:	0.12 lb/hr	0.18 ton/yr			
6. Synthetica	lly Limited?					
•	[X] No					
7. Range of I	Estimated Fugitive/Otl	her Emissions:				
[] 1	[] 2	[] 3	0 to 0 tons/year			
	Factor: 0.00059 lbs/to rence: AP-42	n				
9. Emissions	Method Code:					
[]1	[] 2	[X] 3	[] 4 [] 5			
10. Calculation of Emissions: PM10 _{year} = [(200 ton/hr)(3120 hr/yr)(0.00059 lb/ton)] / 2000 lb/ton = 0.18 ton/yr PM10 _{hour} = (200 ton/hr)(0.00059 lb/ton) = 0.12 lb/hr						
	Potential/Estimated En missions based on wo	missions Comment: orse case scenario @ hi	ghest 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):
l.	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 ___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.				
5.	Visible Emissions Comment:				
	Visiole Limbsions Comment.				

Emissions Unit Information Section 2 of 14. Visible Emissions Limitation: Visible Emissions Limitation of 1. Visible Emissions Subtype: 2. Basis for Allowable Opacity: Other 1 Rule 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:] Other [] Rule 3. Requested Allowable Opacity: **Normal Conditions:** % **Exceptional Conditions:** % Maximum Period of Excess Opacity Allowed: min/hour 4. Method of Compliance:

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 Nur	nber:	
4.	Installation Date (DD-MON-YYYY):					
5.	Performance Specification Test Date (DD-l	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 Tes	t Date (DD-MON-YYYY):
6.	Continuous Monitor Comment	:
	Continuous Monitoring Syste	em: Continuous Monitor of
1.	Parameter Code:	
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	
0.	Commuous Momitor 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 tans	the w	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. 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	1	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.

	PM	nsuming/Expandir	[] E	[X] No
	SO2	[] C	[]E	[X] No
	NO2	[] C	[] E	[X] No
4.	Baseline Emi	ssions: (for diesel	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 Commer	nt:	· · · · · · · · · · · · · · · · · · ·	

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 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:____ [] 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.3

7' X 20' TRIPLE DECK SCREENER

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 o	ne:
---------	-----

- [] 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
- [] 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:				
Cedarapids, Inc Triple Deck Screener (7 x 20').				
- '	, ,			
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		
C I W 100 / D / (DD M	ON MANAGE EL I	14		
6. Initial Startup Date (DD-M	UN-YYYY): Unknown			
7. Long-term Reserve Shutdo				
9 Dankogo Linita Dankakia Dank	NA	40 Dunancia III-i4 7 - 201 Aviale		
deck screening unit.	aimed Asphalt and Concrete Aggrega	tte Processing Unit - / 1 20° triple		
Manufacturer: Cedarapid	s, Inc.			
Model Number: 7 x 20				
9. Generator Nameplate Ratin10. Incinerator Information:	ıg:			
Dwell Temperature:				
Dwell Time:				
Incinerator Temperature:		•		
11. Emissions Unit Comment: The triple deck screening deck is located between the				
primary jaw crusher and secondary impact crusher. This unit is used to separate material into separate sizes and send them to the radial stackers or to the impact				
(secondary) crusher to be reprocessed (recrushed).				

Emissions Unit Control Equipment

<u>A.</u>				
1. Description: The triple deck screening deck is located between the primary jaw crusher as	nd			
secondary impact crusher. This unit is used to separate material into separate sizes and send them to the radial stackers or to the impact (secondary) crusher to be reprocessed				
(recrushed). Water spray bars are located at the entrance and top of the vibrating trip	ole			
deck screener 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. 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 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 triple deck screening deck is located between the primary jaw crusher and secondary impact crusher. This unit is used to separate material into separate sizes and send them to the radial stackers or to the impact (secondary) crusher to be reprocessed (recrushed). Water spray bars are located at the entrance and top of the vibrating triple deck screener to dampen the processed materials and to control any emissions generated by this process. In addition, the material that is to be crushed is also dampened in it's stockpile as to control emissions throughout the process as well as any fugitives generated by prevailing winds.

Emissions Unit Operating Schedule

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 II applications involving non Title-V sources. See Instructions.)	I	
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.)

Particular 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 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		·
02-210		
	٠.	

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 [] 3 [X] 4
3.	Descriptions of Emissions Points Comprising this Emissions Unit:
	Not Applicable
	Not Applicable
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
	NA
	D'. 1 T O. 1.
Э.	Discharge Type Code:
	[] D
6.	Stack Height: Not Applicable
7.	Exit Diameter:
8.	Exit Temperature:
0	Actual Volumetric Flow Rate:
y .	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.

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.

Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):			
Material Handling Process – Cedarapids, Inc. – 7 x 20' triple deck screener				
Source Classification Code (SCC): 14				
SCC Units: tons processed per hour				
Maximum Hourly Rate: 200 ton/hr	5. Maximum Annual Rate: 624,000 ton/yr			
	•			
N	'A			
Maximum Percent Sulfur: NA	8. Maximum Percent Ash:			
Million Btu per SCC Unit:				
Segment Comment:				
	·			
	Source Classification Code (SCC): 14 SCC Units: tons processed per hour Maximum Hourly Rate: 200 ton/hr Estimated Annual Activity Factor: N Maximum Percent Sulfur:			

1. Segment Description (Process/Fuel Type	and Associated Operating Method/Mode):
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/Esti	mated Emission	ns: Pollutant _	<u>1</u> o	of1
1.	Pollutant Emitted: PM1	0	·		
2.	Total Percent Efficiency	of Control: 90%)		
3.	Primary Control Device	Code: 061, 062 ,	and 099		
4.	Secondary Control Device	e Code: NA			
5.	Potential Emissions:		0.42 lb/hr		0.66 ton/yr
6.	Synthetically Limited?				
	[] Yes [X]]	No			
7.	Range of Estimated Fugi	tive/Other Emiss	sions:		
] 3	<u>0</u> to	0 tons/year
8.	Emission Factor: 0.0021 Reference: AP-42,				
9.	Emissions Method Code:			•	
	[] 1	2 [X] 3] 4	[] 5
10.	Calculation of Emissions	:	·····		<u>-</u>
	$110_{\text{yearly}} = [(200 \text{ ton/hr})(3)]$		21 lb/ton)] / 200	00 lb/ton = 0).66 ton/vr
	$110_{\text{hour}} = (200 \text{ ton/hr})(0.0)$			o io io	noo tom y t
	nour ()(
11.	Pollutant Potential/Estim	ated Emissions	Comment:		

Allowable Emissions

1.	Basis for Allowable Emissions Code:		
	This facility will be subject to 40 CFR, Part		
2.	Future Effective Date of Allowable Emissions	: Initial Visil	ole Emissions Complaince
Te	st		
3.	Requested Allowable Emissions and Units:		
	10 % Op	acity	
4.	Equivalent Allowable Emissions:	lb/hour	tons/year
5.	Method of Compliance: Annual EPA Method	d 9 Complian	ice Testing.
	•	. •	
6.	Pollutant Allowable Emissions Comment (Des	sc. of Related	Operating Method/Mode):
~.	(Delication of the control of		- F
1.	Basis for Allowable Emissions Code		
2.	Future Effective Date of Allowable Emissions	: :	
			1.,12.2.14
3.	Requested Allowable Emissions and Units:		
4.	Equivalent Allowable Emissions:	lb/hr	tons/year
	Y		
5.	Method of Compliance:		
6.	Pollutant Allowable Emissions Comment (De	sc. 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:
ŀ	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>
	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 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	
1. Increment Consuming for Particulate Matter or Sulfur Dioxide? If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, and the following series of questions to make a preliminary determination as to whether or not emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the statement, if any, that applies and skip remaining statements.	the
[] 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 pursua 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, ar 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 consume increment.	S
[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.	r

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	onsuming/Expandin	g Code:		
PM	[] C	[]E	[X] No	
SO2	[] C	ΓÌΕ	[X] No	
NO2	[] C	[] E	[X] No	
4. Baseline Em	issions: (for diesel g	enerator only)		· ·
PM		ur 0.66 tons/yea	ar	

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 (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:
[] Patirad Unit Evamption (Form No. 62.210.000(1)(a)?)
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:
Auacheu, Document ID
[X] Not Applicable
[2x] Not Explicate

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

Ch	eck	on	e:

- 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:				
Cedarapids Feed Conveyor (4x 30') between primary Jaw Crusher and first magnet system to transfer crushed rock from primary crusher through magnetic field onto screening conveyor.				
ARMS Identification Num	how I l No Company	adia ID IV 1 Halaasa		
2. ARIVIS Identification Num	ber: [] No Correspo	onding 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	· · · · · · · · · · · · · · · · · · ·			
7 I A D Cl. 41	Unknown			
7. Long-term Reserve Shutdo	wn Date (DD-MON-YYYY): NA			
	8. Package Unit: 4' x 30' Feed Conveyor Belt Manufacturer: Cedarapids Inc.			
9. Generator Nameplate Ratin	ıg:			
10. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Temperature :				
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:
۷.	Control Device of 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:
	Maximum Process or Throughput Rate: 200 ton/hr as crushed reclaimed concrete or phalt material (dependent on material characteristics.)
	Maximum Production Rate: 200 ton/hr as crushed reclaimed concrete or asphalt aterial (***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 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	
02-210	
	L.,

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 30' Feed Conveyor (Transfer Point)		
2.	Emission Point Type Code:		
	[] 1 [] 2 [] 3 [X] 4		
3.	Descriptions of Emissions Points Comprising this Emissions Unit:		
	Not Applicable		
	Not Applicable		
4	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
٦,	1D Numbers of Descriptions of Emission Cines with this Emission Fone in Common.		
	NA		
5.	Discharge Type Code:		
	[] D		
	[] R		
6.	Stack Height: ~5 feet		
7.	Exit Diameter: Not Applicable		
0	Evit Towns and the		
٥.	Exit Temperature:		
9	Actual Volumetric Flow Rate:		
٦.	Actual Animiente Link Kaie:		

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.	. 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:	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:		
	<u>-</u>		

Emissions Unit Information Section $\underline{4}$ of $\underline{14}$.

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):				
Not Applicable				
•				
5. Maximum Annual Rate:				
8. Maximum Percent Ash:				
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 Efficiency of Control: 90) %	
3. Primary Control Device Code: 061, 06	52, and 099	
4. Secondary Control Device Code: NA		
5. Potential Emissions:	0.10 lb/hr	0.15 ton/yr
6. Synthetically Limited?		
[] Yes [X] No		
7. Range of Estimated Fugitive/Other Em	uissions:	
		0 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. PM10 _{hourly} = (200 ton/hr)(0.00048 lb/ton)		= 0.15 ton/yr
11. Pollutant Potential/Estimated Emission	ns 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	l Emissions: Pollutant	t	of	
1.	Pollutant Emitted:				
2.	Total Percent Efficiency of Cor	ntrol:	 .		
3.	Primary Control Device Code:				
4.	Secondary Control Device Code	 			
5.	Potential Emissions:	lb/hour		tons/year	
6	Synthetically Limited?				_
o.	[] Yes [] No				
7.	Range of Estimated Fugitive/O	ther Emissions:		<u>- </u>	
	[] 1 [] 2	[] 3	_ <u>0</u> to	0 tons/year	
8.	Emission Factor: Reference:				
9.	Emissions Method Code:				_
	[]1 []2	[] 3	[] 4	[] 5	
10.	Calculation of Emissions:				
	•				
11	Pollutant Potential/Estimated E	missions Comment			
11.	1 onutant 1 otential/Estimated E	missions 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.	
	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):

Emissions Unit Information Section	4 o	f 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.

Visible Emissions Subtype:
VE
Basis for Allowable Opacity: [X] Rule [] Other
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 emissions compliance testing.
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:					
	NO	T API	PLICABLE	E		
2.	CMS Requirement:	[] Rule	[] Other	
3.	Monitor Information:					
	Manufacturer:					
	Model Number:			Serial Nu	mber:	
						
4.	Installation Date (DD-MON-YYYY)):				
-	Performance Specification Test Date	(DD I	MONI VVV			
٥.	remormance specification Test Date	(שלים)	MON-111	1).		
6.	Continuous Monitor Comment:					
i				•		
	•					

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

	3D Inciented Consumption Determination
<u>1.</u>	Increment Consuming for Particulate Matter or Sulfur Dioxide?
an	the emissions unit addressed in this section emits particulate matter or sulfur dioxidenser the following series of questions to make a preliminary determination as to whether not the emissions unit consumes PSD increment for particulate matter or sulfur dioxidenters.
	heck 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.

. Increment Cor PM SO2 NO2	nsuming/Expandir [] C [] C	[] E [] E [] E	[X] No [X] No		
<u> </u>	[] C		[X] No		
PM	0.10	lb/hour	0.15 to	ns/year	
SO2		lb/hour		ns/year	
NO2		lb/hour		ns/year	
CO .		lb/hr		ns/year	
HC		lb/hr		ns/year	
. PSD Commen	nt:				
_					

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

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			.,			

L	Ī	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).
[i	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., Screening Conveyor (4x50') used to convey crushed aggregates to Cedarapids, Inc. Triple Deck Screener.								
0 ADI								
2. ARM	S Identification Num	ber:	[] No	Corres	sponding ID) [X]	Unknown	
3. Emis Code	sions Unit Status	4. Acid R	ain Unit? Yes [X]	No		issions up SIC	Unit Major	
Couc	. •	() .	ics [A]	NO	GIC .	-	4	
6. Initia	Startup Date (DD-M	,				-		
7. Long	term Reserve Shutdo		<u>Unknown</u> D-MON-Y					
0 7 1			NA					
	ige Unit: 4'x 50' Scre facturer: Cedarapid	_	eyor Belt					
	l Number: NA	3, 11101						
9. Gene	rator Nameplate Ratin	g:						
	erator Information:							
	Temperature:							
	Dwell Time: Incinerator Temperature:							
шсш	crator remperature.							
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:
	C.
1.	Description:
2.	Control Device or Method Code:

Emissions Unit Information Section <u>5</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 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	6 days/week			
52 weeks/year	3120 hours/year			

Emissions	Unit	Informat	ion Sect	ion 5	of	14
	CHIL	THIUL MAN	1011 0000	1011	vi	47

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:					
	4' x 50' Transfer Conveyor (Drop Point @ Triple Deck Screener)					
2.	Emission Point Type Code:					
	[] 1 [] 2 [] 3 [X] 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:					
	N/ A					
	NA					
5	Discharge Type Code:					
٥.	[] 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 $\underline{5}$ of $\underline{14}$.

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):				
	-	. – 4' wide x 60' long screening conveyor. gates to triple deck screening device.			
2.	Source Classification Code (SCC): 1421				
3.	SCC Units: tons of material conveyed po	er hour			
4.	Maximum Hourly Rate: 200 ton/hr	5. Maximum Annual Rate: 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:				

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

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.	6. Estimated Annual Activity Factor:		
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:	
9.	Million Btu per SCC Unit:		
10. Segment Comment:			
E			
<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 E	missions: Pollutant	1of5
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/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
	Calculation of Emissions:		
	$110_{\text{yearly}} = [(200 \text{ ton/hr})(3120 \text{ hr/y})] 110_{\text{hourly}} = (200 \text{ ton/hr})(0.00048 \text{ lb/y})$		2000 lb/ton = 0.15 ton/yr
	. (200 ton/11)(0.00040 lb/	(10 io/iii	
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 En	nissions: Pollutan	tof_	
1.	Pollutant Emitted:			
2.	Total Percent Efficiency of Control	:		
3.	Primary Control Device Code:	-		
	Secondary Control Device Code:			
5.	Potential Emissions:	lb/hour		tons/year
6.	Synthetically Limited?			
	[] Yes [] No			
7.	Range of Estimated Fugitive/Other			
	[] 1 [] 2	[] 3	_0 to0_	tons/year
8.	Emission Factor: Reference:			
9.	Emissions Method Code:		· · · · · · · · · · · · · · · · · · ·	
	[]1 []2	[] 3	[] 4	[] 5
10.	Calculation of Emissions:			
11.	Pollutant Potential/Estimated Emis	sions 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.	1
	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 ____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
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:				· Circina con residente
	NOT	APP	PLICABLE		
2.	CMS Requirement:	[] Rule	[] Other
3.	Monitor Information: Manufacturer: Model Number:			Serial Nur	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 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.

Increment Consuming for Nitrogen Dioxide	3/	١
	• •	

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 C PM	Consuming/Expandi [] C	ng Code: [] E	[X] No	
SO2	[] C	[] E	[X] No	
NO2	[] C	[] E	[X] No	
. Baseline En	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	
. 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:_____ [] 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 (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:
[] Nov. Unit Francotion (Franco No. (2.210.000(1)(a)2.)
[] New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID:
Attaclica, Document ib.
[] 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

C.	neck 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:				
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 Num	ham I l Na Come			
2. ARMS Identification Num	ber: [] No Corres	sponding 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	ION-YYYY): Unknown	•		
7. Long-term Reserve Shutdo		· · · · · · · · · · · · · · · · · · ·		
8. Package Unit: 4' x 60' Oversize Belt Manufacturer: Cedarapids, Inc. Model Number: 4x60				
9. Generator Nameplate Ratir	ng:			
10. Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Temperature:				
	from Cedarapids, Inc Trip	Belt (4' x 60') utilized to le Deck Screener to Cedarapids, generated 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.
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.
4. Maximum Production Rate: 200 ton/hr as crushed reclaimed concrete or asphalt material.
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.

