
Bullseye Glass Company
Title 5 Air Operating Permit Application

Prepared for
Oregon Department of Environmental Quality

May 30, 2017

Bullseye Title V Air Permit Application Contents

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Other Information

- Copy of Current ACDP

Administrative Information and Certification

Facility name: Bullseye Glass Company Permit Number: 26-3135-ST-01

1.	Site identifier:	Bullseye Glass Company
2.	Legal Name:	Bullseye Glass Company
3.	Mailing Address: P.O. Box or Street number	3722 SE 21 st Avenue
	City, State, ZIP	Portland, Oregon 97202
4.	Facility Address: Street number or description	3722 SE 21 st Avenue
	City, County, ZIP	Portland, Oregon 97202
5.	Owner: Name	Bullseye Glass Company
	Phone number	(503) 232-8887
6.	Contact Person: Name	Eric Durrin
	Title	Controller
	Phone number	(503) 232-8887 x103
	e-mail address	ericdurrin@bullseyeglass.com
	Fax number	(503) 238-9963
7.	Business activity: Description	Colored Art Glass Manufacturing
	Standard Industrial Classification (SIC) Code	3211
8.	Other permits:	UIC # 11228, EPA ID#ORQ000035579

Statement of Certification:

I have reviewed this application and all supporting documentation in their entirety and to the best of my knowledge, information, and belief formed after reasonable inquiry, the statements and information contained herein are true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment for knowing violations.

The status of this facility's compliance with all air pollution control applicable requirements is reported in this application along with the methods to be used for compliance demonstration. For applicable requirements with which this facility is in compliance, this facility will continue to comply with such requirements. For applicable requirements that will become effective during the permit term, this facility will meet such requirements on a timely basis. If there are any applicable requirements for which this facility is not in compliance, a schedule of compliance is included in this permit application describing how compliance will be achieved.

Eric Durrin

Name of Responsible Official

Controller

Title of Responsible Official

Signature of Responsible Official

Date

Facility Description

Facility name: Bullseye Glass Company Permit Number: 26-3135-ST-01

1.	Facility description:	
	<p>The facility manufactures colored art glass. The manufacturing process includes mixing sand, soda lime and crushed glass with dry coloring agents, moistening the mixture with water, melting the mixture in tank furnaces and forming glass sheets. The sheets are cut to specific sizes.</p> <p>A baghouse system consisting of BHW-1, BHW-2 and BHW-3 was approved by DEQ on 8/31/16. The baghouse system was installed and controls emissions from 18 colored art glass manufacturing furnaces.</p>	
2.	Property area (specify: acres, m ²)	~3 acres
3.	Nonattainment area [yes/no; if yes, specify]	No
4.	Number of employees	~140
5.	Maximum capacity [specify units] hourly	NA*
	annually	4878 tons**

*Production units are batch operated and hourly production rates are not applicable.

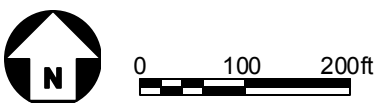
** Based on the theoretical maximum melt capacity of each furnace operating 365 days/yr with certain furnaces restricted less than 50 tpy

- 6. Attach plot plan **See Attachment A**
- 7. Attach regional map **See Attachment A**
- 8. Attach USGS map **See Attachment A**

Attachment A



Photo Source: Portlandmaps.com; 2015 aerial photo



Legend
 [Green crosshair symbol] Emission Point

Figure A-1
 Plot Plan, Emission Points & Vicinity
 Bullseye Glass Company



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Figure A-2
 USGS Map
 Source: USGS, Lake Oswego Quadrangle, 2017

BULLSEYE GLASS COMPANY TITLE V PERMIT APPLICATION

Operating Scenario Description

Facility name: Bullsye Glass Company Permit Number: 26-3135-ST-1

1	Operating scenario ID	OS-01
2.	Operating scenario description:	
	<p>This base operating scenario is for the planned full build-out of the facility and an alternate operating scenario is not proposed with this permit application. The industrial activities associated with this base operating scenario are glass manufacturing and support systems (see Form Series DV200, CD300, and EU500 for more details). Emissions of regulated air pollutants associated with this base operating scenario are criteria air pollutants, hazardous air pollutants (HAPs), greenhouse gases (GHGs) (see Form Series ED600 for more detail).</p>	
3.	List the emissions units involved in this operating scenario.	EU-6S Furnaces, EU-Furnaces, EU-Tekna, EU-Batch Room, EU-Frit Room
4.	Operating schedule: hours/day	up to 24
	days/week	up to 7
	weeks/year	up to 52
5	Seasonal variation (%): December - February	25%
	March – May	25%
	June - August	25%
	September - November	25%

6. Attach process flow diagram **See Attachment B**

Attachment B

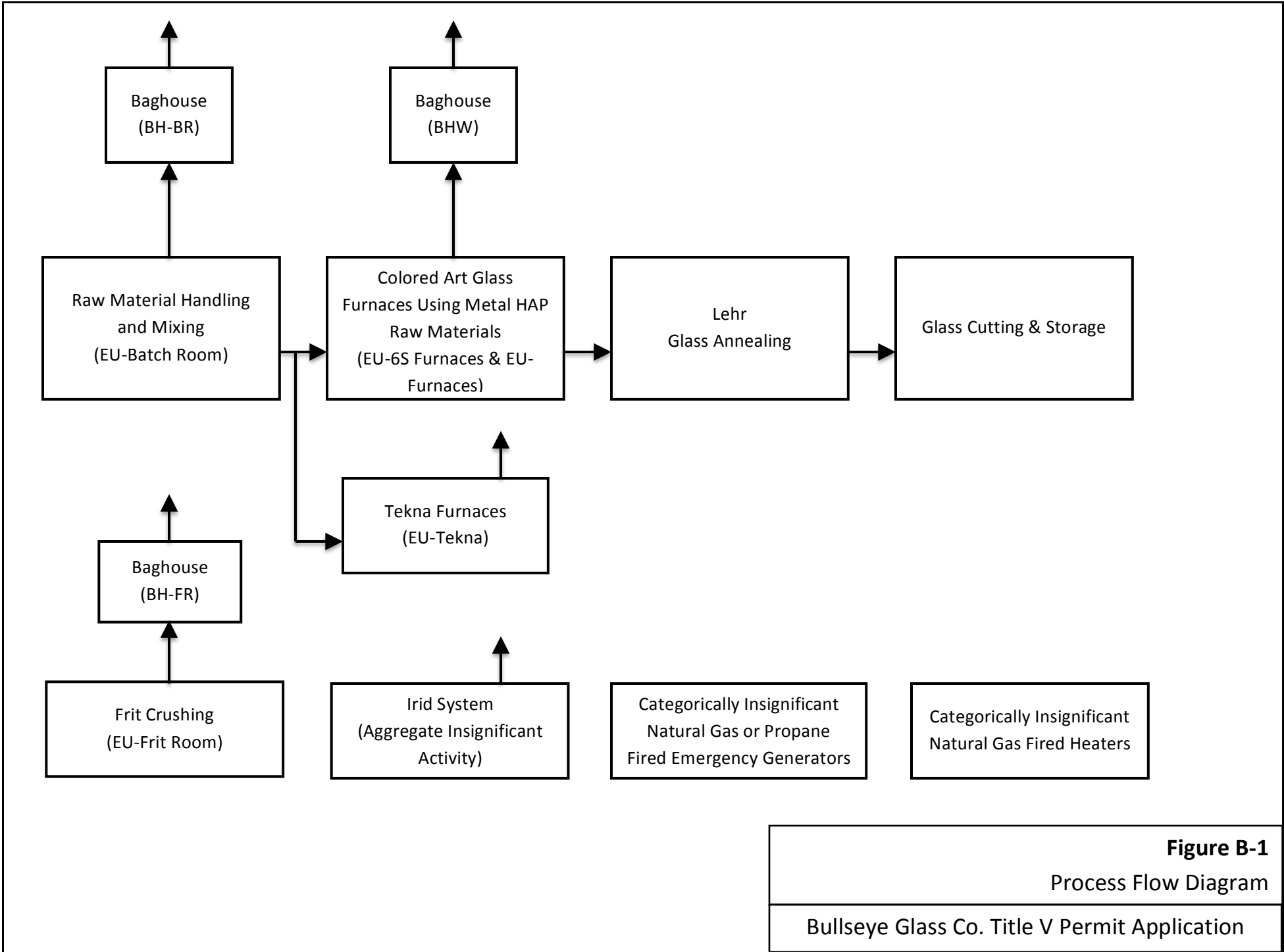


Figure B-1
 Process Flow Diagram
 Bullseye Glass Co. Title V Permit Application



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Facility name: Bullseye Glass Company Permit Number: 26-3135-ST-1

1.	Device name and ID number or label	EU-6S Furnaces, EU-Furnaces & EU-Tekna
2.	Date installation/construction commenced	See Attachment C
3.	Date installed	See Attachment C
4.	Special control requirements? [if yes, describe]	No
5.	<p>Description of process:</p> <p>The manufacturing process includes mixing sand, soda lime and crushed glass with dry coloring agents, moistening the mixture with water, melting the mixture in tank furnaces and forming glass sheets.</p> <p>EU-6S Furnaces: 14 furnaces using metal HAPs* potentially subject to 40 CFR Part 63 Subpart SSSSSS EU-Furnaces: 4 furnaces using metal HAPs* and not subject to 40 CFR Part 63 Subpart SSSSSS EU-Tekna: 2 furnaces not using metal HAPs*</p> <p>Attachment C provides a table summarizing the information on this form for each furnace.</p> <p>*Glass manufacturing metal HAPs as defined in 40 CFR § 63.11459 are As, Cd, Cr, Pb, Mn, and Ni.</p>	
6.	Continuous or batch process? [if batch, maximum batches per hour]	See Attachment C

7. Raw material usage: [for EACH raw material used, enter]:

Material	Maximum design capacity (lbs/batch or lbs/hr)
See Attachment C	See Attachment C

8. Production data: [for EACH product, enter]:

Product	Maximum design capacity (lbs/batch or lbs/hr)
See Attachment C	See Attachment C

9. Attach any additional information necessary to describe this process and its operating and usage parameters, both short-term and annual.
See emission calculations.



Facility name: Bullseye Glass Company

Permit Number: 26-3135-ST-1

1.	Device name and ID number or label	EU-Batch Room
2.	Date installation/construction commenced	1974
3.	Date installed	1974
4.	Special control requirements? [if yes, describe]	No
5.	<p>Description of process:</p> <p>Batch room operations consist of the following equipment controlled by baghouse BH-BR:</p> <ul style="list-style-type: none"> • Main Weigh Hopper - A weigh hopper for weighing and dispensing bulk raw materials. • Two Eirich blenders for mixing raw materials containing metal HAPs <ul style="list-style-type: none"> ○ EB01 ○ EB03 • One Eirich blender for mixing raw materials (controlled by a portable HEPA filter) <ul style="list-style-type: none"> ○ EB02 • Small Hoppers - A series of small hoppers in the batch room for dispensing raw materials that can be added to the primary weigh hopper or blenders. <p>Batched raw materials are placed in 55-gallon drums and closed. The drums are spun axially to complete mixing and staged prior to being charged to the glass melting furnaces.</p>	
6.	Continuous or batch process? [if batch, maximum batches per hour]	batch

7. Raw material usage: [for EACH raw material used, enter]:

Material	Maximum design capacity (lbs/batch or lbs/hr)
Raw material composition varies significantly with glass styles. Additional information is provided with the emission calculations.	Each 55-gallon drum of mixed raw materials weighs approximately 200 pounds.

8. Production data: [for EACH product, enter]:

Product	Maximum design capacity (lbs/batch or lbs/hr)
55-gallon drums of glass making ingredients	Each 55-gallon drum of mixed raw materials weighs approximately 200 pounds.

9. Attach any additional information necessary to describe this process and its operating and usage parameters, both short-term and annual.
See emission calculations.



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Facility name: Bullseye Glass Company Permit Number: 26-3135-ST-1

1.	Device name and ID number or label	EU-Frit Room
2.	Date installation/construction commenced	2013 (current configuration)
3.	Date installed	2013 (current configuration)
4.	Special control requirements? [if yes, describe]	No
5.	Description of process: Frit room operations consist of the following equipment controlled by BH-FR <ul style="list-style-type: none"> • 2 jaw crushers • 2 roller mills • 1 future crusher Finished colored art glass manufactured at the facility or from outside suppliers is crushed into a frit or powder and packaged for sale.	
6.	Continuous or batch process? [if batch, maximum batches per hour]	Batch, crushers typically operate up to 16 hrs/day.

7. Raw material usage: [for EACH raw material used, enter]:

Material	Maximum design capacity (lbs/batch or lbs/hr)
Glass	Unknown. Crushers are custom made.

8. Production data: [for EACH product, enter]:

Product	Maximum design capacity (lbs/batch or lbs/hr)
Frit	Unknown. Crushers are custom made.

9. Attach any additional information necessary to describe this process and its operating and usage parameters, both short-term and annual.
See emission calculations.

Attachment C

Attachment C-1: Furnace Information

Item # from Form DV201>>		#1	#2 & 3	#4	#6	#7 & #8	#9	
Emission Unit	Group	Device ID #	Install Date	Special Control Requirements	Continuous or Batch	Maximum Design Capacity (lbs/batch)	Clear or "Colored" Glass	Uses Metal HAPs*
EU-6S Furnaces	1	T-8	pre-2007	No	Batch	600	Colored	HAP
		T-9	pre-2007	No	Batch	600	Colored	HAP
	2	T-1	pre-2007	No	Batch	850	Colored	HAP
		T-12	pre-2007	No	Batch	850	Colored	HAP
	3	T-3	pre-2007	No	Batch	950	Colored	HAP
		T-20	post-2007	No	Batch	950	Colored	HAP
	4	T-2	pre-2007	No	Batch	1,050	Colored	HAP
		T-5	pre-2007	No	Batch	1,050	Colored	HAP
		T-6	pre-2007	No	Batch	1,050	Colored	HAP
	5	T-4	pre-2007	No	Batch	1,550	Colored	HAP
		T-7	pre-2007	No	Batch	1,550	Colored	HAP
		T-11	pre-2007	No	Batch	1,550	Colored	HAP
		T-13	pre-2007	No	Batch	1,550	Colored	HAP
		T-14	pre-2007	No	Batch	1,550	Colored	HAP
EU-Furnaces		P-10	pre-2007	No	Batch	300	Colored	HAP
		P-17	pre-2007	No	Batch	300	Colored	HAP
		P-18	pre-2007	No	Batch	225	Colored	HAP
		T-21	post-2007	No	Batch	300	Colored	HAP
EU-Tekna		TEK-15	pre-2007	No	Batch	5,000	Clear	Not HAP
		TEK-16	pre-2007	No	Batch	5,000	Clear	Not HAP

*Metal HAPs subject to 40 CFR Part 63 Subpart SSSSSS

Item # From Form DV201 and Notes

- Device name and ID number or label (specific furnace IDs are provided for EU-6S Furnaces, EU-Furnaces and EU-Tekna)
 - EU-6S Furnaces are furnaces potentially subject to 40 CFR Part 63 Subpart SSSSSS. These furnaces are grouped by identical furnaces per 63.11459
 - EU-Furnaces are not used to produce glass containing one or more the glass manufacturing metal HAPs as raw material at a rate greater than 50 tpy and cannot be subject to NESHAP 6S
 - EU-Tekna are not used to produce glass containing one or more of the glass manufacturing metal HAPs as raw material and cannot be subject to NESHAP 6S
- Date installation/construction commenced
- Date Installed
- Special control requirements? (if yes, describe)
- Continuous or batch process? [if batch, maximum batches per hour]
 - A typical glass producing cycle consisting of loading raw materials into a furnace and refining the melt is 16 hours.
- Raw material usage: [for each raw material used, enter material and maximum design capacity (lbs/batch or lbs/hr)]
 - Raw material composition varies widely with different glass styles. Additional information is provided with emission calculations.
- Production data: [for each product, enter product and maximum design capacity (lbs/batch or lbs/hr)]
 - Production type varies widely with different glass styles. Additional information is provided with emission calculations.
- Attach any additional information necessary to describe this process and its operating and usage parameter, both short-term and annual.
 - Production type varies widely with different glass styles. Additional information is provided with emission calculations.



