

MARYLAND DEPARTMENT OF THE ENVIRONMENT

**AIR AND RADIATION ADMINISTRATION
APPLICATION FOR A PERMIT TO CONSTRUCT**

DOCKET #05-26

COMPANY: Superior Contracting Services, Inc.

LOCATION: 14189 Backbone Road, Eden, MD 21822

APPLICATION: Installation of one (1) 150 tph crushing and screening plant consisting of one (1) jaw crusher powered by one (1) 230 horsepower Tier I diesel engine, one (1) combo crushing and screening unit powered by one (1) 270 horsepower Tier II diesel engine and one (1) stacking conveyor powered by one (1) 48 horsepower Tier IV diesel engine.

<u>ITEM</u>	<u>DESCRIPTION</u>
1	Notice of Application and Opportunity to Request an Informational Meeting
2	Permit to Construct Application Forms – Forms 5, 5T, 5EP, Site Location Map and Plot Plan, manufacturer specifications and emissions calculations, zoning approval documentation, process flow diagram, and Environmental Justice (EJ) Summary Report.

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION**

**NOTICE OF APPLICATION AND
OPPORTUNITY TO REQUEST AN INFORMATIONAL MEETING**

The Maryland Department of the Environment, Air and Radiation Administration (ARA) received a permit-to-construct application from Superior Contracting Services, Inc. on June 23, 2025 for the installation of one (1) 150 tph crushing and screening plant consisting of one (1) jaw crusher powered by one (1) 230 horsepower Tier I diesel engine, one (1) combo crushing and screening unit powered by one (1) 270 horsepower Tier II diesel engine and one (1) stacking conveyor powered by one (1) 48 horsepower Tier IV diesel engine. The proposed installation will be located at Reynolds Excavation, 14189 Backbone Road, Eden, MD 21822.

In accordance with HB 1200/Ch. 588 of 2022, the applicant provided an environmental justice (EJ) Score for the census tract in which the project is located. The EJ Score, expressed as a statewide percentile, was shown to be 58 which the Department has verified. This score represents a combined measure of pollution and the potential vulnerability of a population to the effects of pollution.

Copies of the application, the MDE EJ Screening Tool Report (which includes the score), and other supporting documents are available for public inspection on the Department's website at <https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/index.aspx> (click on Docket Number 05-26). Any applicant-provided information regarding a description of the environmental and socioeconomic indicators contributing to that EJ score can also be found at the listed website. Such information has not yet been reviewed by the Department. A review of the submitted information will be conducted when the Department undertakes its technical review of all documents included in the application.

Pursuant to the Environment Article, Section 1-603, Annotated Code of Maryland, the Department will hold an informational meeting to discuss the application and the permit review process if the Department receives a written request for a meeting within 10 working days from the date of the second publication of this notice. A requested informational meeting will be held virtually using teleconference or internet-based conferencing technology unless a specific request for an in-person informational meeting is received. All requests for an informational meeting should be directed to the attention of Ms. Shannon Heafey, Air Quality Permits Program by email to shannon.heafey@maryland.gov or by mail to the Air and Radiation Administration, 1800 Washington Boulevard, Baltimore, Maryland 21230. Further information may be obtained by calling Ms. Shannon Heafey at 410-537-4433.

Christopher R. Hoagland, Director
Air and Radiation Administration

SUPERIOR CONTRACTOR SERVICES, INC

8635 NINEPIN BRANCH RD.

BERLIN, MD. 21811

CHRISTOPHER RUSSELL 443-614-7150 DENNIS RUSSELL 443-497-0395

AIR QUALITY PERMITS PROGRAM

MARYLAND DEPARTMENT OF THE ENVIRONMENT

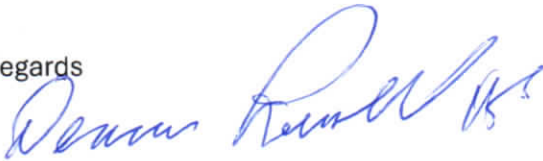
1800 WASHINGTON BOULEVARD

BALITMORE, MD. 21230

ATTENTION: MATT HAFNER

Enclosed please find requirements for Reynolds Excavation permanent crushing site that we discussed. I believe all the requirements that you listed are met. If not, please contact me about anything else.

Regards

A handwritten signature in blue ink, appearing to read "Dennis Russell", with a stylized flourish at the end.

Dennis Russell, V. Pres

Superior Contractor Services, Inc



AIR QUALITY PERMIT TO CONSTRUCT APPLICATION CHECKLIST

OWNER OF EQUIPMENT/PROCESS	
COMPANY NAME:	SUPERIOR CONTRACTOR SERVICES, INC
COMPANY ADDRESS:	8635 NINEPIN BRANCH RD BERLIN, MD 21811
LOCATION OF EQUIPMENT/PROCESS	
PREMISES NAME:	REYNOLDS EXCAVATION
PREMISES ADDRESS:	14189 BACKBONE RD EDEN, MD. 21822
CONTACT INFORMATION FOR THIS PERMIT APPLICATION	
CONTACT NAME:	Dennis Russell
JOB TITLE:	V. Pres.
PHONE NUMBER:	443-497-0395
EMAIL ADDRESS:	superior0133@outlook.com
DESCRIPTION OF EQUIPMENT OR PROCESS	

Application is hereby made to the Department of the Environment for a Permit to Construct for the following equipment or process as required by the State of Maryland Air Quality Regulation, COMAR 26.11.02.09.

Check each item that you have submitted as part of your application package.

- ☐ Application package cover letter describing the proposed project
- ☒ Complete application forms (Note the number of forms included or NA if not applicable.)

No. <u> X </u> Form 5	No. <u> N/A </u> Form 11
No. <u> X </u> Form 5T	No. <u> N/A </u> Form 41
No. <u> X </u> Form 5EP	No. <u> N/A </u> Form 42
No. <u> N/A </u> Form 6	No. <u> N/A </u> Form 44
No. <u> N/A </u> Form 10	
- ☒ Vendor/manufacture specifications/guarantees
- ☒ Evidence of Workman's Compensation Insurance
- ☒ Process flow diagrams with emission points
- ☒ Site plan including the location of the proposed source and property boundary
- ☒ Material balance data and all emissions calculations
- ☐ Material Safety Data Sheets (MSDS) or equivalent information for materials processed and manufactured.
- ☐ Certificate of Public Convenience and Necessity (CPCN) waiver documentation from the Public Service Commission ⁽¹⁾
- ☒ Documentation that the proposed installation complies with local zoning and land use requirements ⁽²⁾

⁽¹⁾ Required for emergency and non-emergency generators installed on or after October 1, 2001 and rated at 2001 kW or more.

⁽²⁾ Required for applications subject to Expanded Public Participation Requirements.

APPLICATION FOR FUEL BURNING EQUIPMENT

Information Regarding Public Outreach

For Air Quality Permit to Construct applications subject to public review, applicants should consider the following information in the initial stages of preparing a permit application.

If you are not sure at the time you are applying for a permit whether public review of your application is required or for information on steps you can take to engage the surrounding community where your planned project will be located, please contact the Air Quality Permits Program at 410-537-3225 and seek their advice.

Communicating and engaging the local community as early as possible in your planning and development process is an important aspect of your project and should be considered a priority. Environmental Justice or "EJ" is a movement to inform, involve, and engage communities impacted by potential and planned environmental projects by affording citizens opportunities to learn about projects and discuss any concerns regarding impacts.

Although some permit applications are subject to a formal public review process prescribed by statute, the Department strongly encourages you to engage neighboring communities separate from and well ahead of the formal permitting process. Sharing your plans by way of community meetings, informational outreach at local gatherings or through local faith-based organizations can initiate a rewarding and productive dialogue that will reduce anxiety and establish a permanent link with your neighbors in the community.

All parties benefit when there is good communication. The Department can assist applicants in developing an outreach plan that fits the needs of both the company and the public.

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Blvd ▪ Baltimore, Maryland 21230
(410) 537-3230 ▪ 1-800-633-6101 ▪ www.mde.state.md.us

Air and Radiation Management Administration ▪ Air Quality Permits Program

APPLICATION FOR PROCESSING/MANUFACTURING EQUIPMENT

Permit to Construct ☒

Registration Update ☐

Initial Registration ☐

1A. Owner of Equipment/Company Name

SUPERIOR CONTRACTOR SERVICES, INC

Mailing Address

8635 NINEPIN BRANCH ROAD

Street Address

BERLIN, MD 21811

City State Zip

Telephone Number

(443) 497-0395

Signature

Dennis Russell

Dennis Russell V. Pres

Print Name and Title

DO NOT WRITE IN THIS BLOCK

2. REGISTRATION NUMBER

County No.

--	--

1-2

Premises No.

--	--	--	--

3-6

Registration Class Equipment No.

--

7

--	--	--	--

8-11

Data Year

--	--

12-13

Application Date

1/ 27/ 2025

Date

1B. Equipment Location and Telephone Number (if different from above)

14189 Backbone Rd

Street Number and Street Name

Eden, MD 21822 (410) 651-0770

City/Town State Zip Telephone Number

REYNOLDS EXCAVATION

Premises Name (if different from above)

3. Status (A= New, B= Modification to Existing Equipment, C= Existing Equipment)

Status

A

15

New Construction Begun (MM/YY)

0	1	2	5
---	---	---	---

16-19

New Construction Completed (MM/YY)

--	--	--	--

20-23

Existing Initial Operation (MM/YY)

--	--	--	--

20-23

4. Describe this Equipment: Make, Model, Features, Manufacturer (include Maximum Hourly Input Rate, etc.)

PEGSUN JAW / TEREX FINLAY 1-100RS IMPAC 150 TON/HR / 100 TON / HR

5. Workmen's Compensation Coverage

11365

07/01/25

Binder/Policy Number

Expiration Date

Company BBSI

NOTE: Before a Permit to Construct may be issued by the Department, the applicant must provide the Department with proof of worker's compensation coverage as required under Section 1-202 of the Worker's Compensation Act.

6A. Number of Pieces of Identical Equipment Units to be Registered/Permitted at this Time 0

6B. Number of Stack/Emission Points Associated with this Equipment 3



7. Person Installing this Equipment (if different from Number 1 on Page 1)

Name _____ Title _____
Company _____
Mailing Address/Street _____
City/Town _____ State _____ Telephone (____) _____

8. Major Activity, Product or Service of Company at this Location

Receiving concrete and aphalt debris for recycling to RC6 / millings

This is not a stationary crusher, only runs when enough material is accumulated.

9. Control Devices Associated with this Equipment

None

☒ 24-0

Simple/Multiple
Cyclone

☐

24-1

Spray/Adsorb
Tower

☐

24-2

Venturi
Scrubber

☐

24-3

Carbon
Adsorber

☐

24-4

Electrostatic
Precipitator

☐

24-5

Baghouse

☐

24-6

Thermal/Catalytic
Afterburner

☐

24-7

Dry
Scrubber

☐

24-8

Other

☒

Describe Spray bar as needed

24-9

10. Annual Fuel Consumption for this Equipment

OIL-1000 GALLONS

			1	5	4
--	--	--	---	---	---

26-31 DAY

SULFUR %

1	5
---	---

32-33

GRADE

LS

34

NATURAL GAS-1000 FT³

--	--	--	--	--	--	--

35-41

LP GAS-100 GALLONS

--	--	--	--

42-45

GRADE

--

COAL- TONS

--	--	--	--	--	--	--

46-52

SULFUR %

--	--	--

53-55

ASH%

--	--	--

56-58

WOOD-TONS

--	--	--	--	--

59-63

MOISTURE %

--	--	--

64-65

OTHER FUELS

☐

ANNUAL AMOUNT CONSUMED

(Specify Type)

66-1

(Specify Units of Measure)

OTHER FUEL

☐

ANNUAL AMOUNT CONSUMED

(Specify Type)

66-2

(Specify Units of Measure)

1= Coke 2= COG 3=BFG 4=Other

11. Operating Schedule (for this Equipment)

N/A

Continuous Operation

☐

67-1

Batch Process

☐

67-2

Hours per Batch

--	--

68-69

Batch per Week

☐

Hours per Day

--	--

70-71

Days Per Week

☐

72

Days per Year

--	--	--

73-75

Seasonal Variation in Operation:

No Variation

☐

76

Winter Percent

--	--

77-78

Spring Percent

--	--

79-80

Summer Percent

--	--

81-82

Fall Percent

--	--

83-84

(Total Seasons= 100%)



12. Equivalent Stack Information- is Exhaust through Doors, Windows, etc. Only? (Y/N) ☐

SEE DIAGRAM INFO

85

If not, then

Height Above Ground (FT)

Inside Diameter at Top

Exit Temperature (°F)

Exit Velocity (FT/SEC)

86-88

89-91

92-95

96-98

NOTE:

Attach a block diagram of process/process line, indicating new equipment as reported on this form and all existing equipment, including control devices and emission points.

13. Input Materials (for this equipment only)

Is any of this data to be considered confidential? ☐ (Y or N)

INPUT RATE

	NAME	CAS NO. (IF APPLICABLE)	PER HOUR	UNITS	PER YEAR	UNITS
1.	Concrete debris					
2.						
3.	JAW		100 T			
4.	IMPAC		100T			
5.						
6.						
7.						
8.						
9.						

TOTAL

14. Output Materials (for this equipment)

Process/Product Stream

OUTPUT RATE

	NAME	CAS NO. (IF APPLICABLE)	PER HOUR	UNITS	PER YEAR	UNITS
1.						
2.	JAW		100 T			
3.	IMPAC		100T			
4.						
5.						
6.						
7.						
8.						
9.						

TOTAL

15. Waste Streams- Solid and Liquid

N / A

OUTPUT RATE

	NAME	CAS NO. (IF APPLICABLE)	PER HOUR	UNITS	PER YEAR	UNITS
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						

TOTAL



16. Total Stack Emissions (for this equipment only) in Pounds Per Operating Day**SEE CHARTS**

--	--	--	--	--	--

Particulate Matter

99-104

--	--	--	--	--	--

Oxides of Sulfur

105-110

--	--	--	--	--	--

Oxides of Nitrogen

111-116

--	--	--	--	--	--

Carbon Monoxide

177-122

--	--	--	--	--	--

Volatile Organic Compounds

123-128

--	--	--	--	--	--

PM-10

129-134

17. Total Fugitive Emissions (for this equipment only) in Pounds Per Operating Day**SEE CHARTS**

--	--	--	--	--	--

Particulate Matter

135-139

--	--	--	--	--	--

Oxides of Sulfur

140-144

--	--	--	--	--	--

Oxides of Nitrogen

145-149

--	--	--	--	--	--

Carbon Monoxide

150-154

--	--	--	--	--	--

Volatile Organic Compounds

155-159

--	--	--	--	--	--

PM-10

160-164

Method Used to Determine Emissions (1= Estimate 2= Emission Factor 3= Stack Test 4= Other)

--

TSP

165

2

SOX

166

2

NOX

167

2

CO

168

2

VOC

169

2

PM10

170

AIR AND RADIATION MANAGEMENT ADMINISTRATION USE ONLY**18. Date Rec'd. Local****Date Rec'd. State****Return to Local Jurisdiction**

Date _____ By _____

Reviewed by Local Jurisdiction

Date _____ By _____

Reviewed by State

Date _____ By _____

19. Inventory Date**Month/Year**

--	--	--	--

171-174

Equipment Code

--	--	--

175-177

SCC Code

--	--	--	--	--	--	--

178-185

20.**Annual****Maximum Design****Permit to Operate****Transaction Date****Operating Rate****Hourly Rate****Month****(MM/DD/YR)**

--	--	--	--	--	--	--

186-192

--	--	--	--	--	--	--

193-199

--	--

200-201

--	--	--	--	--	--

202-207

Staff Code

--	--	--

208-210

VOC Code

--	--

211 212

SIP Code

--	--

213 214

Regulation Code

--	--	--	--

215-218

Confidentiality

--

219

Point Description

--	--	--	--	--	--	--	--	--	--	--	--	--

220-238

Action

--

A: Add
C: Change

239



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FORM 5EP: Emission Point Data

Complete one (1) Form 5EP for EACH emission point (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Superior Contractor Services, Inc

1. Emission Point Identification Name/Number

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:
1

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:

Pegsun Jaw

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?		Seasonal Variation Check box if none: ☐ Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	25%
Hours per day:	6	Spring Percent	25%
Days per week:	5	Summer Percent	25%
Weeks per year:	As needed	Fall Percent	25%

4. Emission Point Information

Height above ground (ft):	10' 9"	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:
Height above structures (ft):	0		N/A	
Exit temperature (°F):	934	Inside diameter at top of round stack (ft):		5"
Exit velocity (ft/min):		Distance from emission point to nearest property line (ft):		1000'
Exhaust gas volumetric flow rate (acfm):	1391	Building dimensions if emission point is located on building (ft)	Height	Length N/A
				Width

5. Control Devices Associated with the Emission Point

Identify each control device associated with the emission point and indicate the number of devices. **A Form 6 is also required for each control device.** If none check none:

☒ None	☐ Thermal Oxidizer	No. _____
☐ Baghouse	☐ Regenerative	No. _____
☐ Cyclone	☐ Catalytic Oxidizer	No. _____
☐ Elec. Precipitator (ESP)	☐ Nitrogen Oxides Reduction	No. _____
☒ Dust Suppression System	☐ Selective	☐ Non-Selective
	☐ Catalytic	☐ Non-Catalytic
☐ Venturi Scrubber	☐ Other	No. _____
☐ Spray Tower/Packed Bed	Specify:	
☐ Carbon Adsorber		
☐ Cartridge/Canister		
☐ Regenerative		

FORM 5EP: Emission Point Data

6. Estimated Emissions from the Emission Point

[illegible]

(Attach additional sheets as necessary.)