Emissions Unit Operating Schedule

	Requested	Maximum	Operating	Schedu	le:
- 1					

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 applications involving non Tit	(Required for Category II applications and Category III tle-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:
	4' x 60' Oversize Belt (Drop Point from Screener to belt)
2.	Emission Point Type Code:
	[] 1 [] 2 [] 3 [X] 4
3.	Descriptions of Emissions Points Comprising this Emissions Unit:
	NT 4 4 P 11
	Not Applicable
_	TO M. I Description of Emission Units with this Emission Point in Common:
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
	NA
	11/2
5	Discharge Type Code:
٦.	[] D [X] F [] H [] P
6.	Stack Height: 0 feet
7.	Exit Diameter: Not Applicable
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: ~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:	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 a	and Associated Operating Method/Mode):
	Not A	pplicable
		•
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>
		·
L		

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 5
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: 0.10 lb/hr 0.15 ton/yr
6.	Synthetically Limited? [] Yes [X] No
7.	Range of Estimated Fugitive/Other Emissions: [] 1
,	Emission Factor: 0.00048 lbs/ton Reference: AP-42
9.	Emissions Method Code: [] 1
PM PM	Calculation of Emissions: 110 _{yearly} = [(200 ton/hr)(3120 hr/yr)(0.00048 lb/ton)] / 2000 lb/ton = 0.15 ton/yr 110 _{hourly} = (200 ton/hr)(0.00048 lb/ton) = 0.10 lb/hr
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 Emi	issic	ons: Polluta	ant	_ 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 E	Emi:		_0tc	00	tons/year
8.	Emission Factor: Reference:					
9.	Emissions Method Code:				·	
		[] 3	[] 4	[] 5
10.	. Calculation of Emissions:					
11.	. Pollutant Potential/Estimated Emissi	ions	s 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):
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:
	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):

Emissions Unit Information Section	6	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

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:
ĺ	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	APF	LI	CABLE	2		
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.

ec		as	nt. PSD increment is consumed (or expanded) as a result of emission increases es) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates en established are sulfur dioxide, particulate matter, and nitrogen dioxide.
:	1. If ans	Inth	Increment Consumption Determination necrement Consuming for Particulate Matter or Sulfur Dioxide? e emissions unit addressed in this section emits particulate matter or sulfur dioxide, wer 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.
ļ	[]	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	Ĭ	C	: C	NT:4	D::1.0
<u>Z</u>	<u>Increment</u>	Consum	nng tor	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.

Baseline Emissions: (for diesel generator only) PM lb/hour tons/year SO2 lb/hour tons/year NO2 lb/hour tons/year	PM SO2 NO2	[] C	[]E []E	[X] No [X] No
SO2 lb/hour tons/year NO2 lb/hour tons/year	. Baseline Em		generator only)	
NO2 lb/hour tons/year				•
			lb/hour	tons/year
CO lb/hr tons/year	NO2		lb/hour	tons/year
tolis/year	CO		lb/hr	tons/year
HC lb/hr tons/year	HC		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: 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 (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.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

Check of	0	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 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	ber: [] No Correspo	onding 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	•	<u> </u>		
7. Long-term Reserve Shutdo	Unknown wn Date (DD-MON-YYYY): NA			
8. Package Unit: 4' x 65' Material Conveyor Manufacturer: Cedarapids, Inc. Model Number: 4x65				
9. Generator Nameplate Rating:				
10. Incinerator Information: 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:
	C.
1.	Description:
2.	Control Device or Method Code:

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate: None
2.	Maximum Incineration Rate:
	Maximum Process or Throughput Rate: ~ 200 ton/hr as crushed reclaimed concrete or chalt material (***dependent on material characteristics).
	Maximum Production Rate: ~ 200 ton/hr as crushed reclaimed concrete or asphalt terial.
	Operating Capacity Comment: * Material characteristics consist of 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 applications involving non Title-V sources. See Instructions.)	III	
This facility will be subject to 40 CFR, Part 60, subpart 000 rules and regulations.		
	ļ	

<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	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:
	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:
	Not Applicable
_	ID Numbers on Descriptions of Emission Units with this Emission Doint in Common.
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
	NA
	* 1** -
5.	Discharge Type Code:
	[] D [X] F [] H [] P
6.	Stack Height: ~0 feet
7.	Exit Diameter: Not Applicable
0	Evit Temperature:
0.	Exit Temperature:
9	Actual Volumetric Flow Rate:
٠.	1 Diam Diaming 1 10 11 1000.

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.

1.	Segment Description (Process/Fuel Type a	nd Associated Operating Method/Mode):
crı	-	aterial 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 pe	r hour
4.	Maximum Hourly Rate: 200 ton/hr	5. Maximum Annual Rate: 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:	
	· · · · · · · · · · · · · · · · · · ·	

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:	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 of 5				
1.	Pollutant Emitted: PM10				
2.	Total Percent Efficiency of Control: 90 %				
3.	Primary Control Device Code: 061, 062, and 099				
	Secondary Control Device Code: NA				
	Potential Emissions: 0.10 lb/hr 0.15 ton/yr				
6.	Synthetically Limited? [] Yes [X] No				
7.	Range of Estimated Fugitive/Other Emissions: [] 1				
	8. Emission Factor: 0.00048 lbs/ton Reference: AP-42				
9.	Emissions Method Code: [] 1				
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 Emissions Comment:				

Emissions Unit Information Section 7 of	f 14	14	į
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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:	
	Potential Emissions: lb/hour tons/year	
6.	Synthetically Limited? [] Yes [] No	
7.	Range of Estimated Fugitive/Other Emissions: [] 1	r
8.	Emission Factor: Reference:	
9.	Emissions Method Code:	
10.	Calculation of Emissions:	
	P. II	
11.	Pollutant Potential/Estimated Emissions Comment:	
<u>-</u>		_

Emissions Unit Information Section __7 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 Com	pliance Test			
3.	3. Requested Allowable Emissions and Units:				
	10 % Opacity				
4.	4. Equivalent Allowable Emissions:	tons/year			
5.	5. Method of Compliance: Annual EPA Method 9 Co	ompliance testing.			
6.	6. Pollutant Allowable Emissions Comment (Desc. of F	Related Operating Method/Mode):			
<u> </u>					
1.	1. Basis for Allowable Emissions Code				
2.	2. Future Effective Date of Allowable Emissions:				
3.	3. Requested Allowable Emissions and Units:				
4.	4. Equivalent Allowable Emissions: lb/hr	tons/year			
5.	5. Method of Compliance:				
	(P.H. , All 11 P. ; C. , C. C.	1.10			
О.	6. Pollutant Allowable Emissions Comment (Desc. of R	Related Operating Method/Mode):			
		•			

Emissions	Unit	Information	Section	7	οf	14
	OHIL	THIOI MHUVII	Dection		VI	17 .

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 Limit	ation <u>1</u> of <u>1</u>	
1.	Visible Emissions Subtype:		-	
l		VE		
2.	Basis for Allowable Opacity:	[X] Rule	[] Other	
3.	Requested Allowable Opacity:			
	Normal Conditions: 10 %	Exceptional Conditions	: 10 %	
	Maximum Period of Excess Opa	_		
4.	Method of Compliance:		·· ·	
	Annual EPA Meth	od 9 visible emissions co	mpliance testing.	
	TU'ILD' C			
5.	Visible Emissions Comment:			
				•

Emissions Unit Information Section __7 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-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 PSD increment is consumed (or expanded) as a result of emission increases (decreases) occurring after pollutant-specific baseline dates. Pollutants for which baseline dates

e c	ee	en established are sulfur dioxide, particulate matter, and nitrogen dioxide.
1. If an or	th 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, wer 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 7 of 14. 2. Increment Consuming for Nitrogen Dioxide?

emissions unit consumes increment.

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
- [] 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.

commence) construction after February 8, 1988. If so, baseline emissions are zero, and

- [] 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	[] C [] C	[]E []E	[X] No [X] No	
NO2	[] C	[] E	[X] No	
4. Baseline Emissions: (for diesel generator of		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	nt:	,		

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
<u> </u>	[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 ___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:
[] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID:
[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, process or production unit, or activity, which production that at least one definable emission point (stack or vertical).	ces one or more air pollutants and which
[] This Emissions Unit Information Section addresses, individually-regulated emission point (stack or ventunit, or activity, which also has other individually-regulated emission point (stack or ventunit, or activity, which also has other individually-regulated emission).) serving a single process or production
Γ	This Emissions Unit Information Section addresses,	as a single emissions unit, a

[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.

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. Description of Emissions Unit Addressed in This Section: Cerdarapids, Inc 4' x 90' Portable Radial Stacking Belt (Transfer Belt) - used to convey or stack finished aggregate in stockpiles or in trucks.					
2.	ARMS Identification Number	ber: [] 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	,			
7	Long torm Dogowio Chutdo	Unknown			
/.	Long-term Reserve Shutdo	wn Date (DD-MON-YYYY):			
	NA B. Package Unit: 4' x 90' Portable Radial Stacking Belt (Transfer Point) Manufacturer: Ceadarpids, Inc. Model Number: 4x90				
9.	Generator Nameplate Ratin	g: NA			
10.	Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Temperature:	, , , , , , , , , , , , , , , , , , ,	-		
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 Information Section 8 of 14

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, all 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
В.
1. Description:
2. Control Device or Method Code:
C.
1. Description:
·
2. Control Device or Method Code:

Emissions Unit Operating Capacity

 Max 	kimum	Heat	Input	Rate:	N	ON	E
-------------------------	-------	------	-------	-------	---	----	---

- 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
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:
٥.	Descriptions of Dimesions Forms comprising this Dimesions of the
	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: NOT APPLICABLE
7.	Exit Diameter:
0	Pois Tr
Ŏ.	Exit Temperature:
-	Actual Volumetria Elem Dete
ヺ.	Actual Volumetric Flow Rate:

Emissions Unit Information Section 8 of 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 East (km): 454.871 North (km): 3167.856					
14. Emission Point Comment:					
Emissions Point will be fugitive only, if any emissions are general	ted 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 of this subsection of the Application for Air Permit.					
1.	1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):				
Material Handling - 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.					
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 Associated Operating Method/Mode):				
NOT APP	PLICABLE			
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, TSP 2. Total Percent Efficiency of Control: 90 % 3. Primary Control Device Code: 061, 062 and 099 4. Secondary Control Device Code: NA 0.10 lb/ton 0.15 ton/yr 5. Potential Emissions: 6. Synthetically Limited? [X] Yes [] No 7. Range of Estimated Fugitive/Other Emissions: 0 to $\underline{0}$ tons/year [] 1 [] 3 [] 2 8. Emission Factor: 0.00048 lbs/ton Reference: AP-42 9. Emissions Method Code: [] 4 [] 5 [] 1 [] 2 [X] 3

10. Calculation of Emissions:

 $PM10_{yearly} = \left[(200 \ ton/hr)(3120 \ hr/yr)(0.00048 \ lb/ton) \right] / 2000 \ lb/ton = 0.15 \ ton/yr \\ PM10_{hourly} = (200 \ ton/hr)(0.00048 \ lb/ton) = 0.10 \ lb/hr$

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: _0_ to _0_ tons/year [] 1 [] 2 [] 3 8. Emission Factor: Reference: 9. Emissions Method Code: [] 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:			
	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			
_	Material Country			
٥.	Method of Compliance:			
4	Pollutant Allowakla Emissions Comment (Door of Polated Operating Method Meda):			
0.	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:

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:					
ŀ	Manufacturer:					
	Model Number:			Serial Nu	mber:	
4.	Installation Date (DD-MON-YYYY):					
5.	5. Performance Specification Test Date (DD-MON-YYYY):					
6.	Continuous Monitor Comment:			•	· m.	
	•					

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 tans	the sw no lec	recrement Consuming for Particulate Matter or Sulfur Dioxide? The 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 the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. 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 $\ \odot$ 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 8 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.					
	emissions unit began initi	al operation after Fe	ussified as an EPA major source, and bruary 8, 1988, but before March 28 emissions unit consumes increment.	3,		
		_ ,	vill begin) initial operation after Mand emissions unit consumes increm			
	nonzero. In such case, ad	ditional analysis, be her changes in emiss	missions of the emissions unit are yond the scope of this application, is sions have occurred (or will occur) a increment.			
3.	Increment Consuming/Expandi	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	1		
	SO2	Ib/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)					
<u> </u>					
[] 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 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: 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 Num	oer:	[] No Corre	sponding ID [X] Unknown
3.	Emissions Unit Status Code: C	4. Acid R	ain Unit? 'es [X] No	5. Emissions Unit Major Group SIC Code: 14
6.	Initial Startup Date (DD-M	,	: J nknown	
7	Long town Dogowa Chutdo			
/.	Long-term Reserve Shutdo	wn Date (Di	NA	
8.	Package Unit: 4' x 80' Por Manufacturer: Cedarapid Model Number: 4x80		l Stacking Belt (Transfer Point)
9.	Generator Nameplate Ratin	g:	NA	
10.	Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Temperature:		10000000	
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>	
1. Description:	
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	
triple deck screening device. All uncrushed material is dampened in its sto	
control emissions in the conveying, screening and crushing process.	expire as to
control 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:	
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

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

	Zimission I one 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	
	<u> </u>	
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
	·	
	NA	
	A 14.A	
5	Discharge Type Code:	_
٥.		
	· · · · · · · · · · · · · · · · · · ·	
	[] R [] V [] W	
		_
6.	Stack Height: NOT APPLICABLE	
7.	Exit Diameter:	
8.	Exit Temperature:	_
٠.	remperature,	
<u> </u>	Actual Volumetrie Eleve Deter	_
7 .	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	•
14. Emission Point Comment:	
Emissions Point will be fugitive only, if any emissions are gener	ated 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.

det	ails on this subsection of the Application for	Air Permit.
1.	Segment Description (Process/Fuel Type ar	d Associated Operating Method/Mode):
fin Su	ished product into stockpiles or trucks. ppression System at triple deck screening	al Stacking Belt - utilized to convey or stack Material dampened by a Water Spray Dust device. All uncrushed material is dampened conveying, screening and crushing process.
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:	
	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.	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 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: 0 to 0 tons/year [] 2 [] 3 [] 1 8. Emission Factor: 0.00048 lbs/ton Reference: AP-42 9. Emissions Method Code: [**X**] 3 [] 1 [] 4 [] 5 []2 10. Calculation of Emissions: $PM10_{vearly} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.00048 \text{ lb/ton})] / 2000 \text{ lb/ton} = 0.15 \text{ ton/yr}$ $PM10_{hourly} = (200 ton/hr)(0.00048 lb/ton) = 0.10 lb/hr$ 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 Contro	ol:		\
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	r Emissions:		
[] 1 [] 2	[] 3	_0to	0 tons/year
8. Emission Factor: Reference:			-
9. Emissions Method Code:			
[] 1 [X] 2	[] 3	[] 4	[] 5
10. Calculation of Emissions:			
11. Pollutant Potential/Estimated Emis	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.			
2.				
	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):			
<u> </u>	De Calle du Prince Cal			
1.	Basis for Allowable Emissions Code			
-	Future Effective Date of Allowable Emissions:			
۷.	ruture Effective Date of Affowable Emissions.			
3.	Requested Allowable Emissions and Units:			
J.	Requested Allowable Ellissions and Ollits.			
4.	Equivalent Allowable Emissions: lb/hr tons/year			
7.	Equivalent / 110 wable Emissions.			
5	Method of Compliance:			
"				
6	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):			
Ŭ.	Condition of the state of the s			

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.	2. Basis for Allowable Opacity: [X] Rule []	Other
3.	3. Requested Allowable Opacity:	
	Normal Conditions: 10 % Exceptional Conditions: 10 %	•
	Maximum Period of Excess Opacity Allowed: 0 min/hour	
4.	4. Method of Compliance:	
	Annual EPA Method 9 visible emission compliance to	esting.
	·	
5.	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:				
1	Manufacturer:				
	Model Number:		Serial Number:		
_	Total Latin Date (DD MON MAN)	V			
4.	Installation Date (DD-MON-YYY)	1):			
5	Performance Specification Test Da	ite (DD-MON-YYY	<u></u>		
	Terrormance Specification Test Da		1).		
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 tans	he sw nc	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 $\underline{9}$ of $\underline{14}$

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.			ns pplies
	[] 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.			13,
	[] 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, is sions have occurred (or will occur) at d increment.	
3.	Increment Consuming/Expanding	ng Code:		
	PM [] Ĉ	[]E	[X] No	
	SO2 [] C	[]E	[X] No	
	NO2 [] C	[] E	[X] No	
4.	Baseline Emissions:			\dashv
-•	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
- [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 Information Section $\underline{10}$ of $\underline{14}$

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.			
2.	ARMS Identification Numb	ber: [] No Corresp	onding 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-Me	•	
		Unknown	
7.	Long-term Reserve Shutdov	wn Date (DD-MON-YYYY):	
		NA NA	
7.		table Radial Stacking Belt	
	Manufacturer: Cedarapids	s, Inc.	
	Model Number: 4x60		
9.	Generator Nameplate Ratin	g: NA	
10.	Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Temperature:		
11. Emissions Unit Comment: 4' x 60' 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>
1.	Description:
	k 60' Portable Radial Stacking Belt - utilized to convey or stack finished product into
	ckpiles or trucks. Material dampened by a Water Spray Dust Suppression System at
	ole deck screening device. All uncrushed material is dampened in its stockpile as to
	strol emissions in the conveying, screening and crushing process.
_	0 - 10 - 14 10 1 04 040 1000
2.	Control Device or Method Code: 061, 062 and 099
<u> </u>	B.
1.	Description:
2.	Control Device or Method Code:
	C.
1.	Description:
	$oldsymbol{\cdot}$
<u> </u>	
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.