Pollution Control Device Form
Baghouse

FORM CD303
Answer Sheet

Facility name: Bullseye Glass Company

Permit Number: 26-3135-ST-01

1.	Name	Baghouse West	Batch Room Baghouse	Frit Room Baghouse	
2.	ID number or label	BHW-1,2,3*	BH-BR	BH-FR	
3.	Date installed	2016	2001	2013	
4.	Manufacturer	United Air Specialists	Torit	Torit	
5.	Model number	MIB-21-T19	DFT 4-16	DF02-8	
6.	Rated efficiency (%)	99+%	99+%	99+%	
7.	Cleaning mechanism	Pulse jet	Pulse jet	Pulse jet	
8.	Cleaning frequency	Pressure drop regulated	Pressure drop regulated	Pressure drop regulated	
9.	Design inlet gas flow rate (acfm)	11,000	9,000	1,680	
10.	Design air-to-cloth ratio	2.22	2.21	2.21	
11.	Number of bags	36	16 cartridges	4 cartridges	
12.	Design pressure drop (inches of water column)	~1-11	~6	~6	

*Baghouse west consists of three identical baghouse units and information is provided for each unit. The facility may operate one unit or two units in parallel with one unit as a redundant back-up.



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APPLICABLE REQUIREMENTS CHECKLIST

**FORM AR401
ANSWER SHEET**

Company name: Bullseye Glass Company

Permit Number: 26-3135-ST-01

**DIVISION 202
AMBIENT AIR QUALITY STANDARDS AND PSD INCREMENTS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
X		i	Ambient Air Quality Standards and PSD Increments		
			340-202-0050	■	Purpose and Scope of Ambient Air Quality Standards
			340-202-0060	■	Suspended Particulate Matter
			340-202-0070	■	Sulfur Dioxide
			340-202-0080	■	Carbon Monoxide
			340-202-0090	■	Ozone
			340-202-0100	■	Nitrogen Dioxide
			340-202-0110	■	Particle Fallout
			340-202-0130	■	Lead
X		i	Prevention of Significant Deterioration Increments		
			340-202-0200	■	General
			340-202-0210	■	Ambient Air PSD Increments
			340-202-0220	■	Ambient Air Ceilings

- (1) The abbreviations for non-applicability are as follows:
- a this pollutant is not emitted by the facility;
 - b the facility is not in this source category;
 - c the facility is not in the special control area;
 - d the facility is not in this county;
 - e the facility does not have this emissions unit;
 - f the facility does not use this fuel type;
 - g the rule does not apply because no changes have been made at the facility that would trigger these procedural requirements;
 - h this method/procedure is not used by the facility;
 - i this rule applies only to DEQ and regional authorities; and
 - j other (explain on Form AR402, Non-Applicable Requirements)
- (2)
- ◆ indicates that this rule contains a limit or standard that must be transferred to the appropriate Form EU500, Emissions Unit Summary;
 - indicates that this rule contains a limit or standard that must be transferred to the Form AR403, Facility-Wide Applicable Requirements;
 - ◆■ indicates that this rule contains a limit or standard that must be transferred to *both* Form AR403 and the appropriate Form EU500



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APPLICABLE REQUIREMENTS CHECKLIST

**DIVISION 206
AIR POLLUTION EMERGENCIES**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	c	340-206-0050	■	Source Emission Reduction Plans

**DIVISION 208
VISIBLE EMISSIONS AND NUISANCE REQUIREMENTS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
Visible Emissions					
X			340-208-0110	◆■	Visible Air Contaminant Limitations
Fugitive Emission Requirements					
X			340-208-0210	■	Requirements for Fugitive Emissions
Nuisance Control Requirements					
X			340-208-0300	■	Nuisance Prohibited (This rule is not federally enforceable)
	X	i	340-208-0310	■	Determining Whether A Nuisance Exists (This rule is not federally enforceable)
	X	g	340-208-0320	■	Best Work Practices Agreement (This rule is not federally enforceable)
X			340-208-0400	■	Masking of Emissions (This rule is not federally enforceable)
X			340-208-0450	■	Particle Fallout Limitation (This rule is not federally enforceable)
Clackamas, Columbia, Multnomah, and Washington Counties					
X			340-208-0510	◆	Exclusions (This rule is not federally enforceable)
X			340-208-0550	◆	Odor Control Measures (This rule is not federally enforceable)
X			340-208-0590	■	Emission Standards – General (This rule is not federally enforceable)
X			340-208-0610	◆	Particulate Matter Weight Standards (This rule is not federally enforceable)

**DIVISION 209
PUBLIC PARTICIPATION**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	i	340-209-0030	■	Public Notice Categories and Timing
	X	i	340-209-0040	■	Public Notice Information
	X	i	340-209-0050	■	Public Notice Procedures
	X	i	340-209-0060	■	Persons Required to be Notified
	X	i	340-209-0080	■	Issuance or Denial of a Permit

(1) Refer to the first page of AR401 for the list of reason codes.
(2) Refer to the first page of AR401 for the explanation of the symbols.



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**DIVISION 210
STATIONARY SOURCE NOTIFICATION REQUIREMENTS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
Registration					
	X	b	340-210-0120	■	Re-Registration and Maintaining Registration
Notice of Construction and Approval of Plans					
X			340-210-0215	■	Requirement
X			340-210-0225	■	Types of Construction/Modification Changes
X			340-210-0230	■	Notice to Construct
X			340-210-0240	■	Construction Approval
X			340-210-0250	■	Approval to Operate

**DIVISION 212
STATIONARY SOURCE TESTING AND MONITORING**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
Sampling, Testing, Measurement					
X			340-212-0120	■	Program
X			340-212-0130	◆	Stack Heights and Dispersion Techniques
X			340-212-0140	■	Methods
	X	i	340-212-0150	■	Department Testing
Compliance Assurance Monitoring					
	X	b	340-212-0210	◆	Monitoring Design Criteria
	X	b	340-212-0220	◆	Submittal Requirements
	X	b	340-212-0230	◆	Deadlines for Submittal
	X	b	340-212-0240	◆	Approval of Monitoring Plans
	X	b	340-212-0250	◆	Operation of Approved Monitoring
	X	b	340-212-0260	◆	Quality Improvement Plan (QIP) Requirements
	X	b	340-212-0270	◆	Reporting and Recordkeeping Requirements
	X	b	340-212-0280	◆	Savings Provisions

**DIVISION 214
STATIONARY SOURCE REPORTING REQUIREMENTS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
Reporting					
X			340-214-0110	■	Request for Information
X			340-214-0114	■	Records; Maintaining and Reporting
X			340-214-0120	■	Enforcement
X			340-214-0130	■	Information Exempt From Disclosure

(1) Refer to the first page of AR401 for the list of reason codes.
 (2) Refer to the first page of AR401 for the explanation of the symbols.



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APPLICABLE REQUIREMENTS CHECKLIST

Emission Statements for VOC and NO _x Sources					
	X	c	340-214-0210	■	Requirements
	X	c	340-214-0220	■	Submission of Emission Statement
Excess Emissions and Emergency Provision					
X			340-214-0310	■	Planned Startup and Shutdown
X			340-214-0320	■	Scheduled Maintenance
X			340-214-0330	■	All Other Excess Emissions
X			340-214-0340	■	Reporting Requirements
X			340-214-0350	■	Enforcement Action Criteria
X			340-214-0360	■	Emergency as an Affirmative Defense for Title V Permitted Sources

**DIVISION 216
AIR CONTAMINANT DISCHARGE PERMITS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
X			340-216-0020	■	Applicability
X			340-216-0025	■	Types of Permits
X			340-216-0040	■	Application Requirements
	X	b	340-216-0052	◆■	Construction ACDP
	X	b	340-216-0054	■	Short Term Activity ACDPs
	X	b	340-216-0056	■	Basic ACDPs
	X	b	340-216-0060	■	General Air Contaminant Discharge Permits
	X	b	340-216-0062	■	General ACDP Attachments
	X	b	340-216-0064	■	Simple ACDPs
X			340-216-0066	■	Standard ACDPs
	X	b	340-216-0068	■	Simple and Standard ACDP Attachments
	X	b	340-216-0070	■	Permitting Multiple Sources at a Single Adjacent or Contiguous Site
X			340-216-0082	■	Termination or Revocation of an ACDP
X			340-216-0084	■	Department Initiated Modification
X			340-216-0090	■	Sources Subject to ACDPs and Fees
	X	b	340-216-0094	■	Temporary Closure

**DIVISION 218
OREGON TITLE V OPERATING PERMITS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
X			340-218-0040	■	Permit Applications
X			340-218-0050	■	Standard Permit Requirements
	X	i	340-218-0060	■	State Enforceable Requirements
	X	i	340-218-0070	■	Federally Enforceable Requirements
X			340-218-0080	■	Compliance Requirements

- (1) Refer to the first page of AR401 for the list of reason codes.
 (2) Refer to the first page of AR401 for the explanation of the symbols.



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APPLICABLE REQUIREMENTS CHECKLIST

**FORM AR401
ANSWER SHEET**

	X	b	340-218-0090	■	General Permits
X	X	b	340-218-0100	■	Temporary Sources
			340-218-0110	■	Permit Shield
			340-218-0120	■	Permit Issuance
X			340-218-0130	■	Permit Renewal and Expiration
X			340-218-0140	■	Operational Flexibility
X			340-218-0150	■	Administrative Permit Amendments
X			340-218-0160	■	Permit Modification
X			340-218-0170	■	Minor Permit Modifications
X			340-218-0180	■	Significant Permit Modifications
X			340-218-0190	■	Construction/Operation Modifications
	X	i	340-218-0200	■	Reopenings
	X	i	340-218-0210	■	Public Participation
	X	i	340-218-0220	■	Contested Permits
	X	i	340-218-0230	■	Permit Review by the EPA and Affected States
	X	i	340-218-0240	■	Enforcement

**DIVISION 220
OREGON TITLE V OPERATING PERMIT FEES**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
X			340-220-0030	■	Annual Base Fee
X			340-220-0040	■	Emission Fee
X			340-220-0050	■	Specific Activity Fees
X			340-220-0060	■	Pollutants Subject to Emission Fees
X			340-220-0070	■	Exclusions
X			340-220-0080	■	References
X			340-220-0090	■	Election for Each Regulated Pollutant
X			340-220-0100	■	Emission Reporting
X			340-220-0110	■	Emission Reporting and Fee Procedures
X			340-220-0120	◆■	Actual Emissions
	X	b	340-220-0130	◆■	Determining Emissions From Continuous Monitoring Systems
X	X	b	340-220-0140	■	Determining Emissions Using Material Balance
	X	b	340-220-0150	■	Determining VOC Emissions Using Material Balance
	X	b	340-220-0160	■	Determining Sulfur Dioxide Emissions Using Material Balance
X			340-220-0170	◆	Verified Emission Factors
X			340-220-0180	■	Late and Underpayment of Fees
X			340-220-0190	■	Failure to Pay Fees

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APPLICABLE REQUIREMENTS CHECKLIST

**DIVISION 222
STATIONARY SOURCE PLANT SITE EMISSION LIMITS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
X			340-222-0035	◆■	General Requirements for Establishing All PSELS
X			340-222-0040	◆■	Generic Annual PSEL
X			340-222-0041	◆■	Source Specific Annual PSEL
	X	c	340-222-0042	◆■	Short Term PSEL
X			340-222-0046	◆■	Netting Basis
X			340-222-0048	◆■	Baseline Period and Baseline Emission Rate
X			340-222-0051	◆■	Actual Emissions
	X	b	340-222-0055	◆■	Unassigned Emissions
X			340-222-0060	◆■	Plant Site Emission Limits for Sources of Hazardous Air Pollutants
X			340-222-0080	◆■	Plant Site Emission Limit Compliance
	X	b	340-222-0090	◆■	Combining and Splitting Sources and Changing Primary SIC Code

**DIVISION 224
NEW SOURCE REVIEW**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	b	340-224-0025	■	Major Modifications
	X	b	340-224-0030	■	New Source Review Procedural Requirements
	X	b	340-224-0034	■	Exemptions
		b	340-224-0038	■	Fugitive and Secondary Emissions
	X	b	340-224-0040	■	Review of Sources Subject to Major NSR or Type A State NSR for Compliance With Regulations
Major New Source Review					
	X	b	340-224-0045	■	Requirements for Sources in Sustainment Areas
	X	b	340-224-0050	■	Requirements for Sources in Nonattainment Areas
	X	b	340-224-0055	■	Requirements for Sources in Reattainment Areas
			340-224-0060	■	Requirements for Sources in Maintenance Areas
	X	b	340-224-0070	■	Prevention of Significant Deterioration Requirements for Sources in Attainment or Unclassified Areas
State New Source Review					
	X	b	340-224-0245	■	Requirements for Sources in Sustainment Areas
	X	b	340-224-0250	■	Requirements for Sources in Nonattainment Areas
	X	b	340-224-0255	■	Requirements for Sources in Reattainment Areas
	X	b	340-224-0260	■	Requirements for Sources in Maintenance Areas
	X	b	340-224-0270	■	Requirement for Sources in Attainment and Unclassified Areas

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Net Air Quality Benefit Emission Offsets					
	X	b	340-224-0500	■	Net Air Quality Benefit for Sources Locating Within or Impacting Designated Areas
	X	b	340-224-0510	■	Common Offset Requirements
	X	b	340-224-0520	■	Requirements for Demonstrating Net Air Quality Benefit for Ozone Areas
	X	b	340-224-0530	■	Requirements for Demonstrating Net Air Quality Benefit for Non-Ozone Areas
	X	b	340-224-0540	■	Sources in a Designated Area Impacting Other Designated Areas

