

TECHNICAL SUPPORT DOCUMENT

TECHNICAL INFORMATION PRESENTED IN REVIEW OF AN
APPLICATION FOR A AUTHORITY TO CONSTRUCT PERMIT

SUBMITTED BY

CERTAINTEED CORPORATION

for

CERTAINTEED GYPSUM MANUFACTURING, INC.

Source: 4

SIC Code 3275: Gypsum Manufacturing
NASIC Code 327420: Gypsum Products Manufacturing



Clark County Department of Air Quality

August 26, 2016

Table 1: Acronyms and Abbreviations

	Term
Air Quality	Clark County Department of Air Quality
AQR	Clark County Air Quality Regulations
CFR	United States Code of Federal Regulations
CO	Carbon Monoxide
EF	Emission Factor
EI	Emission Increase
EU	Emission Unit
HAP	Hazardous Air Pollutant
H ₂ S	Hydrogen Sulfide
NAICS	North American Industry Classification System
NO _x	Oxides of Nitrogen
OP	Operating Permit
PM ₁₀	Particulate Matter of Ten Microns
ppm	Parts per Million
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
SCC	Source Classification Codes
SIC	Standard Industrial Classification
SO _x	Oxides of Sulfur
SO ₂	Sulfur Dioxide
TSD	Technical Support Document
VAEL	Voluntarily Accepted Emission Limit
VOC	Volatile Organic Compound

Technical Support Document

Preparer: Eugen Avram
Action Date: April 15, 2016
TSD Date: June 8, 2016
Company: CertainTeed Gypsum Manufacturing, Inc.
Submitter: Same
Source: 4
Hydrographic Area: 212
Subject: CertainTeed Gypsum Manufacturing, Inc.
HRC 89033, Box 2900, Las Vegas, Nevada, 89124
T22S, R59E, S4, 5, 8, 9

A. Source Description

CertainTeed Gypsum Manufacturing, Inc. is a producer of gypsum wallboard. The source operates under Standard Industrial Classification code SIC 3275: Gypsum Products and North American Industrial Standardization Code NAISC 327420: Gypsum Product Manufacturing.

B. Permitting Action

CertainTeed Gypsum Manufacturing, Inc. applied for a revision to the current Operating Permit.

The proposed permitting action consists of the installation of an alternative waste wallboard recycling process similar to the existing Group 12 recycling process. The new Group 14 is an alternate operating scenario and will not be operated when the existing Group 12 operates.

Air Quality will issue an ATC for the proposed revision consistent with AQR 12.4.3.2(b).

This ATC will authorize:

- The addition of Group 14 – Alternate Wallboard Recycling System (EUs: N.1, N.2, N.3, and N.4);
- The addition of three diesel engines (EUs: N.5, N.6, and N.7);
- The increase in hours of operation for existing diesel engine EU: L.3.2 from 2,000 hours per year to 2,400 hours per year; and
- The throughput increase in existing Group 12 – Wallboard Recycling System from 85,000 tons per year to 120,000 tons per year.

C. Emission Units

Table 1: New and Modified Emission Units List

EU	Rating	Description	Make	Model No	Serial No	SCC
Group 12 Wallboard Recycling System						
L.1	8.0 acres	Recycle Stockpile				30501508
L.2	100 tons/hr	Feeder				30501504
L.3		Chopper				30501504
L.3.2	400 hp	Diesel Engine, DOM: June 2006	CAT	3406E	BKN01836	20200102
L.4		Conveyor L.4				30501504
L.5	100 tons/hr	Pulverizer				30501507
L.6		Conveyor L.6				30501504
L.7.2	100 tons/hr	Screen				30501507
L.8		Conveyor System (3 belts)				30501504
L.10	0.05 acres	Finished Product Stockpile				30501508
L.13	3.12 VMT/hr	Unpaved Haul Roads				30501504
L.17	10 tons/hr	Recycle Feeder				30501504
L.20		Screw Conveyor				30501504
L.18	10 tons/hr	Bucket Elevator #13				30501504
Group 14 Alternate Wallboard Recycling System						
N.1	50 tons/hr	Grinder	Komptech	Crambo 3400	TBD	30501502
N.2		Conveyor N.2				30501504
N.3	50 tons/hr	Screen	Komptech	Nemus 2700	28054	30501507
N.4		Conveyor System (4 Belts)				30501504
N.5	325 hp	Diesel Engine, DOM: 2014	CAT	C9	REH03390	20200102
N.6	95 hp	Diesel Engine, DOM: 2016	CAT/Perkins	C4.4/1104D-44T	U262427A	20200102
N.7	65 hp	Diesel Engine, DOM: 2004	Cummins	B3.3	68027481	20200102

D. Source Status Determination

In order to determine if the proposed new emissions units (Group 14) have an effect on the source's status an emissions calculation is performed on an uncontrolled, unrestricted basis. Fugitive emissions are not considered for source status determination purpose.