5

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FORM 5EP: Emission Point Data

Complete one (1) Form 5EP for EACH emission point (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Superior Contractor Services, Inc

1. Emission Point Identification Name/Number

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:
3

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:
MGL Stacking Conveyor

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?		Seasonal Variation	
		Check box if none: ☐ Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	25%
Hours per day:	6	Spring Percent	25%
Days per week:	5	Summer Percent	25%
Weeks per year:	As needed	Fall Percent	25%

4. Emission Point Information

Height above ground (ft):	2' 7"	Length and width dimensions at top of rectangular stack (ft):	Length:		Width:	
Height above structures (ft):	0		N/A			
Exit temperature (°F):	900	Inside diameter at top of round stack (ft):				2"
Exit velocity (ft/min):	564	Distance from emission point to nearest property line (ft):				1000'
Exhaust gas volumetric flow rate (acfm):	N/A	Building dimensions if emission point is located on building (ft)	Height	Length	Width	
				N/A		

5. Control Devices Associated with the Emission Point

Identify each control device associated with the emission point and indicate the number of devices. **A Form 6 is also required for each control device.** If none check none:

☒ None	☐ Thermal Oxidizer	No. _____
☐ Baghouse	☐ Regenerative	
☐ Cyclone	☐ Catalytic Oxidizer	No. _____
☐ Elec. Precipitator (ESP)	☐ Nitrogen Oxides Reduction	No. _____
☐ Dust Suppression System	☐ Selective	☐ Non-Selective
☐ Venturi Scrubber	☐ Catalytic	☐ Non-Catalytic
☐ Spray Tower/Packed Bed	☐ Other	No. _____
☐ Carbon Adsorber	Specify:	
☐ Cartridge/Canister		
☐ Regenerative		

FORM 5EP: Emission Point Data

6. Estimated Emissions from the Emission Point	
--	--

[illegible]

(Attach additional sheets as necessary.)

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FORM 5EP: Emission Point Data

Complete one (1) Form 5EP for EACH emission point (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Superior Contractor Services, Inc

1. Emission Point Identification Name/Number

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:
2

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:

Terex / Finlay Impac Crusher

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?		Seasonal Variation	
		Check box if none: ☐ Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	25%
Hours per day:	6	Spring Percent	25%
Days per week:	5	Summer Percent	25%
Weeks per year:	As Needed	Fall Percent	25%

4. Emission Point Information

Height above ground (ft):	10' 3"	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:
Height above structures (ft):			N/A	
Exit temperature (°F):	968	Inside diameter at top of round stack (ft):		5"
Exit velocity (ft/min):	25 kg/mn	Distance from emission point to nearest property line (ft):		1000'
Exhaust gas volumetric flow rate (acfm):		Building dimensions if emission point is located on building (ft)	Height	Length N/A
				Width

5. Control Devices Associated with the Emission Point

Identify each control device associated with the emission point and indicate the number of devices. **A Form 6 is also required for each control device.** If none check none:

☐ None	☐ Thermal Oxidizer	No. <u> </u>
☐ Baghouse	☐ Regenerative	No. <u> </u>
☐ Cyclone	☐ Catalytic Oxidizer	No. <u> </u>
☐ Elec. Precipitator (ESP)	☐ Nitrogen Oxides Reduction	No. <u> </u>
☒ Dust Suppression System	☐ Selective	☐ Non-Selective
	☐ Catalytic	☐ Non-Catalytic
☐ Venturi Scrubber	☐ Other	No. <u> </u>
☐ Spray Tower/Packed Bed	Specify:	
☐ Carbon Adsorber		
☐ Cartridge/Canister		
☐ Regenerative		

FORM 5EP: Emission Point Data

6. Estimated Emissions from the Emission Point

[illegible]

(Attach additional sheets as necessary.)

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FORM 5T: Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstration

Applicant Name: SUPERIOR CONTRACTOR SERVICE

Step 1: Quantify premises-wide emissions of Toxic Air Pollutants (TAP) from new and existing installations in accordance with COMAR 26.11.15.04. Attach supporting documentation as necessary.

Toxic Air Pollutant (TAP)	CAS Number	Class I or Class II?	Screening Levels (µg/m ³)			Estimated Premises Wide Emissions of TAP			
			1-hour	8-hour	Annual	Actual Total Existing TAP Emissions (lb/hr)	Projected TAP Emissions from Proposed Installation (lb/hr)	Premises Wide Total TAP Emissions (lb/hr)	Premises Wide Total TAP Emissions (lb/yr)
ex. ethanol	64175	II	18843	3769	N/A	0.60	0.15	0.75	1500
ex. benzene	71432	I	80	16	0.13	0.5	0.75	1.00	400

(attach additional sheets as necessary.)

Note: Screening levels can be obtained from the Department's website (<http://www.mde.maryland.gov>) or by calling the Department.

Step 2: Determine which TAPs are exempt from further review. A TAP that meets either of the following Class I or Class II small quantity emitter exemptions is exempt from further TAP compliance demonstration requirements under Step 3 and Step 4.

Class II TAP Small Quantity Emitter Exemption Requirements (COMAR 26.11.15.03B(3)(a))

A Class II TAP is exempt from Step 3 and Step 4 if the Class II TAP meets the following requirements: Premises wide emissions of the TAP shall not exceed 0.5 pounds per hour, and any applicable 1-hour or 8-hour screening level for the TAP must be greater than 200 µg/m³.

Class I TAP Small Quantity Emitter Exemption Requirements (COMAR 26.11.15.03B(3)(b))

A Class I TAP is exempt from Step 3 and Step 4 if the Class I TAP meets the following requirements: Premises wide emissions of the TAP shall not exceed 0.5 pounds per hour and 350 pounds per year, any applicable 1-hour or 8-hour screening level for the TAP must be greater than 200 µg/m³, and any applicable annual screening level for the TAP must be greater than 1 µg/m³.

If a TAP meets either the Class I or Class II TAP Small Quantity Emitter Exemption Requirements, no further review under Step 3 and Step 4 are required for that specific TAP.

FORM 5T: Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstration

Step 3: Best Available Control Technology for Toxics Requirement (T-BACT, COMAR 26.11.15.05)

In the following table, list all TAP emission reduction options considered when determining T-BACT for the proposed installation. The options should be listed in order beginning with the most effective control strategy to the least effective strategy. Attach supporting documentation as necessary.

Target Pollutants	Emission Control Option	% Emission Reduction	Costs		T-BACT Option Selected? (yes/no)
			Capital	Annual Operating	
ex. ethanol and benzene	Thermal Oxidizer	99	\$50,000	\$100,000	no
ex. ethanol and benzene	Low VOC materials	80	0	\$100,000	yes

(attach additional sheets as necessary)

Step 4: Demonstrating Compliance with the Ambient Impact Requirement (COMAR 26.11.15.06)

Each TAP not exempt in Step 2 must be individually evaluated to determine that the emissions of the TAP will not adversely impact public health. The evaluation consists of a series of increasingly non-conservative (and increasingly rigorous) tests. Once a TAP passes a test in the evaluation, no further analysis is required for that TAP. "Demonstrating Compliance with the Ambient Impact Requirement under the Toxic Air Pollutant (TAP) Regulations (COMAR 26.11.15.06)" provides guidance on conducting the evaluation. Summarize your results in the following table. Attach supporting documentation as necessary.

Toxic Air Pollutant (TAP)	CAS Number	Screening Levels (µg/m ³)			Premises Wide Total TAP Emissions		Allowable Emissions Rate (AER) per COMAR 26.11.16.02A		Off-site Concentrations per Screening Analysis (µg/m ³)			Compliance Method Used? AER or Screen
		1-hour	8-hour	Annual	(lb/hr)	(lb/yr)	(lb/hr)	(lb/yr)	1-hour	8-hour	Annual	
ex. ethanol	64175	18843	3769	N/A	0.75	1500	0.89	N/A	N/A	N/A	N/A	AER
ex. benzene	71432	80	16	0.13	1.00	400	0.04	36.52	1.5	1.05	0.12	Screen

(attach additional sheets as necessary)

If compliance with the ambient impact requirement cannot be met using the allowable emissions rate method or the screening analysis method, refined dispersion modeling techniques may be required. Please consult with the Department's Air Quality Permit Program prior to conducting dispersion modeling methods to demonstrate compliance.



8100 NE Parkway Drive, Suite 200 Vancouver, WA 98662
360.828.0700 -- www.BBSI.com

January 2, 2025

907657

INSURED: Superior Contractor Services, Inc.

Client Address: 8635 Nine Pin Branch Rd.
Berlin, MD 21811

Re: Barrett Business Services, Inc. ("BBSI")
Letter of Self-Insurance for Workers' Compensation Coverage

As the named addressee of this letter, your company's required Workers' Compensation coverage is provided through BBSI's state-approved Self-Insured Workers' Compensation Plan by way of your co-employment contract with BBSI.

Additional information is as follows:

Employer Liability Limits:

State: Maryland

\$1,000,000 -- Each Accident

Self-Insurance Certification #: I1365

\$1,000,000 -- Disease Coverage Limit by Client

Workers' Compensation Limits: Statutory

\$1,000,000 -- Disease; Each Employee

Certificate Holder: Air Radiation Administration

1800 Washington Bld. Suite 720 Baltimore, MD. 21230



Effective Dates: 7/1/2024 to 7/1/2025



Project Information: Brief Description (if applicable)



30-Day Cancellation Notice



Blanket Waiver of Subrogation



Specific Waiver of Subrogation in favor of:

Additionally, BBSI's Self-Insured program is further supported by an excess workers' compensation insurance policy with ACE American Insurance Co. Copy of certificate is available upon request.

For additional information, please contact your local BBSI office at: Salisbury

Best Regards,

**220 E Main St, Salisbury, MD
21801**

Gary Kramer

President and Chief Executive Officer

Rev 1.2 - 09/23/2021



To Whom It May Concern:

If you have received our Letter of Self-Insurance and need more clarification please review the explanation below.

BBSI is self-insured for the purpose of workers compensation in the State of Maryland. The reason we provide a "Letter of Self-Insurance" rather than a Certificate of Insurance is because **only insurance companies issue certificates**. Companies like BBSI that are self-insured cannot issue Certificates of Insurance and therefore provide letters of insurance in lieu of certificates.

This in no way diminishes the validity or authenticity of our coverage. In fact, we have to prove tremendous financial strength in order to qualify for this prestigious privilege. Each year the National Workers Compensation Commission audits our coverage and issues the requirements for our continued self-insured status. This includes a bond equal to the dollar amount that would be necessary to carry every active claim to its completion.

We also carry an Excess Workers Compensation Policy which covers BBSI in the event of a catastrophic claim. This excess coverage is designed to kick in after BBSI has reached \$1 Million dollars in a given scenario. BBSI is still responsible for 100% of any claim cost; however, we insure anything above this \$1 Million dollar mark. This is reassurance that you rarely find in standard workers compensation policies as these policies generally have limits. Our coverage has no limits and is even backed by a policy covering us in the event that some catastrophic event does occur.

Please feel free to give me a call if you should have any additional questions.

Sincerely,

Tom Townsend
Risk Consultant
220 E. Main St., Suite B
Salisbury, MD 21801
(410) 546-2020
Fax (410) 202-2471
Tom.Townsend@bbsi.com

SUPERIOR CONTRACTOR SERVICES, INC
6928 EASTSIDE ROAD
PARSONSBURG, MARYLAND 21849
PERMIT-TO-CONSTRUCT CONDITIONS
PERMIT No. 045-0191-6-0193

INDEX

Part A – General Provisions
Part B – Applicable Regulations
Part C – Construction Conditions
Part D – Operating and Monitoring Conditions
Part E – Record Keeping and Reporting
Part F – Temporary Permit-To-Operate Conditions

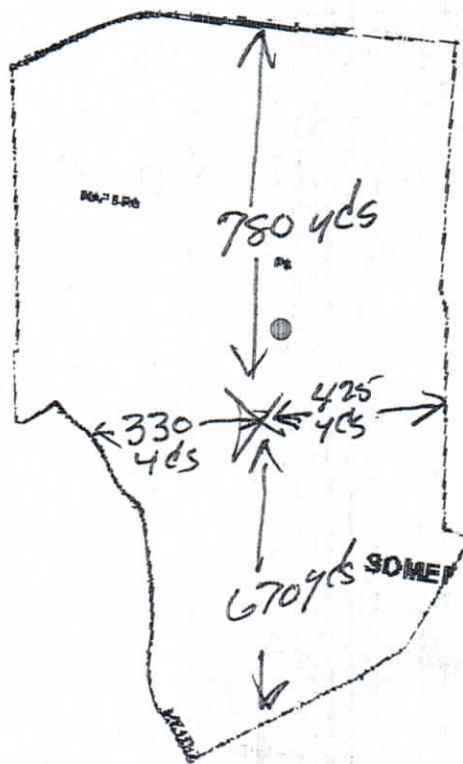
This permit is issued to cover the following registered installation:

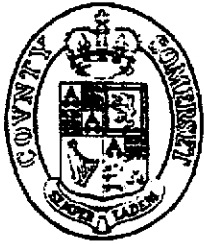
ARMA Registration No.	Description	Date of Installation
045-0191-6-0193	One (1) 150 tph crushing and screening plant equipped with wet suppression and consisting of: • One (1) 150 ton per hour, Pegson Premiertrak 1100x650 jaw crusher powered by one (1) 230 horsepower, Tier III diesel engine; • One (1) 100 ton per hour, Terex Finley I-100RS impact crusher powered by one (1) 275 horsepower, Tier IV diesel engine; • One (1) 150 ton per hour, Terex Finley I-100 impact crusher powered by one (1) 350 horsepower, Tier IV diesel engine; • One (1) 11'x5' Powerscreen Chieftain 1400 single deck screen powered by one (1) 100 horsepower, Tier II diesel engine; and • One (1) MGL Stacking Conveyor powered by one (1) 48 horsepower, Tier IV diesel engine.	2016

Part A – General Provisions

- (1) The following Air and Radiation Management Administration (ARMA) permit-to-construct applications and supplemental information are incorporated into this permit by reference:
 - (a) Application for Processing or Manufacturing Equipment (Form 5) received April 12, 2016.

PARCEL
200 Acres
Surface Mining Permit





SOMERSET COUNTY
DEPARTMENT OF TECHNICAL AND COMMUNITY SERVICES

Jesse Drewer, Director
William Cornish, Assistant Director & Zoning Administrator

Som Co

Dear Mr. Reynolds,

This response is regarding your inquiring for recycling concrete and asphalt on the property located off Backbone Road and shown on Tax Map 06, Parcel 06.

As long as there is not any manufacturing of concrete or asphalt, the recycling of concrete and asphalt is a permitted use within the approved area of the surface mine of which you were approved by special exception.

If you have any further questions, please feel free to call.