Emission Point Description and Type

	Emission I out Description and Type		
1.	Identification of Point on Plot Plan or Flow Diagram:		
	4' x 60' 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:		
••	Trained of Society from of Simbolon Circle Wall and Emission Tomain Common.		
	NA NA		
5.	Discharge Type Code:		
	[] R		
6.	Stack Height: NOT APPLICABLE		
7.	Exit Diameter:		
8.	Exit Temperature:		
9.	Actual Volumetric Flow Rate:		

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 gene	erated 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.

de	details on this subsection of the Application for Air Permit.		
1.	Segment Description (Process/Fuel Type ar	nd Associated Operating Method/Mode):	
fin Su	ished product into stockpiles or trucks. ppression System at triple deck screening	al Stacking Belt - utilized to convey or stack Material dampened by a Water Spray Dust device. All uncrushed material is dampened 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:		
	7	ÍA	
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:	
9.	Million Btu per SCC Unit:		
10.	Segment Comment:		
,			

1. Segment Description (Process/Fuel Type ar	. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):		
NOT APP	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:	. Million Btu per SCC Unit:		
10. Segment 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 Emissions: Pollutant ____1 ___ of ___1___ 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: 0 to 0 tons/year [] 2 [] 3 8. Emission Factor: 0.00048 lbs/ton Reference: AP-42 9. Emissions Method Code: [X] 3 [] 5 [] 1 [] 2 [] 4 10. Calculation of Emissions: $PM10_{vearly} = [(200 \text{ ton/hr})(3120 \text{ hr/yr})(0.00048 \text{ lb/ton})] / 2000 \text{ lb/ton} = 0.15 \text{ ton/yr}$ $PM10_{hourly} = (200 ton/hr)(0.00048 lb/ton) = 0.10 lb/hr$ 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	d:						
2.	Total Percent Ef	ficiency of Contro	1:					
3.	Primary Control	Device Code:						
4.	Secondary Contro	ol Device Code:						
5.	Potential Emission	ons:		lb/hour			ton	s/year
6.	Synthetically Lin	nited?						
•	[] Yes							
7.	Range of Estima	ted Fugitive/Other	Emi	issions:				
	[] 1	[] 2	[] 3	_0_	_ to _	0	_ tons/year
8.	Emission Factor: Reference:			•				
9.	Emissions Metho	od Code:						
	[] 1	[X] 2	[] 3	[]	4		[] 5
10.	Calculation of Er	missions:					·	
11.	Pollutant Potenti	al/Estimated Emis	sion	s Comment:		<u>.</u>		· .
		ar and and and and		o committee.				

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.	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			
L_				
5.	Method of Compliance:			
<u> </u>				
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
L	
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 APPLI	CABLE			
2.	CMS Requirement:	[]	Rule	[] Other	
3.	Monitor Information: Manufacturer:					
	Model Number:		:	Serial Nu	mber:	
4.	Installation Date (DD-MON-YY	YY):				
5.	Performance Specification Test I	Date (DD-MC	N-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 an	the sw no nec	recrement Consuming for Particulate Matter or Sulfur Dioxide? 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.

3.

2.	Increment	Consumi	ing 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 Consuming/Ex	nanding Code:				
	C []E	[X] No			
SO2 [] (C []E	[X] No			
	C []E	[X] No			
Baseline Emissions:					
PM	lb/hour	tons/year			
SO2	Ib/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

	Supplemental Requirements for An 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
1	[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.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

e	mi	s subsection of the Application for Air Permit form provides general information on the ssions unit addressed in this Emissions Unit Information Section, including information on type, control equipment, operating capacity, and operating schedule of the emissions unit.
•		Type of Emissions Unit Addressed in This Section
		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 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:			
Caterpillar Machinery Corporation - Model 3412, 800 kW Generator Set fired on No.2 virgin diesel fuel with a maximum sulfur limit of 0.5% by weight			
2.	ARMS Identification Num	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	•	
7	I and town Dogowa Chutdo	Unknown	·
/.	Long-term Reserve Shutdo	wn Date (DD-MON-YYYY): NA	
8.	8. Package Unit: Generator Set Manufacturer: Caterpillar Machinery Corporation Model Number: 3412		
9.	9. Generator Nameplate Rating: 800 kW		
10. 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
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J	
ĺ	
l	
ĺ	
2.	Control Device or Method Code:
	· · · · · · · · · · · · · · · · · · ·
	B.
1.	Description:
2.	Control Device or Method Code:
	C
1	Description:
١	bescription.
	·
2.	Control Device or Method Code:
۲۰ ا	Condoi Device of Method Code:
I	

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate: 6.21 MMBTU/hr
2.	Maximum Incineration Rate:
	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:
cru sul:	terpillar Machinery Corporation -Generator Set used to supply power to entire ishing facility. Generator Set fired on "off-road" virgin No.2 Fuel Oil with a maximum fur content of 0.5 % by weight, ~138,000 BTU/gal and a maximum fuel consumption 30 gallons per hour.
	Emissions Unit Operating Schedule
Dag	quarted Maximum Operating Schodule.

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
3.	Descriptions of Emissions Points Comprising this Emissions Unit:
	NOT APPLICABLE
	NOTATEICABLE
4	ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
••	15 Prairies of Boothphons of Editional Will also Ballisten Ferral III comments
	NA
5.	Discharge Type Code:
	[] D
6.	Stack Height: ~ 15'
7.	Exit Diameter: ~ 8"
0	Frit Townsontone, NA
ð.	Exit Temperature: NA
0	Actual Volumetric Flow Rate: 5265 cfm
Э.	Actual volumetric flow Rate. 5205 cim

10. Percent Water Vapor: unknown		
11. Maximum Dry Standard Flow Rate: unkn	0Wn	
12. Nonstack Emission Point Height: NA	feet	
13. Emission Point UTM Coordinates:		
Zone: 17 East (km): 454.871 No	orth (km): 3167.856	
14. Emission Point Comment:		
crushing facility. Generator Set fired or	erator Set used to supply power to entire virgin "off-road" No.2 Fuel Oil with a ght, ~ 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.	2. Source Classification Code (SCC): 20200401		
3.	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:		
	NA		
7.	Maximum Percent Sulfur:	8. Maximum Percent Ash:	
	0.50 %	Neg.	
9.	Million Btu per SCC Unit:		
	138.0 MMB	TU/SCC Unit	
10.	10. Segment Comment:		
	· ·		

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):		
NOT AP	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

	Pollutant Potential/Estimated Emissions: Pollutant1 oi5
1.	Pollutant Emitted: PM10
2.	Total Percent Efficiency of Control: NONE
3.	Primary Control Device Code: NA
4.	Secondary Control Device Code: NA
5.	Potential Emissions: 1.28 lb/hr or 2.00 ton/hr
6.	Synthetically Limited?
	[] Yes [X] No
7.	Range of Estimated Fugitive/Other Emissions:
	[] 1 [] 2 [] 3
8.	Emission Factor: 0.31 lb/MMBTU Reference: AP-42
9.	Emissions Method Code:
	[.]1 []2 [X]3 []4 []5
10	Calculation of Emissions:
	PM10 = (30 gal/hr fuel use)(138,000 BTU/gal) = 4.14 MMBTU/hr (4.14 MMBTU/hr)(0.31 lb/MMBTU) = 1.28 lb/hr (1.28 lb/hr)(3120 hrs/yr) / 2000 lb/ton = 2.00 ton/yr
11	Pollutant Potential/Estimated Emissions Comment:

E. POLLUTANT INFORMATION

	Pollutant Potenti	ial/Estimated Em	issions: Pollutant	of	_5
1.	Pollutant Emitted	: NOx			
2.	Total Percent Effi	ciency of Control:	NONE		
3.	Primary Control I	Device Code: NO	NE		
4.	Secondary Control	Device Code:			1
5.	Potential Emission	ns:	18.26 lb/hour		28.49 tons/year
6.	Synthetically Limi	ited?			
	[] Yes	[X] No			
7.	Range of Estimate	ed Fugitive/Other	Emissions:		
	[] 1	[] 2	[] 3	_0 to0	tons/year
8.	Emission Factor:	4.41 lb/MMBTU	·		
	Reference:	AP-42			
9.	Emissions Method	d Code:			
	[] 1	[] 2	[X] 3	[] 4	[] 5
10.	Calculation of Em	issions:			
NO	0x = (30 gal/hr) (13)	38,000 BTU/gal) :	= 4.14 MMBTU/ga	al	
			MBTU) = 18.26 lb/		
		, ,	00 lb/ton = 28.49 to		
	(2011, 10	· y -	
	·			<u></u>	
11.	Pollutant Potential	l/Estimated Emiss	ions Comment:		

E. POLLUTANT INFORMATION

	Pollutant Potential/Estimated En	nissions: Pollutant _	_3 of _5
1.	Pollutant Emitted: CO		
2.	Total Percent Efficiency of Contro	l: NONE	
3.	Primary Control Device Code: NC	DNE	
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/Other [] 1 [] 2	Emissions:	0 to 0 tons/year
8.	Emission Factor: 0.95 lb/MMBTU Reference: AP-42	IJ	
9.	Emissions Method Code:		
	[]1 []2	[X] 3 [] 4 [] 5
	Calculation of Emissions:		
CC) = (30 gal/hr) (138,000 BTU/gal) = (4.14 MMBTU/hr) (0.95 lb/M (3.93 lb/hr)(3120 hrs/yr) / 2000	(MBTU) = 3.93 lb/hr	
11.	Pollutant Potential/Estimated Emis	ssions Comment:	

E. POLLUTANT INFORMATION

	ronutant Potential/Estima	ted Emissions: Pollutant4	015
1.	Pollutant Emitted: SOx	1	
2.	Total Percent Efficiency of C	Control: NONE	
3.	Primary Control Device Cod	e: NONE	
4.	Secondary Control Device Co	ode:	
5.	Potential Emissions:	1.20 lb/hour	1.87 tons/year
6.	Synthetically Limited?		
	[] Yes [X] No		
7.	Range of Estimated Fugitive	Other Emissions:	
	[]1 []2	[] 3 <u>0</u> to	0tons/year
8.	Emission Factor: 0.29 lb/MI Reference: AP-42	MBTU	,
9.	Emissions Method Code:		
	[]1 []2	[X] 3 [] 4	[] 5
10.	Calculation of Emissions:		
SO		U/gal) = 4.14 MMBTU/gal 0 lb/MMBTU) = 1.20 lb/hr 1 / 2000 lb/ton = 1.87 ton/yr	
11.	Pollutant Potential/Estimated	Emissions Comment:	

E. POLLUTANT INFORMATION

Pollutant Potential/Estimated	Emissions: Poliuta	ut 5	_015
1. Pollutant Emitted: TOC total		venil **	
2. Total Percent Efficiency of Con	trol: NONE		
3. Primary Control Device Code:	NONE		
4. Secondary Control Device Code	:		
5. Potential Emissions:	1.49 lb/hou	ır	2.32 tons/year
6. Synthetically Limited? [] Yes [X] No			
7. Range of Estimated Fugitive/Of	ther Emissions:	_ <u>0</u> to	0 tons/year
8. Emission Factor: 0.36 lb/MMI Reference: AP-42	BTU		
9. Emissions Method Code: [] 1 [] 2	[X] 3	[] 4	[] 5
10. Calculation of Emissions: TOC = (30 gal/hr) (138,000 BTU/	lb/MMBTU) = 1.49 2000 lb/ton = 2.32 t	lb/hr	

Allowable Emissions

1.	Basis for Allowable Emissions Code:				
	RULE				
2.	Future Effective Date of Allowable Emissions:				
Ļ	Initial Emissions Compliance Test				
3.	1				
<u> </u>	<pre></pre>				
7.	Equivalent Allowable Emissions: tons/year				
5.	Method of Compliance: Annual EPA Method 9 Compliance testing.				
	one confirmed to the co				
Ì					
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):				
<u> </u>					
1.	Basis for Allowable Emissions Code				
2.	Future Effective Date of Allowable Emissions:				
3.	Degraphed Allowable Conjugate and LL-ite.				
۶.	Requested Allowable Emissions and Units:				
4.	Equivalent Allowable Emissions: lb/hr tons/year				
	Equivalent The Waste Emissions.				
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: < 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:			
	NO'	T APP	LICABLE	C
2.	CMS Requirement:	[] Rule	[] Other
2	7. T. C.			- H-
3.	Monitor Information:			
	Manufacturer:			
	Model Number:			Serial Number:
4.	Installation Date (DD-MON-YYYYY)):		
5.	Performance Specification Test Date	(DD-l	MON-YYY	Y):
	-	`		,
6.	Continuous Monitor Comment:			
				j

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 tans	he 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 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.
ſΧ	1	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

[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.

28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

	PM SO2	[] C [] C	[]E []E	[X] No	
		1 1 -			
	NO2	[] C	[] E	[X] No [X] No	
4. B	aseline Emission	ons:			
	PM		lb/hour	tons/year	
	SO2		lb/hour	tons/year	
	NO2		lb/hour	tons/year	
5. PS	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
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.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	per: [] 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	•	nown		
7	Long-term Reserve Shutdo				
	Long-term reserve bliddo	•	(A.		
8.	8. Package Unit: Not Applicable Manufacturer: Model Number:				
9.	9. Generator Nameplate Rating:				
10.	Incinerator Information: Dwell Temperature: Dwell Time: Incinerator Temperature:				
Fu sce		ed continuousl	y by a water tru	ions based on a worst case ick. Vehicular traffic speed is	

Emissions Unit Control Equipment

<u>A.</u>	
 Description: Fugitive Emissions from Unpaved Haul Roads – emissions based on a worst scenario. All roads are watered continuously by a water truck. Vehicular traffic sp posted and enforced at a maximum of 5 m.p.h. 	
2. Control Device or Method Code: 099	
В.	
1. Description:	
	i
C. A. I.P. day Malada I.	
2. Control Device or Method Code:	
C.	
1. Description:	
2. Control Device or Method Code:	
2. Control Device of 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:
Al	Operating Capacity Comment: emissions at all. Fugitive Emissions from Unpaved Sites missions based on a worse case scenario. All roads are watered continuously by a
1	er truck. Vehicular traffic speed is posted and enforced at a maximum of 5 m.p.h.
1	
Wi	er truck. Vehicular traffic speed is posted and enforced at a maximum of 5 m.p.h.
Wi	er truck. Vehicular traffic speed is posted and enforced at a maximum of 5 m.p.h. 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.

<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.)

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.

1. Identification of Point on Plot Plan or Flow Diagram: Unpaved/Paved Haul Roads 2. Emission Point Type Code: [] 1	t in Common:
 Emission Point Type Code: [] 1 [] 2 [] 3 [X] 4 Descriptions of Emissions Points Comprising this Emissions Unit: NOT APPLICABLE ID Numbers or Descriptions of Emission Units with this Emission Point in the Comprising Comprising this Emission Point in the Comprising Comprising this Emission Point in the Comprising Compris	in Common:
[] 1 [] 2 [] 3 [X] 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	t in Common:
[] 1 [] 2 [] 3 [X] 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	t in Common:
NOT APPLICABLE 4. ID Numbers or Descriptions of Emission Units with this Emission Point in	t in Common:
NOT APPLICABLE 4. ID Numbers or Descriptions of Emission Units with this Emission Point in	t in Common:
4. ID Numbers or Descriptions of Emission Units with this Emission Point is	t in Common:
4. ID Numbers or Descriptions of Emission Units with this Emission Point is	t in Common:
•	t in Common:
NA	
NA	
5. Discharge Type Code:	
[] D [X] F [] H [] P	
[] R	
6. Stack Height:	
· · · · · · · · · · · · · · · · · · ·	
6. Stack Height:7. Exit Diameter:	
7. Exit Diameter:	
· · · · · · · · · · · · · · · · · · ·	
7. Exit Diameter:	

10. Percent Wate	er Vapor:	
11. Maximum D	Ory Standard Flow Rate:	
12. Nonstack Er	mission Point Height: Gr	oundlevel
13. Emission Po	int UTM Coordinates:	· · · · · · · · · · · · · · · · · · ·
Zone: 17	East (km): 454.871	North (km): 3167.856
14. Emission Po	int Comment:	
_	<u>-</u>	paved Haul Roads – emissions based on a worst
case scenario.	<u>-</u>	ntinuously by a water truck. Vehicular traffic

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):				
0 0	from Unpaved and paved Haul Roads – all roads are watered continuously by a water enforced at a maximum of 5 m.p.h.			
2. Source Classification Code (SCC): 1421				
3. SCC Units: Vehicle miles traveled				
4. Maximum Hourly Rate:	5. Maximum Annual Rate:			
0.32 lb/hr	0.50 ton/yr			
6. Estimated Annual Activity Factor:				
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 and Associated Operating Method/Mode):					
NOT AP	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:					

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

E. POLLUTANT INFORMATION

Pollutant Potential/Estimate	a Emissions: Pollu	tant1 01	
1. Pollutant Emitted: PM10			
2. Total Percent Efficiency of Co	ontrol: 90 % (AP-42	section 13.2.2-26 re	eference 18)
3. Primary Control Device Code	: 009		
4. Secondary Control Device Cod	le: NA		
5. Potential Emissions: without with co	controls : 2.0lb/VM atrols : 0.2 lb/VMT	IT	
6. Synthetically Limited?			
[] Yes [X] No			
7. Range of Estimated Fugitive/C	Other Emissions:		
_	[] 3	_ <u>0</u> to	0tons/year
8. Emission Factor: 0.2 lb/VMT			
Reference: AP-42 Section	on 13.2.1.1 Unpave	d Roads	
9. Emissions Method Code:			
[]1 []2	[X] 3	[] 4	[] 5
10. Calculation of Emissions: $\mathbf{E} = \mathbf{k}(5.9)[\mathbf{s}/12][\mathbf{S}/30][\mathbf{W}/3]^{0.7}$ [w $\mathbf{E} = 0.36(5.9)[8.9/12][5/30][31.3/3]$ $\mathbf{E} = 2.0$ lb/VMT (1-0.90 control of Edaily = (0.2 lb/VMT)(16 VMT/d of Eyear) = [(3.2 lb/day / 10 lb/day / 10 lb/max 10 lb	3 ^{0.7} [10/4] ^{0.5} [365-12 efficiency) = 0.2 lb/ ¹ ay) = 3.2 lb/day	VMT	
11. Pollutant Potential/Estimated	Emissions Comment	•	

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:		
1	< 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		
_	Established CAII II E : :		
2.	Future Effective Date of Allowable Emissions:		
3	Requested Allowable Emissions and Units:		
٠.	requested into value Linissions and Onto.		
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

		. 151010 23111551	0110 2111110		-	
1.	Visible Emissions Subtype:					
		VE				
2.	Basis for Allowable Opacity:	[X] I	Rule	[] Other	
3.		···········				
	Normal Conditions: < 5 %	Exceptional C				
	Maximum Period of Excess Opa	city Allowed:	0 min/ho	our		
4.	Method of Compliance:		· · ·			
	Annual EPA Meth	od 9 visible em	nission con	npliance	testing.	
	•					
5.	Visible Emissions Comment:		-			
			1			

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	Γ 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.