**DIVISION 225
AIR QUALITY ANALYSIS REQUIREMENTS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	b	340-225-0010	■	Purpose and Jurisdiction
	X	b	340-225-0030	■	Procedural Requirements
	X	b	340-225-0040	■	Air Quality Models
	X	b	340-225-0045	■	Requirements for Analysis in Maintenance Areas
	X	b	340-225-0050	■	Requirements for Analysis in PSD Class II and Class III Areas
	X	b	340-225-0060	■	Requirements for Demonstrating Compliance with Standards and Increments in PSD Class I Areas
	X	b	340-225-0070	■	Requirements for Demonstrating Compliance with Air Quality Related Values Protection

**DIVISION 226
GENERAL EMISSION STANDARDS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
Highest and Best Practicable Treatment and Control					
X			340-226-0110	◆	Pollution Prevention
X			340-226-0120	◆	Operating and Maintenance Requirements
X			340-226-0130	◆	Typically Achievable Control Technology (TACT)
X			340-226-0140	◆	Additional Control Requirements for Stationary Sources of Air Contaminants
Grain Loading Standards					
X			340-226-0210	◆	Particulate Emission Limitations for Sources Other Than Fuel Burning Equipment, Refuse Burning Equipment and Fugitive Emissions
Particulate Emissions from Process Equipment					
X			340-226-0310	◆	Emission Standard
X			340-226-0320	◆	Determination of Process Weight
Alternative Emission Controls					
	X	h	340-226-0400	◆	Alternative Emission Controls (Bubble)

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APPLICABLE REQUIREMENTS CHECKLIST

**DIVISION 228
REQUIREMENTS FOR FUEL BURNING EQUIPMENT AND FUEL SULFUR CONTENT**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
Sulfur Content of Fuels					
	X	f	340-228-0100	◆■	Residual Fuel Oils
	X	f	340-228-0110	◆■	Distillate Fuel Oils
	X	f	340-228-0120	◆■	Coal
	X	b	340-228-0130	◆■	Exemptions
General Emission Standards for Fuel Burning Equipment					
	X	e	340-228-0200	◆	Sulfur Dioxide Standards
X			340-228-0210	◆	Grain Loading Standards
Federal Acid Rain Program					
	X	b	340-228-0300	◆	Federal Regulations Adopted by Reference

**DIVISION 230
INCINERATOR REGULATIONS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	e	All Rules in Division 230		
			340-230-0010	◆	Purpose
Solid and Infectious Waste Incinerators					
			340-230-0100	◆	Best Available Control Technology (This rule is not federally enforceable)
			340-230-0110	◆	Emissions Limitations (This rule is not federally enforceable)
			340-230-0120	◆	Design and Operation (This rule is not federally enforceable)
			340-230-0130	◆	Continuous Emission Monitoring (This rule is not federally enforceable)
			340-230-0140	◆	Reporting and Testing (This rule is not federally enforceable)
			340-230-0150	◆	Compliance (This rule is not federally enforceable)
Crematory Incinerators					
			340-230-0200	◆	Emission Limitations (This rule is not federally enforceable)
			340-230-0210	◆	Design and Operation (This rule is not federally enforceable)
			340-230-0220	◆	Monitoring and Reporting (This rule is not federally enforceable)
			340-230-0230	◆	Compliance (This rule is not federally enforceable)
Municipal Waste Combustors					
			340-230-0310	◆	Emission Limitations
			340-230-0320	◆	Operating Practices
			340-230-0330	◆	Operator Training and Certification
			340-230-0335	◆	Standards for Municipal Waste Combustor Fugitive Ash Emissions
			340-230-0340	◆	Monitoring and Testing
			340-230-0350	◆	Recordkeeping and Reporting
			340-230-0359	◆	Compliance Schedule

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			340-230-0365	◆	Small Municipal Waste Combustion Unit
			340-230-0370	◆	Increments of Progress
			340-230-0373	◆	Operator Training
			340-230-0375	◆	Operator Certification
			340-230-0377	◆	Operating Requirements
			340-230-0380	◆	Emission Limits
			340-230-0383	◆	Continuous Emission Monitoring
			340-230-0385	◆	Stack Testing
			340-230-0387	◆	Other Monitoring Requirements
			340-230-0390	◆	Recordkeeping
			340-230-0395	◆	Reporting
			340-230-0415	◆	Adoption of Federal Plan by Reference
			340-230-0500	◆	Emission Standards for Commercial and Industrial Solid Waste Incineration Units

**DIVISION 232
EMISSION STANDARDS FOR VOC POINT SOURCES**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
			All Rules in Division 232		
	X	b	340-232-0040	◆	General Non-Categorical Requirements
	X	h	340-232-0050	◆	Exemptions
	X	b	340-232-0060	◆	Compliance Determination
	X	b	340-232-0080	◆	Bulk Gasoline Plants Including Transfer of Gasoline
	X	b	340-232-0085	◆	Gasoline Delivery Vessel(s)
	X	b	340-232-0090	◆	Bulk Gasoline Terminals Including Truck and Trailer Loading
	X	b	340-232-0100	◆	Testing Vapor Transfer and Collection Systems
	X	b	340-232-0110	◆	Loading Gasoline and Volatile Organic Liquids onto Marine Tank Vessels
	X	b	340-232-0120	◆	Cutback and Emulsified Asphalt
	X	b	340-232-0130	◆	Petroleum Refineries
	X	b	340-232-0140	◆	Petroleum Refinery Leaks
	X	b	340-232-0150	◆	VOC Liquid Storage
	X	b	340-232-0160	◆	Surface Coating in Manufacturing
	X	b	340-232-0170	◆	Aerospace Component Coating Operations
	X	b	340-232-0180	◆	Degreasers
	X	b	340-232-0190	◆	Open Top Vapor Degreasers
	X	b	340-232-0200	◆	Conveyorized Degreasers
	X	b	340-232-0210	◆	Asphaltic and Coal Tar Pitch Used for Roofing Coating
	X	b	340-232-0220	◆	Flat Wood Coating
	X	b	340-232-0230	◆	Rotogravure and Flexographic Printing

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**DIVISION 234
EMISSION STANDARDS FOR WOOD PRODUCTS INDUSTRY**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	b	All Rules in Division 234		
Wigwam Waste Burners					
			340-234-0100	■	Wigwam Waste Burners
			340-234-0140	■	Existing Administration Agency Orders
Kraft Pulp Mills					
			340-234-0210	◆	Emission Limitations
			340-234-0220	◆	More Restrictive Emission Limits
			340-234-0240	◆	Monitoring
			340-234-0250	◆	Reporting
			340-234-0270	■	Chronic Upset Conditions
Board Products Industries (Veneer, Plywood, Particleboard, Hardboard)					
			340-234-0500	■	Applicability and General Provisions
			340-234-0510	◆■	Veneer and Plywood Manufacturing Operations
			340-234-0520	■	Particleboard Manufacturing Operations
			340-234-0530	◆■	Hardboard Manufacturing Operations
			340-234-0540	◆■	Testing and Monitoring

**DIVISION 236
EMISSION STANDARDS FOR SPECIFIC INDUSTRIES**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	b	All Rules in Division 236		
Reduction of Animal Matter					
			340-236-0310	◆■	Control Facilities Required
			340-236-0320	◆■	Monitoring of Reduction Facilities
			340-236-0330	■	Housekeeping of Plant and Plant Area
Hot Mix Asphalt Plants					
			340-236-0410	◆	Control Facilities Required
			340-236-0420	◆	Other Established Air Quality Limitations
			340-236-0440	■	Ancillary Sources of Emission - Housekeeping of Plant Facilities
Solid Waste Landfills					
			340-236-0500	◆	Emissions Guidelines for Municipal Solid Waste Landfills.

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**DIVISION 238
NEW SOURCE PERFORMANCE STANDARDS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	b	340-238-0060	◆	Federal Regulations Adopted by Reference (Specific Subparts of 40 CFR Part 60)
	X	b	340-238-0070	◆	Compliance
	X	e	340-238-0080	◆	More Restrictive Regulations
	X	i	340-238-0090	◆	Delegation
	X	e	340-238-0100	◆	Municipal Solid Waste Landfills (40 CFR Part 60, Subpart WWS)

**DIVISION 240
RULES FOR AREAS WITH UNIQUE AIR QUALITY NEEDS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	d	All Rules in Division 240		
			340-240-0020	◆	Emission Limitations
			340-240-0050	◆	Compliance Testing Requirements
The Medford-Ashland Air Quality Maintenance Area and the Grants Pass Urban Growth Area					
			340-240-0110	◆	Wood Waste Boilers
			340-240-0120	◆	Veneer Dryer Emission Limitations
			340-240-0130	◆	Air Conveying Systems (Medford-Ashland AQMA Only)
			340-240-0140	◆	Wood Particle Dryers at Particleboard Plants
			340-240-0150	■	Hardboard Manufacturing Plants
			340-240-0160	■	Wigwam Waste Burners
			340-240-0180	■	Control of Fugitive Emissions (Medford-Ashland AQMA Only)
			340-240-0190	■	Requirement for Operation and Maintenance Plans (Medford-Ashland AQMA Only)
			340-240-0210	◆	Continuous Monitoring
			340-240-0220	◆	Source Testing
			340-240-0250	■	Open Burning
La Grande Urban Growth Area					
			340-240-0320	◆	Wood-Waste Boilers
			340-240-0330	◆	Wood Particle Dryers at Particleboard Plants
			340-240-0340	■	Hardboard Manufacturing Plants
			340-240-0350	◆	Air Conveying Systems
			340-240-0360	■	Fugitive Emissions
The Lakeview Urban Growth Area					
			340-240-0410	■	Control of Fugitive Emissions
			340-240-0420	■	Requirement for Operation and Maintenance Plans
			340-240-0430	◆	Source Testing
			340-240-0440	■	Open Burning

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Klamath Falls Nonattainment Area				
		340-240-0510	■	Opacity Standard
		340-240-0550	■	Requirements for New Sources When Using Residential Wood Fuel-Fired Device Offsets
		340-240-0560	■	Real and Permanent PM _{2.5} and PM ₁₀ Offsets
Klamath Falls Nonattainment Area Contingency Measures				
		340-240-0610	■	Continuous Monitoring for Industrial Sources

**DIVISION 242
RULES APPLICABLE TO THE PORTLAND AREA**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	b	All Rules in Division 242		
Employee Commute Options Program					
X			340-242-0070	■	What are the major Requirements of ECO?
X			340-242-0080	■	What are the Registration Requirements?
X			340-242-0090	■	What are the Requirements for an Employee Survey?
X			340-242-0110	■	What if an Employer Does Not Meet the Target Auto Trip Rate?
X			340-242-0120	■	How Will Employers Demonstrate Progress Toward the Target Auto Trip Rate?
X			340-242-0140	■	How Should Employers Account for Changes in Work Force Size?
X			340-242-0150	■	How Can an Employer Reduce Auto Commute Trips to a Work Site?
X			340-242-0160	■	What Should be Included in an Auto Trip Reduction Plan?
	X	i	340-242-0170	■	When Will the Department Act on a Submitted Auto Trip Reduction Plan?
X			340-242-0180	■	What is a Good Faith Effort?
	X	b	340-242-0190	■	How Does the ECO Program Affect New Employers, Expanding Employers and Employers Relocating within the Portland AQMA?
	X	b	340-242-0200	■	Can a New or Relocating Employer Comply with ECO Through Restricted Parking Ratios?
	X	b	340-242-0210	■	Can an Existing Employer Comply with ECO through Restricted Parking Ratios?
	X	b	340-242-0220	■	What if an Employer Has More Than One Work Site within the Portland AQMA?
	X	b	340-242-0230	■	Can Employers Submit a Joint Plan?
X			340-242-0240	■	Are There Alternatives to Trip Reduction?
X			340-242-0250	■	What Alternatives Qualify as Equivalent Emission Reductions?
	X	b	340-242-0260	■	Can Employers Get Credit for Existing Trip Reduction Programs?
	X	b	340-242-0270	■	Are Exemptions Allowed if an Employer is Unable to Reduce Trips or Take Advantage of Alternate Compliance Options?
	X	b	340-242-0280	■	Participation in the Industrial Emission Management Program

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**FORM AR401
ANSWER SHEET**

X			340-242-0290	■	What Kind of Records Must be Kept and for How Long?
Voluntary Maximum Parking Ratio Program					
	X, b		340-242-0330	■	How Does a Property Owner Comply with the Voluntary Parking Ratio Program?
	X, b		340-242-0340	■	What are the Incentives for Complying with the Voluntary Parking Ratio Program?
	X, b		340-242-0350	■	Why Do I Need a Parking Ratio Permit?
	X, b		340-242-0360	■	What is Required to Obtain a Parking Ratio Permit?
	X, b		340-242-0390	■	What are the Applicable Parking Ratios?
Industrial Emission Management Program					
	X, b		340-242-0420	■	Unused PSEL Donation Program
	X, b		340-242-0430	■	Industrial Growth Allowances
	X, b		340-242-0440	■	Industrial Growth Allowance Allocation
Gasoline Vapors from Gasoline Transfer and Dispensing Operations					
	X	e	340-242-0520	◆	General Provisions (This rule is not federally enforceable.)
Motor Vehicle Refinishing					
	X	b	340-242-0620	◆	Requirements for Motor Vehicle Refinishing in Portland AQMA
	X	b	340-242-0630	◆	Inspecting and Testing Requirements

**DIVISION 244
OREGON FEDERAL HAZARDOUS AIR POLLUTANT PROGRAM**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
All Rules in Division 244					
General Provisions for Stationary Sources					
X			340-244-0040	■	List of Hazardous Air Pollutants
Compliance Extensions for Early Reductions					
	X	b	340-244-0200	◆	Emission Limitations for New and Reconstructed Major Sources
Emission Standards					
X			340-244-0210	◆	Emission Limitations for Existing Sources
X			340-244-0220	◆	Federal Regulations Adopted by Reference
Emission Standards for Gasoline Dispensing Facilities					
	X	b	340-244-0232	■	Purpose
	X	b	340-244-0234	■	Affected Sources
	X	b	340-244-0236	■	Affected Equipment or Processes
	X	b	340-244-0238	■	Compliance Dates
Emission Limitations and Management Practices					
	X	b	340-244-0239	■	General Duties to Minimize Emissions
	X	b	340-244-0240	■	Work Practice and Submerged Fill Requirements
	X	b	340-244-0242	■	Vapor Balance Requirements
Testing and Monitoring Requirements					
	X	b	340-244-0244	■	Testing and Monitoring Requirements

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Notifications, Records, and Reports				
	X	b	340-244-0246	■ Notifications
	X	b	340-244-0248	■ Recordkeeping and requirements
	X	b	340-244-0250	■ Reporting Requirements