Sincerely,

William Cornish


Zoning Administrator

[View Map](#)

[View GroundRent Redemption](#)

[View GroundRent Registration](#)

Special Tax Recapture: AGRICULTURAL TRANSFER TAX

Account Identifier: District - 15 Account Number - 000236

Owner Information

Owner Name:	REYNOLDS RICHARD D JR REYNOLDS ASHLEY B	Use:	AGRICULTURAL
Mailing Address:	30939 CEDAR DRIVE PRINCESS ANNE MD 21853-	Principal Residence:	NO
		Deed Reference:	/01150/ 00002

Location & Structure Information

Premises Address:	BACKBONE RD 0-0000	Legal Description:	200 ACRES BACKBONE ROAD NEAR EDEN
-------------------	-----------------------	--------------------	---

Map:	Grid:	Parcel:	Neighborhood:	Subdivision:	Section:	Block:	Lot:	Assessment Year:	Plat No:
0006	0013	0006	15010152.20	0000				2024	Plat Ref:

Town: None

Primary Structure Built	Above Grade Living Area	Finished Basement Area	Property Land Area	County Use
			200.0000 AC	

Stories	Basement	Type	Exterior	Quality	Full/Half Bath	Garage	Last Notice of Major Improvements
---------	----------	------	----------	---------	----------------	--------	-----------------------------------

Value Information

	Base Value	Value	Phase-in Assessments	
		As of	As of	As of
		01/01/2024	07/01/2024	07/01/2025
Land:	55,500	63,000		
Improvements	0	0		
Total:	55,500	63,000	58,000	60,500
Preferential Land:	33,500	33,500		

Transfer Information

Seller: DORCHESTER LUMBER CO INC	Date: 05/04/2021	Price: \$706,725
Type: ARMS LENGTH MULTIPLE	Deed1: /01150/ 00002	Deed2:
Seller: ADKINS, LEVIN I AND LOUISE R 1/2	Date: 04/05/1989	Price: \$125,300
Type: NON-ARMS LENGTH OTHER	Deed1: ITP /00381/ 00592	Deed2:
Seller:	Date:	Price:
Type:	Deed1:	Deed2:

Exemption Information

Partial Exempt Assessments:	Class	07/01/2024	07/01/2025
County:	000	0.00	
State:	000	0.00	
Municipal:	000	0.00 0.00	0.00 0.00

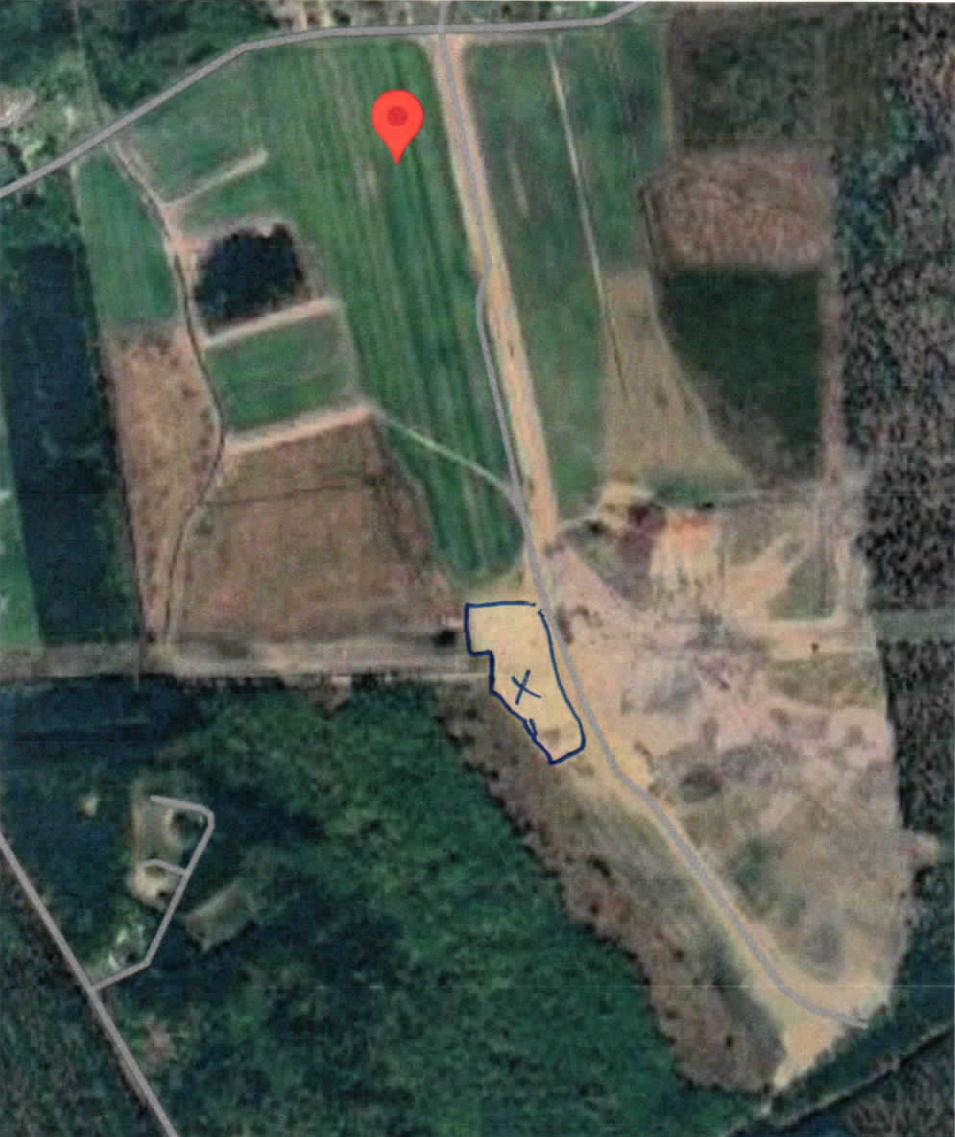
Special Tax Recapture: AGRICULTURAL TRANSFER TAX

Homestead Application Information

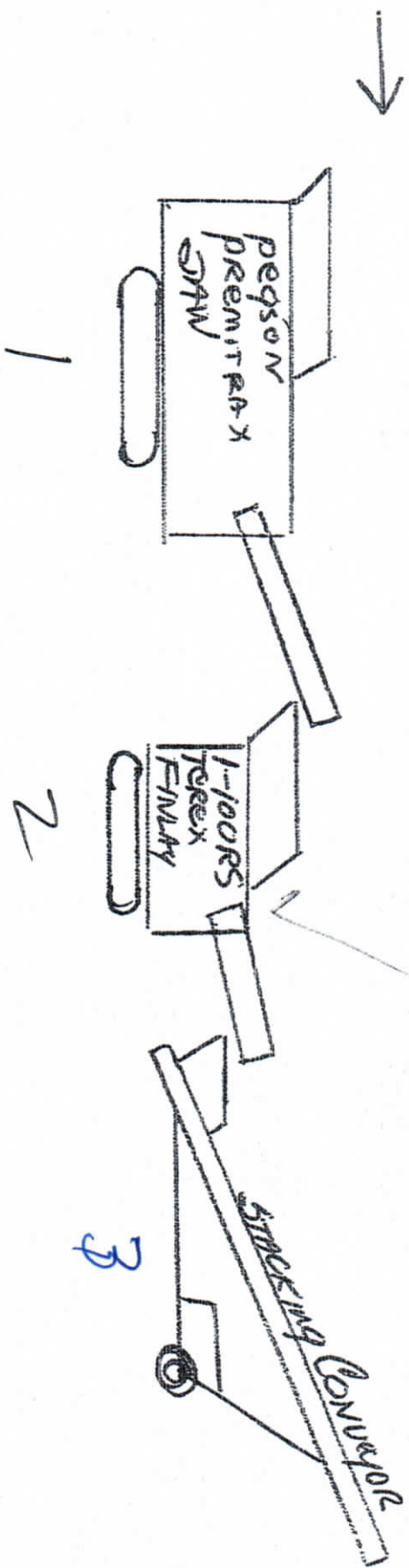
Homestead Application Status: No Application

Homeowners' Tax Credit Application Information

Homeowners' Tax Credit Application Status: No Application Date:



Product Flow System 1



System 1

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Air and Radiation Management Administration / Air Quality Permits Program
1800 Washington Boulevard, STE 720 Baltimore, MD 21230-1720
(410) 537-3230 • 1-800-633-6101 • www.mde.state.md.us

Mail application to

MDE/ARMA

1800 Washington Blvd, Suite 720
Baltimore, MD 21230-1720

Don't forget to:

✓ Sign the application

✓ Include vendor literature

Air Quality Permit to Construct & Registration Application for
INTERNAL COMBUSTION ENGINES
(Electrical Power Generators, Power Equipment, Fire Protection Pumps)

1) Applicability

You must check off one the following items to use this application form

- ☐ Electrical power generation (off grid, base load, peak, load shaving,, etc)
Use MDE Form 42 for emergency use only generators
☒ Power equipment (hydraulic, mechanical, etc)
☐ Fire protection pump

For electrical power generators only, you must check off one the following items to use this application form

- ☐ I have a CPCN Exemption from the Public Service Commission for this generator
(contact the Public Service Commission at 410.767.8131)
☐ This generator was installed before October 1, 2001 and I do not need a CPCN Exemption

2) Business/Institution/Facility where the engine will be located

☐ Check if this is a federal facility

Name: SUPERIOR CONTRACTOR SERV INC

Phone: NONE

Street Address: 6928 EAST SIDE RD

City: PARSONSBURG

State: MD

Zip Code: 21849

County: WICOMICO

3) Owner/Operator of the engine (if different than above)

Name: SUPERIOR CONTRACTOR SERV INC

Phone: OFFICE 410-632-0992

Mailing Address: 8635 NINE PIN BRANCH RD

City: BERLIN

State: MD

Zip Code: 21811

4) Installer

☐ Check if installer is applying for permit. If checked, complete the following:

Name: _____

Phone: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____



5) Engine Information

KAP SCAVIA TMC9 270 2013 Diesel
PERMIT WITHUREA

Installation Date Engine Manufacturer & Model Horsepower Manufacture Date Fuel Type

6) Operating Information

Intended use description: (Examples, "a portable generator at a construction site" or "peak shaving with the emergency generator", etc)

IMPACT CRUSHER / WITH WATER / SCREENER

6+- system 156+-
 Hours per day Hours per year

7) Required Attachments

(Check that they are attached)

- ☒ Vendor literature
☐ CPCN Exemption from the Public Service Commission
- Electrical generators only
 - Not needed for generators installed before October 1, 2001

8) Workers Compensation (Environmental article §1-202)

Workers insurance policy or binder number: XWS (16) 5617 9262

☐ Check if self employed or otherwise exempt from this requirement

"I CERTIFY UNDER PENALTY OF LAW THAT THE INFORMATION SUBMITTED IN THIS REQUEST FOR COVERAGE IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

Owners Signature

Printed Name & Title

Date

LEAVE BLANK, MDE use only

- ☐ Permit
☐ Registration (Less than 1,000 brake horsepower & installed prior to 11/24/03)

Permit/Registration Number: _____

AI: _____

Emissions
 Stack

Fugitive

SOx

Nox

CO

VOC

PM

PM-10

MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Blvd • Baltimore, Maryland 21230
(410) 537-3230 • 1-800-633-6101 • www.mde.state.md.us

Air and Radiation Management Administration • Air Quality Permits Program

EMISSIONS DATA

Fill out one Form 5B for each stack or other emission point subject to the regulations (see the General Instructions for more detail).

--	--	--	--	--	--	--	--	--	--

Company Name SUPERIOR CONTRACTOR SV

1. Number Identifying this Emission Point on Required Plot Plan 1-100 RS IMPACT CRUSHER
(If applicable, list company's internal I.D. WITH SCREEN PLANT)

2. Brief description of Emission Point, Associated Equipment and Control Devices
5' DIA - 123" ABOVE GROUND DIESEL EXHAUST

3. Emission Schedule (for this stack or emission point)

Continuous _____ Intermittent X Minutes/Hour _____ Hours/Day 6 Days/Week 5 Weeks/Year 25

Seasonal Variation: None X Winter % 25% Spring % 25% Summer % 25% Fall % 25%

4. Stack Information

Height above ground (ft) 123" Inside Diameter at top of round stack (ft) 5" Exit Temperature (°F) 500 C

Height above structures (ft) _____ Dimensions at top of rectangular stack (ft) _____ Exit Velocity (ft/min) 2513 / MIN

Distance to Nearest Property Line (ft) UNREMARKABLE - MOVABLE Gas Volume (acfm) _____

Dimensions of Building Stack is on (ft): Height _____ Length _____ Width _____

5. Control Devices Associated with this Stack or Emission Point

Control Device

Number

Control Device

Number

0 - None

1. Simple Cyclone

2. Multiple Cyclone

3. Spray Tower BAR

4. Absorption Tower

5. Venturi Scrubber

6. Carbon Adsorber

7. Elec. Precipitator

8. Baghouse

9. Thermal Afterburner

10. Catalytic Afterburner

11. Other (specify)



6. Criteria Pollutant Emissions (attach supporting documentation)

Criteria Pollutants	ESTIMATED EMISSIONS		
	Design Capacity (lb/hr)	Projected (lb/hr)	Operations (1) (ton/year)
Particulate Matter			
PM10			
Oxides of Sulfur			
Oxides of Nitrogen			
Carbon Monoxide			
VOC (total)			
Lead			

7. Toxic Air Pollutant Emissions (attach supporting documentation)

Toxic Air Pollutant (list all)	CAS Number	ESTIMATED EMISSIONS				Used for Form 5A, Part 3 (2)	
		Design Capacity (lb/hr)	Projected Operations (1)			(lb/hour)	(ton/year)
1.			(lb/hour)	(ton/year)			
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							

(1) Based on the emission schedule reported in Block three of this form.

(2) This column must be filled in with the emission estimates used to demonstrate compliance with the regulations. If continuous emissions at design capacity allow you to demonstrate compliance with all air pollution regulations, then these emissions should be listed here. If the air toxic regulations or any other regulations require you to discharge less than continuously at design capacity, then these emissions should be listed here.



SCANDIA* diesel engine

Model number Scania T4DC9 (with urea)

Horsepower rating 270 h.p. (per application)

Fuel usage rate 9.2 GPM

Exhaust gas flowrate (~~cfm~~) 25 KG/min

Exhaust temperature (°F) 520 °C

Stack diameter (inches) 5"

Stack height (ft) —from ground to exit point 123"

Emissions factors (gm/hp-hr) for CO 0.09 PM 0.009 HC 0.015 NOx 1.0

Description of equipment (type, make and model) that it powers

Terex Finlay Model 1100RS impact crusher

SUPERIOR CONTRACTOR SERVICES, INC

8635 NINEPIN BRANCH RD

BERLIN, MD 21811 PHONE 410-632-0992 FAX 410-632-3166

Scrubber 1-100RS

Overall Process Emissions

270 HP Impact

19.1.	Particulate Matter (PM)	0.009	lbs/hour	0.01 lbs/hour	tons/year	0.06 tons/year
19.2.	PM ₁₀		lbs/hour	lbs/hour	tons/year	tons/year
19.3.	PM _{2.5}		lbs/hour	lbs/hour	tons/year	tons/year
19.4.	Sulfur Oxides (SO _x)		lbs/hour	lbs/hour	tons/year	tons/year
19.5.	Nitrogen Oxides (NO _x)	1.0	lbs/hour	0.6 lbs/hour	tons/year	0.05 tons/year
19.6.	Carbon Monoxide (CO)	0.09	lbs/hour	0.05 lbs/hour	tons/year	0.00 tons/year
19.7.	Lead		lbs/hour	lbs/hour	tons/year	tons/year
19.8.	Total Volatile Organic Compounds (VOCs)		lbs/hour	lbs/hour	tons/year	tons/year
19.9.	Total Hazardous Air Pollutants (HAPs)		lbs/hour	lbs/hour	tons/year	tons/year
19.10.	HC	0.015	lbs/hour	0.01 lbs/hour	tons/year	0.00 tons/year
19.11.			lbs/hour	lbs/hour	tons/year	tons/year
19.12.			lbs/hour	lbs/hour	tons/year	tons/year
19.13.			lbs/hour	lbs/hour	tons/year	tons/year
19.14.			lbs/hour	lbs/hour	tons/year	tons/year
19.15.			lbs/hour	lbs/hour	tons/year	tons/year
19.16.			lbs/hour	lbs/hour	tons/year	tons/year
19.17.			lbs/hour	lbs/hour	tons/year	tons/year
19.18.			lbs/hour	lbs/hour	tons/year	tons/year

20. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above:

9/kwh X 0.7457 = 9/64ph X 40 = 64 X 0.002206 = 0.14 per hr

Attach the Basis of Determination or Calculations for each Emission Rate provided above.

Calculations Based 2015 Report 6400 Day 51 Days
306 hrs operation
72 = 36 Days
545 hr



October 9, 2014

The Scania DC09 083A, rated at 257 kW @ 2100rpm has the following peak exhaust conditions during standard operation.