Table 2: New Group 14 PTE – Unrestricted, Uncontrolled (tons per year)

Process	Conditions	PM ₁₀	PM _{2.5}	NO _x	CO	SO ₂	VOC	HAP
Alternate Wallboard Recycling	438,000 tons/yr	61.32	7.88	0	0	0	0	0
325 hp Diesel Engine	8,760 hrs/yr	0.41	0.41	9.32	7.94	0.02	0.94	0.06
95 hp Diesel Engine	8,760 hrs/yr	0.14	0.14	2.75	2.39	0.01	0.28	0.02
65 hp Diesel Engine	8,760 hrs/yr	0.19	0.19	3.51	2.32	0.01	0.69	0.01
Group 14 PTE		62.06	8.62	15.58	12.65	0.04	1.91	0.09

For detailed calculations see Attachments section

As indicated in Table 3 the source status emissions are above major source threshold for PM₁₀ and NO_x and subsequently, the source would also be a major source for PM₁₀ and NO_x.

Table 3: Major Source Thresholds (tons per year)

	PM ₁₀	PM _{2.5}	NO _x	CO	SO _x	VOC	HAP
Previous Title V PTE*	59.54	29.67	93.20	127.83	1.08	42.73	2.25
Group 14 Uncontrolled/Unrestricted	62.06	8.62	15.58	12.65	0.04	1.91	0.09
Source Status Emissions	121.6	38.29	108.78	140.48	1.12	44.64	2.34
Major Source Thresholds	100	100	100	100	100	100	10/25/

* Previous Source PTE from Part 70 OP issued on 03/18/2016

E. Operational Limits

The source proposed operational and production VAEL's and subsequently avoided major source status for PM₁₀ and NO_x. Therefore, the source is categorized as a synthetic minor for PM₁₀ and NO_x.

The proposed operational and production limitations consist of the following:

- The combined throughput for Group 12 and Group 14 shall not exceed 120,000 tons per year.
- Each diesel engine (EUs: L.3.2, N.5, N.6, and N.7) operation shall be limited to 2,400 hours per year.

F. Project Emissions / Source PTE

The Permittee proposes the addition of an Alternate Wallboards Recycling System (Group 14) that does not operate when the original Wallboard Recycling System (Group 12) operates.

The source requested to maintain 0.5 percent moisture control (equivalent to 62 percent control efficiency) as its method to control fugitive particulate matter emissions. Subsequently, a control factor of 0.38 is applied throughout the wallboard recycling plant when calculating the source PTE. This moisture control effectively reduced the emissions of the proposed wallboard recycling system (i.e. Group 14) below the significance threshold for PM₁₀. Therefore, the control method will constitute a VAEL in addition to the production limit referenced above for wallboard recycling.

In order to determine the project emissions for this permitting action, each recycling system's emissions is evaluated; namely, the revised Group 12 emissions vs new Group 14 emissions (based on the proposed control, operational and production limitations – VAEL's).

Table 4: Existing Group 12 PTE (tons per year)

Process	Conditions	PM ₁₀	PM _{2.5}	NO _x	CO	SO ₂	VOC	HAP
Wallboard Recycling System	85,000 tons/yr	6.08	0.71	0	0	0	0	0
400 hp Diesel Engine	2,000 hrs/yr	0.13	0.13	3.96	2.29	0.23	0.26	0.02
Existing Group 12 Subtotals		6.21	0.84	3.96	2.29	0.23	0.26	0.02

Table 5: Modified Group 12 PTE (tons per year)

Process	Conditions	PM ₁₀	PM _{2.5}	NO _x	CO	SO ₂	VOC	HAP
Wallboard Recycling System	120,000 tons/yr	8.2	0.9	0	0	0	0	0
400 hp Diesel Engine	2,400 hrs/yr	0.16	0.16	4.76	2.75	0.28	0.32	0.02
Modified Group 12 Subtotals		8.36	1.06	4.76	2.75	0.28	0.32	0.02