**DIVISION 248
ASBESTOS REQUIREMENTS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
All Rules in Division 248					
Asbestos Licensing and Certification Requirements					
	X	b	340-248-0110	◆	General Provisions
	X	b	340-248-0120	■	Contractor Licensing
	X	b	340-248-0130	■	Certification
	X	b	340-248-0140	■	Training Provider Accreditation
	X	b	340-248-0150	■	General Training Standards
	X	b	340-248-0160	■	Prior Training
	X	b	340-248-0170	■	Reciprocity
	X	b	340-248-0180	■	Fees
Asbestos Emission Standards and Procedural Requirements					
	X	b	340-248-0210	■	Asbestos Requirements for Mills, Roadways and Parking lots, and Manufacturing Operations
	X	b	340-248-0220	■	Reporting Requirements for Sources Using Air Cleaning Devices
	X	b	340-248-0230	■	Asbestos to Nonasbestos Conversion Operations
X			340-248-0240	■	Asbestos Inspection Requirements for Oregon Title V Operating Permit Program Sources
X			340-248-0250	■	Asbestos Abatement Projects
X			340-248-0260	■	Asbestos Abatement Notification Requirements
X			340-248-0270	■	Asbestos Abatement Work Practices and Procedures
X			340-248-0275	■	Asbestos Standards for Air Cleaning, Spraying, Molded Insulation, and Fabricating
X			340-248-0280	■	Friable Asbestos Disposal Requirements
X			340-248-0290	■	Nonfriable Asbestos Disposal Requirements

**DIVISION 256
MOTOR VEHICLES**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	b	All Rules in Division 256		
Visible Emissions					
			340-256-0110	◆	Visible Emissions-Special Requirements for Excluded Motor Vehicles
			340-256-0120	◆	Uncombined Water-Water Vapor

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			340-256-0130	◆	Motor Vehicle Fleet Operation
			340-256-0150	◆	Method of Measurement
			340-256-0160	◆	Alternative Methods of Measuring Visible Emissions
Certification of Pollution Control Systems					
			340-256-0210	■	Criteria for Certification of Motor Vehicle Pollution Control Systems
Emissions Control System Inspection					
			340-256-0310	◆	Government-Owned Vehicle, Permanent Fleet Vehicle and United States Government Vehicle Testing Requirements
			340-256-0320	◆	Motor Vehicle Inspection Program Fee Schedule
			340-256-0340	◆	Light Duty Motor Vehicle and Heavy Duty Gasoline Motor Vehicle Emissions Control Test Method for Basic Program
			340-256-0350	◆	Light Duty Motor Vehicle Emission Control Test Method for Enhanced Program
			340-256-0360	◆	Motorcycle Noise Emission Control Test Method
			340-256-0370	◆	Renewal of Registration for Light Duty Motor Vehicles and Heavy Duty Gasoline Motor Vehicles Temporarily Operating Outside of Oregon
			340-256-0380	◆	Light Duty Motor Vehicle Emission Control Test Criteria for Basic Program
			340-256-0390	◆	Heavy Duty Gasoline Motor Vehicle Emission Control Test Criteria
			340-256-0400	◆	Light Duty Motor Vehicle Emission Control Standards for Basic Program
			340-256-0410	◆	Light Duty Motor Vehicle Emission Control Standards for Enhanced Program
			340-256-0420	◆	Heavy Duty Gasoline Motor Vehicle Emission Control Standards
			340-256-0430	◆	Motor Vehicle Propulsion Exhaust Noise Standards
			340-256-0440	■	Criteria for Qualifications of Persons Eligible to Inspect Motor Vehicles and Motor Vehicle Pollution Control Systems and Execute Certificates
			340-256-0450	■	Gas Analytical System Licensing Criteria for Basic Program
			340-256-0460	■	Gas Analytical System Licensing Criteria for Enhanced Program
			340-256-0470	■	Agreement With Independent Contractor; Qualifications of Contractor; Agreement Provisions

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**DIVISION 258
MOTORVEHICLE FUELSPECIFICATIONS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	b	All Rules in Division 258		
Oxygenated Gasoline					
			340-258-0110	■	Purpose and General Requirements
			340-258-0120	■	Sampling and Testing for Oxygen Content
			340-258-0130	■	Compliance Options
			340-258-0140	■	Per Gallon Oxygen Content Standard
			340-258-0150	■	Average Oxygen Content Standard
			340-258-0160	■	Minimum Oxygen Content
			340-258-0170	■	Oxygenated Gasoline Blending
			340-258-0180	■	Registration
			340-258-0190	■	CAR, Distributor and Retail Outlet Operating Permits
			340-258-0210	■	Recordkeeping
			340-258-0220	■	Reporting
			340-258-0230	■	Prohibited Activities
			340-258-0240	■	Inspection and Sampling
			340-258-0250	■	Liability for Violation of a Prohibited Activity
			340-258-0260	■	Defenses for Prohibited Activities
			340-258-0270	■	Inability to Produce Conforming Gasoline Due to Extraordinary Circumstances
			340-258-0280	■	Quality Assurance Program
			340-258-0290	■	Attest Engagement Guidelines When Prohibited Activities Alleged
			340-258-0300	■	Dispenser Labeling
			340-258-0310	■	Contingency Provision for Carbon Monoxide in Nonattainment Areas
Standard for Automotive Gasoline ■					
			340-258-0400	■	Reid Vapor Pressure for Gasoline

**DIVISION 260
REFRIGERANT RECYCLING AND OZONE DEPLETING SUBSTANCE REQUIREMENTS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
			All Rules in Division 260		
Refrigerant Recycling					
	X	b	340-260-0030	■	Requirements for Recycling Automotive Air Conditioning Coolant
Ozone Depleting Substance Requirements					
X			340-260-0040	■	Federal Regulations Adopted by Reference (40 CFR Part 82)

- (1) Refer to the first page of AR401 for the list of reason codes.
- (2) Refer to the first page of AR401 for the explanation of the symbols.



State of Oregon
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APPLICABLE REQUIREMENTS CHECKLIST

**DIVISION 264
RULES FOR OPEN BURNING**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
All Rules in Division 264					
General Provisions					
x			340-264-0010	■	How to Use These Open Burning Rules
x			340-264-0040	■	Exemptions, Statewide
x			340-264-0050	■	General Requirements Statewide
x			340-264-0060	■	General Prohibitions Statewide
x			340-264-0070	■	Open Burning Schedule
x			340-264-0078	■	Open Burning Control Areas
x			340-264-0080	■	County Listing of Septic Open Burning Rules
Open Burning Requirements					
	X	d	340-264-0100	■	Baker, Clatsop, Crook, Curry, Deschutes, Gilliam, Grant, Harney, Hood River, Jefferson, Klamath, Lake, Lincoln, Malheur, Morrow, Sherman, Tillamook, Umatilla, Union, Wallowa, Wasco and Wheeler Counties
	X	d	340-264-0110	■	Benton, Linn, Marion, Polk, and Yamhill Counties
	X	d	340-264-0120	■	Clackamas County
x			340-264-0130	■	Multnomah County
	X	d	340-264-0140	■	Washington County
	X	d	340-264-0150	■	Columbia County
	X	d	340-264-0160	■	Lane County
	X	d	340-264-0170	■	Coos, Douglas, Jackson and Josephine Counties
	X	d	340-264-0175	■	Klamath County
			340-264-0180	■	Letter Permits

**DIVISION 268
EMISSION REDUCTION CREDITS**

Applicability		Reason(1)	Rule number	(2)	Rule Description
Yes	No				
	X	h	340-268-0030	■	Emission Reduction Credits

(1) Refer to the first page of AR401 for the list of reason codes.
 (2) Refer to the first page of AR401 for the explanation of the symbols.



State of Oregon
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Environmental
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Applicable Requirements Checklist Attachment

DIVISION 238
NEW SOURCE PERFORMANCE STANDARDS
(40 CFR part 60)

Applicability		Adopted By DEQ	Subpart	Rule Description
Yes	No			
		Yes	D	Fossil-fuel-fired steam generators for which construction is commenced after August 17, 1971
		Yes	Da	Electric utility steam generating units for which construction is commenced after September 18, 1978
		Yes	Db	Industrial-commercial-institutional steam generating units
		Yes	Dc	Small industrial-commercial-institutional steam generating units
		Yes	E	Incinerators
		Yes	Ea	Municipal waste combustors for which construction is commenced after December 20, 1989 and on or before September 20, 1994
		Yes	Eb	Municipal waste combustors for which construction is commenced after September 20, 1994
		Yes	Ec	Hospital/Medical/Infectious waste incinerators that commenced construction after June 20, 1996, or for which modification is commenced after March 16, 1998
		Yes	F	Portland cement plants
		Yes	G	Nitric acid plants
		Yes	H	Sulfuric acid plants
		Yes	I	Hot mix asphalt facilities
		Yes	J	Petroleum refineries
		No	Ja	Petroleum refineries for which construction, reconstruction, or modification commenced after May 14, 2007
		Yes	K	Storage vessels for petroleum liquids for which construction, reconstruction, or modification commenced after June 11, 1973, and before May 19, 1978
		Yes	Ka	Storage vessels for petroleum liquids for which construction, reconstruction, or modification commenced after May 18, 1978, and before July 23, 1984
		Yes	Kb	Volatile organic liquid storage vessels (including petroleum liquid storage vessels) for which construction, reconstruction, or modification commenced after July 23, 1984
		Yes	L	Secondary lead smelters
		Yes	M	Secondary brass and bronze production plants
		Yes	N	Primary emissions from basic oxygen process furnaces for which construction is commenced after June 11, 1973
		Yes	Na	Secondary emissions from basic oxygen process steelmaking facilities for which construction is commenced after January 20, 1983
		Yes	O	Sewage treatment plants
		Yes	P	Primary copper smelters
		Yes	Q	Primary zinc smelters
		Yes	R	Primary lead smelters
		Yes	S	Primary aluminum reduction plants
		Yes	T	Phosphate fertilizer industry: wet-process phosphoric acid plants
		Yes	U	Phosphate fertilizer industry: superphosphoric acid plants
		Yes	V	Phosphate fertilizer industry: diammonium phosphate plants



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Applicable Requirements Checklist Attachment

Applicability		Adopted	Subpart	Rule Description
Yes	No	By DEQ		
		Yes	W	Phosphate fertilizer industry: triple superphosphate plants
		Yes	X	Phosphate fertilizer industry: granular triple superphosphate storage facilities
		Yes	Y	Coal preparation and processing plants
		Yes	Z	Ferroalloy production facilities
		Yes	AA	Steel plants: electric arc furnaces constructed after October 21, 1974 and on or before August 17, 1983
		Yes	AAa	Steel plants: electric arc furnaces and argon-oxygen decarburization vessels constructed after August 7, 1983
		Yes	BB	Kraft pulp mills
		Yes	CC	Glass manufacturing plants
		Yes	DD	Grain elevators
		Yes	EE	Surface coating of metal furniture
		Yes	GG	Stationary gas turbines
		Yes	HH	Lime manufacturing plants
		Yes	KK	Lead-acid battery manufacturing plants
		Yes	LL	Metallic mineral processing plants
		Yes	MM	Automobile and light-duty truck surface coating operations
		Yes	NN	Phosphate rock plants
		Yes	PP	Ammonium sulfate manufacture
		Yes	QQ	Graphic arts industry: publication rotogravure printing
		Yes	RR	Pressure sensitive tape and label surface coating operations
		Yes	SS	Industrial surface coating: large appliances
		Yes	TT	Metal coil surface coating
		Yes	UU	Asphalt processing and asphalt roofing manufacture
		Yes	VV	Equipment leaks of VOC in the synthetic organic chemicals manufacturing industry for which construction, reconstruction, or modification commenced after January 5, 1981, and on or before November 7, 2006
		Yes	VVa	Equipment leaks of VOC in the synthetic organic chemicals manufacturing industry for which construction, reconstruction, or modification commenced after November 7, 2006
		Yes	WW	Beverage can surface coating industry
		Yes	XX	Bulk gasoline terminals
		Yes	BBB	Rubber tire manufacturing industry
		Yes	DDD	Volatile organic compound (VOC) emissions for the polymer manufacture industry
		Yes	FFF	Flexible vinyl and urethane coating and printing
		Yes	GGG	Equipment leaks of VOC in petroleum refineries for which construction, reconstruction, or modification commenced after January 4, 1983, and on or before November 7, 2006
		Yes	GGGa	Equipment leaks of VOC in petroleum refineries for which construction, reconstruction, or modification commenced after November 7, 2006
		Yes	HHH	Synthetic fiber production facilities
		Yes	III	Volatile organic compound (VOC) emissions from the synthetic organic chemical manufacturing industry (SOCMI) air oxidation unit processes
		Yes	JJJ	Petroleum dry cleaners



Applicable Requirements Checklist Attachment

**FORM AR401A
Answer Sheet**

Applicability		Adopted By DEQ	Subpart	Rule Description
Yes	No			
		Yes	KKK	Equipment leaks of VOC from onshore natural gas processing plants
		Yes	LLL	Onshore natural gas processing: SO2 emissions
		Yes	NNN	Volatile organic compound (VOC) emissions from synthetic organic chemical manufacturing industry (SOCMI) distillation operations
		Yes	OOO	Nonmetallic mineral processing plants
		Yes	PPP	Wool fiberglass insulation manufacturing plants
		Yes	QQQ	VOC emissions from petroleum refinery wastewater systems
		Yes	RRR	Volatile organic compound emissions from synthetic organic chemical manufacturing industry (SOCMI) reactor processes
		Yes	SSS	Magnetic tape coating facilities
		Yes	TTT	Industrial surface coating: surface coating of plastic parts for business machines
		Yes	UUU	Calciners and dryers in mineral industries
		Yes	VVV	Polymeric coating of supporting substrates facilities
		Yes	WWW	Municipal solid waste landfills, as clarified by OAR 340-238-0100
		Yes	AAAA	Small municipal waste combustion units for which construction is commenced after August 30, 1999 or for which modification or reconstruction is commenced after June 6, 2001
		Yes	CCCC	Commercial and industrial solid waste incineration units for which construction is commenced after November 30, 1999 or for which modification or reconstruction is commenced on or after June 1, 2001
		Yes	EEEE	Other solid waste incineration units for which construction is commenced after December 9, 2004, or for which modification or reconstruction is commenced on or after June 16, 2006
		No	III	Stationary compression ignition internal combustion engines
		No	JJJ	Stationary spark ignition internal combustion engines
		Yes	KKKK	Stationary combustion turbines
		No	LLLL	New sewage sludge incineration units

**DIVISION 244
FEDERAL HAZARDOUS AIR POLLUTANT STANDARDS
(40 CFR part 61)**

Applicability		Adopted By DEQ	Subpart	Rule Description
Yes	No			
		Yes	A	General provisions
		No	B	Radon emissions from underground uranium mines
		Yes	C	Beryllium
		Yes	D	Beryllium rocket motor firing
		Yes	E	Mercury
		Yes	F	Vinyl chloride
		No	H	Emissions of radionuclides other than radon from Department of Energy facilities
		No	I	Radionuclide emissions from federal facilities other than Nuclear Regulatory Commission licensees and not covered by subpart H
		Yes	J	Equipment leaks (fugitive emission sources) of benzene