Exhaust Gas Flow Rate *25 kg/min*

Exhaust Stack Temperature *520 °C*

SCA 11A

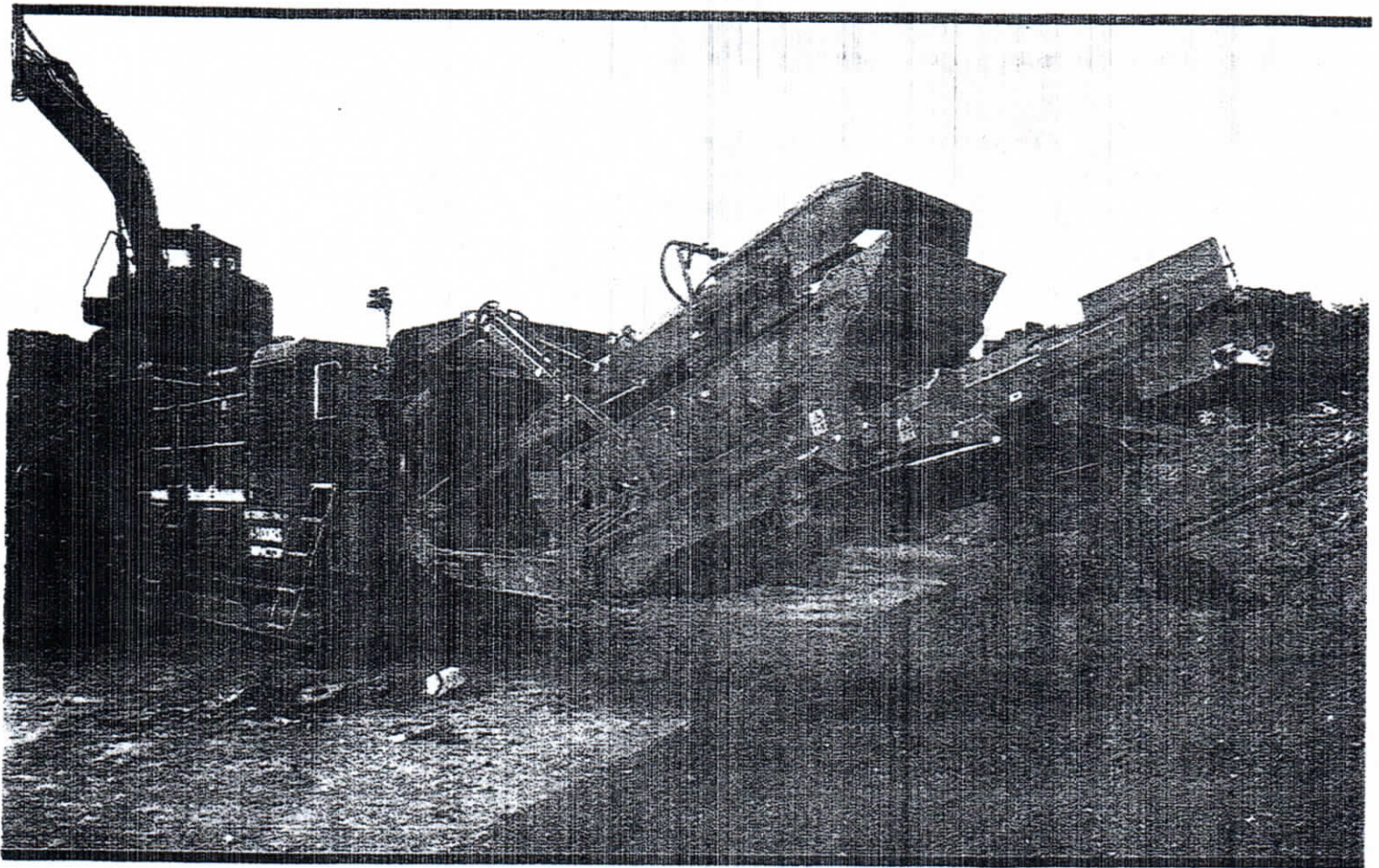
Emission		Engine family (U.S. EPA)	CY9XL12.7CAA	CY9XL16.4CAA		CY9XL12.7CAA	CY9XL16.4CAA
		Unit	DC09/13 083A	DC16 083A	Unit	DC09/13 083A	DC16 083A
Hydrocarbons	HC	g/kWh	0.02	0.002	g/bhp-hr	0.015	0.001
Carbon monoxide	CO	g/kWh	1.2	0.241	g/bhp-hr	0.9	0.2
Oxide of Nitrogen	NOx	g/kWh	1.386	1.606	g/bhp-hr	1.0	1.2
Particulate	PM	g/kWh	0.0114	0.017	g/bhp-hr	0.009	0.013
Ammonia	NH3	ppm	0.63	0.668	g/bhp-hr	0.630	0.668



TEREX® | FINLAY

I-100RS

TRACKED MOBILE IMPACT CRUSHER



100 Ton HR Concrete

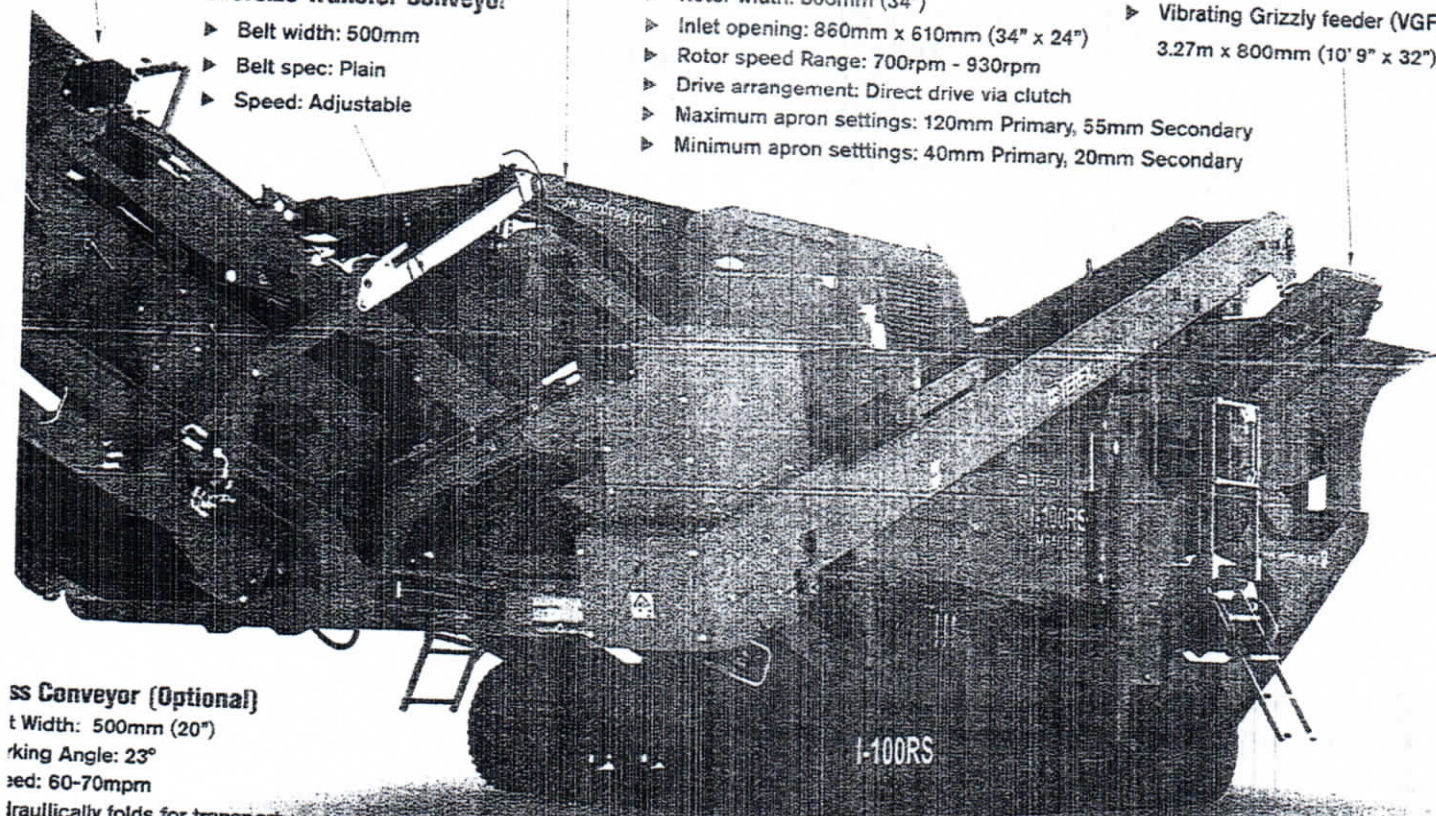
Oversize Transfer Conveyor

- ▶ Belt width: 500mm
- ▶ Belt spec: Plain
- ▶ Speed: Adjustable

Impact Chamber

- ▶ Rotor diameter: Ø860mm (34")
- ▶ Rotor width: 860mm (34")
- ▶ Inlet opening: 860mm x 610mm (34" x 24")
- ▶ Rotor speed Range: 700rpm - 930rpm
- ▶ Drive arrangement: Direct drive via clutch
- ▶ Maximum apron settings: 120mm Primary, 55mm Secondary
- ▶ Minimum apron settings: 40mm Primary, 20mm Secondary

- ▶ Feed height: 3.2m
- ▶ Material: 8mm wear resistant steel
- ▶ Vibrating Grizzly feeder (VGF): 3.27m x 800mm (10' 9" x 32")



SS Conveyor (Optional)

- ▶ Belt Width: 500mm (20")
- ▶ Working Angle: 23°
- ▶ Speed: 60-70mpm
- ▶ Mechanically folds for transport
- ▶ Discharge Height: 2.03m (6' 8")

Re-Circulating Conveyor

- ▶ Belt width: 500mm (20")
- ▶ Belt spec: Plain

I-100RS

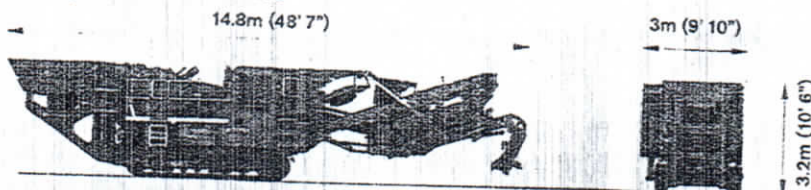
Powerpack

- ▶ Tier 4i: Stage IIIB : Scania DC9 78A - 275hp (202kW) (EU SPEC)
Engine Speed: 1500-2000RPM
- ▶ ROW (Tier 2 or equivalent): Scania DC9 275hp (202kW) Engine Tier 2
Engine Speed: 1500-2000RPM

Undercarriage

- ▶ Shoe Width: 400mm (16")
- ▶ Sprocket Centres: 3.7m (12' 1")
- ▶ Gradeability: 25°

Transport Dimensions



Working Dimensions



Machine Weight: 32,500kgs (71,650lbs)*
* magnet & dirt conveyor

WORKS FOR YOU.™

unprecedented levels of fuel efficiency and production in both recycling and quarrying applications. The machine features a 2.44m x 1.2m (8' x 4') single deck screen for sizing and recirculating oversize material back to the crushing chamber. The sizing screen can be quickly detached for applications that do not require resizing or recirculation of materials for further processing. The I-100RS features hydraulic folding of all conveyors providing rapid set-up times and easy point to point moves when operating on multiple sites.

STANDARD FEATURES

Impact Chamber:

Inlet opening: 860mm (34") x 610mm (24")

Rotor diameter: Ø860mm (34")

Rotor width: 860mm (34")

Rotor speed: 700rpm - 930rpm

Direct drive via clutch

Hydraulic assist apron setting

Hydraulic overload protection

Twin aprons

Minimum apron settings: 40mm Primary, 20mm Secondary

Maximum apron settings: 120mm Primary, 55mm Secondary

Blowbars: 4 bar apron, 2 high / 2 low standard

Hopper / Feeder:

2.3m³ (3.01yd³) capacity

8mm wear resistant steel side walls

Vibrating Grizzly Feeder: 3.27m x 800mm (10' 9" x 32")

Feed-in height: 3.2m (10' 6")

Main Conveyor:

Belt width: 900mm (36")

Full length main conveyor with impact bars at feed point

Discharge Height: 3.25m (10' 8")

Undercarriage:

Bolt on tracks

Shoe: 400mm (16")

Sprocket centres: 3.7m (12' 1")

By-pass Conveyor - optional

Belt Width: 500mm (20")

Discharge height: 2.03m (6' 8")

Control Systems

Advanced CANBUS compliant system

Large colour display screen

4 operating modes:

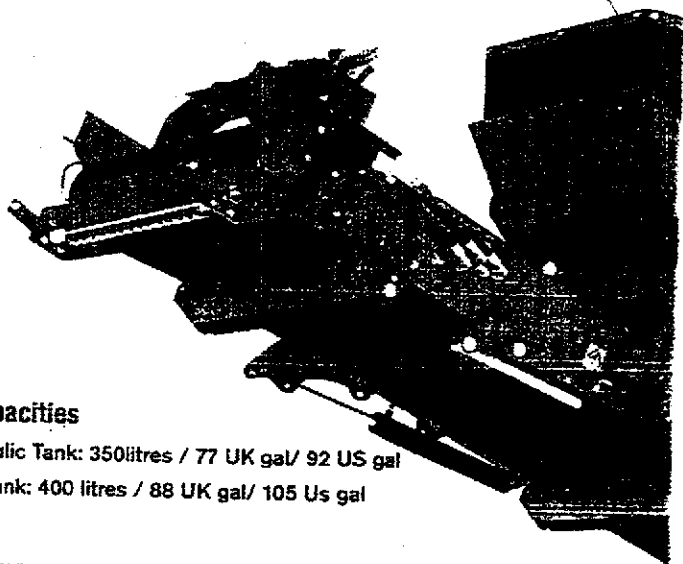
- Automatic mode
- Manual mode
- Track mode
- Configuration / Test mode

RS- Components

Foldable head sections for transport

Screenbox: single deck 2.44m x 1.2m (8' x 4')

Belt: 1.2m (3' 11")



Tank Capacities

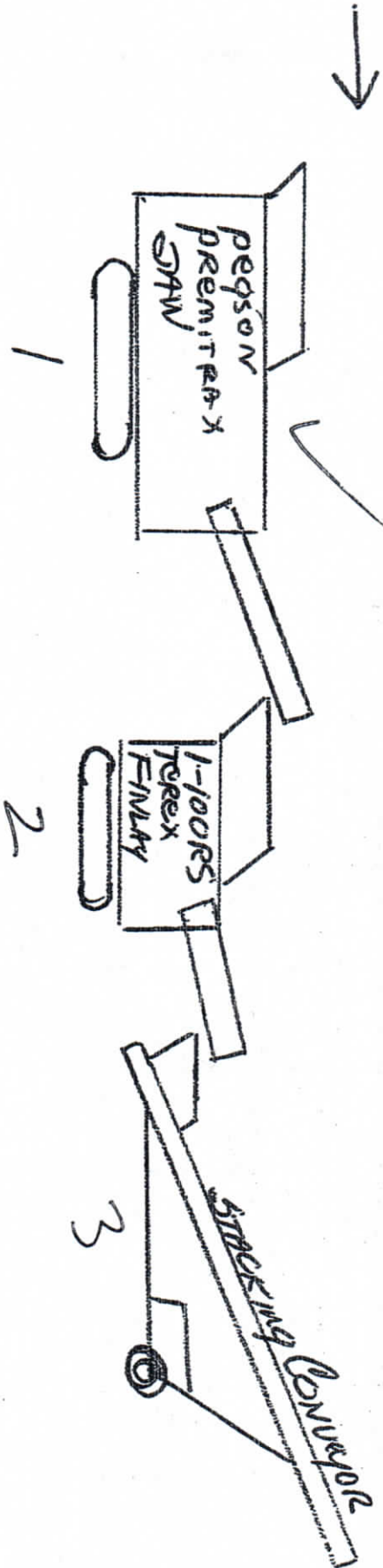
- ▶ Hydraulic Tank: 350litres / 77 UK gal/ 92 US gal
- ▶ Fuel Tank: 400 litres / 88 UK gal/ 105 US gal

Features:

- ▶ Direct drive Ø860mm x 860mm (Ø34" x 34") crusher chamber with unique belt tensioner system allowing for rapid adjustment.
- ▶ Hydraulic apron setting assist provides convenient and efficient adjustment of the aprons and hydraulic overload protection in event that an un-crushable object enters chamber.
- ▶ Detachable 2.44m x 1.2m (8' x 4') single deck screen returns oversize material back to the crusher via the on-board recirculating system.
- ▶ Quick and easy detachable screen, fines and transfer conveyor for open circuit crushing.