PSD Increment Consumption Determination

<u> </u>	ע	Increment Consumption Determination			
If tans	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.			

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 SO2	[] C	[]E []E	[X] No [X] No	
	NO2	[] C	[]E	[X] No	
4.	Baseline Emission	ons:			
	PM		lb/hour	tons/year	
	SO2		lb/hour	tons/year	
	NO2		lb/hour	tons/year	
5.	PSD Comment:	<u></u>			

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.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.
- [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:				
	S	Storage Piles & Conveyor Drop	s.		
•					
	٠				
2.	ARMS Identification Number	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	•			
7	Lang town Descrip Chiefle	Unknown			
7.	Long-term Reserve Shutdo	wn Date (DD-MON-YYYY): NA			
8.	Package Unit: Not Applica				
	Manufacturer:				
	Model Number:		·		
9.	Generator Nameplate Ratin	g:			
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:			
Fugitive Emissions from Storage Piles and Drops from conveyors to stockpiles – worst case scenario. All stockpiles are watered continuously by water truck.			
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:			
Fu	Operating Capacity Comment: ugitive Emissions from Storage Piles and Drop use scenario. All stockpiles are watered continue	<u>-</u>		
	Emissions Unit Operating Schedule			
Re	equested Maximum Operating Schedule:			
	10 hours/day	6 days/week		

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.)

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:						
Sto	Storage 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):				
M	aterial Handling – Material Storage Stoc	kpiles and Conveyor Drops			
2.	Source Classification Code (SCC): UNK	NOWN			
3.	SCC Units:				
4.	Maximum Hourly Rate: 200 ton/hr and 0.16 lb/hr fugitives	5. Maximum Annual Rate: 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. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):						
NOT A	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 Em	issions: Pollut	ant1 01	t1
1.	1. Pollutant Emitted: PM10			
2.	2. Total Percent Efficiency of Control:	90 % (AP-42 s	section 13.2.4.4)	
3.	3. Primary Control Device Code: 009			
4.	4. Secondary Control Device Code: NA	A		
5.	5. Potential Emissions: without controls			
6.	6. Synthetically Limited?			
	[] Yes [X] No			
7.	7. Range of Estimated Fugitive/Other I	 Emissions:		
	[] 1 [] 2		_ <u>0</u> to	0tons/year
8.	8. Emission Factor: 0.2 lb/VMT			
	Reference: AP-42 Section 13.	.2.4.2 Aggregra	te Handling and	Storage Piles.
9.	9. Emissions Method Code:			
	[] 1 [] 2	[X] 3	[] 4	[] 5
10	10. Calculation of Emissions:			
E	$E = k (0.0032) [u/5]^{1.3} / [M/2]^{1.4}$			
	$E = 0.35 (0.0032) [7/5]^{1.3} / [0.7/2]^{1.4} = 0$			
1	E = (200 ton/hr)(0.0081 lb/ton) = 1.62		4 (4 1) (1)	
	E = (1.62 lb/hr) (1-0.90 control efficient)	• • • • • • • • • • • • • • • • • • • •		
E	E = [(1.62 lb/day / 10 hr/day)] (3120 h)	.rs/yr) / 2000 to	/ton = 0.26 ton/yr	
11	11. Pollutant Potential/Estimated Emiss	ions Comment:		· · · · · · · · · · · · · · · · · · ·

Allowable Emissions

1.	1. Basis for Allowable Emissions Code:					
	Rule					
2.	. Future Effective Date of Allowable Emissions:					
<u> </u>	Initial Emissions Compliance Test					
3.	1					
<u> </u>	< 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					
1.	Basis for Allowable Emissions Code					
2	Future Effective Date of Allowable Emissions:					
۷.	rutale Effective Date of Allowable Ellissions.					
3	Requested Allowable Emissions and Units:					
٦.	requested Anovable Emissions and Omes.					
4.	Equivalent Allowable Emissions: lb/hr tons/year					
7.	Equivalent Anowable Emissions. 10/11 tons/year					
5.	Method of Compliance:					
	would of compliance.					
6	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):					
0.	Torrame I movacie Emissions Comment (Desc. of Related Operating Methods 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: < 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.					
_	Visible Emissions Comment:					
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 Number:			
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 t ans	he sw no	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.

3.

4.

PM

SO2

NO2

5. PSD Comment:

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.					
Increment Consuming/Expanding Code:					
PM [] C [] E [X] No					
SO2 [] C [] E [X] No					
NO2 [] C [] E [X] No					
Baseline Emissions:					