Applicable Requirements Checklist Attachment

Applicability		Adopted	Subpart	Rule Description
Yes	No	By DEQ		
		No	K	Radionuclide emissions from elemental phosphorus plants
		Yes	L	Benzene emissions from coke by-product recovery plants
		Yes	N	Inorganic arsenic emissions from glass manufacturing plants
		Yes	O	Inorganic arsenic emissions from primary copper smelters
		Yes	P	Inorganic arsenic emissions from arsenic trioxide and metal arsenic facilities
		No	Q	Radon emissions from Department of Energy facilities
		No	R	Radon emissions from phosphogypsum stacks
		No	T	Radon emissions from the disposal of uranium mill tailings
		Yes	V	Equipment leaks (fugitive emission sources)
		No	W	Radon emissions from operating mill tailings
		Yes	Y	Benzene emissions from benzene storage vessels
		Yes	BB	Benzene emissions from benzene transfer operations
		Yes	FF	Benzene waste operations

**DIVISION 244
FEDERAL HAZARDOUS AIR POLLUTANT STANDARDS
(40 CFR part 63)**

Applicability		Adopted	Subpart	Rule Description
Yes	No	By DEQ		
		Yes	A	General Provisions
		Yes	F	Synthetic organic chemical manufacturing industry
		Yes	G	Synthetic organic chemical manufacturing industry: process vents, storage vessels, transfer operations, and wastewater
		Yes	H	Synthetic organic chemical manufacturing industry: equipment leaks
		Yes	I	Certain processes subject to the negotiated regulation for equipment leaks
		Yes	J	Polyvinyl chloride and copolymers production
		Yes	L	Coke oven batteries
		Yes	M	Perchloroethylene air emission standards for dry cleaning facilities
		Yes	N	Chromium emissions from hard and decorative chromium electroplating and chromium anodizing tanks
		Yes	O	Ethylene oxide emissions standards for sterilization facilities
		Yes	Q	Industrial process cooling towers
		Yes	R	Gasoline distribution (bulk gasoline terminals and pipeline breakout stations)
		Yes	S	Pulp and paper industry
		Yes	T	Halogenated solvent cleaning
		Yes	U	Group I polymers and resins
		Yes	W	Epoxy resins and non-nylon polyamides production
		Yes	X	Secondary lead smelting
		Yes	Y	Marine tank vessel loading operations
		Yes	AA	Phosphoric acid manufacturing plants
		Yes	BB	Phosphate fertilizer production plants
		Yes	CC	Petroleum refineries



State of Oregon
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Applicable Requirements Checklist Attachment

Applicability		Adopted By DEQ	Subpart	Rule Description
Yes	No			
		Yes	DD	Off-site waste and recovery operations
		Yes	EE	Magnetic tape manufacturing operations
		Yes	GG	Aerospace manufacturing and rework facilities
		Yes	HH	Oil and natural gas production facilities
		Yes	II	Shipbuilding and ship repair (surface coating)
		Yes	JJ	Wood furniture manufacturing operations
		Yes	KK	Printing and publishing industry
		Yes	LL	Primary aluminum reduction plants
		Yes	MM	Chemical recovery combustion sources at kraft, soda, sulfite and stand-alone semi-chemical pulp mills
		Yes	OO	Tanks: Level 1
		Yes	PP	Containers
		Yes	QQ	Surface impoundments
		Yes	RR	Individual drain systems
		Yes	SS	Closed vent systems, control devices, recovery devices and routing to a fuel gas system or a process
		Yes	TT	Equipment leaks: control level 1
		Yes	UU	Equipment leaks: control level 2
		Yes	VV	Oil-water separators and organic-water separators
		Yes	WW	Storage vessels (tanks): control level 2
		Yes	XX	Ethylene manufacturing process units: heat exchange systems and waste operations
		Yes	YY	Generic maximum achievable control technology standards
		Yes	CCC	Steel pickling: HCl process facilities and hydrochloric acid regeneration plants
		Yes	DDD	Mineral wool production
		Yes	EEE	Hazardous waste combustors
		Yes	GGG	Pharmaceuticals production
		Yes	HHH	Natural gas transmission and storage facilities
		Yes	III	Flexible polyurethane foam production
		Yes	JJJ	Group IV polymers and resins
		Yes	LLL	Portland cement manufacturing industry
		Yes	MMM	Pesticide active ingredient production
		Yes	NNN	Wool fiberglass manufacturing
		Yes	OOO	Manufacture of amino/phenolic resins
		Yes	PPP	Polyether polyols production
		Yes	QQQ	Primary copper smelting
		Yes	RRR	Secondary aluminum production
		Yes	TTT	Primary lead smelting
		Yes	UUU	Petroleum refineries: catalytic cracking units, catalytic reforming units, and sulfur recovery units
		Yes	VVV	Publicly owned treatment works
		Yes	XXX	Ferroalloys production: ferromanganese and silicomanganese
		Yes	AAAA	Municipal solid waste landfills
		Yes	CCCC	Manufacturing of nutritional yeast
		Yes	DDDD	Plywood and composite wood products
		Yes	EEEE	Organic liquids distribution (non-gasoline)
		Yes	FFFF	Miscellaneous organic chemical manufacturing



Applicable Requirements Checklist Attachment

**FORM AR401A
Answer Sheet**

Applicability		Adopted By DEQ	Subpart	Rule Description
Yes	No			
		Yes	GGGG	Solvent extraction for vegetable oil production
		Yes	HHHH	Wet formed fiberglass mat production
		Yes	IIII	Surface coating of automobiles and light-duty trucks
		Yes	JJJJ	Paper and other web coating
		Yes	KKKK	Surface coating of metal cans
		Yes	MMMM	Surface coating of miscellaneous metal parts and products
		Yes	NNNN	Surface coating of large appliances
		Yes	OOOO	Printing, coating, and dyeing of fabrics and other textiles
		Yes	PPPP	Surface coating of plastic parts and products
		Yes	QQQQ	Surface coating of wood building products
		Yes	RRRR	Surface coating of metal furniture
		Yes	SSSS	Surface coating of metal coil
		Yes	TTTT	Leather finishing operations
		Yes	UUUU	Cellulose production manufacturing
		Yes	VVVV	Boat manufacturing
		Yes	WWWW	Reinforced plastics composites production
		Yes	XXXX	Rubber tire manufacturing
		Yes	YYYY	Stationary combustion turbines
		No	ZZZZ	Stationary reciprocating internal combustion engines
		Yes	AAAAA	Lime manufacturing
		Yes	BBBBB	Semiconductor manufacturing
		Yes	CCCCC	Coke ovens: pushing, quenching & battery stacks
		No	DDDDD	Industrial, combustion and industrial boilers and process heaters
		Yes	EEEEE	Iron and steel foundries
		Yes	FFFFF	Integrated iron and steel manufacturing facilities
		Yes	GGGGG	Site remediation
		Yes	HHHHH	Misc. coating manufacturing
		Yes	IIIII	Mercury cell chlor-alkali plants
		Yes	JJJJJ	Brick and structural clay products manufacturing
		Yes	KKKKK	Clay ceramics manufacturing
		Yes	LLLLL	Asphalt processing & asphalt roofing manufacturing
		Yes	MMMMM	Flexible polyurethane foam fabrication operations
		Yes	NNNNN	Hydrochloric acid production
		Yes	PPPPP	Engine tests cells/stands
		Yes	QQQQQ	Friction materials manufacturing facilities
		Yes	RRRRR	Taconite iron ore processing
		Yes	SSSSS	Refractory products manufacturing
		Yes	TTTTT	Primary magnesium refining
		Yes	WWWWW	Area sources: hospital ethylene oxide sterilization
		Yes	YYYYY	Area sources: electric arc furnace steelmaking facilities
		Yes	ZZZZZ	Area sources: iron and steel foundries
		Yes	BBBBBB	Area sources: gasoline distribution bulk terminals, bulk plants, and pipeline facilities
		Yes	DDDDDD	Area sources: polyvinyl chloride and copolymers production
		Yes	EEEEEE	Area sources: primary copper smelting
		Yes	FFFFFFF	Area sources: secondary copper smelting
		Yes	GGGGGG	Area sources: primary nonferrous metals, zinc, cadmium, and beryllium



Applicable Requirements Checklist Attachment

**FORM AR401A
Answer Sheet**

Applicability		Adopted By DEQ	Subpart	Rule Description
Yes	No			
		Yes	HHHHHH	Area sources: paint stripping and miscellaneous surface coating operations
		No	JJJJJJ	Area sources: industrial, commercial and institutional boilers
		Yes	LLLLLL	Area sources: acrylic and modacrylic fibers production
		Yes	MMMMMM	Area sources: carbon black production
		Yes	NNNNNN	Area sources: chemical manufacturing: chromium compounds
		Yes	OOOOOO	Area sources: flexible polyurethane foam production
		Yes	PPPPPP	Area sources: lead acid battery manufacturing
		Yes	QQQQQQ	Area sources: wood preserving
		Yes	RRRRRR	Area sources: clay ceramics manufacturing
		Yes	SSSSSS	Area sources: glass manufacturing
		Yes	TTTTTT	Area sources: secondary nonferrous metals processing
		Yes	VVVVVV	Area sources: chemical manufacturing
		Yes	WWWWWW	Area sources: plating and polishing operations
		Yes	XXXXXX	Area sources: nine metal fabrication and finishing source categories
		Yes	YYYYYY	Area sources: ferroalloys production facilities
		Yes	ZZZZZZ	Area sources: aluminum, copper, and other nonferrous foundries
		Yes	AAAAAAA	Area sources: asphalt processing and asphalt roofing manufacturing
		Yes	BBBBBBB	Area sources: chemical preparations industry
		Yes	CCCCCCC	Area sources: paints and allied products manufacturing
		Yes	DDDDDDD	Area sources: prepared feeds manufacturing
		No	EEEEEEE	Area sources: gold mine ore processing and production

Note: ODEQ has determined that 40 CFR Part 63 Subpart SSSSSS applies to the facility.



Oregon Department of Environmental Quality

FACILITY-WIDE APPLICABLE REQUIREMENTS

Facility name: Bullseye Glass Company Permit Number: 26-3135-ST-01

Facility-wide Applicable Requirements

Applicable Requirement Citation	Parameter/Pollutant	Limit/Standard/Requirement	Currently in Compliance?	Current Monitoring Method	Proposed Monitoring Method
340-208-0660 ACDP-1.5	Odors	No nuisance	Yes	Recordkeeping	Recordkeeping
340-208-0670 ACDP-1.4	PM>250 micron	No fallout	Yes	Recordkeeping	Recordkeeping
340-208-0210(2) ACDP-1.3	Fugitive visible emissions	Minimize	Yes	n/a	n/a
340-208-0110(2) ACDP-1.1	Opacity	20% (6 min block average)	Yes	Recordkeeping	Recordkeeping
340-226-0210(1)(b) ACDP-1.2	PM/PM10	0.10 grains/dscf (non-fuel burning equipment after 4/15/15). 0.14 grains/dscf (non-fuel burning equipment between 6/1/70 – 4/15/15)	Yes	Recordkeeping	Recordkeeping
340-228-0210(1) ACDP-1.2	PM/PM10	0.10 grains/dscf (fuel burning equipment after 4/15/15). 0.14 grains/dscf (fuel burning equipment between 6/1/70 – 4/15/15)	Yes	Recordkeeping	Recordkeeping
340-210-0205 ACDP-6.4	Notice of Construction & Approval	--	Yes	Recordkeeping	Recordkeeping
340-214 ACDP-6	Reporting & Record keeping requirements	--	Yes	Recordkeeping	Recordkeeping
340-242	Employee Commute Options	--	Yes	Recordkeeping	Recordkeeping



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ACDP CONDITION CHANGE REQUEST

Facility name: Bullseye Glass Company

Permit Number: 26-3135-ST-01

ACDP condition information:

ACDP Condition Number	Type of change	Reason for change	Oregon Title V Operating Permit Condition
4.2	PM Emission Factor	Control device installed	See emission calculations for proposed PM emission factors

**FORM EU501
Answer Sheet**

Emissions Unit Summary

Facility name: Bullseye Glass Company

Permit Number: 26-3135-ST-01

1.	Emissions Unit name and ID number or label	EU-6S Furnaces
2.	Emissions Unit description	Colored Art Glass Manufacturing
3.	Operating Scenario ID number	OS-01

4. Emission devices, processes, and control devices:

Device/process ID(s) from DV2XX	Control Device ID(s) from CD3XX
Grp 1: T-8, T-9,	BHW-1,2,3
Grp 2: T-1, T-12	BHW-1,2,3
Grp 3: T-3, T-20	BHW-1,2,3
Grp 4: T-2, T-5, T-6	BHW-1,2,3
Grp 5: T-4, T-7, T-11, T-13, T-14	BHW-1,2,3

5. Pollutants/Emissions:

Pollutant	PSEL Component from ED605
SO2	4.3
NOX	17.0
CO	0.14
VOC	0.14
PM/PM10/PM2.5	0.26

Table 6: Applicable Requirements (next page)

Emissions Unit Summary

6. Applicable Requirements:

Applicable Requirement Citation	Parameter/Pollutant	Limit/Standard/Requirement	Currently in Compliance?	Current Monitoring Method	Proposed Monitoring Method
340-222-0080, 40 CFR Part 61 Subpart N, ACDP conditions 4 & 5.	Annual Criteria Pollutant Emissions & Arsenic monitoring	Below PSEL & arsenic monitoring	Yes	Glass production	Glass production
40 CFR Part 63 Subpart SSSSSS	PM &6 Metal HAPs	0.2 or 0.02 lb/ton	Yes	Source Test	Source Test

**FORM EU501
Answer Sheet**

Emissions Unit Summary

Facility name: Bullseye Glass Company

Permit Number: 26-3135-ST-01

1.	Emissions Unit name and ID number or label	EU-Furnaces
2.	Emissions Unit description	Colored Art Glass Manufacturing
3.	Operating Scenario ID number	OS-01

4. Emission devices, processes, and control devices:

Device/process ID(s) from DV2XX	Control Device ID(s) from CD3XX
P-10, P-17, P-18, T-21	BHW-1,2,3

5. Pollutants/Emissions:

Pollutant	PSEL Component from ED605
SO2	0.31
NOX	1.22
CO	0.010
VOC	0.010
PM/PM10/PM2.5	0.019

Table 6: Applicable Requirements (next page)

**FORM EU501
Answer Sheet**

Emissions Unit Summary

Facility name: Bullseye Glass Company

Permit Number: 26-3135-ST-01

1.	Emissions Unit name and ID number or label	EU-Tekna
2.	Emissions Unit description	Art Glass Manufacturing
3.	Operating Scenario ID number	OS-01