Table 6: Emissions Increase Due to Group 12 Modification (tons per year)

Process	Conditions	PM ₁₀	PM _{2.5}	NO _x	CO	SO ₂	VOC	HAP
Wallboard Recycling System (Δ)	35,000 tons/yr	2.12	0.19	0	0	0	0	0
400 hp Diesel Engine (Δ)	400 hrs/yr	0.03	0.03	0.80	0.46	0.05	0.06	0
Group 12 Emissions Increase		2.15	0.22	0.80	0.46	0.05	0.06	0

Table 7: New Group 14 PTE – Proposed (tons per year)

Process	Conditions	PM ₁₀	PM _{2.5}	NO _x	CO	SO ₂	VOC	HAP
Alternate Wallboard Recycling	120,000 tons/yr	6.41	0.84	0	0	0	0	0
325 hp Diesel Engine	2,400 hrs/yr	0.11	0.11	2.55	2.18	0.01	0.26	0.02
95 hp Diesel Engine	2,400 hrs/yr	0.04	0.04	0.75	0.65	0.01	0.08	0.01
65 hp Diesel Engine	2,400 hrs/yr	0.05	0.96	0.64	0.01	0.19	0.01	0.05
Group 14 PTE		6.61	1.95	3.94	2.84	0.21	0.35	0.03

As indicated in Tables 5 and 7 the emissions associated with Group 14 are smaller than emissions of modified Group 12. Since Group 14 is proposed as an alternate recycling group, and since its emissions do not exceed Group 12 emissions, the project emissions increase for this permitting action are represented by the increase in Group 12 emissions, as indicated in Table 6. Subsequently, the new Title V source PTE is based on the greater PTE of the two operating scenarios (i.e. Group 12) and summarized in Table 8:

Table 8: Source PTE (tons per rolling 12- months)

Permitting Action	PM ₁₀	PM _{2.5}	NO _x	CO	SO ₂	VOC	HAP
Previous Title V PTE*	59.54	29.67	93.20	127.83	1.08	42.73	2.25
Project Emissions Increase	2.15	0.22	0.80	0.46	0.05	0.06	0
Source PTE	61.69	29.89	94.00	128.29	1.13	42.79	2.25

* Previous Source PTE from Part 70 OP issued on 03/18/2016

G. Review of Applicable Regulations

Diesel engines L.3.2, N.5, and N.6 are subject to the provisions of 40 CFR 60, Subpart IIII.

Diesel engine N.7 was manufactured in year 2004 and is subject to the provisions of 40 CFR 63, Subpart ZZZZ.

The diesel engines at this source are subject to 40 CFR 60 Subpart IIII and 40 CFR 63 Subpart ZZZZ and must meet the fuel requirements referenced therein from 40 CFR Subpart I, §80.510(b) for non-road diesel fuel. The source must purchase diesel fuel that meets the per-gallon standard of 15 ppm maximum sulfur content, a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent. As all refiners and importers of non-road diesel fuel are also subject to these federal standards pursuant to

40 CFR §80.510, it is reasonable to assume the operators of the engines have very little opportunity, if any, to acquire fuel that violates these standards. Therefore, the Permittee is not being required by the operating permit to monitor or keep records of the sulfur content, cetane index, or aromatic content of the diesel fuel used in their engines (EUs: L.3.2, N.5, N.6, and N.7).

H. Control Technology

Table 9: Project Emissions (tons per rolling 12- months)

	PM ₁₀	PM _{2.5}	NO _x	CO	SO ₂	VOC	HAP
Project Emissions	2.15	0.22	0.80	0.46	0.05	0.06	0
Minor Significance Thresholds AQR 12.4.2.1(b)	7.5	5	20	50	20	20	N/A
Control Technology	N/A	N/A	N/A	N/A	N/A	N/A	N/A

The current permitting action does not exceed minor NSR significance thresholds as specified in AQR 12.4.2.1(b) and subsequently, a RACT analysis is not required.

See Section F above for an evaluation regarding 0.5 percent moisture control for particulate matter emission.

I. Monitoring

Monitoring conditions are standard for this source type and are detailed in the permit.

J. Testing

No performance testing requirements have been identified for this permitting action.