lb/hour

lb/hour

lb/hour

tons/year

tons/year

tons/year

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

Emissions	Unit Information	Section	14	of	14
		~~~~~~	4 7	O.	

#### 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

$\mathbf{C}$	heck one:
E	] 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	1 This Emissions Unit Information Section addresses, as a single emissions unit, an

- [ ] 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:				
	Cedarapids, Inc. – Grizzly Feeder / Receiving Hopper.				
'					
2.	ARMS Identification Num	ber:	[	] No Correspo	nding ID [X ] Unknown
3.	Emissions Unit Status	4. A	cid Rain	Unit?	5. Emissions Unit Major
	Code: C	[	] Yes	[X ] No	Group SIC Code:
					14
6.	Initial Startup Date (DD-M	ON-YY	YYY): U	nknown	
7.	Long-term Reserve Shutdo	wn Dat	•	•	
0	Doolege Huite D. 4 11 D. 1			NA .	
	Package Unit: Portable Recla eder / Receiving Hopper.	ilmed A	spnait and	Concrete Aggrega	te Processing Unit - Grizzly
	Manufacturer: Cedarapids, Inc.				
	Model Number: Unknown				
9.		g:			
10.	Incinerator Information:				
	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:
en en co	the Grizzly feeder / receiving hopper is used to receive uncrushed material from a front d loader and vibrate it into the primary crusher. Water spray bars are located at the trance and top of the vibrating feeder to dampen the processed materials and to natrol any emissions generated by this process. The material to be crushed is dampened it's stockpile as to control fugitive emissions throughout the entire 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 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** 

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 II applications involving non Title-V sources. See Instructions.)	Ι
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.)

(2.212.200(5C) FA.C
62-212.200(56) FAC
62-296.800 FAC
40 CFD (0 0 1
40 CFR 60, Subpart 000
62-296.310 (2) FAC
UZ Z/UDIU (Z/TAC
62-297 FAC
62-297.340 FAC
02-277.540 FAC
62-210.350 FAC
Chapter 94 446 Section 2(12) ES
Chapter 84-446, Section 3(12) FS
62-296.320 FAC
(2.20(.210(2) T) (.C)
62-296.310(3) FAC
40 CFR 60.11 (d)
62-4 FAC
62-210

Emissions Unit into mation Section 14 of 14	<b>Emissions</b>	<b>Unit Information Sect</b>	tion 14	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. – Vibrating Grizzly Feeder / Receiving Hopper
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: Not Applicable
7	Tuis Diamestan
/.	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: ~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.	
	į

#### 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 a	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:	NA	
8.	Maximum Percent Sulfur: NA	8. Maximum Percent Ash:	
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):	
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:	

<b>Emissions</b>	<b>Unit Informa</b>	tion Section	14	of	14 .

#### 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.

Po	ilutant Potential/Estimated Emissions: Pollutant of
1. Pol	llutant Emitted: PM10
2. To	tal Percent Efficiency of Control: 90%
3. Pri	mary Control Device Code: 061, 062, and 099
4. Sec	ondary Control Device Code: NA
5. Pot	tential Emissions: 0.42 lb/hr 0.66 ton/yr
6. Syı [	nthetically Limited?  ] Yes [X ] No
	nge of Estimated Fugitive/Other Emissions:  1
8. Em	nission Factor: 0.0021 lbs/ton Reference: AP-42, Table 3.3-1
	nissions Method Code:  ] 1
PM10,	lculation of Emissions:    (200 ton/hr)(3120 hr/yr)(0.0021 lb/ton)] / 2000 lb/ton = 0.66 ton/yr   (200 ton/hr)(0.0021 lb/ton) = 0.42 lb/hr
11. Pol	llutant Potential/Estimated Emissions Comment:

## Emissions Unit Information Section 14 of 14.

#### **Allowable Emissions**

l.	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	
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.	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):

<b>Emissions Unit Information Section</b>	14	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

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 [X] Rule 2. Basis for Allowable Opacity: 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. **Visible Emissions Comment:** 

<b>Emissions Unit Information Section</b>	14	of	14
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#### 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:		##. 7.55··			
		NOT APP	LICABLE			
2.	CMS Requirement:	[	] Rule	[	] Other	_
3.	Monitor Information: Manufacturer:					
	Model Number:			Serial Nun	nber:	
4.	Installation Date (DD-MON-YY)	YY):				
5.	Performance Specification Test I	Date (DD-I	MON-YYY	Y):		
6.	Continuous Monitor Comment:					***
						÷
				<u>.</u>	_	

#### 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.

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.	e
[ ] 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 Ni	trogen	Dioxide?
		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7			

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	onsuming/Expanding	g Code:		
	PM	[ ] C	[ ]E	[X ] No	
	SO2	[ ] C	[ ]E	[ <b>X</b> ] No	
	NO2	[ ] C	[ ] E	[ <b>X</b> ] No	
4.	Baseline Emi	ssions: (for diesel g	enerator 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
	[ ] 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 14 of 14

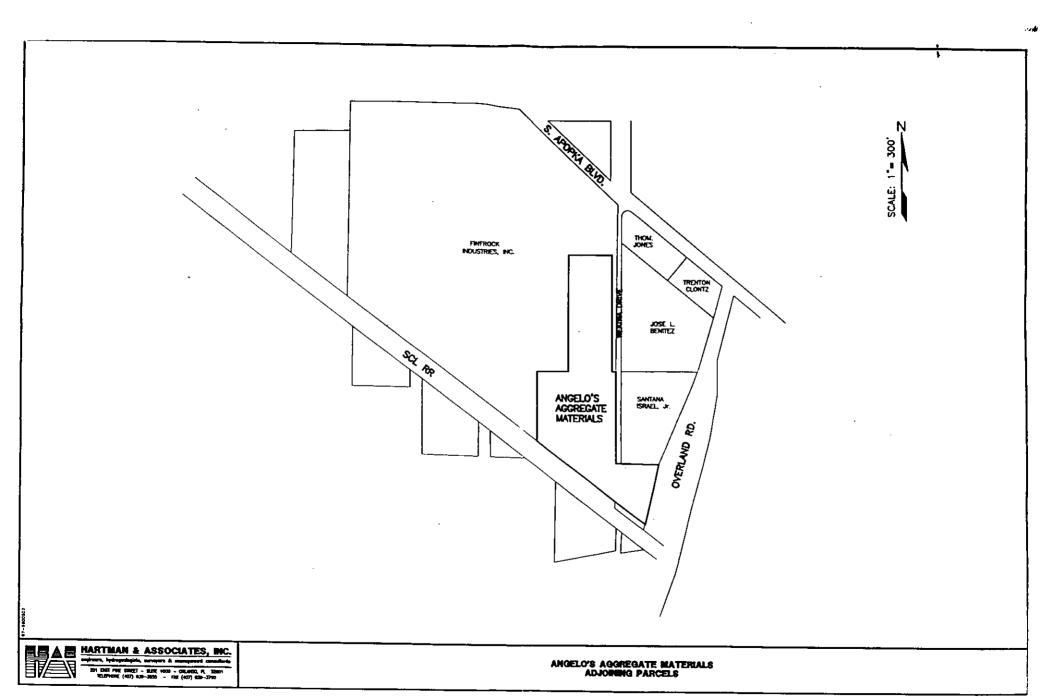
### Additional Supplemental Requirements for Category I Applications Only

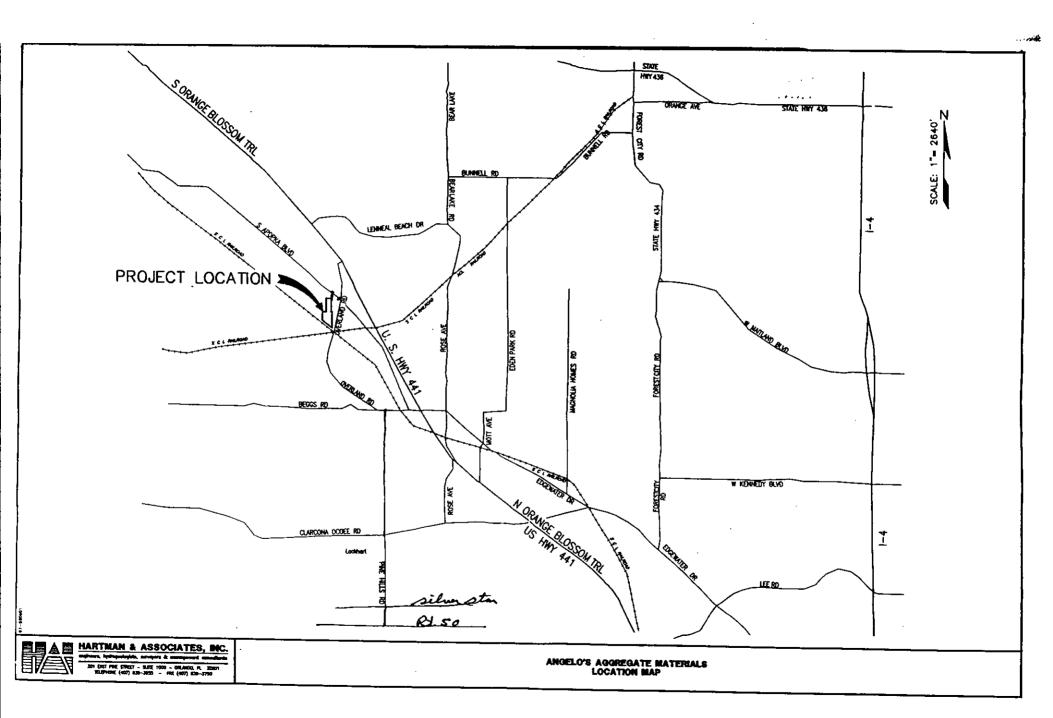
10. Alternative Methods of Operation
[ ] Attached, Document ID: [X ] Not Applicable
11. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID: [X ] Not Applicable
12. Enhanced Monitoring Plan
[ ] Attached, Document ID: [X ] Not Applicable
13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID: [X ] Not Applicable
14 Apid Daim Amplication (II-ul acus) Danning d)
14. Acid Rain Application (Hard-copy Required)
[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:
rttachea, Document 1D
[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:
<u></u>
[ ] 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

## TABLE OF CONTENTS

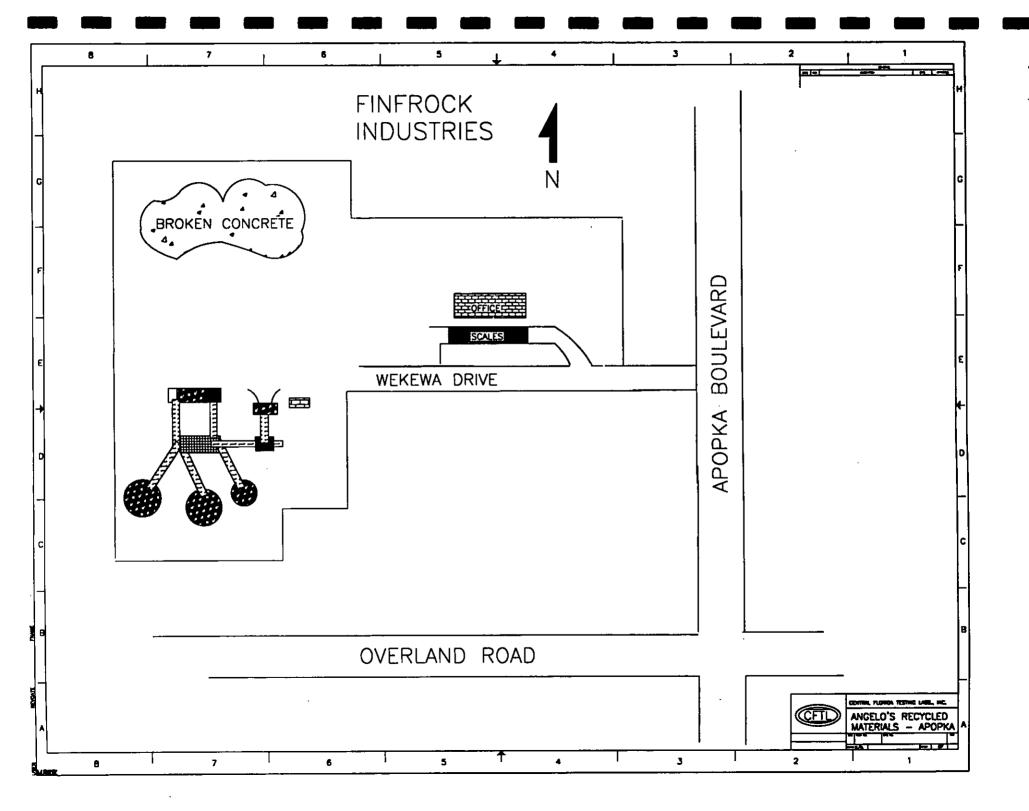
- I. FACILITY LOCATION
- II. SITE PLAN
- III. FLOW DIAGRAM
- IV. PRECAUTIONS TO PREVENT FUGITIVE EMISSIONS
- V. SUPPLEMENTAL INFORMATION
- VI. CONTROL EQUIPMENT
- VII. O&M PLAN
- VIII. TYPICAL FUEL ANALYSIS

I. FACILITY LOCATION





II. SITE PLAN



III. FLOW DIAGRAM

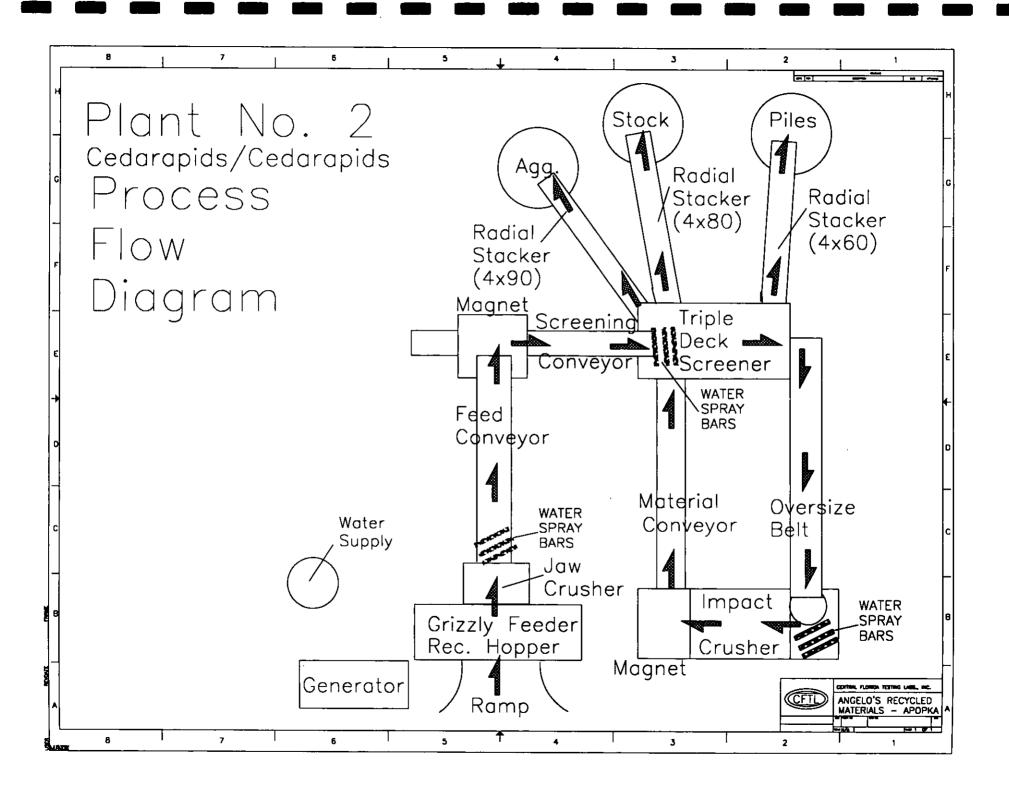
#### PROCESS DESCRIPTION

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 appropiate 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.

V. SUPPLEMENTAL INFORMATION

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

. Total Emissions Produced by Facility

		PM10	PM10	SOx	SOx	СО	СО	NOx	NOx	TOC	TOC
Point	Emission Point Name	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, due 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 ... was October 19, 1997.

Sincerely Yours,

Denise Little Legal Advertising Representative

cc: file

blished Doily \$ 692.00 s.s. fore the undersigned authority personally appeared <u>Denise Little</u>, who on oath says while is the Legal Advertising Representative of The Orlando Sentinel, a daily before published at <u>ORI ANDO</u> in Mark if the attached copy of envertisement, being 77 7020 - 051 MATICE OF I ORANGE sublished in said newspaper in the issue; of 11/12/17 Alliant further says that the said Orlando Sentinel is a newspaper published at a final AND County. Florida, as that the said newspaper has heretolore been continuously published in ORAMIC County. Florida, as that the said newspaper has heretolore been continuously published in ORAMIC County. Florida, as the Week Day and has been entered as second-class mail matter at the post in said ORAMIC. County. Florida, as period of one year next preceding the first publication of the attached of advertisement; and affiant further says that he/she has neither paid promised any person, firm or corporation any discount, rebate, mission or refund for the purpose of securing this divertisement for stockation in the said newspaper.

To foregoing instrument was acknowledged before me this 12 day of November, 19 97by Denise Little is personally known to me and who did take an oath. SIONAL MENONS OF STREET

<u>Orlando Sentinel</u>

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immeti

rd Engineering Non Beach County Health Unit OI Eversia Street

that he/she is the Legal Advertising Representative of The Orlando Sentinel, a daily
newspaper published atO.KLAN.D.O
that the attached copy of advertisement the matter of
in the ORANG Court, was published in said newspaper in the issue; of 11/12/97
Affiant further says that the said Orlando Sentinel is a newspaper published at OXI_ANDOin said
ORANGE County, Florida, and that the said newspaper has heretolore been continuously published in
and that the said newspaper has heretoldre been confinded by published in said ORANGE County, Florida,
each Week Day and has been entered as second-class mail matter at the post
office in ORLANDOin said
DRANGE 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 97by Denise Little .
the in-results fragge to the analysis did take an oath
who is personally known to me and who did take an oath.
(SEAL) 910099 191 99099 (SPAN) 910099 191 1002828 192 91009 (SPAN) 91002828 192 91009 (SPAN) 910
LIOHOM ALUL ALLES

pounds per hour hour producting 5.1 the \$104 \$7.3 wide (505 \$.8 in (500) 1.8 27 12 28 powers of the facts that the posts Boulevard, State 232 to 32003-2767 7/864-755

1da 33416-5425

The complete project the includes the application technical evaluations. Draft Parmets and the information submitted by the response his officers are fast and applications.

THE OFTAIRD Sentinel Published Daily \$ 692.00 State of Florida S.S. Before the undersigned authority personally appeared <u>Denise Little</u> that havehe is the Legal Advertising Representative of the Odando Sentinel, a daily newspaper published at ORLANDO IN PRANTAL COUNTY, Floridation of the Stacked copy of advertisement home by 100 to in the <u>ORANGE</u> was published in said newspaper in the issue; of <u>11/12/97</u> Affiant further says that the said Orlando Sentinel is a newspaper published at 

## The Orlando Sentinel Published Doily \$ 692.00 State of Florida S.S. Before the undersigned authority personally appeared <u>Denise Little</u> in the ORANGE was published in said newspaper in the issue; of 11/12/97

who is personally known to me and who did take an oath.

(SEAL)

days, at:
de County Department of
vironmental Resources
p. 10-w. Mamt. 1-00-1-1
33 Southwest 2nd Ave. 1
34 (p. 15 state 90)
Nami. Florida 33130-1540
Telephone: 305/472-6725 EDWision of Environmental
Science and Engineering
Poim Seach Country Health
Unit
901 Evenia Street
West Poim Seach, Florida
33401
Talantana 541 Telephone: 561/255-3070 Dept. of Environmental
Protection
Northwest District
160 Government Center,
Suffe 308
Pensocola, Florida 22501-5794
Telephone: 904/444-8300
131 Dept. of Environmental
Protection
Northebst District
7825 Baymeadows Woy,
Suffe 2008
Jocksonville, Florida 2256
Telephone: 904/448-4300 Broward County Department
of
Natural Resource Protection
218 Southwest 1st Avenue
(Fort Louderdale, Florida
23301
Telephone: 954/519-1220 Air Quality Division
Pinetics County Department
Pinetics County Department
of a South Garden Avenue
Clearwater, Florida 34616
"Telephone \$13/464-4422 09) Dept. of Emironmental Protection
Southwest District
3804 Coconut Pean Drive
Tompo, Florido
Telephone: \$13,744-\$100 Dept. of Environmental Protection Central District 3319 Maguire Boulevard, Suite 232 Orianda, Florida 32803-3767 Telephone: 407/984-7555 Terephone: 401/984-7555

+ 103sborough County
Environmental
Protection Commission
1410 North 21 Street
Tampa, Florida 33605
Telephone: 813/727-9530
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, Sutte 364 Fort Myers, Florida 33901 Telephone: \$13/332-6975 Telephone: \$13/332-6975

Dept. of Environmental Protection 1918
Southeast District Seet 400 North Congress Avenue West Palm Beach, Florida 33416-5425
Telephone: \$61/681-6600
The complete project file includes the applications, braff Permits and the information, submitted by the responsible official active to the confidential records under Section 403.117

10570
New Resource Review Section at 111 South Magnalia Drive, Suite 4, Tollohassee, Florida 32301, or coil 850/488-

ard and

Int Ind

**E/7** 

ID:8132597392

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

PAGE

6/7

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 32501-5794
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.
                         PO₽
                                           Misc
                                                  Sales Rep 0073 Exp
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                                    PP 1
                                                       Total Lines
                                                                    322