4. Emission devices, processes, and control devices:

Device/process ID(s) from DV2XX	Control Device ID(s) from CD3XX
TEK-15, TEK-16	None

5. Pollutants/Emissions:

Pollutant	PSEL Component from ED605
SO2	2.74
NOX	10.86
CO	0.091
VOC	0.091
PM/PM10/PM2.5	1.73

Table 6: Applicable Requirements (next page)

**FORM EU501
Answer Sheet**

Emissions Unit Summary

Facility name: Bullseye Glass Company

Permit Number: 26-3135-ST-01

1.	Emissions Unit name and ID number or label	EU-Batch Room
2.	Emissions Unit description	Raw material handling
3.	Operating Scenario ID number	OS-01

4. Emission devices, processes, and control devices:

Device/process ID(s) from DV2XX	Control Device ID(s) from CD3XX
Main Weigh Hopper	BH-BR
Eirich Blender – EB01	BH-BR
Eirich Blender – EB03	BH-BR
Eirich Blender – EB02	Portable HEPA Filter
Small Hoppers	BH-BR

5. Pollutants/Emissions:

Pollutant	PSEL Component from ED605
PM/PM10/PM2.5	1.69

Table 6: Applicable Requirements (next page)

**FORM EU501
Answer Sheet**

Emissions Unit Summary

Facility name: Bullseye Glass Company

Permit Number: 26-3135-ST-01

1.	Emissions Unit name and ID number or label	EU-Frit Room
2.	Emissions Unit description	Frit manufacturing
3.	Operating Scenario ID number	OS-01

4. Emission devices, processes, and control devices:

Device/process ID(s) from DV2XX	Control Device ID(s) from CD3XX
2 jaw crushers	BH-FR
2 roller mills	BH-FR
1 future crusher	BH-FR

5. Pollutants/Emissions:

Pollutant	PSEL Component from ED605
PM/PM10/PM2.5	0.32

Table 6: Applicable Requirements (next page)

6. Applicable Requirements:

Applicable Requirement Citation	Parameter/Pollutant	Limit/Standard/Requirement	Currently in Compliance?	Current Monitoring Method	Proposed Monitoring Method

Facility name: _____ Permit Number: _____

Indicate which of the following categorically insignificant activities are present at the facility by placing an “X” in the “Yes” or “No” column.

Yes	No	Type of activity Categorically Insignificant Activities
		Constituents of a chemical mixture present at less than 1 percent by weight of any chemical or compound regulated under divisions 200 through 268 excluding divisions 248 and 262 of this chapter, or less than 0.1 percent by weight of any carcinogen listed in the U.S. Department of Health and Human Service's Annual Report on Carcinogens when usage of the chemical mixture is less than 100,000 pounds/year
		Evaporative and tail pipe emissions from on-site motor vehicle operation
		<p>Distillate oil, kerosene, gasoline, natural gas or propane burning equipment, provided the aggregate expected actual emissions of the equipment identified as categorically insignificant do not exceed the de minimis level for any regulated pollutant, based on the expected maximum annual operation of the equipment. If a source's expected emissions from all such equipment exceed the de minimis levels, then the source may identify a subgroup of such equipment as categorically insignificant with the remainder not categorically insignificant. The following equipment may never be included as categorically insignificant:</p> <ul style="list-style-type: none"> A. Any individual distillate oil, kerosene or gasoline burning equipment with a rating greater than 0.4 million Btu/hour; B. Any individual natural gas or propane burning equipment with a rating greater than 2.0 million Btu/hour
		Distillate oil, kerosene, gasoline, natural gas or propane burning equipment brought on site for six months or less for maintenance, construction or similar purposes, such as but not limited to generators, pumps, hot water pressure washers and space heaters, provided that any such equipment that performs the same function as the permanent equipment, must be operated within the source's existing PSEL
		Office activities
		Food service activities
		Janitorial activities
		Personal care activities
		Grounds keeping activities, including, but not limited to building painting and road and parking lot maintenance
		On-site laundry activities
		On-site recreation facilities
		Instrument calibration
		Maintenance and repair shop
		Automotive repair shops or storage garages;
		Air cooling or ventilating equipment not designed to remove air contaminants generated by or released from associated equipment
		Refrigeration systems with less than 50 pounds of charge of ozone depleting substances regulated under Title VI, including pressure tanks used in refrigeration systems but excluding any combustion equipment associated with such systems
		Bench scale laboratory equipment and laboratory equipment used exclusively for chemical and physical analysis, including associated vacuum producing devices but excluding research and development facilities

Yes	No	Type of activity
		Temporary construction activities
		Warehouse activities
		Accidental fires
		Air vents from air compressors
		Air purification systems
		Continuous emissions monitoring vent lines
		Demineralized water tanks
		Pre-treatment of municipal water, including use of deionized water purification systems
		Electrical charging stations
		Fire brigade training
		Instrument air dryers and distribution
		Process raw water filtration systems
		Pharmaceutical packaging
		Fire suppression
		Blueprint making
		Routine maintenance, repair, and replacement such as anticipated activities most often associated with and performed during regularly scheduled equipment outages to maintain a plant and its equipment in good operating condition, including but not limited to steam cleaning, abrasive use, and woodworking
		Electric motors
		Storage tanks, reservoirs, transfer and lubricating equipment used for ASTM grade distillate or residual fuels, lubricants, and hydraulic fluids
		On-site storage tanks not subject to any New Source Performance Standard (NSPS), including underground storage tanks (UST), storing gasoline or diesel used exclusively for fueling of the facility's fleet of vehicles
		Natural gas, propane, and liquefied petroleum gas (LPG) storage tanks and transfer equipment
		Pressurized tanks containing gaseous compounds
		Vacuum sheet stacker vents
		Emissions from wastewater discharges to publicly owned treatment works (POTW) provided the source is authorized to discharge to the POTW, not including on-site wastewater treatment and/or holding facilities
		Log ponds
		Storm water settling basins
		Fire suppression and training
		Paved roads and paved parking lots within an urban growth boundary
		Hazardous air pollutant emissions in fugitive dust from paved and unpaved roads except for those sources that have processes or activities that contribute to the deposition and entrainment of hazardous air pollutants from surface soils
		Health, safety, and emergency response activities

Yes	No	Type of activity
		Emergency generators and pumps used only during loss of primary equipment or utility service due to circumstances beyond the reasonable control of the owner or operator, or to address a power emergency, provided that the aggregate horsepower rating of all stationary emergency generator and pump engines is not more than 3,000 horsepower. If the aggregate horsepower rating of all stationary emergency generator and pump engines is more than 3,000 horsepower, then no emergency generators and pumps at the source may be considered categorically insignificant
		Non-contact steam vents and leaks and safety and relief valves for boiler steam distribution systems
		Non-contact steam condensate flash tanks
		Non-contact steam vents on condensate receivers, deaerators and similar equipment
		Boiler blow down tanks
		Industrial cooling towers that do not use chromium-based water treatment chemicals
		Ash piles maintained in a wetted condition and associated handling systems and activities
		Uncontrolled oil/water separators in effluent treatment systems, excluding systems with a throughput of more than 400,000 gallons per year of effluent located at the following sources: <ul style="list-style-type: none"> A. Petroleum refineries; B. Sources that perform petroleum refining and re-refining of lubricating oils and greases including asphalt production by distillation and the reprocessing of oils and/or solvents for fuels; or C. Bulk gasoline plants, bulk gasoline terminals, and pipeline facilities
		Combustion source flame safety purging on startup
		Broke beaters, pulp and repulping tanks, stock chests and pulp handling equipment, excluding thickening equipment and repulpers
		Stock cleaning and pressurized pulp washing, excluding open stock washing systems
		White water storage tanks

Notes to Form ED601:

Bullseye's facility includes natural gas fired comfort heaters. The individual rating of each piece of equipment is less and 2.0 MMBtu/hr and the aggregate expected annual emissions do not exceed the de minimis level for any regulated air pollutants (see emission estimates provided with this application).

Bullseye's facility include the following natural gas or propane fired emergency generators for which the aggregate horsepower rating is less than 3,000 Hp:

EG01: Onan 30.0EK-15R/1699K - 40HP

EG02: Onan 85 GGHG - 138HP

EG03: Generac 43901 - 30HP

EG04: Cummins GGHH-7248561 - 134HP



State of Oregon
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Aggregate Insignificant Emissions

FORM ED602
Answer Sheet

Facility: Bullseye Glass Company Operating Scenario OS-01 Permit Number: 26-3135-ST-01

Activity Summary:

Activity	Annual Production/Process Rate		Pollutant	Emissions Factor			Emissions (tons/yr)
	Rate	Units		Rate	Units	Reference	
Two Glass Iridization Stations	See Emission Estimates	See Emission Estimates	HCl	See Emission Estimates	See Emission Estimates	See Emission Estimates	<= 1.0

Pollutant Summary:

Pollutant	Annual Emissions (tons/year)
Hydrochloric Acid	<1.0



Slate of Oregon
Department of
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Quality

Baseline Emissions Rate

FORM ED603
Answer Sheet

Facility: Bullseye Glass Company

Permit Number: 26-3135-ST-01

Baseline Year: 2010 (GHG) 1978 (others)

Device/Process Summary:

Device/Process	Pollutant	Annual Production/Process Rate		Emissions Factor			Emissions (tons/yr)
		Rate	Units	Rate	Units	Reference	
All emission units existing in baseline year	See note below						

Pollutant Summary:

Pollutant	Annual Emissions (tons/year)

Note for Forms ED603, ED604 & ED605:
 During Bullseye's last ACDP renewal a baseline emission rate for NOx of 6 tpy was identified. However the netting basis for all pollutants was set to zero for that renewal. The facility's potential to emit criteria pollutants and GHG is below the SERs and generic PSELs are requested. PM2.5 is a fraction of PM10 and it is assumed PM2.5 is 100% of PM10. See Emission Calculations for more details.



Slate of Oregon
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Netting Basis

FORM ED604
Answer Sheet

Facility: Bullseye Glass Company

Permit Number: 34-26

Device/Process Summary:

Device/Process	Pollutant	Annual Production/Process Rate		Emissions Factor			Emissions (tons/yr)
		Rate	Units	Rate	Units	Reference	

Pollutant Summary:

Pollutant	Annual Emissions (tons/year)

Note for Forms ED603, ED604 & ED605:
 During Bullseye's last ACDP renewal a baseline emission rate for NOx of 6 tpy was identified. However the netting basis for all pollutants was set to zero for that renewal. The facility's potential to emit criteria pollutants and GHG is below the SERs and generic PSELs are requested. PM2.5 is a fraction of PM10 and it is assumed PM2.5 is 100% of PM10. See Emission Calculations for more details.



State of Oregon
Department of
Environmental
Quality

Requested annual plant site emission limits

Form ED605A

Facility: Bullseye Glass Company

Operating Scenario OS-01 Permit Number: 26-3135-ST-01

Emissions Detail:

Emissions Unit ID	Device/process ID	Pollutant	Annual Production/		Emissions Factor			Emissions (tons/yr)
			Process Rates		Rate	Units	Reference	
			Rate	Units				
EU-6S Furnaces	Glass making Furnaces	PM	See Note	See Note	See Note	See Note	Application No.	
		PM10	"	"	"	"	"	
		PM2.5	"	"	"	"	"	
		CO	"	"	"	"	"	
		NOx	"	"	"	"	"	
		SO2	"	"	"	"	"	
EU-Furnaces	Glass making furnaces	PM	"	"	"	"	"	
		PM10	"	"	"	"	"	
		PM2.5	"	"	"	"	"	
		CO	"	"	"	"	"	
		NOx	"	"	"	"	"	
		SO2	"	"	"	"	"	
EU-Tekna	Glass making furnaces	PM	"	"	"	"	"	
		PM10	"	"	"	"	"	
		PM2.5	"	"	"	"	"	
		CO	"	"	"	"	"	
		NOx	"	"	"	"	"	
		SO2	"	"	"	"	"	
EU-Batch Room	Material Handling	PM/PM10/PM2.5	"	"	"	"	"	
		EU-Frit Room	Frit grinding	PM/PM10/PM2.5	"	"	"	"

Requested annual plant site emission limits

Emissions Unit Summary:

EU ID	Pollutant	Annual Emissions (tons/yr)
See table above		

Facility Summary: Note: Criteria pollutant totals include 1 tpy for aggregate insignificant activities

Pollutant	Annual Emissions (tons/yr)
PM/PM10/PM2.5	<24/15/9
SO2	<39
NOx	<39
CO	<99
VOC	<39
GHG	<74,000

Note:
 For process and emission factor information see Emission Calculations. Bullseye’s potential to emit is less than Generic PSELS and Generic PSELS are requested.

CAS Number	Chemical Name	Process(es)	Estimated annual usage (lb/yr)				
			Insignificant >0<1000 lbs	1001 to 10,000 lbs/yr	10,001 to 20,000 lbs/yr	20,001 to 50,000 lb/yr	> 50,000 lbs/yr
7440-36-0	Antimony	Glass manufacturing		X			
7440-38-2	Arsenic	Glass manufacturing		X			
7440-43-9	Cadmium	Glass manufacturing		X			
7446-11-9	Sulfur trioxide	Glass manufacturing	X				
7440-41-7	Beryllium	Glass manufacturing	X				
1313-27-5	Molybdenum trioxide	Glass manufacturing	X				
7440-39-3	Barium	Glass manufacturing	X				
7440-47-3	Chromium	Glass manufacturing		X			
7439-96-5	Manganese	Glass manufacturing		X			
7440-66-6	Zinc (fume or dust)	Glass manufacturing	X				
7440-22-4	Silver	Glass manufacturing	X				
7439-92-1	Lead	Glass manufacturing			X		
7440-02-0	Nickel	Glass manufacturing		X			
7440-48-4	Cobalt	Glass manufacturing	X				
1344-28-1	Aluminum oxide (fibrous form)	Glass manufacturing	X				
7782-49-2	Selenium	Glass manufacturing	X				
7440-22-4	Silver	Glass manufacturing	X				
7647-01-0	Hydrochloric acid	Glass manufacturing	X				

Attachment D

Attachment D-1: Emission Calculations

Attachment D-2: TRI Report

EU - 6S Furnaces Criteria Pollutant Emission Estimates

Operating Information:

Annual Glass Producing Days @ PTE 365 days/yr
 Annual Glass Producing Days 250 days/yr
 Batch Production Per Day 1 Batch/day/furnace

Furnace ID	Maximum Design Capacity (lbs/batch)	Maximum Production (tons/yr)	Maximum Production @ PTE (tons/yr)
T-8	600	75	110
T-9	600	75	110
T-1	850	106.25	155
T-12	850	106.25	155
T-3	950	118.75	173
T-20	950	118.75	173
T-2	1,050	131.25	192
T-5	1,050	131.25	192
T-6	1,050	131.25	192
T-4	1,550	193.75	283
T-7	1,550	193.75	283
T-11	1,550	193.75	283
T-13	1,550	193.75	283
T-14	1,550	193.75	283
Totals	15,700	1,963	2,865