Product Flow System 1



SYSTEM 1022

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Air and Radiation Management Administration / Air Quality Permits Program
1800 Washington Boulevard, STE 720 Baltimore, MD 21230-1720
(410) 537-3230 • 1-800-633-6101 • www.mde.state.md.us

Mail application to

MDE/ARMA

**1800 Washington Blvd, Suite 720
Baltimore, MD 21230-1720**

Don't forget to:

✓ Sign the application

✓ Include vendor literature

Air Quality Permit to Construct & Registration Application for
INTERNAL COMBUSTION ENGINES
(Electrical Power Generators, Power Equipment, Fire Protection Pumps)

1) Applicability

You must check off one the following items to use this application form

- ☐ Electrical power generation (off grid, base load, peak, load shaving, etc)
Use MDE Form 42 for emergency use only generators
☒ Power equipment (hydraulic, mechanical, etc)
☐ Fire protection pump

For electrical power generators only, you must check off one the following items to use this application form

- ☐ I have a CPCN Exemption from the Public Service Commission for this generator
(contact the Public Service Commission at 410.767.8131)
☐ This generator was installed before October 1, 2001 and I do not need a CPCN Exemption

2) Business/Institution/Facility where the engine will be located

☐ Check if this is a federal facility

Name: SUPERIOR CONTRACTOR SERV INC Phone: NONE
Street Address: 6928 EASTSIDE RD
City: BERLIN State: MD Zip Code: 21849 County: WILCOMINGO

3) Owner/Operator of the engine (if different than above)

Name: SUPERIOR CONTRACTOR SERV INC Phone: OFFICE 410-632-0992
Mailing Address: 8635 VINE PIN BRANCH RD
City: BERLIN, MD State: MD Zip Code: 21811

4) Installer

☐ Check if installer is applying for permit. If checked, complete the following:

Name: _____ Phone: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Blvd • Baltimore, Maryland 21230
(410) 537-3230 • 1-800-633-6101 • www.mde.state.md.us

Air and Radiation Management Administration • Air Quality Permits Program

EMISSIONS DATA

Fill out one Form 5B for each stack or other emission point subject to the regulations (see the General Instructions for more detail).

--	--	--	--	--	--	--	--	--	--

Company Name SUPERIOR CONTRACTOR SERV

1. Number Identifying this Emission Point on Required Plot Plan MBL STAKING CONVEYR
(If applicable, list company's internal I.D. _____)

2. Brief description of Emission Point, Associated Equipment and Control Devices

2" DIA X 31" Ground Level DIESEL EXHAUST

3. Emission Schedule (for this stack or emission point)

Continuous _____ Intermittent X Minutes/Hour 6 Hours/Day 5 Days/Week 5 Days Weeks/Year
Seasonal Variation: None X Winter % _____ Spring % _____ Summer % _____ Fall % _____

4. Stack Information

Height above ground (ft) 31" Inside Diameter at top of round stack (ft) 2" Exit Temperature (°F) 900°
Height above structures (ft) _____ Dimensions at top of rectangular stack (ft) _____ Exit Velocity (ft/min) 564 ft/min
Distance to Nearest Property Line (ft) VARIABLE - moveable Gas Volume (acfm) _____

Dimensions of Building Stack is on (ft): Height _____ Length _____ Width _____

5. Control Devices Associated with this Stack or Emission Point

Control Device	Number	Control Device	Number
<u>0. None</u>	_____	7. Elec. Precipitator	_____
1. Simple Cyclone	_____	8. Baghouse	_____
2. Multiple Cyclone	_____	9. Thermal Afterburner	_____
3. Spray Tower	_____	10. Catalytic Afterburner	_____
4. Absorption Tower	_____	11. Other (specify)	_____
5. Venturi Scrubber	_____		
6. Carbon Adsorber	_____		



DEUTZ diesel engine

Model number D2011L03I

Horsepower rating 48 horsepower

Fuel usage rate 2.6 p/hr

Exhaust gas flowrate (cfm) 564

Exhaust temperature (°F) 900°

Stack diameter (inches) 2"

Stack height (ft) —from ground to exit point 31"

Emissions factors (gm/hp-hr) for CO 2.83 PM 0.267 HC 0.42 NOx 5.77

Description of equipment (type, make and model) that it powers

one (1) conveyor — MGL 36" X 80' STACKING CONV ✓

SUPERIOR CONTRACTOR SERVICES, INC

8635 NINEPIN BRANCH RD

BERLIN, MD 21811 PHONE 410-632-0992 FAX 410-632-3166

MCL STEELING Conveyor Overall Process Emissions

48 HP

19.1.	Particulate Matter (PM)	0.267	lbs/hour	0.02 lbs/hour	tons/year	0.00 tons/year
19.2.	PM ₁₀		lbs/hour	lbs/hour	tons/year	tons/year
19.3.	PM _{2.5}		lbs/hour	lbs/hour	tons/year	tons/year
19.4.	Sulfur Oxides (SO _x)		lbs/hour	lbs/hour	tons/year	tons/year
19.5.	Nitrogen Oxides (NO _x)	5.77	lbs/hour	0.46 lbs/hour	tons/year	0.07 tons/year
19.6.	Carbon Monoxide (CO)	2.53	lbs/hour	0.22 lbs/hour	tons/year	0.03 tons/year
19.7.	Lead		lbs/hour	lbs/hour	tons/year	tons/year
19.8.	Total Volatile Organic Compounds (VOCs)		lbs/hour	lbs/hour	tons/year	tons/year
19.9.	Total Hazardous Air Pollutants (HAPs)		lbs/hour	0.03 lbs/hour	tons/year	0.00 tons/year
19.10.	H ₂ C	0.42	lbs/hour	lbs/hour	tons/year	tons/year
19.11.			lbs/hour	lbs/hour	tons/year	tons/year
19.12.			lbs/hour	lbs/hour	tons/year	tons/year
19.13.			lbs/hour	lbs/hour	tons/year	tons/year
19.14.			lbs/hour	lbs/hour	tons/year	tons/year
19.15.			lbs/hour	lbs/hour	tons/year	tons/year
19.16.			lbs/hour	lbs/hour	tons/year	tons/year
19.17.			lbs/hour	lbs/hour	tons/year	tons/year
19.18.			lbs/hour	lbs/hour	tons/year	tons/year

20. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above:

9/kwh x 0.7457 = 9/67404 x HP = 644 x 0.002206 = 16 lbs/hr

Attach the Basis of Determination or Calculations for each Emission Rate provided above.

General

Cylinders	3
Cylinder arrangement	Vertical in-line
Bore	94 mm 3.7 in.
Stroke	112 mm 4.4 in.
Cylinder Displacement	0.78 liter 47.4 in. ³
Total displacement	2.33 liter 142.2 in. ³
Compression ratio	19.0:1
Combustion system	Direct injection
Aspiration	Natural

Fuel system

Lift pump suction head, max	3 m 118.1 in.
Lift pump flow @ max rpm	140.0 l/h 37.0 GPH
Max restriction in fuel supply line	300 mbar 120 in. H ₂ O
Max restriction in fuel return line	200 mbar 80 in. H ₂ O
Max restriction in fuel pre-filter	200 mbar 80 in. H ₂ O
Fuel filter type	Spin-on cartridge
Fuel consumption @ max rating	10.9 l/h 2.9 GPH
Fuel consumption @ peak torque	7.0 l/h 1.8 GPH

Combustion air system

Combustion air flow @ max rating	165.0 m ³ /h 97.1 CFM
Max allowable clean restriction	25 mbar 10 in. H ₂ O
Max allowable dirty restriction	55 mbar 22 in. H ₂ O
Max inlet temp rise over ambient	10 °C 18 °F

Exhaust system

Exhaust gas flow @ max rating	450 m ³ /h 265 CFM
Exhaust temp @ max rating	670 °C 1238 °F
Max allowable back pressure	65 mbar 26 in. H ₂ O

Cooling system

Type	Integrated oil cooling
Cooling air flow rate @ max rpm	1450 m ³ /h 853 CFM
Max inlet air temp rise over ambient	10 °C 18 °F
Discharge air temp rise over inlet	52 °C 93.6 °F
Cooling pressure:	
Max loss due to inlet duct	10 %
Max loss due to discharge duct	10 %

Lubrication system

Lubrication type	Forced feed
Oil flow through filter at max rpm	17.5 l/min 4.6 GPM
Oil pump relief valve setting	7 bar 101.5 psi
Max oil temperature in oil sump	135 °C 275 °F
Filter volume	0.4 liter 0.423 qt.
Oil change interval	1000 hours

Electrical

Starter motor	12V, 2.3 kW 24V, 4.0 kW
Max battery CCA	950A 750A
Voltage drop, battery (+), max	1.0V

Physical data

Length	599 mm 23.6 in.
Width	480 mm 18.1 in.
Height	672 mm 26.5 in.
Weight, dry	216 kg 475.2 lb.
Max bending @ housing:	650 Nm 479.1 lb-ft
Max force @ flywheel:	
Axial:	1500 N 337.8 lb.
Radial:	3700 N 833.3 lb.

Performance data

Peak torque	137 Nm 101.0 lb-ft
@ rpm	1700
low idle speed	900 rpm

Engine power

	<u>Genset</u>	<u>Variable speed</u>		
Engine RPM	1800	2300	2500	2800
kW, Gross intermittent	23.9	31.3	33.3	36.4
Hp, Gross intermittent	32.0	41.9	44.6	48.8
kW, Net intermittent	23.8	30.9	32.8	35.8
Hp, Net intermittent	31.9	41.4	44.0	48.0

kW, Gross continuous	21.5	29.7	31.6	34.6
Hp, Gross continuous	28.8	39.8	42.3	46.4
kW, Net continuous	21.4	29.3	31.1	34.0
Hp, Net continuous	28.7	39.3	41.7	45.6

Fuel consumption

g/kWh	225.0	238.0	245.0	253.0
lb/hphr	0.369	0.390	0.402	0.415

Combustion air

m ³ /hr	105.0	135.0	147.0	165.0
CFM	61.8	79.4	86.5	97.1

Exhaust gas

m ³ /h	280	365	405	450
CFM	165	215	238	265

Cooling air

m ³ /h	933	1192	1295	1450
CFM	549	701	762	853

Noise, dB(A)

Avg. @ 1 meter

Certifications

U.S. EPA Non Road Tier 4 Interim as of Jan 1, 2008
Europe COM 3a as of Jan 1, 2007

Engine Horsepower & Exhaust Flow Guide

Engine Data

The data shown in this section is a collection of information gathered by Donaldson from various sources and should be used for estimating.

For exact information, consult your engine manufacturer.

Allis Chalmers
Case
Caterpillar
Continental Motors
Cummins
Detroit Diesel
Deutz
Ford
Hatz Diesel
Hino
Isuzu
Iveco
John Deere
Kohler
Kubota
Lister
Lombardini
Mack
Mercedes-Benz
Mitsubishi
MTU of North America
Navistar
Nissan
Perkins
Renault
Same
Teledyne
Volkswagen
Volvo
Waukesha
White Eng
Yanmar

Engine Exhaust Flow Rate Calculation

Exhaust flow rate may be calculated using the following formula. Exhaust temperature and intake airflow rate must be determined to calculate the exhaust flow rate. Exhaust temperature and manufacturers maximum backpressure may be approximated using the chart below.

$$\left(\frac{\text{Exhaust Temp. (°F)} + 460}{540} \right) \times \text{Intake Airflow (CFM)} = \text{Exhaust Flow}$$

900 282 564

Engine Type	Engine Temperature	Maximum Backpressure
Diesel 2-Cycle Naturally Aspirated	= 900°F	4" Hg
Diesel 2-Cycle Turbo	= 750°F	3" Hg
Diesel 4-Cycle Naturally Aspirated	= 1000°F	3" Hg
Diesel 4-Cycle Turbo	= 900°F	3" Hg
Gasoline (all types)	= 1200°F	4" Hg

Note: If you are specifying a dual muffler system divide engine's exhaust flow (CFM) by two

Engine Airflow Calculations

CFM intake rate is available from the engine manufacturer. If CFM specifications are not available, use the volumetric efficiency calculation. A simple calculation for cfm is to multiple the horsepower of your engine by 2.5.

4-Cycle Engine Airflow Calculation

$$\left(\frac{\text{Engine Size (CID)} \times \text{RPM}}{3456} \right) \times \text{Volumetric Efficiency} = \text{Intake Airflow (CFM)}$$

2.33 x 2800 1.50 282

2-Cycle Engine Airflow Calculation

$$\left(\frac{\text{Engine Size (CID)} \times \text{RPM}}{1728} \right) \times \text{Volumetric Efficiency} = \text{Intake Airflow (CFM)}$$

Volumetric Efficiency

Engine volumetric efficiency ratings are best obtained from your engine manufacturer. Engines operating with electronic controls could have volumetric efficiency ratings of more than 2.0. Airflow on these engines should be verified by the engine manufacturer.

4 Cycle GAS Engine Naturally Aspirated = .70 - .80

2 and 4 Cycle DIESEL Engine Naturally Aspirated = .90
 Turbo* = 1.50 - 3.00*

* If VE rating is not available, Donaldson recommends using the highest value to insure proper airflow.

MSHA Approval (30 CFR Part 7) of DEUTZ EPA Tier 3/4i Engines

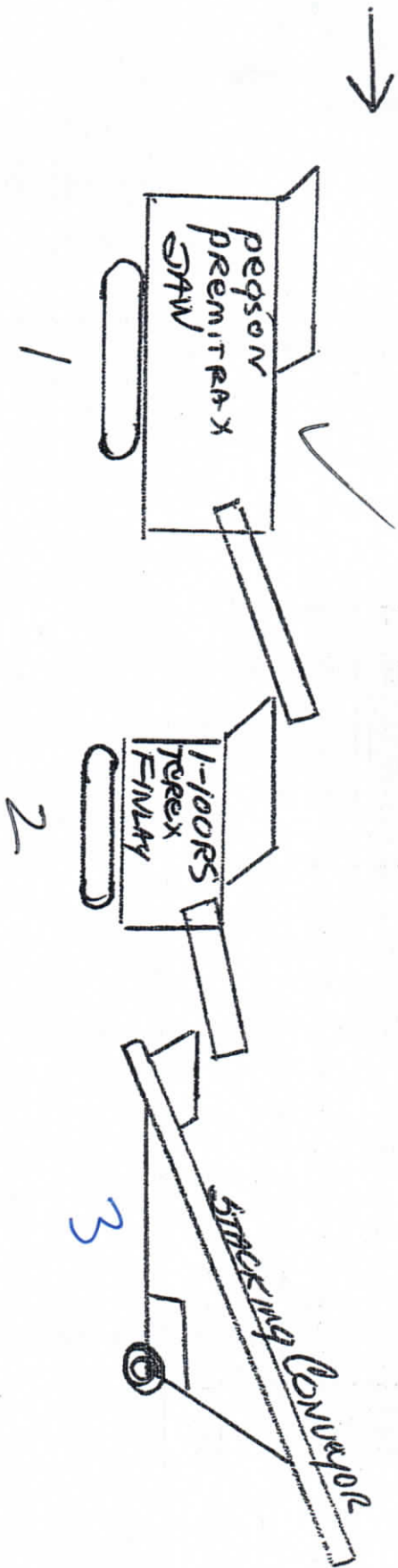
*** DEUTZ Corporation *** Status: March, 2013