ES #2:
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                                 Stop
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BUYS:
Skip
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                                                       Ad Cost 856.52
ES #3:
        Times
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                                 Stop
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BUYS:
Skip
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               I/L
                     Seq2672
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                                    Production R by DONNA/0065
      Credit
                   Basket LEGAL
Remarks: NEEDS AFFIDAVIT W/ALL
      Vol (Trans); legals; COUNTIES LISTED!!! #73 CHECK FOR DUP!!!!!!!!!
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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-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 determination 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

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.

(VOC) 2.2 3.5

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 sigZ

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.

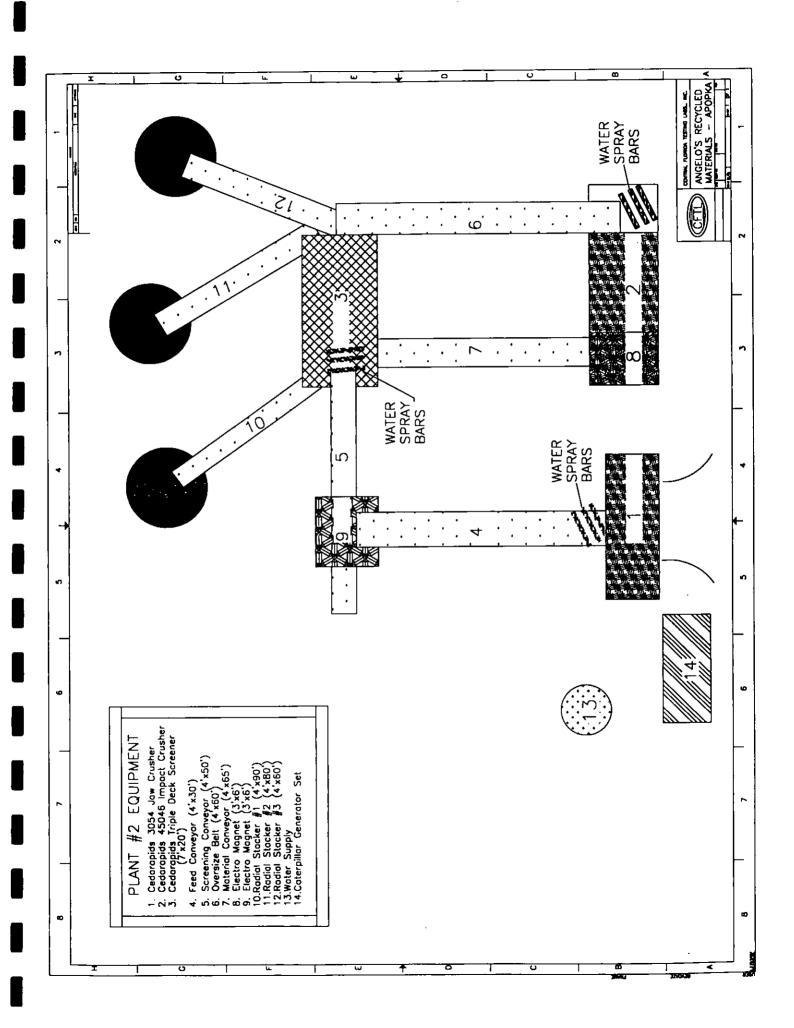
A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57 F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General 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 determination (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

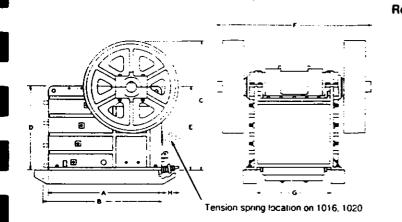
3

# THE TAMPA TRIBUNE Published Daily Tampa, Hillsborough County, Florida

County of Hillshorough } 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, POLI
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
Affant 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 heresofore 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 affant 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
of <u>OCTOBER</u> , A.D. 19 <u>97</u>
Personally Knownor Product Identification  Type of Identification Produced
(SEAL) Jusie Lee Platon



# Cartación La contra moderna



Recomm	ended Op	enings at	Closed S	troke - inc	hes & (mm)
Size	Min.	Max.	Size	Min.	Max.
1016	¾ (19)	31/2 (89)	2248	21/2 (64)	6 (152)
1020	34 (19)	31/2 (89)	2436	2½ (64)	6 (152)
1024	. 34 (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	11⁄2 (38)	5 (127)	3042	4 (102)	13 (330)
1248	11/2 (38)	5 (127)	3054	31/2 (89)	13 (330)
1524	11⁄2 (38)	5 (127)	3242	4 (102)	13 (330)
1636	11/2 (38)	5 (127)	3648	4 (102)	13 (330)
1642	11/2 (38)	5 (127)	3660	4 (102)	13 (330)
1648	11/2 (38)	5 (127)	4242	14 (356)	23 (584)
1824	11/2 (38)	5 (127)	4248	4 (102)	13 (330)
1836	1½ (38)	5 (127)	5460	6 (152)	20 (508)
2236	21/2 (64)	6 (152)	5748	19 (483)	28 (711)

Form Trees Trees

			st inch &	•										
Model	1016	1020	1024	1036	1236	1242	1248	1524	1636	1642	1648	1824	1836	2236
A	40	48	45	48	48	56	5 <del>9</del>	55	61	71	-66	56	64	65
	1015	1220	1145	1220	1220	1420	1500	1395	1550	1800	1675	1420	1625	1650
В	_	_	-	<del>-</del>	<u>-</u>	_	_	_	<del>-</del>	<i>7</i> 3 1855	- -	_	_ <del>_</del>	_
С	41	46	<b>4</b> 6	46	51	55	56	57	63	76	70	57	ස	77
	1040	1170	1170	1170	1295	1395	1420	1445	1600	1930	1780	1445	1600	1955
D .	24	28	28	28	32	33	36	36	41	46	41	36	41	48
	610	710	710	710	810	840	890	915	1040	1170	1040	915	1040	1220
ε	26	28	28	28	33	34	35	39	42	48	42	39	42	49
	660	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	1 <b>70</b> 0	2335	2515	2385	1955	2335	2335
G	22	26	27	41	41	47	53	<i>2</i> 7	41	47	53	27	41	43
	560	660	685	1040	1040	1195	1345	685	1040	1195	1345	685	1040	1090
Н	14	14	21	18	19	20	19	18	16	20	16	19	16	17
	355	355	535	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	<i>7</i> 7	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	2440	2440	3225
E	54	61	49	65	64	64	64	<i>7</i> 7	84	88	77	101	101	130
	1370	1550	1245	1650	1626	1626	1626	1955	2135	2235	1 <b>95</b> 5	2565	2565	3300
F	99	94	92	95	99	99	110	99	101	119	99	120	120	140
	2515	2385	2335	2415	2515	2515	2795	2515	2565	3025	2515	3050	3050	3555
G	53	43	43	45	47	47	69	47	52	78	47	55	, 56	67
	1345	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

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#### 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

Jaw Length

1420

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

Model	1016	1020_	1024	1036	1236	1242	1248	1524	1636	1642	1648	1824	1836	2236
Weights	5306	7000	8255	12,551	13,978	19,936	24,300	12,305	21,003	33,996	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
Jan Wal	10x16	10:20	10x24	10x36	12:36	12x42	12x48	15x24	16x36	16x42	16x48	18x24	18:36	22:36
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	6.4375
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
Pitmen 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	12	55	42	36		
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	290	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
vergrita	19547	21200	11801	19366	22008	22008	28269	25917	36131	48836	26689	47431	53071	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	22x48	24x36	24x38	25x42	27x42	30x42	30x54	32x42	36x48	36x60				54x60
Opening	560x1220	610x915	610x965		685x1065			810x1065		915x1524	42x42 1065x1065	42x48 1065x1220	57x48 1445x1220	
Shaft Dia.	836603	8.6603	6.4375	7.091	8.6603	8.6603	8.6603							
Side Bearing	220	220	164	180	220	220	220	8.6603 220	10 375 264	14.000 356	8.6603 220	14 000 356	14.000 356	18.000 457
Shaft Dia.	10.2383	10.2383	7.875	8.6645	10,2383	10.2383	10,2383	10.2383	11.815	15.570				
Pitmen Bearing	260	260	200	220	260	260	260	260	300	15.570 400	10.2383 260	15.750 400	15.750 400	19.687 500
		57	55	57	57	57	57	57	72					
	57					3/	-			72	57	72	72	84
Std. Grooved	57 1445	5/ 1445	1395	1445	1445	1445	1445	1445	1830	1830	1445	1830	1830	2134
Std. Grooved Flywheel Dia.	1445	1445	1395	1445		1445	1445	1445	1830	1830	1445	1830	1830	2134
Std. Grooved Flywheel Dia. Face Std.					1445 15 380	18	18	18	13	13	18	13	13	20
Std. Grooved Flywheel Dia. Face Std. Flywheel	1445 18 455	1445 15 380	1395 13 330	1445 15 380	15 380	18 455	18 455	18 455	13 330	13 330	18 455	13 330	13 330	20 510
Std. Grooved Flywheel Dia. Face Std.	1445	1445	1395	1445 15	15	18	18	18	13	13	18	13	13	20

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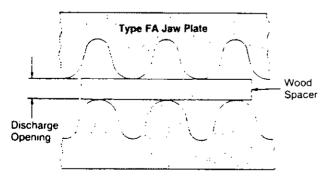
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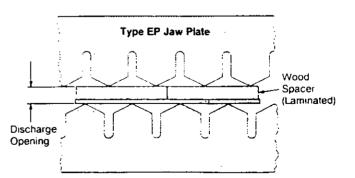
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### **Jaw Crusher Capacity in tons and (metric tons)**

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 × 36 (25 × 91) 12 × 36 (30 × 91) 16 × 36 (41 × 91) 18 × 36 (46 × 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)	64 x 42	30 × 42 (76 × 107) 32 × 42 (81 × 107)	36 x 48	30×54	36 × 60 (91 × 152) 54 × 60 (137 × 152)
¥.	10-20	10-25	15-25				<u> </u>					· · ·	<u> </u>	<u> </u>
19mm	(9-18)	(9-23)	(14-23)		<b>1</b>	1			<b>†</b>	1				<del> </del>
1-	15-25	20-30	25-35				<del></del>							
25.4mm	(14-23)	(18-27)	(23-32)			-								<del>                                     </del>
11/2"	25-35	25-45	35-50	35-50	55-75			60-90	70-100	· · · · · · · · · · · · · · · · · · ·				<del> </del>
38 1mm	(23-32)	(23-41)	(32-45)	(32-45)	(36-68)	<u> </u>		(54-81)	(63-90)	1				
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)	i	_			
2'h-	40-55	50-70	60-85	60-85	95-125	95-125		105-145	125-165				-	<del> </del>
63.5mm	(36-50)	(45-63)	(54-77)	(54-77)	(86-113)	(86-113)	<del> </del>	(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)					
3%	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)	(135-160)	(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)	(234-268)	(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	i	1					(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.

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

#### **Jaw Crusher**

#### **Features**

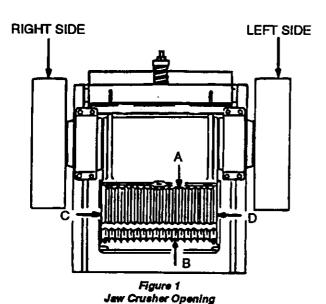
- Submerged arc weided all-steel base (thermally stress relieved in oven at 1400°F).
- Side bearings directly over side plates.
- Independent side bearing housings.
- Minimum bearing center distance to eliminate flexing.
- Spherical, self-aligning roller bearings to handle side thrush.
- Positive, maintenance-free 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**

	014	-	
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

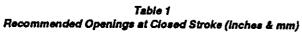
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# **Service Technical Information**



Right & Left Side

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



Size	Minic	num	Max	Maximum			
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	36	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	36	5	127	250-300		
1636	1-1/2	. 38	. 5	127	250-300		
1648	1-1/2	36	5	127	250-300		
1824	1-1/2	√38-**	5	127	250-300		
1836	1-1/2	36	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	- 7102 -	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		
			4.		1		

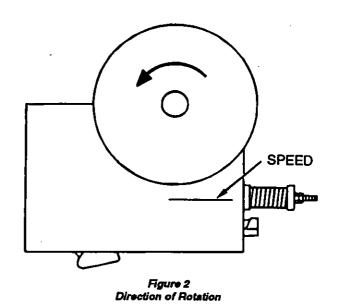


Table 2
"All Grease" Lubrication Capacities (Lbs. Required)

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	25
2236	4	23
1242	4	27
1248	4	32
2540, 2442	7.7	33
2436	12	29
1648	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.

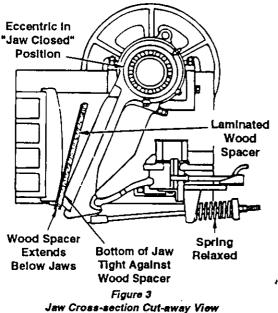
Example: Unmounted (bench) clearance = .010. 40% = .010 x (.4) = .004; 50% = .010 x (.5) = .005. .010 minus.004 = .007; .010 minus .005 = .005

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.

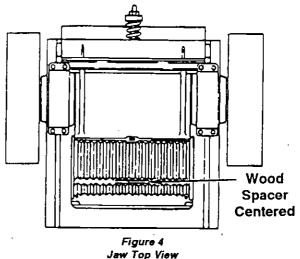


### **Setting Discharge Opening**

General Information

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

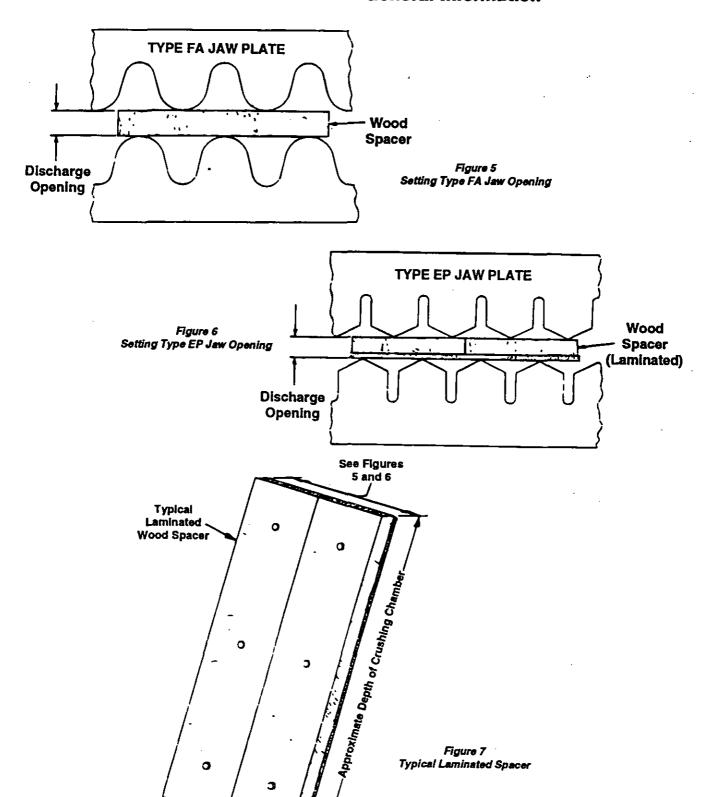
- 1) When the crushing chamber is completely empty. stop the crusher drive and lock out the power source so no unexpected movement of the flywheel can occur.
- Loosen nuts that hold base toggle seat.
- 3) Loosen tension spring nuts so shim pack can be adjusted.
- 4) Make a wooden spacer similar to Figure 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.
- 6) 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**



Discharge Opening Dimension

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# Jaw Crusher Adjustment Procedure

# A

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.
- 4) 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.
- 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.

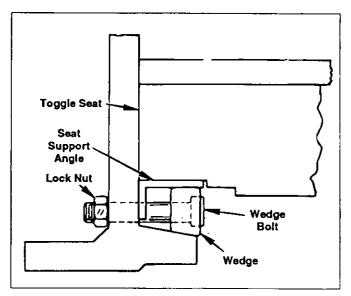


Figure 8
End View of Toggle Seat Wedge Assembly

#### **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**

3) The movable jaw plate must be centered on the pitman.

NOTE: This may require trimming pitman sides or ears.

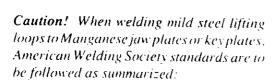
- 4) Install the pitman jaw wedge. Be sure it does not extend beyond the end of the pitman, restricting the pitman side float.
- 5) Install the keeper bolts to hold the wedge in place and their lock nuts and washer.
- 6) Using a minimum 16 lb. sledge hammer, you must drive on the face of the wedge starting 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.



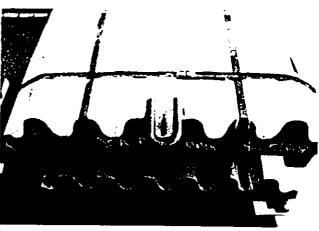
All bolts should be torqued for proper tension. Refer to standard bolt torque chart and follow (lube) recommendation.

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.



- Stainless 310 rod ½ 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.



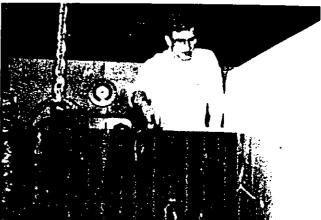


Figure 9 Proper Use of Lifting Loop on Jaw Plate

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### **Shim Locations**

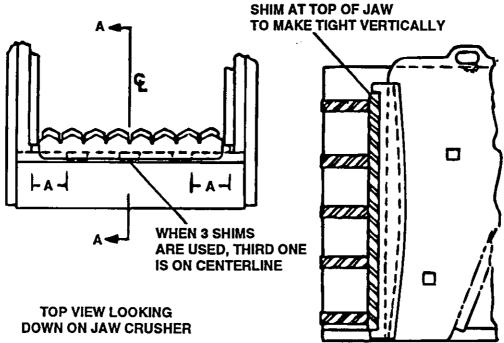


Figure 10
Top View of Jaw Crusher for Shim Location

Size	A	Shim Places	Shim Group
1016	3°	2	. 1
1020	3°	2	1
1024	5°	2	
1524	5'	2	1
1824	5'	2	
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	ĮI .
2742	5'	3	и
3046	5'	3	11
1242	5'	3	ı
3042	5'	3	11
3242	9'	2	
4242	8,	2	MI
3645	5°	3	101
1648	7°	3	l .
2248	7'	3	И
4248	5'	3	111
1248	7'	3	1
2438	5'	3	U
1642	5'	3	11
5460	7"	3	
3054	6,	3	IV
3660	7'	3	. 10

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.

- 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 jaw.
- 9) Pumpram(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**

- 19) 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"	В
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.
- 2) 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.
- 4) Remove entire shield before the last two strips are removed.

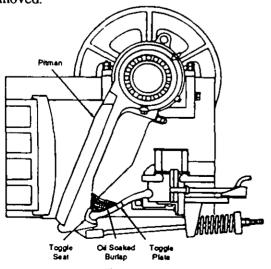


Figure 11
Cut-away Side View of Typical Jaw Crusher
with Burlap Dust Shield

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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.
- 2) 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:

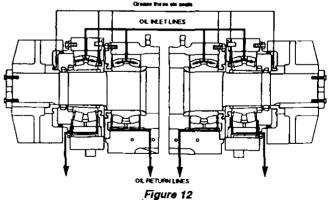
Straight Bore Pitman Bearings: Be sure no more than 50% of the unmounted clearance is removed after the bearings have cooled and shrunk in place on the shaft.