Emission Estimates:

Emissions Unit	Pollutant	Emission Factor	Emission Factor Units	Estimated Maximum Annual Emissions (tpy)	Estimated Maximum Annual Emissions @ PTE (tpy)	Emission Factor Reference
EU- 6S Furnaces	SO2	3	lb/ton	2.9	4.3	AP-42 Table 11.15-1
	NOX	11.9	lb/ton	11.7	17.0	ACDP Condition 4.2
	CO	<0.1	lb/ton	0.10	0.14	AP-42 Table 11.15-2
	VOC	<0.1	lb/ton	0.10	0.14	AP-42 Table 11.15-2
	PM/PM10/PM2.5	0.184	lb/ton	0.18	0.26	3/28/17 Source Test (ODEQ 5 Total PM)

EU - Furnaces Criteria Pollutant Emission Estimates

Operating Information:

Annual Glass Producing Days @ PTE 365 days/yr
 Annual Glass Producing Days 250 days/yr
 Batch Production Per Day 1 Batch/day/furnace

Furnace ID	Maximum Design Capacity (lbs/batch)	Maximum Production (tons/yr)	Maximum Production @ PTE (tons/yr)
P-10	300	37.5	49.0
P-17	300	37.5	49.0
P-18	225	28.1	41.1
T-21	300	37.5	49.0
Totals	1,125	141	188.1

Emission Estimates:

Emissions Unit	Pollutant	Emission Factor	Emission Factor Units	Estimated Maximum Annual Emissions (tpy)	Estimated Maximum Annual Emissions @ PTE (tpy)	Emission Factor Reference
EU - Furnaces	SO2	3	lb/ton	0.21	0.28	AP-42 Table 11.15-1
	NOX	11.9	lb/ton	0.84	1.12	ACDP Condition 4.2
	CO	<0.1	lb/ton	0.007	0.009	AP-42 Table 11.15-2
	VOC	<0.1	lb/ton	0.007	0.009	AP-42 Table 11.15-2
	PM/PM10/PM2.5	0.184	lb/ton	0.013	0.017	3/28/17 Source Test (ODEQ 5 Total PM)

EU - Tekna Criteria Pollutant Emission Estimates

Operating Information:

Annual Glass Producing Days @ PTE 365 days/yr
 Annual Glass Producing Days 250 days/yr
 Batch Production Per Day 1 Batch/day/furnace

Furnace ID	Maximum Design Capacity (lbs/batch)	Maximum Production (tons/yr)	Maximum Production @ PTE (tons/yr)
TEK-15	5000	625	912.5
TEK-16	5000	625	912.5
Totals	10,000	1,250	1,825

Emission Estimates:

Emissions Unit	Pollutant	Emission Factor	Emission Factor Units	Estimated Maximum Annual Emissions (tpy)	Estimated Maximum Annual Emissions @ PTE (tpy)	Emission Factor Reference
EU - Tekna	SO2	3	lb/ton	1.88	2.74	AP-42 Table 11.15-1
	NOX	11.9	lb/ton	7.44	10.86	ACDP Condition 4.2
	CO	<0.1	lb/ton	0.063	0.091	AP-42 Table 11.15-2
	VOC	<0.1	lb/ton	0.063	0.091	AP-42 Table 11.15-2
	PM/PM10/PM2.5	1.9	lb/ton	1.188	1.73	ACDP Condition 4.2

EU - Batch Room & EU- Frit Room Criteria Pollutant Emission Estimates

Operating Information:

Batch & Frit Room Operating Hours @ PTE 8760 hrs/yr
 Batch & Frit Room Operating Hours 4000 hrs/yr

Emission Unit	Pollutant	Estimated Outlet Grain Loading (gr/cf)*	Air Flow Rate (cfm)	Emission Rate (lb/hr)	Estimated Maximum Annual Emissions (tpy)	Estimated Maximum Annual Emissions @ PTE (tpy)
EU - Batch Room	PM/PM10/PM2.5	0.005	9000	0.386	0.77	1.69
EU - Frit Room	PM/PM10/PM2.5	0.005	1680	0.072	0.14	0.32

*Outlet grain loading estimate from EPA-452/F-03-025 Air Pollution Control Technology Fact Sheet, pg 2.

EU - Batch Room HAP Emission Estimates

Notes:

Metals emissions as a fraction of PM emissions are assumed to be in proportion to their raw material composition based on a review of four months of raw material usage (9/1/16 - 12/31/17).

Bullseye is seeking a maximum allowable chromium usage allowance under the CAGM facility rules and potential chromium emissions cannot yet be estimated until the usage allowance is determined.

The facility handles a variety of metal compounds. Emission estimates below are reported as the elemental "parent" metal.

Particulate Matter Emission Factors:

Baghouse	Estimated Outlet Grain Loading (gr/cf)*	Air Flow Rate (cfm)	PM Emission Rate (lb/hr)
Batch Room	0.005	9000	0.39

Metals Emission Factors:

Total RM Usage 9/1/16 - 12/31/16 1,531,655.35 lbs

Batch Room Operating Hours 4,048 hrs/yr

Batch Room Operating Hours @ PTE 8,760 hrs/yr

Metal	Mass of Elemental Metal Handled in batch room operations 9/1/16 - 12/31/16 (lbs)	Overall Metal Fraction in Raw Materials	Batch Room Metal EF (lb/hr)	Estimated Maximum Annual Emissions (tpy)	Estimated Maximum Annual Emissions @ PTE (tpy)
Cadmium	1019.9	6.66E-04	2.57E-04	0.00052	0.0011
Cobalt	273.2	1.78E-04	6.88E-05	0.00014	0.00030
Nickel	417.3	2.72E-04	1.05E-04	0.00021	0.00046
Lead	3002.7	1.96E-03	7.56E-04	0.0015	0.0033
Selenium	354.2	2.31E-04	8.92E-05	0.00018	0.00039
Manganese	684.7	4.47E-04	1.72E-04	0.00035	0.00076
Chromium	-	-	-	TBD	TBD
Arsenic	21.7	1.42E-05	5.46E-06	0.000011	0.00002
Antimony	369.6	2.41E-04	9.31E-05	0.00019	0.00041

*Outlet grain loading estimate from EPA-452/F-03-025 Air Pollution Control Technology Fact Sheet, pg 2.

Estimated HAP Emissions from Natural Gas Combustion in Furnaces

Furnace Burner Operating Hours

8760 hrs/yr

Emission Unit	Device ID #	Maximum Burner Natural Gas Flow Rate (CFH)	Maximum Annual Burner Natural Gas Use (MMCF/yr)
EU-6S Furnaces	T-8	390	3.42
	T-9	390	3.42
	T-1	400	3.50
	T-12	400	3.50
	T-3	410	3.59
	T-20	410	3.59
	T-2	410	3.59
	T-5	410	3.59
	T-6	410	3.59
	T-4	500	4.38
	T-7	500	4.38
	T-11	500	4.38
	T-13	500	4.38
	T-14	500	4.38
EU-Furnaces	P-10	450	3.94
	P-17	450	3.94
	P-18	400	3.50
	T-21	450	3.94
EU-Tekna	TEK-15	1400	12.26
	TEK-16	1400	12.26
Totals		10680	93.56

Emission Units	Maximum NG Usage (MMCF/yr)	Pollutant	Emission Factor (lb/MMCF)	Estimated Maximum Annual Emissions (tpy)
EU-6S Furnace, EU-Furnaces, EU-Tekna	93.56	Benzene	0.008	0.00037
		Formaldehyde	0.017	0.00080
		Total PAHs (excluding Naphthalene)	0.0001	0.0000047
		Naphthalene	0.0003	0.000014
		Acetaldehyde	0.0043	0.000201
		Acrolein	0.0027	0.000126
		Ammonia*	3.2	0.15
		Ethylbenzene	0.0095	0.000444
		Hexane	0.0063	0.000295
		Toluene	0.0366	0.00171
		Xylene	0.0272	0.00127
		Total HAP		

Notes:

*Ammonia is not a Federally listed HAP however it is a pollutant listed in OAR 340-246-0090(3).

Emission Factor Source:

SCAQMD 2016 Reporting Procedures for AB2588 Facilities Reporting their Quadrennial Air Toxic Emission Inventory in the Annual Emission Reporting Program, Appendix B-1, Table B-1.

Estimated Metal HAP Emissions from Furnaces

Notes:

Both EU-6S Furnaces & EU-Furnaces are connected to Baghouse BHW. This baghouse was source tested in March 2017 including EPA Method 29 testing for various metals that were used during the source test. The source test data and raw material use information forms the basis for the emission factors developed below.

Emission factors are developed on a pound of elemental metal emitted per pound of elemental metal used basis.

The estimated maximum metal usage is based on a typical operating schedule of 250 days per year. PTE metal usage is based on 365 days per year.

Emissions are reported as the elemental (parent) metal.

Bullseye is seeking a chromium usage allowance under the CAGM facility rules and potential chromium emissions cannot be estimated until the usage allowance is determined.

Antimony compounds are used in the Tekna furnaces. The emission factor for potential antimony emissions from the Tekna furnaces is based on BHW testing and assuming a removal efficiency of 90% to derive an uncontrolled emission factor for the Tekna furnaces.

3/26/17 - 3/27/17 Source Test Raw Material Use

Raw Materials Used During Source Test 3/26/17 - 3/27/17	lb Metal/lb Material	Metal Present	Total Raw Material Used During Testing (lbs)	Elemental Metal Used During Testing (lbs)
Spectrum/Ferro CdO Gla	0.0989	Cadmium	40.8	4.04
Cobalt Carbonate	0.4955	Cobalt	7.01	3.47
Green Nickel oxide	0.001392	Cobalt	6.8	0.0095
Green Nickel oxide	0.7779	Nickel	6.8	5.29
Lead Glass Frit 3403 Bull	0.6303	Lead	125	78.79
Selenium,metal 200 mesh	0.9950	Selenium	2.74	2.73
1%Se+99%SiO ₂ , Premix	0.0100	Selenium	0.28	0.0028
Manganese, 92%	0.5813	Manganese	15.2	8.84
Green Chrome Oxide	0.6815	Chromium	11.81	8.05
Arsenic Trioxide	0.7574	Arsenic	2.44	1.85
1311 "Color PreMix"	0.06883	Antimony	22.8	1.57

Glass Production Cycle Duration 16 hrs

Emission Unit	Metal	Total Elemental Metal Used During Testing (lbs)	Source Test Results (lb/hr - ave. 3 runs)	lbs Emitted	Emission Factor (lb/lb-used)	Estimated Maximum Metal Usage in Controlled Furnace (lbs)	Estimated Maximum Annual Emissions (tpy)	PTE Metal Usage In Controlled Furnace (lbs)	Estimated Maximum Annual Emissions @ PTE (tpy)
EU-6S Furnaces and EU-Furnaces	Cadmium	4.04	2.49E-06	0.000040	9.87E-06	3120	1.54E-05	4,555	0.000022
	Cobalt	3.48	2.93E-06	0.000047	1.35E-05	1300	8.75E-06	1,898	0.000013
	Nickel	5.29	4.19E-06	0.000067	1.27E-05	1430	9.06E-06	2,088	0.000013
	Lead	78.79	1.84E-05	0.000294	3.74E-06	16900	3.16E-05	24,674	0.000046
	Selenium	2.73	2.56E-05	0.000410	1.50E-04	1170	8.78E-05	1,708	0.00013
	Manganese	8.84	3.61E-05	0.000578	6.54E-05	2080	6.80E-05	3,037	0.000099
	Chromium	8.05	3.82E-06	0.000061	7.59E-06	TBD	TBD	TBD	TBD
	Arsenic	1.85	7.32E-06	0.000117	6.34E-05	1950	6.18E-05	2,847	0.000090
	Antimony	1.57	5.60E-06	0.000090	5.71E-05	1109	3.17E-05	1,619	0.000046

Emission Unit	Metal	Emission Factor (lb/lb-used)	Estimated Maximum Metal Usage in Tekna Furnaces (lbs)	Estimated Maximum Annual Emissions (tpy)	PTE Metal Usage In Tekna Furnace (lbs)	Estimated Maximum Annual Emissions @ PTE (tpy)
EU-Tekna	Antimony	5.71E-04	2687	0.00077	3,923	0.0011

Estimated Hydrogen Fluoride Emissions from Furnaces

Notes:

The facility uses a number of fluorine containing raw materials to manufacture art glass. A review of literature information indicates that up to 20% of the fluorine contained in raw materials may be emitted during glass manufacturing and the primary fluoride species is hydrogen fluoride (HF). EU-6S Furnaces and EU-Furnaces are controlled by a hydrated lime coated baghouse with an estimated DRE of 90%. This information serves as the basis for the emission factors and emission estimates below.

Literature Cited:

Konrad T. Semrau (1957) Emission of Fluorides From Industrial Processes-A Review, Journal of the Air Pollution Control Association, 7:2, 92-108, DOI: 10.1080/00966665.1957.10467795.

The estimated raw material usage is based on a typical operating schedule of 250 days per year. PTE raw material usage is based on 365 days per year.

HF Emission Factor:

% Emitted as F	20%
% Emitted as HF	21.1%
Estimated BHW HF DRE	90%
HF Emission Factor	0.021 lb HF/lb F

Raw Material	Estimated Maximum Raw Material Usage (lbs.)	F Fraction (%)	F- (lbs.)	Estimated Maximum Raw Material Usage @ PTE (lbs.)	F Fraction (%)	F- (lbs.)
Aluminum Flouride (AlF3)	144	68%	98	210.5	68%	143
Cryolite (Na3AlF6)	63771	54%	34628	93105.1	54%	50557
Sodium-Sil-Flouride (Na2SiF6)	66932	61%	40575	97721	61%	59239
		Total	75301		Total	109939

Emission Units	Pollutant	Estimated Maximum Potential Raw Material Usage as F- (lbs.)	Emission Factor (lb HF/lb-F used)	Estimated Maximum Emissions (tpy)	Estimated Maximum Potential Raw Material Usage as F- @ PTE (lbs.)	Emission Factor (lb HF/lb-F used)	Estimated Maximum Emissions @ PTE (tpy)
EU-6S Furnaces & EU-Furnaces	Hydrogen Fluoride	75301	0.021	0.79	109939	0.021	1.16

Aggregate Insignificant Activity - Iridization Systems

Raw Material Use and Emission Factor Information

Muriatic Acid
 % HCl 31.45%
 Density 1.16
 Emission Factor* 3.04 lb HCl/gal Acid

Stannous Chloride (SnCl₂)
 MW (SnCl₂) 189.62
 MW Cl 35.453
 % Cl 0.374
 % HCl 0.38
 Emission Factor* 0.38 lb HCl/lb Stannous Chloride

* Emission Factors Assume all Cl is emitted as HCl

Estimated Maximum Muriatic Acid Use (gallons)	Pollutant	Emission Factor (lb/gal-used))	Estimated Maximum Emissions (tpy)	Estimated Maximum Emissions @PTE (tpy)
89.70	Hydrochloric Acid	3.04	0.14	0.20

Estimated Maximum Stannous Chloride Use (lbs)	Pollutant	Emission Factor (lb/lb-used))	Estimated Maximum Emissions (tpy)	Estimated Maximum Emissions @ PTE (tpy)
1,056.90	Hydrochloric Acid	0.384	0.20	0.30

Notes:

The estimated maximum use of iridization chemicals is based on a 250 day per year operating schedule. The PTE emission estimate from iridization activities assumes emissions would be increased by a ratio of 365/250.