K. Mitigation

The Permittee has no Federal offset obligation.

L. Increment

CertainTeed Gypsum Manufacturing is a major source in Hydrographic Area 212 (Las Vegas Valley). Permitted emission units include a mill, 6 dryers, 7 calciners, 2 paper heaters, one generator, one fire pump and other gypsum manufacturing equipment. Since minor source baseline dates for NO_x (October 21, 1988) and SO₂ (June 29, 1979) have been triggered, Prevention of Significant Deterioration (PSD) increment analysis is required.

Air Quality modeled the source using AERMOD to track the increment consumption. Stack data submitted by the applicant were supplemented with information available for similar emission units. Five years (1999 to 2003) of meteorological data from the McCarran Station and Desert Rock Station were used in the model. United States Geological Survey (USGS) National Elevation Dataset (NED) terrain data was used to calculate elevations. Table 10 presents the results of the modeling.

Table 10: PSD Increment Consumption

Pollutant	Averaging Period	PSD Increment Consumption by the Source ($\mu\text{g}/\text{m}^3$)	Location of Maximum Impact	
			UTM X (m)	UTM Y (m)
SO ₂	3-hour	3.34 ¹	645275	3991315
SO ₂	24-hour	0.66 ¹	645660	3991530
SO ₂	Annual	0.23	645660	3991530
NO _x	Annual	6.87	645660	3991530

¹Second High Concentration

Table 10 shows the location of the maximum impact and the potential PSD increment consumed by the source at that location. The impacts are below the PSD increment limits.

M. Public Notice

This permitting action will not be subject to public participation required by AQR 12.4.3.2(a)(3), because this revision's emissions do not meet or exceed the minor NSR significance levels and is not a major modification.

Public participation under AQR 12.5.2.17 is not required because this permitting action is not an initial issuance, significant revision, reopened for cause or renewal.

N. Permitting History

1. The application was deemed complete on 05/18/2016.
2. The draft permit and TSD was sent for review on June 8, 2016.

O. Attachments

Group 12 Emissions Calculation (PM₁₀)

EU	Transfer Points	Throughput	EF PM ₁₀	EF PM _{2.5}	CF	PM ₁₀	PM _{2.5}
L.1	Recycle Stockpile					2.41	0.36
L.2	Loader to Feeder	120,000	0.01	0.0015	0.38	0.23	0.04
L.3	Feeder to Chopper	120,000	0.01	0.0015	0.38	0.23	0.04
L.4	Chopper to Conveyor L.4	120,000	0.01	0.0015	0.38	0.23	0.04
L.5	Conveyor L.4 to Pulverizer	120,000	0.01	0.0015	0.38	0.23	0.04
L.6	Pulverizer to Conveyor L.6	120,000	0.01	0.0015	0.38	0.23	0.04
L.7.2	Conveyor L.6 to Screen	120,000	0.08	0.0015	0.38	1.83	0.04
	Screen to Conveyor L.7.3						
	Screen to Conveyor L.7.4						
L.8	Conveyor L.7.3 to Stack L.9	120,000	0.01	0.0015	0.38	0.23	0.04
L.10	Stack L.9 to Finished Product Stockpile	120,000	0.04	0.0015	0.38	0.92	0.04
L.13	Unpaved Haul Roads	2,562 VMT/yr	7.57 lb/VMT	0.76 lb/VMT	0.1	0.97	0.10
L.17	Loader to Recycle Feeder	120,000	0.01	0.0015	0.38	0.23	0.04
	Screw Conv to Recycle Feeder						

EU	Transfer Points	Throughput	EF PM ₁₀	EF PM _{2.5}	CF	PM ₁₀	PM _{2.5}
L.20	Recycle Feeder to Screw Conv L.20	120,000	0.01	0.0015	0.38	0.23	0.04
L.18	Screw Conv L.20 to Bucket Elevator #13	120,000	0.01	0.0015	0.38	0.23	0.04

Group 14 Emissions Calculation (PM₁₀)