**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.



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

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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.

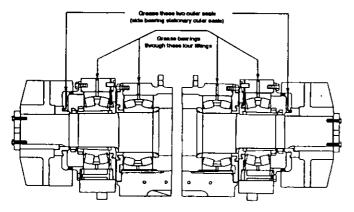


Figure 13 Grease Fittings on Pitman

### **Pitman Grease Fittings**

Pitman Information

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.

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### **Lubrication Instructions**

# Oil Lubrication for Combination Grease or Oil Lubricated Crusher

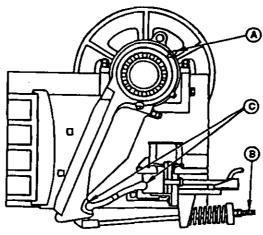


Figure 14
Side View -- Location of Dust Barrier Grease Fittings & Oil Hoses

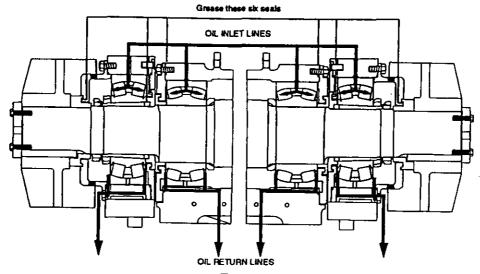


Figure 15
Cut-away Front View – Location of Dust Barrier Grease Fittings & Oil Hoses

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° Exxon 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

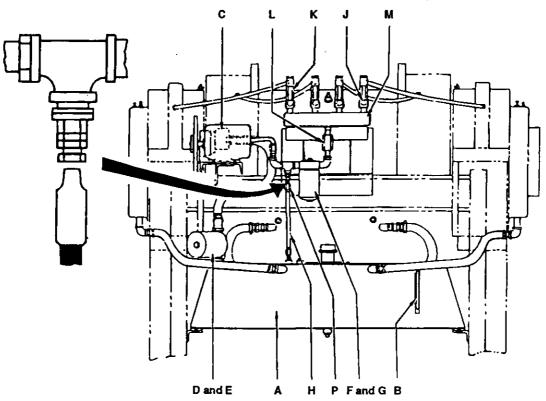


Figure 16
Circulating Oil System Components – Rear End View of Crusher with Electric Oil Pump Drive

#### **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

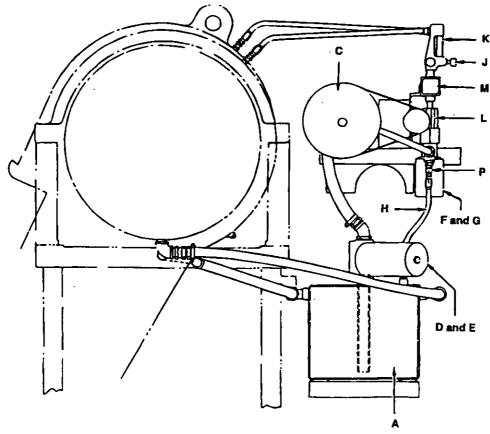


Figure 17
Circulating Oil System Components – Left Side View of Crusher with Flywheel-to-Pump Drive

#### **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 torchflame 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.

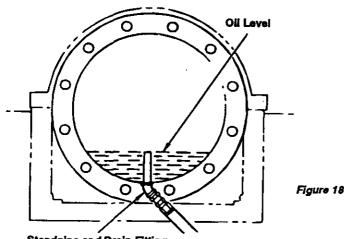
The belt should be kept only tight enough to drive the pump without slippage when the oil is cold at start-up. Over-tightening can cause rapid belt wear.

# 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)



Standpipe and Drain Fitting
(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.

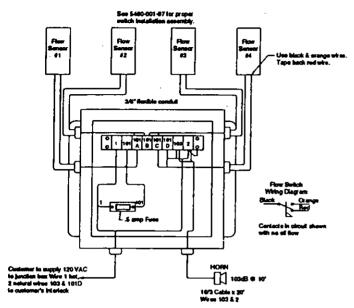
### **Lubricating Stored Equipment**

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.

A Raythoets Company

# Circulating Oil System Low Oil Flow Alarm System



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

Figure 19 Wiring Diagram for Optional Low Flow Alarm System

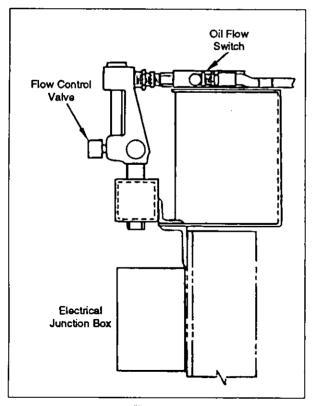


Figure 21
Location of Oil Flow Detection Switch

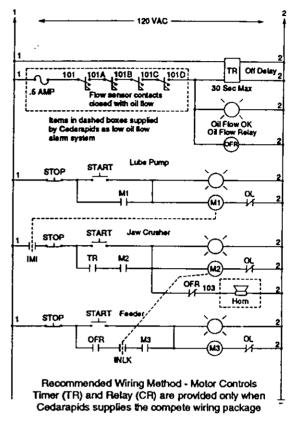


Figure 20 Schematic for Optional Low Flow Alarm System

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**

Push	369	7031 021	48846 884 44
	777	1. 1001021	45500 752 03
Push	569	569B	45500 752 09
Pull	569A	9 <b>569C</b>	45500 752 09
Push	569	569B	45500 752 09
Pul	. a., a. 569A	569C	45500 752 09
Push	697	697B	45500 752 09
. ∴ Pull	697A	896	45500 752 09
Pull	697A	896	45500 752 09
Pull	697A	896	45500 752 09
Pull	4418 238	4418 237	45500 752 09
Pull	806	807	45500 752 09
Put	696	897	45500 752 09
-Pul	995		45500 752 09
Pull	697BA		45500 752 09
Push			45500 752 09
Push	895		45500 751 09
Pul	5690	1	45500 751 09
Pul	L		45500 751 09
Pul			45500 751 09 45500 751 10
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			45500 751 10 45500 751 09
			45500 752 09
		·	45500 752 09
		1	45500 752 09
			45500 752 09
			45500 752 09
			45500 752 09
·			45500 751 10
		4418 115	45500 751 10
		947	45500 751 10
			45500 751 10
	947	946	45500 751 10
. —	946	4418 115	45500 751 10
Pull	946	4418 115	45500 751 10
Push	946A	946	45500 751 10
Pull	946	4418 115	45500 751 10
Push	946A	946	45500 751 10
Pull	946	4418 115	45500 751 10
Pull	946	4418 115	45500 751 10
Pull	946A	946	45500 751 10
Pull	946	4418 115	45500 751 10
Pull	4418 172	4418 170	45500 751 16
Push	4418 190	4418 189	45500-751-20
Pull	946		45500 752 10
Push	1		45500-751-20
	5460 002 34		
rva	5460 002 35	5460 002 35	01376AXA
Puli	370	5698	45500 751 09
Pull			45500 751 09
			45500 751 09
	1		45500 751 09 45500 751 09
		•	40000 / 51 09
Pul			AFEOD SEL OF
			45500 751 09
Dudi			45500 751 10
	Push Pull Pull Pull Pull Pull Pull Pull Pul	Push   569   Push   569A   Push   697A   Push   697A   Push   697A   Push   697A   Push   697A   Push   697A   Push   697BA   Push   697BA   Push   697BA   Push   697BA   Push   697   Push   698   Push   697   Push   697   Push   697   Push   697   Push   697   Push   698   Push   694   P	Push   S69   S688   Pull   S69A   S69C   Push   S697   S697B   Pull   S697A   S666   Pull   S697A   S666   Pull   S697A   S666   Pull   S697A   S666   S697   Pull   S666   S697   S6986   S697   Pull   S696   S697   S697B   Pull   S696   S697   S697B   Push   S695   S696   S697   Pull   S660   S697   S697B   Push   S695   S696   S697   Pull   S660   S697   S697B   Pull   S660   S697   S697B   Pull   S660   S697   S697B   Pull   S696   S697   S697B   Pull   S696   S697   S697B   Pull   S696   S697   S697B   Pull   S696   S697   Pull   S696   S696   Pull   S690   S696   S697   Pull   S690   S697

# 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.

# **Cedarapids**

A **Environm** Company

### **Crusher Operation Problems**

#### Operating with worn jaw plates

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.

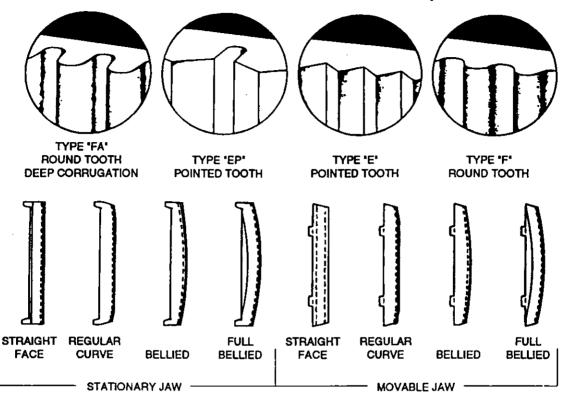
#### Over-tensioning one rod and spring assembly

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.

# **Crusher Jaws - Welded Base** Standard & Special



	SINGL	E OVE	RHEAD	ROLLER B	EARING CRUS	HER				
WELDED BASE		OITATE	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	. E	1-1/2	Bellied	403 405	() <b>E</b> (	1-1/2	Reg Curve Full Bellie		
1024	502	Е	1-1/2	Bellied	503 505	Е	1-1/2	Reg Curve Full Bellie		
	602L	F	2	Bellied	603SS 605S	F	2	Reg Curve Full Bellie		
	602LH	$\mathbf{F}_{i}$	2	Bellied	603SS 605S	F	2	Reg Curve Full Bellie		
	602UA	<b>EP</b>	33 3	Wedge	603UA 603VA	БР	3	Straight Full Bellie		
1036	1036-049-01	FA	3-3/8	Bellied	1036-049-02 1036-049-03 1036-049-04	FA	3-3/8	Bellied Full Bellie 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 Bellie Reg Curv		
	1036-049-06	FA	3-3/8	Full Bellied	1036-049-02 1036-049-03 1036-049-04	FA	3-3/8	Bellied Full Bellie Reg Curv		

# Crusher Jaws - Welded Base Standard & Special

	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	*Stýle 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	702L	F	2	Straight	703L 705A01	FE	2	Reg Curve Full Bellied
ఆ ఉద్దేవి -	9001-344	EP	3	Bellied	9001-345	EP	<b>.</b> 3	RegCurve
1830	1830B01	F	2	Straight	1830B02	F	2	Reg Curve
	1636-050-20	EP	3	Bellied	1636-050-21 1636-050-22	<b>EP</b>	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	<b>3</b>	Straight Bellied
	2236-006-10	FA	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

# **Crusher Jaws - Welded Base** Standard & Special

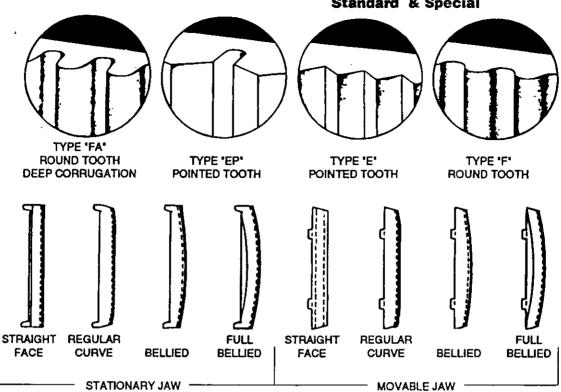
	SINGL	E OVE	RHEAD	ROLLER BI	EARING CRUS	HER		
WELDED BASE		OITAT	NARY			MOVA	BLE	
#Model #Number	Part XNumber	Style Tooth		Profile	Part Number	Style Tooth	Pitch (inch)	Profile
	802D	E	2	Straight	803D 805B	Е	2	Straight Bellied
	802-01	EP	3	Bellied	803DA 805C	EP	3	Straight Bellied
2226	802DB	ΕP	3	Wedge	803DA 805C	EΡ	3	Straight Bellied
	2236-006-10	FA	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
	2248-10-01	EP .	3	Bellied	2248-100-02 2248-100-08	EP	3	Straight Bellied
2248	2248-10-09	FA .	4-3/8	Straight	2248-100-10 2248-100-12	FA	4-3/8	Reg Curve Bellied
	2248-10-11	FA	4-3/8	Bellied	2248-100-10 2248-100-12	FA	4-3/8	Reg Curve Bellied
2436	2436-400-01 2436-400-05	EP	3	Reg Curve Full Bellied	2436-401-01	EP	3	Bellied
7	901K	E	3	Straight :	902K	E	3 1	Straight
	,901KA	<b>EP</b>	3	Straight	902KA -902L	DS EP	3	Straight Bellied
2540	901KC	· EP	3	Bellied	902KA 902L	DS EP	3	Straight Bellied
.2540	901L	EP	3	Wedge	902KA 902L	DS EP	3	Straight Bellied
	2540-400-03	FA	5-3/8	Bellied 🧳	`2540-400-04 2540-400-06	FA	5-3/8	Bellied 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 11 15	901HA	В	3	Bellied	902H	В	3	Bellied
2540 H.D.	901KA	EΡ	3	Straight	902KA	DS		Straight
20.42	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

# Crusher Jaws - Welded Base Standard & Special

Part Number 901KA 901KC 901L	Style* Tooth EP	Pitch (Inch)	Profile Straight	Part Number	MOVA Style Tooth	Pitch	
901KA 901KC	Tooth EP	(Ínch)					
901KC	·		Straight		i vout	(Inch)	Profile
<del></del>	EP		Suaignt	3040A05 3040-600-01	DS EP	3	Straight Full Bellied
901L	i i	3	Bellied	3040A05 3040-600-01	DS EP	3	Straight Full Bellied
	EP	3	Wedge	3040A05 3040-600-01	DS EP	3	Straight Full Bellied
540-400-03	FA	5-3/8	Bellied	3040A05 3040-600-01	DS FA	5-3/8	Straight Reg Curve
540-400-05	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	<b>1</b>	Straight	3242L02	DS		Straight
3242L01F	<b>E</b> P	7	Straight	3242L02 3242L02D	DS EP	7.	Straight Full Bellied
242-050-06	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
242-050-04	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
645-049-20	FA	6-3/8	Reg Curve	3645-049-21 3645-049-30	FA	6-3/8	Reg Curve Bellied
545-049-22	FA	6-3/8	Bellied	3645-049-21 3645-049-30	FA	6-3/8	Reg Curve Bellied
60-049-03	FA	6	Bellied Reg Curve	3660-049-01	FA	6	Bellied
3242L01 3242L01F	E EP	7	Straight	3242L02	DS		Straight
242-050-06	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
242-050-04	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
248B01D	Swage	6	Bellied	4248B02	DS		Bellied
48-049-01 48-049-03	FA FA	6 6	Reg Curve Bellied	4248B02 4248-049-02	DS FA	6	Beilied Reg Curve
60-001-85 60-001-93	FA	6	Straight Bellied	5460-001-86 5460-001-92	FA	6	Straight Bellied
248B01D 248-049-01	Swage FA	6	Bellied Reg Curve	4248B02 4248B02	DS DS		Bellied Bellied Reg Curve
	3242L01 3242L01F 242-050-06 242-050-04 545-049-20 545-049-02 560-049-03 3242L01 242-050-06 242-050-04 248-049-01 248-049-01 248-049-03 160-001-85 160-001-93 248B01D	3242L01 E 3242L01F EP 242-050-06 FA 242-050-04 FA 545-049-20 FA 560-049-02 FA 560-049-03 FA 3242L01 E 242-050-06 FA 242-050-06 FA 242-050-06 FA 248-010 Swage FA 248-049-01 FA 248-049-01 FA 248-049-01 FA 248-049-01 FA 248-049-01 FA	3242L01F EP 7  242-050-06 FA 6-3/8  242-050-04 FA 6-3/8  545-049-20 FA 6-3/8  560-049-02 FA 6-3/8  3242L01 E 7  242-050-06 FA 6-3/8  242-050-06 FA 6-3/8  242-050-06 FA 6-3/8  248-049-01 FA 6   3242L01 E 7 Straight  3242L01F EP 7 Straight  242-050-06 FA 6-3/8 Bellied  242-050-04 FA 6-3/8 Bellied  545-049-20 FA 6-3/8 Bellied  545-049-22 FA 6-3/8 Bellied  560-049-02 FA 6-3/8 Bellied  660-049-03 FA 6 Bellied  7 Straight  242L01F EP 7 Straight  242L01F FA 6-3/8 Bellied  242-050-06 FA 6-3/8 Bellied  242-050-04 FA 6-3/8 Bellied  242-050-04 FA 6-3/8 Bellied  248-049-01 FA 6 Bellied  248-049-03 FA 6 Bellied  248-049-03 FA 6 Bellied  248-049-01 FA 6 Bellied	540-400-05         FA         5-3/8         Reg Curve         2640-001-27 2640-001-26           3242L01         E         7         Straight         3242L02           3242L01F         EP         7         Straight         3242L02           3242L02D         3242L02D         3242L02D         3242L02D           242-050-06         FA         6-3/8         Bellied         3242L02D           242-050-04         FA         6-3/8         Bellied         3242L02D           3242-050-05         3242L02         3242-050-07         3242-050-07           3242-050-05         FA         6-3/8         Bellied         3645-049-21           3645-049-22         FA         6-3/8         Bellied         3645-049-21           360-049-02         FA         6         Bellied         3660-049-01           3242L01         E         7         Straight         3242L02           3242L01         E         7         Straight         3242L02           3242L02         3242-050-07         3242-050-05         3242L02           3242L03         3242L02         3242-050-05           3242L04         3242-050-05         3242L05           3242-050-05         3242-050-05 </td <td>540-400-05         FA         5-3/8         Reg Curve         2640-001-26 FA         FA           3242L01         E         7         Straight         3242L02         DS           3242L01F         EP         7         Straight         3242L02         DS           3242L02D         EP         3242L02D         DS         3242L02D         DS           242-050-06         FA         6-3/8         Bellied         3242-050-07 FA         3242L02         DS           242-050-04         FA         6-3/8         Bellied         3242-050-07 FA         3242-050-05 FA           242-050-04         FA         6-3/8         Bellied         3645-049-21 FA         FA           345-049-20         FA         6-3/8         Bellied         3645-049-21 FA         FA           360-049-02         FA         6-3/8         Bellied         3645-049-21 FA         FA           30-049-03         FA         6         Bellied         3660-049-01 FA         FA           30-042-01F         EP         7         Straight         3242L02 DS         DS           30-042-01F         EP         7         Straight         3242L02 DS         DS           30-00-04         FA</td> <td>  Section</td>	540-400-05         FA         5-3/8         Reg Curve         2640-001-26 FA         FA           3242L01         E         7         Straight         3242L02         DS           3242L01F         EP         7         Straight         3242L02         DS           3242L02D         EP         3242L02D         DS         3242L02D         DS           242-050-06         FA         6-3/8         Bellied         3242-050-07 FA         3242L02         DS           242-050-04         FA         6-3/8         Bellied         3242-050-07 FA         3242-050-05 FA           242-050-04         FA         6-3/8         Bellied         3645-049-21 FA         FA           345-049-20         FA         6-3/8         Bellied         3645-049-21 FA         FA           360-049-02         FA         6-3/8         Bellied         3645-049-21 FA         FA           30-049-03         FA         6         Bellied         3660-049-01 FA         FA           30-042-01F         EP         7         Straight         3242L02 DS         DS           30-042-01F         EP         7         Straight         3242L02 DS         DS           30-00-04         FA	Section	