Engine	Rating			Assigned Vent.		Particulate Index		Approval No.	Issue Date	High Idle [rpm]	Max Perm Press		Max Altitude Ref. Derate (°) [m] / [ft]	8-Mode Cycle Results					Min Filter efficiency for 5 [g/hr]	Min Filter efficiency for 2.5 [g/hr]
	kW	HP	rpm	cfm	cfm/HP	cfm	cfm/HP				Intake mbar	Exhaust mbar		NOx	HC	CO	PM	PM rate [g/hr]		
D 2011 L02i Tier 4i	22.5	30.2	2800	1,500	50	2,000	66	07-ENA040010-0	June 5, 2007	3220	45	48	305 / 1,000	5.77	0.42	2.83	0.267	3.26	0.0%	23.0%
D 2011 L02 Tier 4i	23.5	31.5	2800	1,500	48	2,000	63	07-ENA040010-0	June 5, 2007	3220	45	48	305 / 1,000	5.77	0.42	2.83	0.267	3.26	0.0%	23.0%
D 2011 L03i Tier 4i	35.8	48.0	2800	2,000	42	3,000	62	07-ENA040011-0	June 5, 2007	3220	50	62	305 / 1,000	5.77	0.42	2.83	0.267	4.89	0%	49%
D 2011 L03 Tier 4i	36.5	49.0	2800	2,000	41	3,000	61	07-ENA040011-0	June 5, 2007	3220	50	62	305 / 1,000	5.77	0.42	2.83	0.267	4.89	0%	49%
D 2011 L04i Tier 4i	47.5	63.7	2600	2,500	40	4,500	71	07-ENA110013-0	August 12, 2011	2980	56	70	305 / 1,000	3.47	0.27	1.37	0.288	6.93	28%	64%
TD 2011 L04i Tier 4i	54.7	73.4	2800	3,000	41	2,000	27	07-ENA100005-0	Nov 10, 2010	2980	56	70	305 / 1,000	3.86	0.48	1.85	0.12	3.39	0%	26%
TD 2011 L04 Tier 4i	52.0	69.7	2400	3,000	43	2,000	29	07-ENA100005-0	Nov 10, 2010	2775	55	70	305 / 1,000	3.86	0.48	1.85	0.12	3.39	0%	26%
TD 2011 L04w Tier 3	65.0	87.2	2600	4,000	46	6,000	88	07-ENA110014-0	Aug 26, 2011	2980	55	70	305 / 1,000	4.66	0.40	1.65	0.289	9.64	48%	74%
D 914 L04 Tier 4i	55.0	73.8	2300	3,500	47	4,000	54	07-ENA100007-0	Nov 16, 2010	2845	55	75	305 / 1,000	4.22	0.27	3.24	0.207	5.75	13%	58%
D 914 L06 Tier 3	74.9	100.4	2300	4,500	45	4,500	45	07-ENA100006-0	Nov 10, 2010	2845	55	75	305 / 1,000	3.89	0.63	1.47	0.182	7.41	33%	66%
ICD 914 L06 (ecEGR) Tier 3	129.9	174.2	2300	6,500	37	7,000	40	07-ENA100008-0	Nov 10, 2010	2461	55	70	915 / 3,000	3.10	0.31	0.97	0.166	11.74	57%	79%
ICD 2012 L04 2V Tier 3	103	138	2400	5,000	36	3,000	22							3.47	0.18	0.66	0.091	5.04	1%	50%
DC control	98	131	2400	5,000	38	3,000	23	07-ENA100001-0	Feb 2, 2010	2760	55	100	Automatic	3.37	0.20	0.54	0.093	5.03	1%	50%
CD 2012 L06 2V Tier 3	147	197	2400	7,500	38	7,000	36							3.30	0.21	0.56	0.091	4.99	0%	47%
DC control	140	188	2400	7,000	37	6,000	32	07-ENA100002-0	Feb 2, 2010	2760	55	100	Automatic	3.01	0.18	0.80	0.142	11.39	56%	78%
CD 2013 L04 Tier 3	132	177	2400	8,500	37	8,000	34							3.11	0.20	0.78	0.123	9.36	47%	73%
DC control	126	169	2300	6,500	38	3,000	18	07-ENA100005-0	Feb 15, 2011					3.17	0.20	0.68	0.134	9.68	48%	74%
DC control	120	161	2300	5,500	34	3,000	19							3.81	0.17	0.61	0.074	5.01	0%	50%
DC control	113	151	2300	6,000	40	2,500	17							3.75	0.17	0.62	0.074	4.84	0%	48%
DC control	105	141	2300	5,500	39	3,000	21							3.77	0.20	0.61	0.068	4.18	0%	40%
CD 2013 L06 Tier 3	180	255	2300	10,500	41	6,000	24	07-ENA100008-0	Feb 15, 2011					3.83	0.23	0.65	0.077	4.46	0%	44%
DC control	173	232	2300	9,000	39	4,500	19							3.76	0.12	0.41	0.087	9.90	49%	75%
DC control	160	215	2300	7,500	35	4,500	21							3.65	0.14	0.42	0.086	8.02	38%	69%
CD 2015 V06 Tier 3	330	443	2100	15,500	35	7,500	17	07-ENA120002	Mar 15, 2012	2415	65	100	Automatic	3.69	0.05	0.44	0.084	7.41	33%	66%
DC control	300	402	2100	16,000	40	7,500	19							3.73	0.16	0.82	0.088	12.05	59%	79%
DC control	240	322	2100	11,500	36	7,000	22							3.70	0.14	0.87	0.073	12.32	59%	80%
CD 2015 V08 Tier 3	440	580	2100	22,000	37	8,000	14	07-ENA130001	Feb 14, 2013	2415	55	100	Automatic	3.47	0.19	1.07	0.080	10.47	52%	76%
DC control	400	536	2100	20,000	37	8,500	16							3.63	0.18	0.93	0.056	13.19	62%	82%
DC control	350	468	2100	18,000	36	8,500	18							3.58	0.21	0.87	0.060	13.82	63%	81%
														3.48	0.30	1.01	0.070	13.62	63%	81%

The altitude listed is the maximum altitude for operation before fuel deration. The fuel rate of the engine must be reduced by 1% per 100 m (328 ft) above the elevation listed.

Product Flow System 1



SYSTEM 1

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Air and Radiation Management Administration / Air Quality Permits Program
1800 Washington Boulevard, STE 720 Baltimore, MD 21230-1720
(410) 537-3230 • 1-800-633-6101 • www.mde.state.md.us

Mail application to

MDE/ARMA

**1800 Washington Blvd, Suite 720
Baltimore, MD 21230-1720**

Don't forget to:

- ✓ Sign the application
- ✓ Include vendor literature

Air Quality Permit to Construct & Registration Application for
INTERNAL COMBUSTION ENGINES
(Electrical Power Generators, Power Equipment, Fire Protection Pumps)

1) Applicability

You must check off one the following items to use this application form

- ☐ Electrical power generation (off grid, base load, peak, load shaving, etc)
 - Use MDE Form 42 for emergency use only generators
- ☒ Power equipment (hydraulic, mechanical, etc)
- ☐ Fire protection pump

For electrical power generators only, you must check off one the following items to use this application form

- ☐ I have a CPCN Exemption from the Public Service Commission for this generator
(contact the Public Service Commission at 410.767.8131)
- ☐ This generator was installed before October 1, 2001 and I do not need a CPCN Exemption

2) Business/Institution/Facility where the engine will be located

☐ Check if this is a federal facility

Name: SUPERIOR CONTRACTOR SERVO INC Phone: NONE
Street Address: 6928 EAST SIDE RD
City: PARSONSBURG State: MD Zip Code: 21849 County: WILCOMING

3) Owner/Operator of the engine (if different than above)

Name: SUPERIOR CONTRACTOR SERVO INC Phone: 410-632-0992
Mailing Address: 8635 NINE AM BRANCH RD
City: BERLIN State: MD Zip Code: 21811

4) Installer

☐ Check if installer is applying for permit. If checked, complete the following:

Name: _____ Phone: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____



5) Engine Information

ABAP CATERPILLAR 230 new DIESEL
PERMIT 3306 2015

Installation Date Engine Manufacturer & Model Horsepower Manufacture Date Fuel Type

6) Operating Information

Intended use description: (Examples, "a portable generator at a construction site" or "peak shaving with the emergency generator", etc)

PRIMARY Jaw Crusher / water

101- SYSTEM 156
Hours per day Hours per year

7) Required Attachments

(Check that they are attached)

- ☒ Vendor literature
☐ CPCN Exemption from the Public Service Commission
- Electrical generators only
 - Not needed for generators installed before October 1, 2001

8) Workers Compensation (Environmental article §1-202)

Workers insurance policy or binder number: XWS (16) 56179262

☐ Check if self employed or otherwise exempt from this requirement

"I CERTIFY UNDER PENALTY OF LAW THAT THE INFORMATION SUBMITTED IN THIS REQUEST FOR COVERAGE IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

Owners Signature

Printed Name & Title

Date

LEAVE BLANK, MDE use only

- ☐ Permit
☐ Registration (Less than 1,000 brake horsepower & installed prior to 11/24/03)

Permit/Registration Number: _____

AI: _____

Emissions
Stack

Fugitive

SOx

Nox

CO

VOC

PM

PM-10

1800 Washington Blvd • Baltimore, Maryland 21230
(410) 537-3230 • 1-800-633-6101 • www.mde.state.md.us

EMISSIONS DATA

[illegible]

1. Number Identifying this Emission Point on Required Plot Plan Person Jaw Crusher
(If applicable, list company's internal I.D.)

5" X 12 1/2" ABOVE GRADE Diesel Exhaust

Continuous _____ Intermittent X Minutes/Hour _____ Hours/Day 6 Days/Week 5 Weeks/Year 25 Days

Seasonal Variation: None X Winter % _____ Spring % _____ Summer % _____ Fall % _____

Height above ground (ft)	Inside Diameter at top of round stack (ft)	Exit Temperature (°F)
129"	5"	934°F
Height above structures (ft)	Dimensions at top of rectangular stack (ft)	Exit Velocity (ft/min)
		1391 CFM
Distance to Nearest Property Line (ft)		Gas Volume (acfm)
VARIABLE - MOVABLE		

Dimensions of Building Stack is on (ft): Height _____ Length _____ Width _____

1. Simple Cyclone
2. Multiple Cyclone
3. Spray Tower
4. Absorption Tower
5. Venturi Scrubber
6. Carbon Adsorber

7. Elec. Precipitator
8. Baghouse
9. Thermal Afterburner
10. Catalytic Afterburner
11. Other (specify)

6. Criteria Pollutant Emissions (attach supporting documentation)

ESTIMATED EMISSIONS

Criteria Pollutants	Design Capacity (lb/hr)	Projected (lb/hr)	Operations (1) (ton/year)
Particulate Matter			
PM10			
Oxides of Sulfur			
Oxides of Nitrogen			
Carbon Monoxide			
VOC (total)			
Lead			

7. Toxic Air Pollutant Emissions (attach supporting documentation)

ESTIMATED EMISSIONS

Toxic Air Pollutant (list all)	CAS Number	Design Capacity	Projected Operations (1)		Used for Form 5A, Part 3 (2)	
		(lb/hr)	(lb/hour)	(ton/year)	(lb/hour)	(ton/year)
1.						
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						

(1) Based on the emission schedule reported in Block three of this form.

(2) This column must be filled in with the emission estimates used to demonstrate compliance with the regulations. If continuous emissions at design capacity allow you to demonstrate compliance with all air pollution regulations, then these emissions should be listed here. If the air toxic regulations or any other regulations require you to discharge less than continuously at design capacity, then these emissions should be listed here.



CATERPILLAR diesel engine

Model number

3306

Horsepower rating**

230 horsepower

Fuel usage rate

10 GPM

Exhaust gas flowrate (cfm)

1391

Exhaust temperature (°F)

934

Stack diameter (inches)

5"

Stack height (ft) —from ground to exit point

129"

Emissions factors (gm/hp-hr) for CO 11.4 PM .05 HC 1.3 NOx 9.2

Description of equipment (type, make and model) that it powers

PEGSON PremITRAX

TEREX Pegson Model 2644 jaw crusher

Telephone 410-632-0992

FAX 410-632-3166

EMAIL SUPERIOR0133@OUTLOOK.COM

DENNIS Russell

SUPERIOR CONTRACTOR SERVICES, INC

8635 NINEPIN BRANCH RD

BERLIN, MD 21811 PHONE 410-632-0992 FAX 410-632-3166

Person <i>PHU Deush</i>		Overall Process Emissions		<i>23047</i>	
19.1.	Particulate Matter (PM)	lbs/hour	<i>0.02</i> lbs/hour	tons/year	<i>0.00</i> tons/year
19.2.	PM ₁₀	lbs/hour	lbs/hour	tons/year	tons/year
19.3.	PM _{2.5}	lbs/hour	lbs/hour	tons/year	tons/year
19.4.	Sulfur Oxides (SO _x)	lbs/hour	lbs/hour	tons/year	tons/year
19.5.	Nitrogen Oxides (NO _x)	lbs/hour	<i>3.48</i> lbs/hour	tons/year	<i>0.27</i> tons/year
19.6.	Carbon Monoxide (CO)	lbs/hour	<i>4.31</i> lbs/hour	tons/year	<i>0.34</i> tons/year
19.7.	Lead	lbs/hour	lbs/hour	tons/year	tons/year
19.8.	Total Volatile Organic Compounds (VOCs)	lbs/hour	lbs/hour	tons/year	tons/year
19.9.	Total Hazardous Air Pollutants (HAPs)	lbs/hour	lbs/hour	tons/year	tons/year
19.10.	<i>HC</i>	lbs/hour	<i>0.49</i> lbs/hour	tons/year	<i>0.04</i> tons/year
19.11.		lbs/hour	lbs/hour	tons/year	tons/year
19.12.		lbs/hour	lbs/hour	tons/year	tons/year
19.13.		lbs/hour	lbs/hour	tons/year	tons/year
19.14.		lbs/hour	lbs/hour	tons/year	tons/year
19.15.		lbs/hour	lbs/hour	tons/year	tons/year
19.16.		lbs/hour	lbs/hour	tons/year	tons/year
19.17.		lbs/hour	lbs/hour	tons/year	tons/year
19.18.		lbs/hour	lbs/hour	tons/year	tons/year
20. Provide Any Additional Information Necessary to Understanding the Emission Rates Provided Above:					

Attach the Basis of Determination or Calculations for each Emission Rate provided above.

g/kwh X 0.7457 = g/bhp X 440 = GPH X 0.002206 = lb per hr

*CALCULATIONS BASED 2015 REPORT 6440 DAY 51 DAYS
306 hrs OPERATION
÷ 2 = 26 DAYS
System 1*

INDUSTRIAL ENGINE PERFORMANCE DATA **[64Z28271]**

OCTOBER 07, 2014

For Help Desk Phone Numbers [Click here](#)

Performance Number: DM2377

Change Level: 00

Sales Model: 3306BDIT	Combustion: DI	Aspr: T
Engine Power: 220 HP	Speed: 1,800 RPM	After Cooler:
Manifold Type: DRY	Governor Type:	After Cooler Temp(F): -
Turbo Quantity: 1	Engine App: DN	Turbo Arrangement:
Application Type: IND-DIESEL	Engine Rating: IN	Strategy:
Rating Type: IND-C (INT)	Certification: EPA TIER-1 1996 - 2000	
	EU STAGE-1 1999 - 2001	

General Performance Data

ENGINE SPEED RPM	ENGINE POWER BHP	ENGINE TORQUE LB.FT	ENGINE BMEP PSI	FUEL BSFC LB/BHP- HR	FUEL RATE GPH	INTAKE MFLD TEMP DEG F	INTAKE MFLD P IN-HG	INTAKE AIR FLOW CFM	EXH MFLD TEMP DEG F	EXH STACK TEMP DEG F	EXH GAS FLOW CFM
1,800	220	641.68	151.86	0.37	11.6	246.56	32.4	526.19	1,151.78	923.18	1,423.18
1,750	220	659.38	155.92	0.37	11.54	244.22	31.78	508.53	1,160.42	934.52	1,391.4
1,700	219	676.34	160.12	0.37	11.47	242.06	31.09	490.87	1,168.88	945.32	1,356.08
1,650	218	694.04	164.19	0.36	11.33	239.9	30.35	476.75	1,177.16	955.76	1,320.77
1,600	216	710.27	168.1	0.36	11.2	237.74	29.61	459.09	1,185.44	966.02	1,281.92
1,550	214	725.76	171.73	0.36	11.07	235.4	28.81	441.43	1,193.54	976.28	1,243.08
1,500	212	741.25	175.35	0.36	10.94	233.24	27.98	423.78	1,201.82	986.54	1,204.23
1,450	209	756.74	179.12	0.36	10.83	230.9	27.1	402.59	1,209.92	997.34	1,161.85
1,400	206	772.23	182.75	0.37	10.78	228.56	26.12	384.93	1,218.2	1,008.14	1,119.48
1,350	202	786.24	186.09	0.37	10.8	225.68	24.99	367.27	1,225.76	1,018.94	1,073.57
1,300	198	798.78	188.99	0.38	10.83	222.26	23.72	346.08	1,232.42	1,029.74	1,024.13
1,250	192	806.89	191.02	0.4	10.88	217.76	22.12	324.9	1,236.56	1,039.46	967.62
1,200	185	812.05	192.03	0.41	10.94	212.18	20.29	300.17	1,237.82	1,048.1	907.59
1,150	178	810.58	191.89	0.43	10.94	205.34	18.09	275.45	1,235.3	1,054.94	840.49
1,100	169	804.68	190.44	0.46	10.96	197.42	15.58	247.2	1,229.36	1,059.98	762.8

CAT 3306

EMISSIONS DATA

EPA TIER-1 1996 - 2000 ***** A2
 Gaseous emissions data measurements are consistent with those described
 in EPA 40 CFR PART 89 SUBPART D and ISO 8178 for measuring HC, CO, PM,
 and NOx.