EU	Transfer Points	Throughput	EF PM ₁₀	EF PM _{2.5}	CF	PM ₁₀	PM _{2.5}
N.1	Grinder	120,000	0.13	0.006	0.38	2.97	0.14
N.2	Grinder to Conveyor N.2						
N.3	Conveyor N.2 to Screen	120,000	0.08	0.006	0.38	1.83	0.14
	Screen						
	Screen to Conveyor N.4.1						
N.4	Conveyor N.4.1 to Conveyor N.4.2	120,000	0.01	0.006	0.38	0.23	0.14
	Conveyor N.4.2 to Conveyor N.4.3	120,000	0.01	0.006	0.38	0.23	0.14
	Conveyor N.4.3 to Stack N.4.4	120,000	0.01	0.006	0.38	0.23	0.14
L.10	Stacker N.4.4 to Stockpile (Finished Product)	120,000	0.04	0.006	0.38	0.92	0.14

EU#	L.3.2 (mod)	Horsepower:	400	Emission Factor (lb/hp-hr)	Control Efficiency	Potential Emissions			
Make:	CAT	Hours/Day:				lb/hr	lb/day	ton/yr	
Model:	3406E	Hours/Year	2400	PM10	3.31E-04	0.00%	0.13	0.00	0.16
S/N:	BKN01836			NOx	9.92E-03	0.00%	3.97	0.00	4.76
				CO	5.73E-03	0.00%	2.29	0.00	2.75
Manufacturer Guarantees				SOx	5.73E-04	0.00%	0.23	0.00	0.28
PM10	0.15 g/hp-hr			VOC	6.61E-04	0.00%	0.26	0.00	0.32
NOx	4.5 g/hp-hr			HAP	4.52E-05	0.00%	0.02	0.00	0.02
CO	2.6 g/hp-hr								
SOx	0.26 g/hp-hr								
VOC	0.3 g/hp-hr								
Engine Type:	Diesel								

EU#	N.5 (new)	Horsepower:	325	Emission Factor (lb/hp-hr)	Control Efficiency	Potential Emissions			
Make:	CAT	Hours/Day:				lb/hr	lb/day	ton/yr	
Model:	C9	Hours/Year	2400	PM10	2.87E-04	0.00%	0.09	0.00	0.11
S/N:	REH03390			NOx	6.55E-03	0.00%	2.13	0.00	2.55
				CO	5.58E-03	0.00%	1.81	0.00	2.18
Manufacturer Guarantees				SOx	1.21E-05	0.00%	0.01	0.00	0.01
PM10	0.13 g/hp-hr			VOC	6.61E-04	0.00%	0.21	0.00	0.26
NOx	2.97 g/hp-hr			HAP	4.52E-05	0.00%	0.01	0.00	0.02
CO	2.53 g/hp-hr								
SOx	0.0055 g/hp-hr								
VOC	0.3 g/hp-hr								
Engine Type:	Diesel								

EU#	N.6 (new)		Horsepower:	95		Emission Factor (lb/hp-hr)	Control Efficiency	Potential Emissions		
Make:	CAT/Perkins		Hours/Day:					lb/hr	lb/day	ton/yr
Model:	C4.4/1104D-44T		Hours/Year	2400	PM10	3.31E-04	0.00%	0.03	0.00	0.04
S/N:	U262427A				NOx	6.61E-03	0.00%	0.63	0.00	0.75
Manufacturer Guarantees					CO	5.73E-03	0.00%	0.54	0.00	0.65
PM10	0.15	g/hp-hr			SOx	1.21E-05	0.00%	0.01	0.00	0.01
NOx	3	g/hp-hr			VOC	6.61E-04	0.00%	0.06	0.00	0.08
CO	2.6	g/hp-hr			HAP	4.52E-05	0.00%	0.01	0.00	0.01
SOx	0.0055	g/hp-hr								
VOC	0.3	g/hp-hr								
Engine Type:	Diesel									

EU#	N.7		Horsepower:	65		Emission Factor (lb/hp-hr)	Control Efficiency	Potential Emissions		
Make:	Cummins		Hours/Day:					lb/hr	lb/day	ton/yr
Model:	B3.3		Hours/Year	2400	PM10	6.61E-04	0.00%	0.04	0.00	0.05
S/N:	68027481				NOx	1.23E-02	0.00%	0.80	0.00	0.96
Manufacturer Guarantees					CO	8.16E-03	0.00%	0.53	0.00	0.64
PM10	0.3	g/hp-hr			SOx	1.21E-05	0.00%	0.01	0.00	0.01
NOx	5.6	g/hp-hr			VOC	2.43E-03	0.00%	0.16	0.00	0.19
CO	3.7	g/hp-hr			HAP	4.52E-05	0.00%	0.01	0.00	0.01
SOx	0.0055	g/hp-hr								
VOC	1.1	g/hp-hr								
Engine Type:	Diesel									