- 4 -

### **Crusher Jaws - Cast Base** Standard & Special



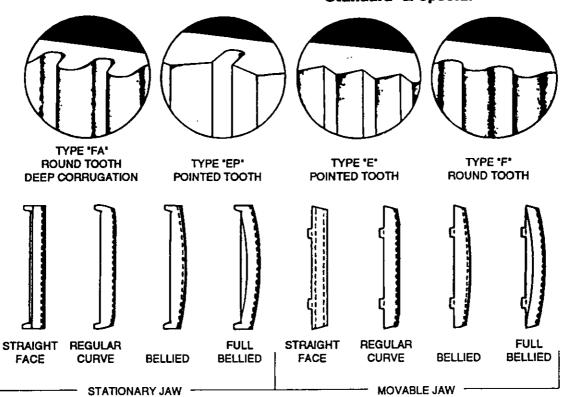
						,				
	SINGL	E OVE	RHEAD	ROLLER B	EARING CRUS	HER	•			
CAST BASE		OITATE	NARY		MOVABLE					
Model Number	Part Number	Style Tooth	Pitch (Inch)	Profile	Part Number	Style Tooth	Pitch (Inch)	Profile		
336	6		-Obsole	ete-	7		-Obsole	te-		
336 Special	102	None		Full Bellied	103	None	<b>游</b> , 74	Straight		
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	E	与1-1/2 1-1/2	Reg Curve Full Bellied		
1024	502	Е	1-1/2	Bellied	503 505	E	1-1/2	Reg Curve Full Bellied		
Say Winds Land	602L	K.F.	2	Bellied	603SS 605S	F	2	Reg Çürve Full Bellied		
	602LH	<b>第</b> 4 4	2	Bellied	603SS 605S	F F	2	Reg Curve Full Bellied		
	602UA	P	3	Wedge	603UA 605VA	_EP;* E <b>P</b> ;*	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		
, 1 %	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

	SING	LE OVE	RHEAD	ROLLER B	EARING CRUS	HER				
CAST BASE		STATIO	NARY		MOVABLE					
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	<b>F</b> 3.5	2,	Straight	703L 705A01	F	2	Reg Curve Full Bellied		
- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14	9001-344	EP	<b>3</b> ;	Bellied	9001-345	EP	3,	Reg Curve		
1536	802X	E	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	Ź	Reg Curve		

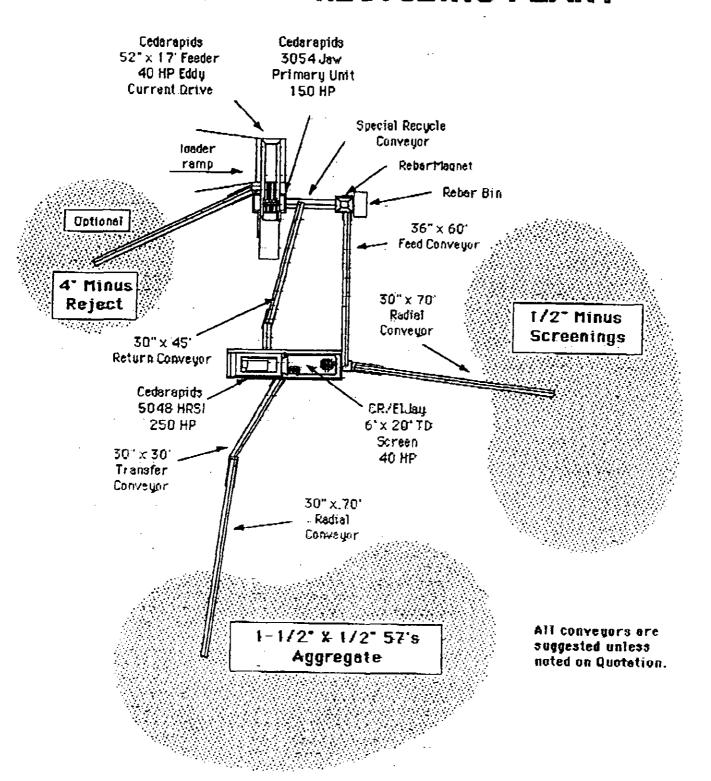
A Raytheom Company

# Crusher Jaws - Twin/Dual/Gyra Standard & Special



	. TWIN JAW ROLLER BEARING CRUSHER											
		OITAT	NARY			MOVA	BLE					
Model Number	Part Number	Style Tooth	Pitch (Inch)	Profile	Part Number/	Style Tooth	Pitch (Inch)	Profile				
1216					303U	F	2	Bellied				
1236				# 100 H	1604A07 1640A07-02	P.	3	Reg Curve Wedge				
1624					703T	F		Bellied				
1836					1602A06 1602A06C 1602-001-05 1602-001-04 1602-001-03	E EP FA FA FA FA	3 3 3-3/8 3-3/8 3-3/8	Reg Curve Reg Curve Full Bellied Bellied Reg Curve				
	D	UAL J	W ROI	LER BEAR	ING CRUSHER							
1640 640	1700-12A	Е	3	Reg Curve	1700-13A	E	3	Bellied				
1830 630	>-1702A07A	<b>EP</b>	3	Reg Curve	1702A08A	EP.	32	Bellied				
	GYR	A DUA	JAW (	ROLLER BE	ARING CRUSH	ER						
1036	1604A07	EP	3	Reg Curve	1606-002-01 1606-002-04	EPP	3	Bellied Full Bellied				

# TYPICAL CEDARAPIDS/ELJAY CONCRETE RECYCLING PLANT



Mark White/Eedarapids line Friday, April 3, 1998 2:57 PM v1:5.1 31 ft/in Ellay Division, Cedarapids, Inc. makes no warranty or representation, either express or implied, with respect to this software, its quality, performance, merchantability, or fitness for a particular purpose.

# **Jaw Crusher Standard Jaw Configuration**

	S	TANDARD JA	W CRUS	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	Ē	2436*	Regular Curve	Bellied	EP
1024	Bellied	Regular Curve	Ε	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
2236	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.

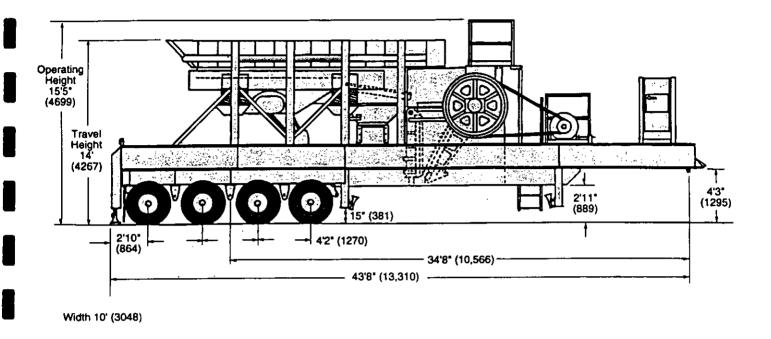
### Pitman Jaw Plate & Key Wedge

- (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.

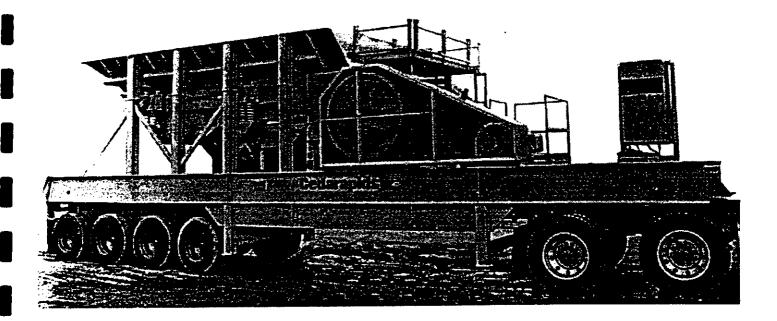
Cedarapids Inc • 916 Sixteenth St NE • Cedar Rapids IA 52402 USA • Telephone 319 363 3511 • Fax 319 399 4871



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	I 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	
Jaw	150 hp, 1200 rpm, electric, tefc
Feeder 40 hp, variabl	e speed 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)	
Total	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

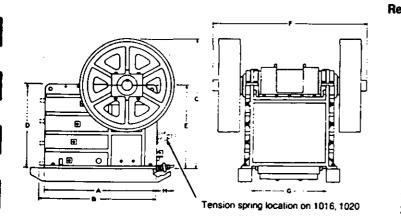
#### Main Frame with Quad Axle

Fifth wheel kingpin
Flaps, brake and turn 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	Closed St	roke - Inc	hes & (mm)
Size	Min.	Max.	Size	Min.	Max.
1016	¾ (19)	31/2 (89)	2248	21/2 (64)	6 (152)
1020	<del>¾</del> (19)	31/2 (89)	2436	21/2 (64)	6 (152)
1024	₹ (19)	3½ (89)	2438	41/2 (114)	8 (203)
1036	1½ (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	1½ (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	2½ (64)	6 (152)	5748	19 (483)	28 (711)

Dimen	sion to 1	he near	est Inch	and 5mn	n -									
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		-	<u>-</u>		-	-	-	-	_	73 1855	<del>-</del> -	_	-	-
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	36	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
	660	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	2335	2335
G	22	26	27	41	41	47	53	27	41	47	53	27	41	43
	560	660	685	1040	1040	1195	1345	685	1040	1195	1345	685	1040	1090
н	14	14	21	18	19	20	19	18	16	20	16	19	16	17
	355	355	535	455	480	510	480	455	405	510	405	480	405	430
fodel	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	<del>-</del>	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	2440	2440	3225
E	54	61	49	65	64	64	64	77	84	88	77	101	101	130
	1370	1550	1245	1650	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	2385	2335	2415	2515	2515	2795	2515	2565	3025	2515	3050	3050	3555
G	53	43	43	45	47	47	69	47	52	78	47	55	55	67
	1345	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

#### **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

			9 mm - w	reights (I	(g)									
<u>Model</u>	1016	1020	1024	1036	1236	1242	1248	1524	1636	1642	1648	1824	1836	2236
Weights	5306	7000	8255	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	11 <b>02</b> 2	5581	<b>95</b> 27	15421	12885	5636	9653	11296
НР	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 255x405			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 Die.	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	6.4375
Side Bearing	85	113	113	138	151	164	164	125	164	220	180	125	164	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	30	36	36	36	36	42	42	36	42	55	42	36	42	50
Flywheel Dia.	760	915	915	915	915	1065	1065	915	1065	1395	1065	915	1065	1270
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	<b>68</b> 5	685	785	840	865	1015	1040	1145	1040	1015	1040	1270
Model	2248	2436	2438	2542	2742	3042 7	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
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 1372x15
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	<b>45</b> 7
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	15.750 400	15.750 400	19.687 500
itd. Grooved	57	57	55	57	57	57	57	57	72	72	57	72	72	84
lywheel Dis.	1445	1445	1395	1445	1445	1445	1445	1 <b>44</b> 5	1830	1830	1445	1830	1 <b>83</b> 0	2134
ace Std.	18	15	13	15	15	18	18	18	13	13	18	13	13	20
lywheel	455	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
law Length	1145	1345	1090	1445	1445	1445	1445	1725	1956	1956	1725	2285	2285	2870
Movable	56	65	50	63	65	65	65	75	85	85	75	98	98	129
law Length	1420	1650	1270	1600	1650	1650	1650	1905	2160	2160	1905	2490	2490	3277

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Engine Division

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Connie Griffore Generator Rental Manager 313/349-7050 Ext. 323 Light Plants/Used Gen Sets

resources residu and delivered to you in a package that is ready to be connected to you fuel and power lines ... ENGENSIZE (Computer sizing) available ... Supported 100% by your Caterpillar® Dealer with Warranty — Parts and Labor ... Extended Warranty available in some areas ... Generator Sat and Components meet or exceed the following specifications: AS1359, AS2789, ABGSM TM3, BS4999, DIN6271, DIN6280, EGSA101P, JEM1359, IEC 34/1, ISO 3048/1, ISO 3048/1, ISO 3048/2, NEMA MG1-29 DIS8528, NEMA MG1-22.

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 SR4 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 REGULATOR 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 Oll, gear driven Jacket Water, gear driven Radiator Shutoff, Manual Starting, Electric, 24 volt DC GENERATOR

CONTROL PANEL Digital Ammeter, Voltmeter, Phase Selector Switch. Frequency Meter Auto start-stop control module w/Cycle Crank and Cooldown Digital DC Voltmeter. lachometer, 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 Overapaed Overcrank Emergency Stop Push Button Voltage Adjust Rheostat System Diagnostic Codes Digital Readout Lamp Display

#### OPTIONAL EQUIPMENT

Automatic Voltage Regulator

ENGINE Air Cleaner, Heavy Duty Charging Alternator Exhaust Systems Governor, Woodward Protection Devices Techometer Drive GENERATOR Manual Voltage control Space Heater MIL Std. 481B RFI N Level (VDE 875), BS800 SWITCHGEAR

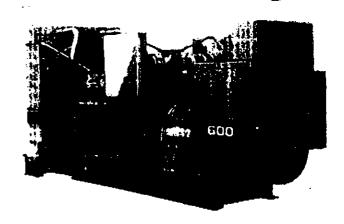
\$R4 Brushless with VR3

Circuit Breaker Manual Electric Operated
Enclosure—Floor standing NEMA 1 Main Load Buss

SWITCHGEAR Paralieling Manuel Permissive Auto (Consult Factory) Protective Relays CONTROL PANEL Enclosure, NEMA 12/IP 44 Provision for: Alarm Module Auxiliary Relay Governor Speed Switch Illuminating lights Installed 1724 speed sensing pariel Reverse Power Relay Starting Ald Switch Synchronizing Lights

# **GENERATOR** SET

PRIME POWER **899** kW



Generator Set may be shown with optional equipment

#### GENERAL SPECIFICATIONS - 60 Hz

CAT 3412 ENGINE 1800 RPM Type-Watercooled Diesel Aspiration—lurbocharged-

aftercooled Cycle-tour stroke No. of Cylinders-V-12 Bare--137 mm (5.4 ln) Stroke-152 mm (6.0 in) Piston Displacement-27,0 liter (1649 cu in) Compression Ratio—14.5.1

#### CATERPILLAR SR4 GENERATOR

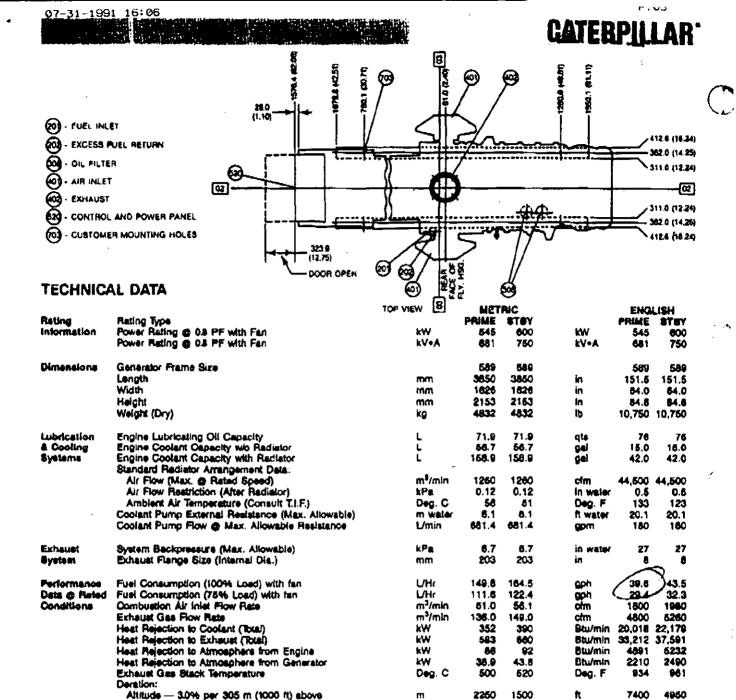
Frame Size-589 Type-Static Regulated Brushless Excited Construction-Single Bearing, Close coupled Three Phase—was connected Insulation—Class F with Tropicalization Terminal Box-drip proof IP 22 Overspeed Capability-150% Wave Form-Less than 5% Deviation Paralleling Capability—Optional with adjustable 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-Loss 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 deration)



#### 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.

Temperature — 1.9% per 6.5 deg. C (10 deg. F) above

760 m (2500 ft)

at sea level or per degree above standard ambient at altitude above

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 3048 and on fuel off of 35 deg. API (16 deg. C or 60 deg. F) gravity having a LHV of 42 780 kL/kg (18,390 Btu/lb) when used at 29 deg. C (85 deg. F) and weighing 838.9 g/l (7.001 lba/U.S. gal.).

Deg. F

No generator set deration required below 55 deg. C (131 deg. F)

Materials and specifications are subject to charge without nation. The International Bystem of Units (80) is used in this publication.

55

Deg. C

LEHX9443 (12-59) Supersedes LEHX5456

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### **Emissions Data** Caterpillar 3412 Generator Set **545**ekw, 1800rpm *800*

....

3412C DI TA JW DRY MANE TURBO OTY 2 TM4610-06 PGS PRIME 60 MERTE EXX 6TM DIA 6.0 IN GEN 545.0 M/E EMF 566.0 M/O F EMW 780 M/F BHP 83 HYDRA GOV 810 W/O F BHP # 1900 RPH

EMISSIONS DATA * * REFERENCE NOTES - NOT TO EXCEED * * * * * * EMISSIONS DATA MEASUREMENT IS CONSISTENT WITH THOSE DESCRISED IN BPA CER 40 SART 66 SUBPART D AND 180 \$178-1 FOR HEASURING HC. CO. COZ AND HOX. THESE PROCEDURES ARE VERY SINILAR TO THE NETHODS DESCRIBED IN EPA CIR 40 PART 60 APPENDEX A METHOD 25A FOR HYDROCARBONS, METHOD 10 FOR CO, METHOD TE 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 API AND LAV OF 18,390 BTU/LB.

EMISSIONS DATA * * * * * RATED SPEED * * * * STANDARD TIMING "NOT TO EXCEED DATA" OZ (DRY) GEN ENG NOX TOTAL PART IN EXH SHORT BOSCH (AS HOZ) PMR PHA. CQ HC MATTER (VOL) OPAC SHORE T.KU LOAD BHP LA /HOL . 47 \$45.0 100 810.0 13.64 .13 .425 10.01 100.6 75 616.0 11.04 .17 -413 10.48 3.4 1.35 272.5 50 424.0 0.43 .16 . 20 .316 11.20 2.5 1.26 136.3 25 235.0 5.67 .18 .254 13.46 114.0 .44 .

EMISSIONS DATA + + + + + PATED CONDITIONS + + STANDARD TIMENG "NOMINGAL DATA" AT RATED: WET EXHAUST MASS
WET EXHAUST FLOW ( 891 DEG F STACK TEMP)
WET EXHAUST FLOW RATE ( 32 DEG F AND 29.96 IN HG )...
DRY EXHAUST FLOW RATE ( 32 DEG F AND 29.98 IN HG )... 7943 LE/SDL 4561 CEN 1670 ETD CEN 1507 ETD CEN FUEL FLOW BATE ....

39.9 GAL/HIL

VI. CONTROL EQUIPMENT

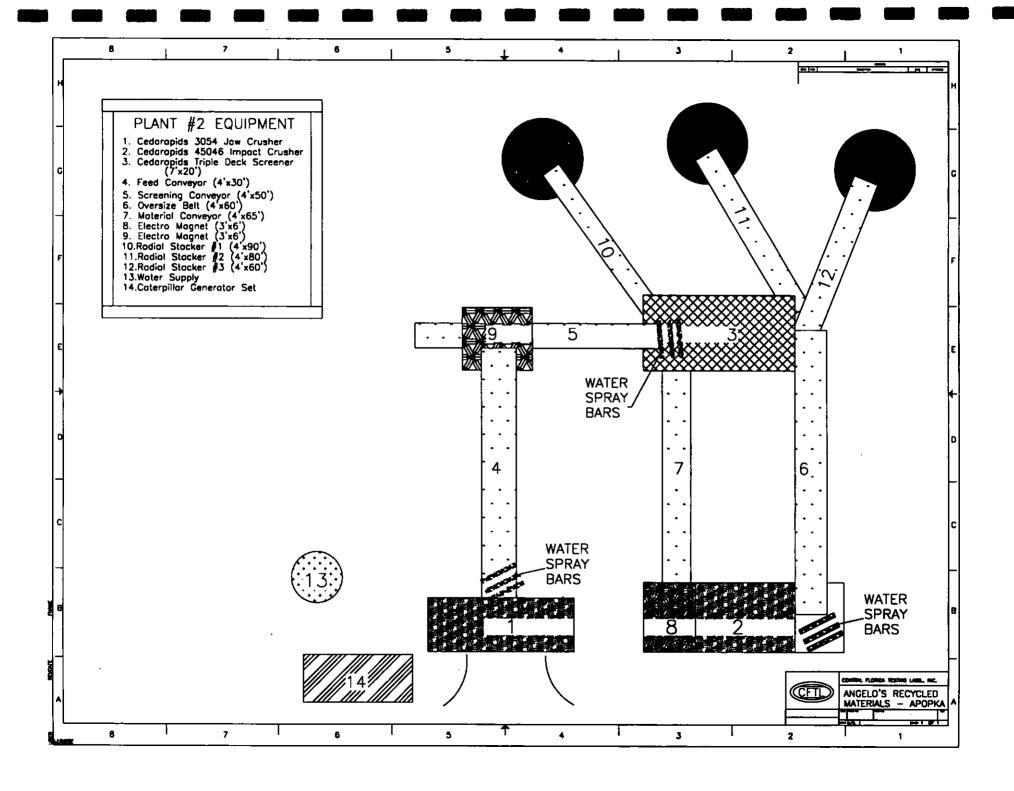
#### **CONTROL EQUIPMENT**

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>	initials
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VIII. TYPICAL FUEL ANALYSIS



# CENTRAL OIL COMPANY, INC. FUEL OIL #2 (DISTILLATE) SPECIFICATIONS

CHARACTERISTICS	MIH	XAM
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	
APPEAKANCE		1.5
COLOR, ASTM		1-A
CORROSION, COPPER STRIP 3 HRS.122°F		"REPORT"
BTU PER U.S. GALLON		138,500