Gaseous emissions values are WEIGHTED CYCLE AVERAGES and are in compliance
 with the following non-road regulations:

LOCALITY	AGENCY/LEVEL	MAX LIMITS - g/kW-hr			
U. S. (incl Calif)	EPA/TIER-1	CO:11.4	HC:1.3	NOx:9.2	PM:0.5
Europe	EU/Stage-I	CO:5.0	HC:1.3	NOx:9.2	PM:0.5

EU STAGE-1 1999 - 2001 ***** A2
 Gaseous emissions data measurements are consistent with those described
 in EPA 40 CFR PART 89 SUBPART D and ISO 8178 for measuring HC, CO, PM,
 and NOx.

Gaseous emissions values are WEIGHTED CYCLE AVERAGES and are in compliance
 with the following non-road regulations:

LOCALITY	AGENCY/LEVEL	MAX LIMITS - g/kW-hr			
U. S. (incl Calif)	EPA/TIER-1	CO:11.4	HC:1.3	NOx:9.2	PM:0.5
Europe	EU/Stage-I	CO:5.0	HC:1.3	NOx:9.2	PM:0.5

REFERENCE EXHAUST STACK DIAMETER

WET EXHAUST MASS

WET EXHAUST FLOW (-- STACK TEMP)

WET EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)

DRY EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)

FUEL FLOW RATE

5 IN

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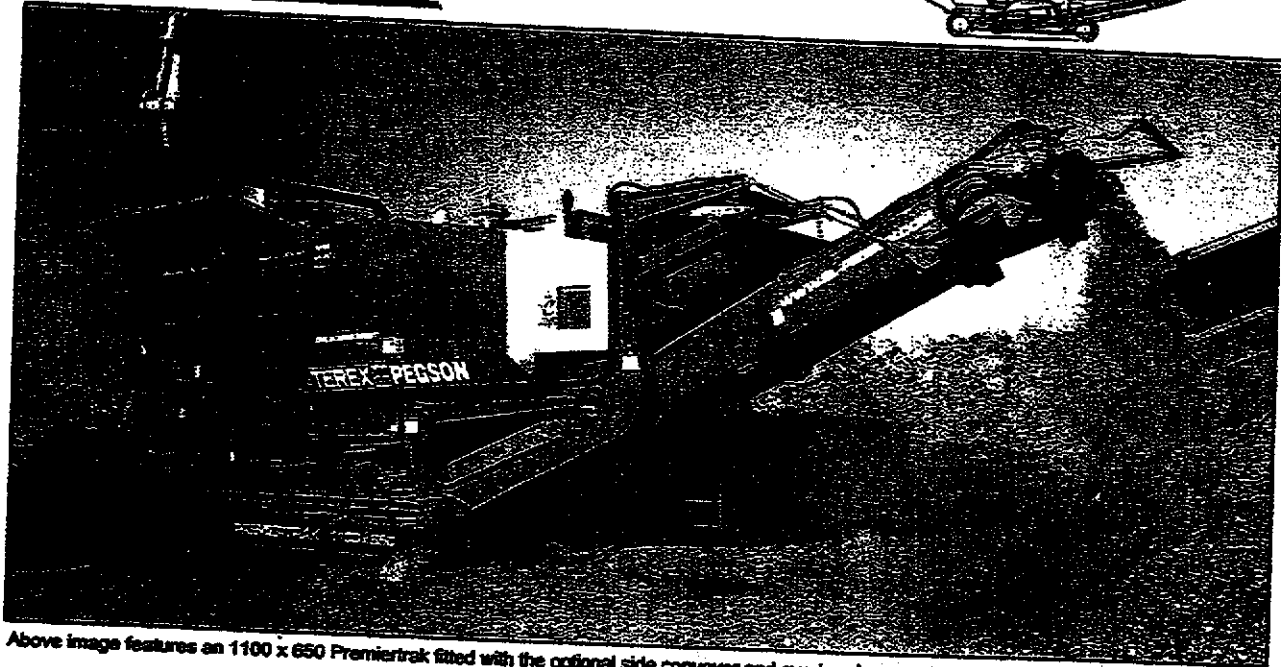
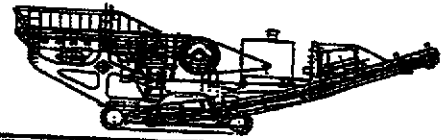
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TEREX | PEGSON

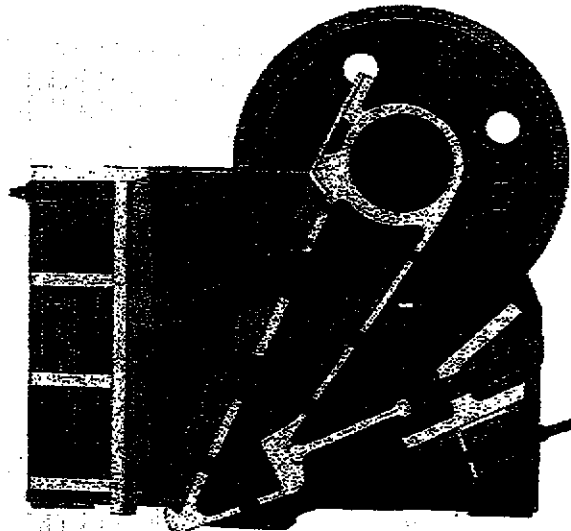
1100 x 650 PREMIERTRAK SPECIFICATION



Above image features an 1100 x 650 Premiertrak fitted with the optional side conveyor and overband magnetic separator.

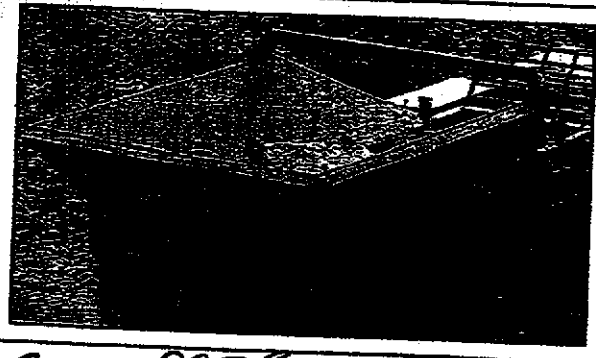
JAW CRUSHER

Crusher type:	M Series Single Toggle Jaw.
Feed opening:	1100 x 650 mm.
Bearings:	Self aligning spherical rollers.
Lubrication:	Eccentric shaft roller bearings lubricated by grease.
Drive:	Through wedge belts with screw tension adjustment on engine.
Pre-set:	75 mm CSS.
Minimum setting:	50 mm closed side on concrete, 75 mm CSS on natural rock not exceeding a 10% fines value of 390kN. Setting measured from root to tip of opposite tooth. For applications outside this range, please consult TP.
Maximum setting:	125 mm.
Adjustment:	Manual adjustment system with hand operated hydraulic pump.



HOPPER

Hopper type:	Hydraulic folding feed hopper.
Hopper length:	4.57m.
Hopper width:	2.42m.
Hopper capacity:	Up to 8.5m ³ gross depending on method of feed.
Hopper body:	15mm thick Hardox wear resistant steel plate with suitably braced steel sections.

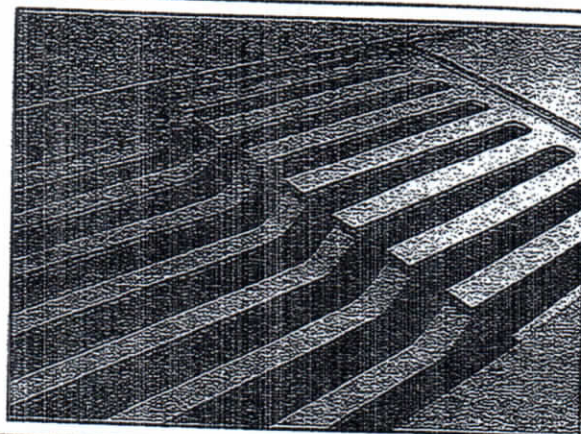


150 TON HR-CONCRETE

1100 x 650 PREMIERTRAK SPECIFICATION

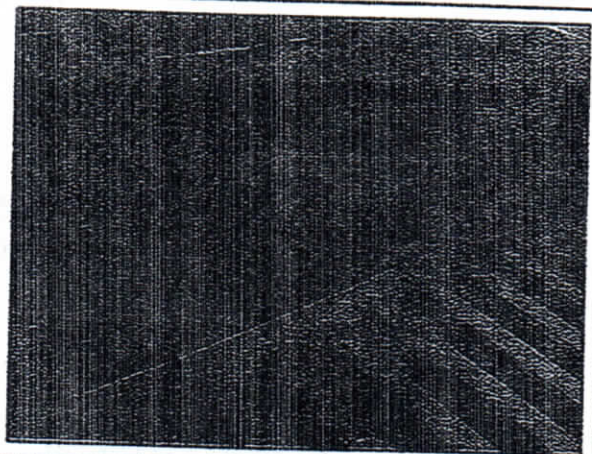
VIBRATING GRIZZLY FEEDER

Type:	Spring mounted vibrating pan.
Vibrating Unit:	Twin heavy-duty cast eccentric shafts running in spherical roller bearings, gear coupled at drive end.
Length:	4.26m.
Width:	1.06m.
Drive:	Flange mounted hydraulic motor
Grizzly:	1.65m long stepped cartridge type grizzly with nominal 60mm aperture tapered from front to back.
Control:	Variable speed control through a proportional flow control valve.



PLANT CHUTEWORK

Crusher feed chute:	Fabricated in 12mm mild steel plate sides with 25mm thick bottom plate.
Grizzly fines chute:	A two-way dirt chute is provided to discharge to the on plant product conveyor or the optional dirt conveyor fabricated in 6mm mild steel plate, complete with hand operated flap door to the direct grizzly fines to either the optional side dirt conveyor or the main product conveyor.

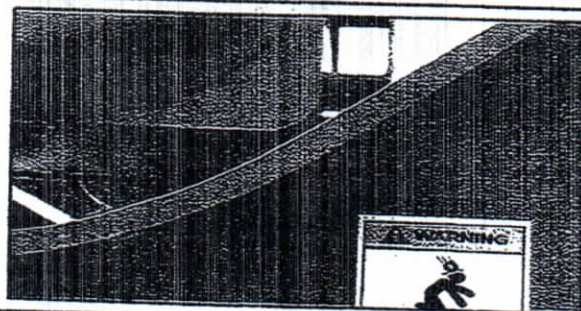


ON PLANT PRODUCT CONVEYOR

Conveyor type:	Troughed belt conveyor with hydraulic raise /lower of the tail section.	Belt adjustment:	Belt tensioning is by use of screw adjustment at the head drum.
Belt type:	EP500/3 with 5mm top and 1.5mm bottom heavy-duty rubber covers to BS490 and DIN 22102.	Belt covers:	Canvas type removable dust covers are fitted at the head end beyond the magnet area.
Belt width:	1m.	Belt scraper:	Polyurethane blades are fitted as standard.
Discharge height:	3.23m.	Lubrication:	Grease nipples located as follows: -
Drive:	Direct drive hydraulic motor	Head shaft:	Two nipples on the left hand side of the product conveyor.
Feedboot:	Fabricated in mild steel plate with abrasion resistant steel liners at feed point.	Tail shaft:	One nipple each side of the main plant chassis.
Impact cradle:	This is provided immediately below the crusher outlet under the conveyor feed point, using heavy-duty impact bars.	Skirting:	Fully skirted wear resistant rubber sealing along the entire conveyor length.

CHASSIS

Heavy duty fabricated I section of welded construction.



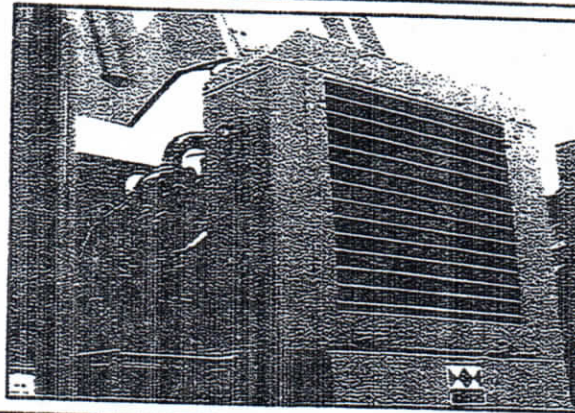
1100 x 650 PREMIERTRAK SPECIFICATION

POWERPACK

Powerpack type:	Caterpillar C-9
Performance:	230 HP (172kW) at 1600 rpm at sea level.
Engine:	Six cylinders, four stroke, direct injection.
Fuel tank capacity:	431 Litres

CLUTCH

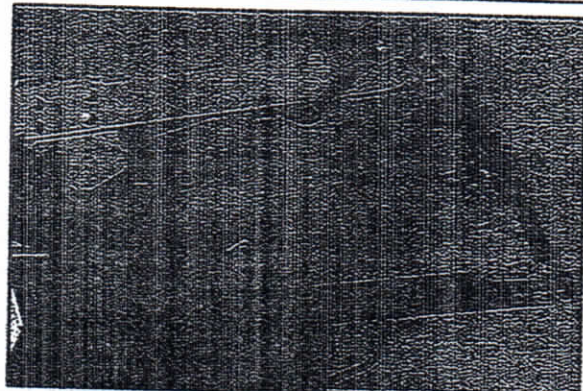
Clutch type:	High efficiency, self-adjusting HFO clutch with electro-hydraulic operation.
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DUST SUPPRESSION SPRAYS

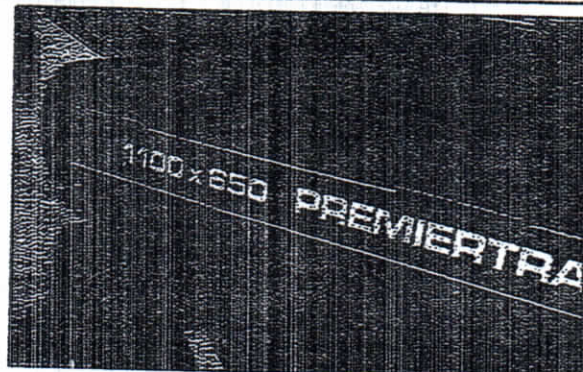
Sprays bars with atomiser nozzles are mounted over the crusher mouth and the product conveyor feed and discharge points piped to an inlet manifold for client's pressured water supply.

Type:	Clean water multi atomising nozzles.
Inlet:	Single Point on chassis.
Pressure required:	2.8 bar (42 psi).
Water supply:	7 litres per minute.
Frost protection:	Via system drain valves.
Pump:	Optional extra.



CRAWLER TRACKS

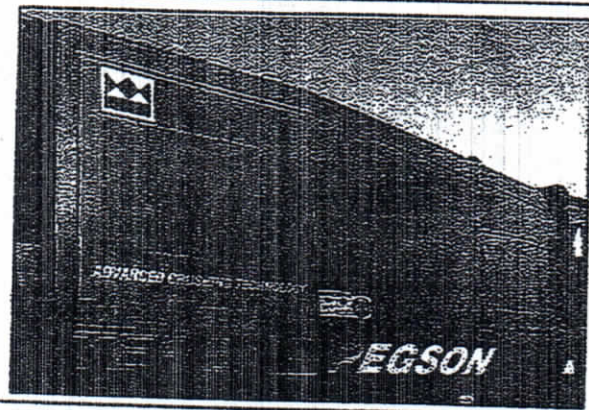
Type:	Heavy-duty tracks fitted as standard.
Pitch:	190mm
Longitudinal centres:	3.8m.
Track width:	500 mm.
Climbing grade:	25° maximum.
High speed:	0.96 km/hr.
Slow speed:	0.321 km/hr.
Drive:	Hydraulic integral motors.
Track tensioning:	Hydraulic adjuster, grease tension.