Group 14 Unrestricted/Uncontrolled Emissions:

EU	Rating	Transfer Points	Throughput	EF PM ₁₀	EF PM _{2.5}	CF	PM ₁₀	PM _{2.5}
N.1	50	Grinder	438,000	0.13	0.006	1	28.47	1.31
N.2		Grinder to Conveyor N.2						
N.3	50	Conveyor N.2 to Screen	438,000	0.08	0.006	1	17.52	1.31
		Screen						
		Screen to Conveyor N.4.1						
N.4		Conveyor N.4.1 to Conveyor N.4.2	438,000	0.01	0.006	1	2.19	1.31
		Conveyor N.4.2 to Conveyor N.4.3	438,000	0.01	0.006	1	2.19	1.31
		Conveyor N.4.3 to Stack N.4.4	438,000	0.01	0.006	1	2.19	1.31
L.10		Stacker N.4.4 to Stockpile (Finished Product)	438,000	0.04	0.006	1	8.76	1.31
Totals							61.32	7.86

EU#	N.5 (new)		Horsepower:	325		Emission Factor	Control	Potential Emissions		
Make:	CAT		Hours/Day:			(lb/hp-hr)	Efficiency	lb/hr	lb/day	ton/yr
Model:	C9		Hours/Year	8760	PM10	2.87E-04	0.00%	0.09	0.00	0.41
S/N:	REH03390				NOx	6.55E-03	0.00%	2.13	0.00	9.32
					CO	5.58E-03	0.00%	1.81	0.00	7.94
Manufacturer Guarantees					SOx	1.21E-05	0.00%	0.01	0.00	0.02
PM10	0.13	g/hp-hr			VOC	6.61E-04	0.00%	0.21	0.00	0.94
NOx	2.97	g/hp-hr			HAP	4.52E-05	0.00%	0.01	0.00	0.06
CO	2.53	g/hp-hr								
SOx*	0.0055	g/hp-hr								
VOC	0.3	g/hp-hr								
*AP-42 for Diesel Fuel Sulfur Content of 15 ppm (0.0015%)										
Engine Type:	Diesel									

EU#	N.6 (new)		Horsepower:	95		Emission Factor	Control	Potential Emissions		
Make:	CAT/Perkins		Hours/Day:			(lb/hp-hr)	Efficiency	lb/hr	lb/day	ton/yr
Model:	C4.4/1104D-44T		Hours/Year	8760	PM10	3.31E-04	0.00%	0.03	0.00	0.14
S/N:	U262427A				NOx	6.61E-03	0.00%	0.63	0.00	2.75
					CO	5.73E-03	0.00%	0.54	0.00	2.39
Manufacturer Guarantees**					SOx	1.21E-05	0.00%	0.01	0.00	0.01
PM10	0.15	g/hp-hr			VOC	6.61E-04	0.00%	0.06	0.00	0.28
NOx	3	g/hp-hr			HAP	4.52E-05	0.00%	0.01	0.00	0.02
CO	2.6	g/hp-hr								
SOx*	0.0055	g/hp-hr								
VOC	0.3	g/hp-hr								
*AP-42 for Diesel Fuel Sulfur Content of 15 ppm (0.0015%) ** EPA Tier 3										
Engine Type:	Diesel									

EU#	N.7		Horsepower:	65		Emission Factor	Control	Potential Emissions		
Make:	Cummins		Hours/Day:			(lb/hp-hr)	Efficiency	lb/hr	lb/day	ton/yr
Model:	B3.3		Hours/Year	8760	PM10	6.61E-04	0.00%	0.04	0.00	0.19
S/N:	68027481				NOx	1.23E-02	0.00%	0.80	0.00	3.51
					CO	8.16E-03	0.00%	0.53	0.00	2.32
Manufacturer Guarantees					SOx	1.21E-05	0.00%	0.01	0.00	0.01
PM10	0.3	g/hp-hr			VOC	2.43E-03	0.00%	0.16	0.00	0.69
NOx	5.6	g/hp-hr			HAP	4.52E-05	0.00%	0.01	0.00	0.01
CO	3.7	g/hp-hr								
SOx	0.0055	g/hp-hr								
VOC	1.1	g/hp-hr								
Engine Type:	Diesel									