GUARDS

Wire mesh or sheet metal guards are provided for all drives, flywheels, pulleys & couplings.

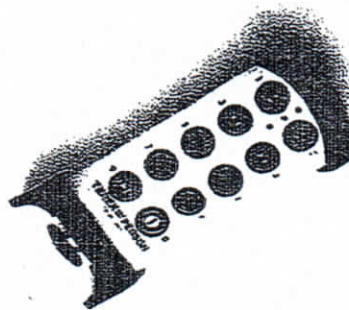
The guards provided are designed and manufactured to CE & ANSI standards.



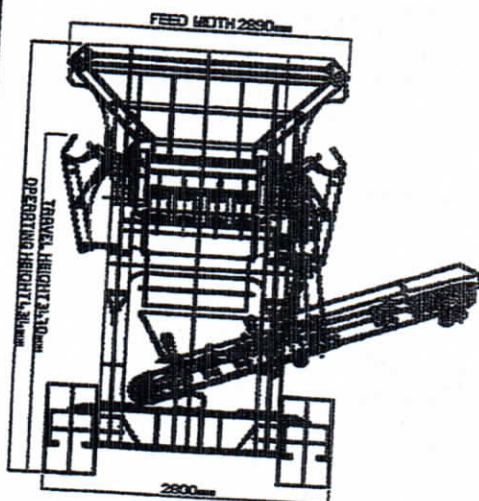
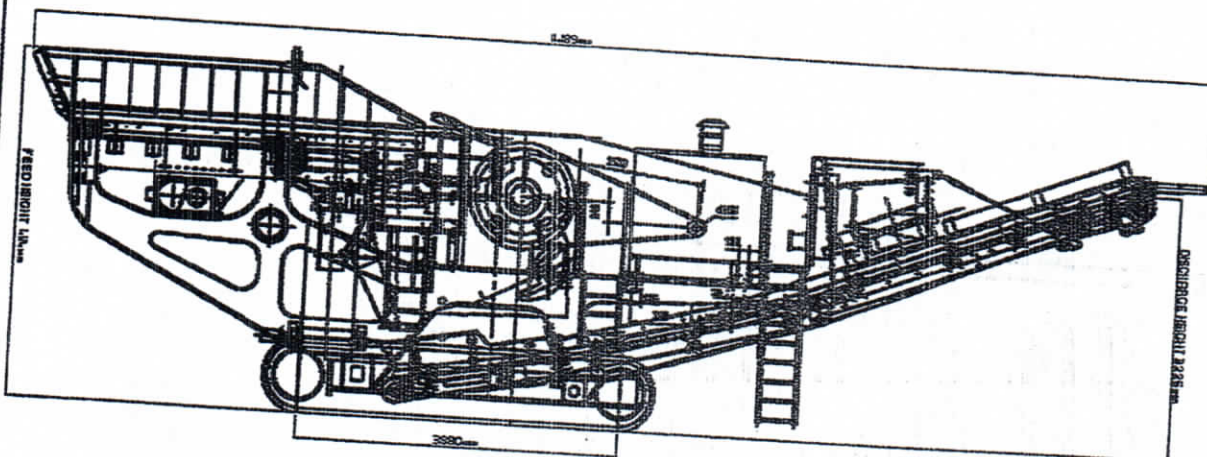
1100 x 650 PREMIERTRAK SPECIFICATION

REMOTE CONTROL (OPTIONAL EXTRA)

This option will control the tracking function and also provides stop and start controls for the vibrating grizzly feeder, together with a stop button for the plant. This facility is only available in certain countries where type approval has been obtained. For a full list of countries, please consult TP or your dealer.



PLANT DIAGRAM



APPROXIMATE OVERALL PLANT WEIGHTS & DIMENSIONS

Operating Length: 14189 mm
Operating Height: 4314 mm

Transport Length: 14189 mm
Transport Width: 2800 mm
Transport Height: 3470 mm

Total plant weight: 45350Kg

PAINTING

The plant is finish painted RAL 5015 Blue. The tracks and handrails are painted RAL 7012 Grey.

General

TEREX | Pegson equipment complies with CE requirements.

The plant is designed to operate between ambient temperatures of between -10c and 40c at altitudes up to 1000 meters above sea level. For applications outside this range please consult with Terex Pegson Limited.

Above line drawings feature a 1100 x 650 Premiertrak with optional side conveyor and overband magnetic separator.

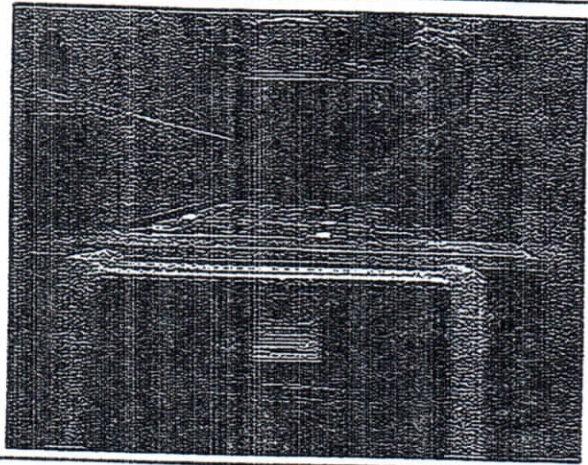
Please consult TEREX | Pegson if you have any other specific requirements in respect of guarding, noise or vibration levels, dust emissions, or any other factors relevant to health and safety measures or environmental protection needs. On receipt of specific requests, we will endeavour to ascertain the need for additional equipment and, if appropriate, quote extra to contract prices. Every endeavour will be made to supply equipment as specified, but we reserve the right, where necessary, to amend the specifications without prior notice as we operate a policy of continual product development. It is the importers responsibility to check that all equipment supplied complies with local legislation.

1100 x 650 Premiertrak specification PT1165/204.

1100 x 650 PREMIERTRAK SPECIFICATION

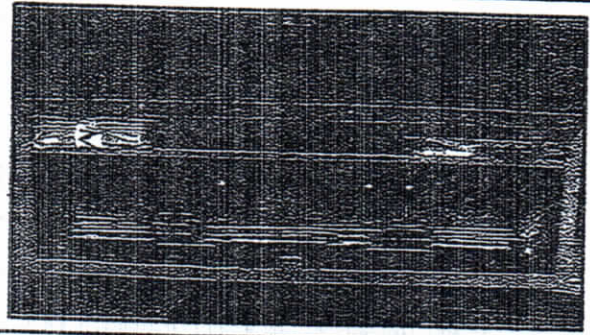
PLATFORMS

Maintenance platforms are provided on each side of the crusher with double row handrails and access ladders. Platforms are also included to gain access between the crusher and the powerpack.



TOOLBOX

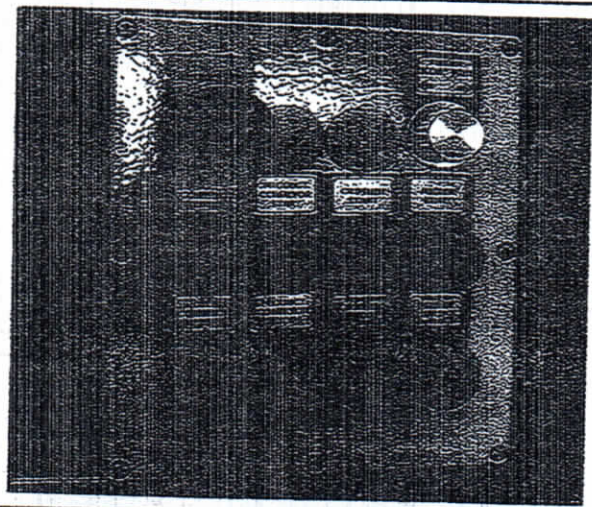
A plant mounted lockable toolbox is provided containing spare crusher shims, operators manual, hopper wedges, jawstock support cylinder and a grease gun.



PLANT CONTROLS

Controls are fitted onto the plant to operate the following items: -

- Feeder (Start/Stop/Speed).
- Optional Dirt Conveyor (Start/Stop).
- Product Conveyor (Start/Stop).
- Crusher (Start/Stop).



UMBILICAL CONTROL

An umbilical control unit is also supplied with the plant. This is fitted with controls for the track motion, feeder stop, start and a stop button for the plant.



1100 x 650 PREMIERTRAK SPECIFICATION

OPTIONAL EXTRAS

(For prices refer to your dealer)

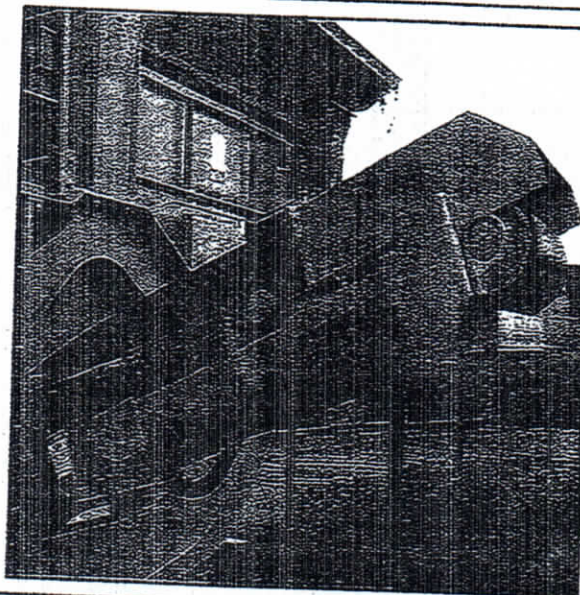
- Feed hopper liner plates in Hardox 400 steel.
- Single idler belt weigher with integrator and speed sensing wheel fitted to the main product conveyor.
- Re-Fuelling pump kit.
- Heavy duty product belt (4 ply).
- Side/dirt conveyor.
- Radio remote control.
- Overband magnetic separator.

RECOMMENDED OPTIONAL EXTRAS

- Engine fire extinguisher system.
- Plant mounted hydraulic pick breaker.
- Camera mounted over crusher mouth with remote screen facility in operators' cabin.
- Hydraulic driven water pump assembly to provide a pressurised water supply to the dust suppression sprays.

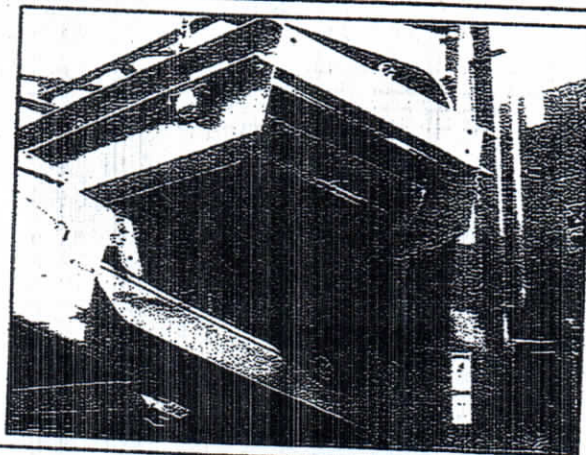
ON PLANT DIRT/SIDE CONVEYOR (OPTIONAL EXTRA)

Conveyor type:	Troughed belt, hydraulic folding for transport.
Width:	600mm.
Discharge height:	2.1m.
Drive:	Direct drive hydraulic motor.
Lubrication:	Grease nipples located as follows: -
Head shaft:	One on each bearing housing.
Tail shaft:	Two on each side of the main chassis below the feeder.
Skirts:	Full length.
Position:	Mounted to discharge on near side of plant.
Function:	To collect fines passing through grizzly bars and/or underscreen mesh and discharges to side of plant provided quantity of fines is not excessive.



MAGNET (OPTIONAL EXTRA)

Magnet type:	Suspended self-cleaning overband.
Magnet width:	600mm.
Magnet length:	1m.
Drive:	Hydraulic Motor.
Control:	Pre-set variable speed.
Discharge chute:	Via stainless steel shedder plate.
Power:	570 Gauss at 200mm. 450 Gauss at 250mm.

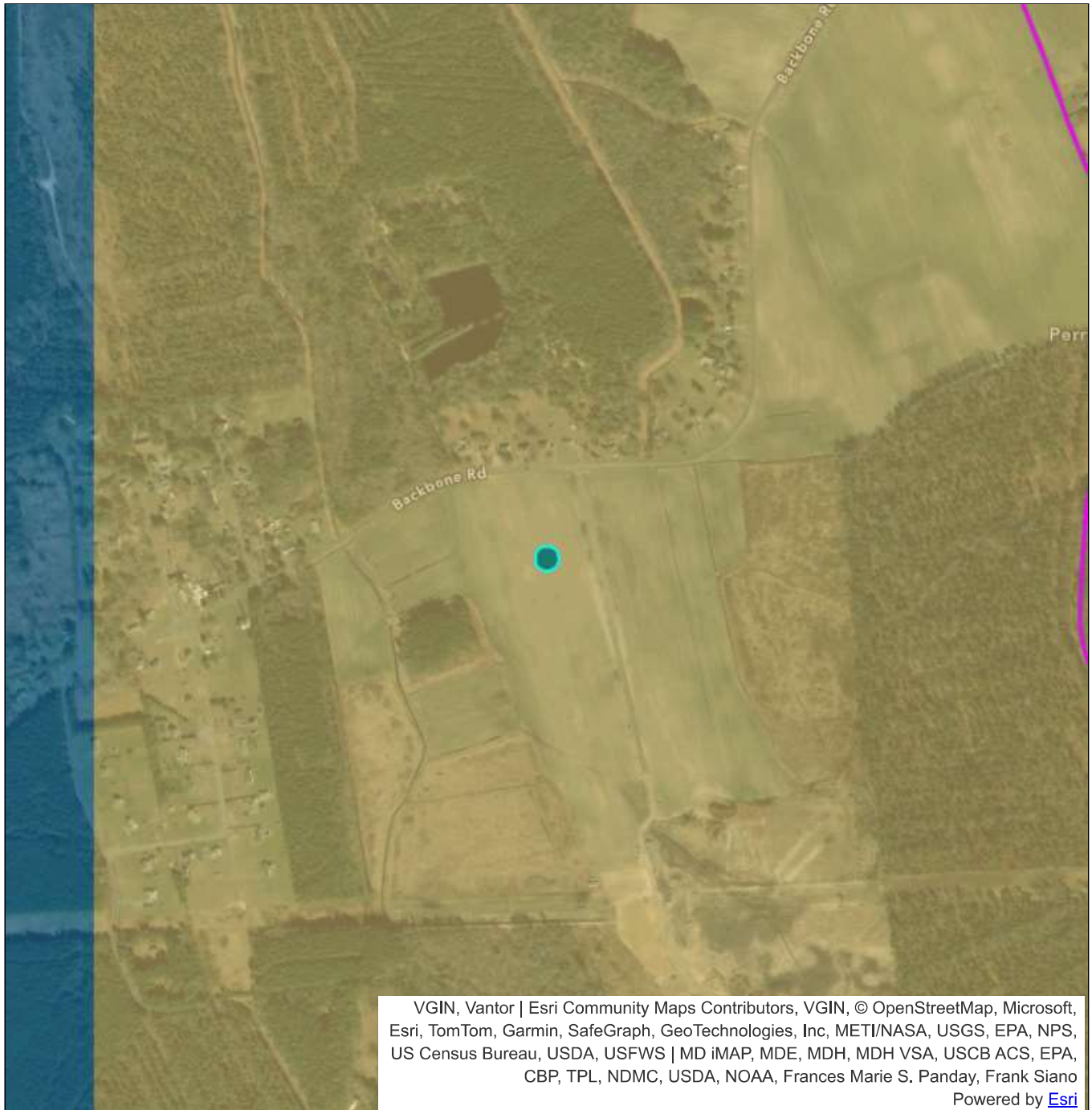


Near Me Report

Area of Interest (AOI) Information

Area:

Date: Mon Mar 23 2026 14:45:44 GMT-0400 (Eastern Daylight Time)



VGIN, Vantor | Esri Community Maps Contributors, VGIN, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS | MD iMAP, MDE, MDH, MDH VSA, USCB ACS, EPA, CBP, TPL, NDMC, USDA, NOAA, Frances Marie S. Panday, Frank Siano
Powered by [Esri](#)

Maryland EJ Score (Right)

Percentile by 2020 Census Tract

» 75 = 100

> 50 – 75

> 25 – 50

0 = 25

Overburdened and Underserved* (Left)

Community Status

Overburdened and Underserved

Only Overburdened

Only Underserved

EJ Summary | Total count: 1

#	EJ Score	Overburdened Community	Overburdened Factors ≥75th Percentile
1	58.00	1	5