Categorically Insignificant Heaters
Expected Annual Emissions Below De minimis Levels & PTE Emission Estimates

Inventory of Small Natural Gas Combustion Equipment (all rated < 2.0 MMBtu/hr)

Rooftop HVAC Units	Model	Max BTU Output
EQ0143, RTU 01	YSC048E1RMA0VC	64,000
EQ0144, RTU 02	YSC048E1RMA0VC	64,000
EQ0145, RTU 03	48TMF007-501HE	120,000
EQ0151, RTU 04	2YCC3060A1120AA	96,500
EQ0146, RTU 05	48TME014-A-501-HE	160,000
EQ0147, RTU 06	YCD240B3LAJB	203,300
EQ0152, RTU 07	KGB036S4DY1P	67,000
Space Heaters	Model	Max BTU Output
Reznor	130	40,000
Reznor	130	65,000
Intertek	GG-120	120,000
Reznor	XL140-3	107,800
Modine	PA105AB	80,850
Reznor	XA300	240,000
Rogers & Gordon	CTH2-15	15,000
Dayton	7D841	75,000
Dayton	7D841	100,000
Totals (All Units)		1,618,450

	Expected Actual Annual Natural Gas Consumption* (MMCF/yr)	Maximum Annual Natural Gas Consumption (MMCF/yr)
Heaters	6.95	13.90

*Based on a Natural Gas HHV of 1020 btu/CF and an expected annual operating capacity of 50%

Aggregate Expected Actual Annual Emissions from Natural Gas Heaters				PTE Annual Emissions from Natural Gas Heaters (tpy)
Pollutant	Emission Factor** (lb/MMCF)	Emission Rate (tpy)	De minimis emission level per OAR 340-200-0020(39) (tpy)	
CO	84	0.292	1	0.58
Nox	100	0.347	1	0.69
SO2	1.7	0.006	1	0.012
VOC	5.5	0.019	1	0.038
PM2.5	2.5	0.009	1	0.017
Single HAP (toluene)	0.0366	0.0001	1	0.0003
All HAPs	0.112	0.0004	1	0.0008
CO2e (short tons/MMCF)	59.72	415.0	2,756	see GHG calcs

**Emission Factor Basis:

Criteria Pollutants: Oregon DEQ AQ-EF-05

HAPs: SCAQMD 2016 Reporting Procedures for AB2588 Facilities Reporting their Quadrennial Air Toxic Emission Inventory in the Annual Emission Reporting Program, Appendix B-1, Table B-1.

CO2e: Combined CO2/CH4/N2O emission factor from ODEQ GHG emission calculation tool.

**Categorically Insignificant Emergency Generators
PTE Emission Estimates**

Inventory of Propane Fired Emergency Generators (aggregate Hp <3,000)

Generators	Make	Model	HP
Bullseye			
EQ0136, EG01	Onan	30.0EK-15R/1699K	40
EQ0137, EG02	Onan	85 GGHG	138
EQ0138, EG03	Generac	43901	30
EQ0139, EG04	Cummins	GGHH-7248561	134
Total Hp			342

Estimated Annual Fuel Use

Propane Fuel Use Rate:	2.57 scf/hp-hr	(catalog data)
Max. Operating Hours	100 hr/yr-gen	(limit for emergency generator status)
Max. Hp-hr	34200 hp-hr/yr	
Max Propane Use (scf):	88002.4 scf/yr	
Conversion	0.0278 gal. propane/scf	
Max. Propane Use (gal.)	2446.5 gal/yr	
HHV Propane	0.091 MMBtu/gal	
Max Fuel Heat Input	222.6 MMBtu/yr	

Pollutant	Emission Factor** (lb/MMBtu)	Emission Rate @ PTE (tpy)	Remarks
CO	0.317	0.035	
Nox	4.08	0.454	
SO2	0.00059	0.000065	
VOC	0.118	0.013	
PM2.5	0.000077	0.0000086	
Single HAP (Formaldehyde)	4.78	0.0058	Emission Factors for HAPs in units of lb/1000 gal
All HAPs	6.49	0.0079	

**Emission Factor Basis:

Criteria Pollutants: AP-42 Table 3.2-2

HAPs: SCAQMD Reporting Procedures for AB2588 Facilities Reporting their Quadrennial Air Toxic Emission Inventory in the Annual Emission Reporting Program, Appendix B-1, Table B-3, December 2016

PTE GHG Calculations

Emission estimates based on the ODEQ GHG emission calculation tool. The tool is based on the ODEQ and EPA reporting guidelines and rules.

Emission Sources				Convert to mmBtu				Emissions (kg/mmBtu)			CO2 Equivalent			(mtCO2e)		
Emissions unit	Fuel Type	Quantity	Fuel units	HHV Units	HHV Unit	HHV	mmBtu	CH4	CO2	N2O	CH4	CO2	N2O	CH4	CO2	N2O
All Furnaces	Natural gas	93.6	Million cubic ft	93,556,800	cubic ft	0.001026	95,989	0.001	53.06	0.0001	25	1	298	2	5,093	3
CIA Heaters	Natural gas	13.9	Million cubic ft	13,899,629	cubic ft	0.001026	14,261	0.001	53.06	0.0001	25	1	298	0.4	757	0.4
CIA Emergency Generators	Propane	2,446	Gallon	2,446	gallon	0.091	223	0.003	73.96	0.0006	25	1	298	0.02	16	0.04

Conversion to short tons

Total combustion emissions (short tons CO2e):	6,473
--	-------

Total combustion emissions (mtCO₂e):	5,872
--	-------

Criteria Pollutant Plant Site Emission Limit Summary Table

Emission Unit or Activity	Potential to Emit (tpy)					
	SO2	NOX	CO	VOC	PM/PM10/PM2.5	GHG (CO2e)
EU-6S Furnaces	4.3	17.0	0.14	0.14	0.26	All Fuel Combustion Sources
EU-Furnaces	0.28	1.12	0.009	0.009	0.017	
EU-Tekna	2.7	10.9	0.09	0.09	1.7	
EU-Batch Room	0	0	0	0	1.7	
EU-Frit Room	0	0	0	0	0.32	
CIA - Heaters	0.012	0.69	0.58	0.038	0.017	
CIA - Egens	0.000065	0.45	0.035	0.013	0.0000086	
Totals	7.3	30.2	0.86	0.3	4.0	
Requested PSEL	39	39	99	39	24/14/9	74,000

Notes:

PM2.5 is a subset of PM10. Emission estimates assume PM2.5 is 100% PM10.

The facility's potential to emit is less than the SER and the requested PSEL is the generic PSEL in accordance with OAR 340-222-0041.

HAP Emissions Summary Table

Pollutant	Potential to Emit (tpy)				
	EU-6S Furnaces & EU-Furnaces	EU-Tekna	ER-Batch Room	Iridization Systems	All Natural Gas & Propane Combustion Sources
Cadmium	0.000022	0	0.0011	0	0
Cobalt	0.000013	0	0.00030	0	0
Nickel	0.000013	0	0.00046	0	0
Lead	0.000046	0	0.0033	0	0
Selenium	0.00013	0	0.00039	0	0
Manganese	0.000099	0	0.00076	0	0
Chromium	TBD	0	TBD	0	0
Arsenic	0.000090	0	0.000024	0	0
Antimony	0.000046	0.0011	0.00041	0	0
Hydrogen Fluoride	1.16	0	0	0	0
Hydrochloric Acid	0	0	0	0.50	0
Combined Combustion HAPs					0.014
Total Combined HAP Emissions Including Insignificant Activities					1.68

EPA United States Environmental Protection Agency <h1 style="margin: 0;">FORM R</h1> Section 313 of the Emergency Planning and Community Right-to-know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act.	TRI Facility ID Number 97202BLLSY3722S Toxic Chemical, Category, or Generic Name Lead Compounds
--	--

WHERE TO SEND COMPLETED FORMS: 1. TRI Data Processing Center P.O. Box 10163 Fairfax, VA 22038 *** File Copy Only: Do Not Submit Paper Form to EPA ***	2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)
---	---

This section only applies if you are revising or withdrawing a previously submitted form, otherwise leave blank:	Revision (Enter up to two code(s)) [][]	Withdrawal (Enter up to two code(s)) [][]
--	--	--

Important: See Instructions to determine when "Not Applicable (NA)" boxes should be checked.

Part I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR: **2015**

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 2 trade secret? <input type="checkbox"/> Yes (Answer question 2.2; attach substantiation forms) <input checked="" type="checkbox"/> NO (Do not answer 2.2; go to Section 3)	2.2 Is this copy <input type="checkbox"/> Sanitized <input type="checkbox"/> Unsanitized (Answer only if "Yes" in 2.1)
--	--

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official: File Copy Only: Do Not Submit Paper Form to EPA	Signature: File Copy Only: Do Not Submit Paper Form to EPA	Date Signed: XX/XX/XXXX
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SECTION 4. FACILITY IDENTIFICATION

4.1 Facility or Establishment Name BULLSEYE GLASS CO INC	TRI Facility ID Number 97202BLLSY3722S
3. Street Address 3 SE 21ST AVE	Mailing Address (if different from physical street address)
City/County/Tribe/State/ZIP Code PORTLAND / Multnomah / BIA Code: / OR / 97202	City/State/ZIP Code / /

4.2 This report contains information for : (Important: check a or b; check c or d if applicable)	a. <input checked="" type="checkbox"/> An Entire facility	b. <input type="checkbox"/> Part of a facility	c. <input type="checkbox"/> A Federal facility	d. <input type="checkbox"/> GOCO
--	---	--	--	----------------------------------

4.3 Technical Contact name ERIC DURRIN	Email Address ERICDURRIN@BULLSEYEGGLASS.COM	Telephone Number (include area code and ext.) 503-232-8887 - 103			
4.4 Public Contact name ERIC DURRIN	Email Address ERICDURRIN@BULLSEYEGGLASS.COM	Telephone Number (include area code and ext.) 503-232-8887 - 103			
4.5 NAICS Code(s) (6 digits) a. 327211 (Primary)	b.	c.	d.	e.	f.

4.7 Dun and Bradstreet Number(s) (9 digits) a. 076396332	b.
--	----

SECTION 5. PARENT COMPANY INFORMATION

5.1 Name of U.S. Parent Company (for TRI Reporting purposes)	No U.S. Parent Company (for TRI Reporting purposes) <input checked="" type="checkbox"/>
5.2 Parent Company's Dun & Bradstreet Number	NA <input type="checkbox"/>

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EPA FORM R
PART II. CHEMICAL - SPECIFIC INFORMATION

TRI Facility ID Number

97202BLLSY3722S

Toxic Chemical, Category, or Generic Name

Lead Compounds

SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you are reporting a mixture component in Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.) N420
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.) Lead Compounds
1.3	Generic Chemical Name (Important: Complete only if Part I, Section 2.1 is checked "Yes". Generic Name must be structurally descriptive). NA

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, spaces, and punctuation.) NA
-----	---

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY
(Important: Check all that apply.)

3.1	Manufacture the toxic chemical: a. <input type="checkbox"/> Produce b. <input type="checkbox"/> Import	3.2	Process the toxic chemical: a. <input checked="" type="checkbox"/> As a reactant b. <input type="checkbox"/> As a formulation component c. <input type="checkbox"/> As an article component d. <input type="checkbox"/> Repackaging e. <input type="checkbox"/> As an impurity	3.3	Otherwise use the toxic chemical: a. <input type="checkbox"/> As a chemical processing aid b. <input type="checkbox"/> As a manufacturing aid c. <input type="checkbox"/> Ancillary or other use
If produce or import: c. <input type="checkbox"/> For on-site use/processing d. <input type="checkbox"/> For sale/distribution e. <input type="checkbox"/> As a byproduct f. <input type="checkbox"/> As an impurity					

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

4.1 [04] (Enter two-digit code from instruction package.)

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ON-SITE

		A. Total Release (pounds/year*) (Enter range code or estimate**)	B. Basis of Estimate (Enter code)	C. Percent from Stormwater
5.1	Fugitive or non-point air emissions	NA [X]		
5.2	Stack or point air emissions	NA []	8.1	E1
5.3	Discharges to receiving streams or water bodies (Enter one name per box)	NA [X]		
	Stream or Water Body Name	Reach Code (optional)		
5.3.1	NA			

*For Dioxin and Dioxin-like Compounds, report in grams/year

**Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

**EPA FORM R
PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)**

TRI Facility ID Number

97202BLLSY3722S

Toxic Chemical, Category, or Generic Name

Lead Compounds

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ON-SITE (Continued)

		NA	A. Total Release (pounds/year*) (Enter range code** or estimate)	B. Basis of Estimate (Enter code)
5.4-5.5	Disposal to land on-site			
5.4.1	Class I Underground Injection wells	[X]		
5.4.2	Class II-V Underground Injection wells	[X]		
5.5.1.A	RCRA subtitle C landfills	[X]		
5.5.1.B	Other landfills	[X]		
5.5.2	Land treatment/application farming	[X]		
5.5.3A	RCRA Subtitle C surface impoundments	[X]		
5.5.3B	Other surface impoundments	[X]		
5.5.4	Other disposal	[X]		

SECTION 6. TRANSFER(S) OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs) NA [X]

*For Dioxin and Dioxin-like Compounds, report in grams/year
 **Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

EPA FORM R PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)	TRI Facility ID Number 97202BLLSY3722S Toxic Chemical, Category, or Generic Name Lead Compounds
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SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS NA

6.2.1 Off-Site EPA Identification Number (RCRA ID No.)	WAD991281767
Off-Site Location Name:	PHILIP ENVIRONMENTAL SERVICES
Off-Site Address:	20245 77TH AVE S

City	KENT	County	King	State	WA	ZIP	98032	Country (Non-US)	
------	------	--------	------	-------	----	-----	-------	------------------	--

Is location under control of reporting facility or parent company? [] Yes [X] No

A. Total Transfer (pounds/year*) (Enter range code** or estimate)	B. Basis of Estimate (Enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (Enter code)
1 . 9	1 . O	1 . M99

SECTION 7A. ONSITE WASTE TREATMENT METHODS AND EFFICIENCY

Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]	d. Waste Treatment Efficiency Estimate

*For Dioxin and Dioxin-like Compounds, report in grams/year
 **Range Codes: A=1-10 pounds; B=11-499 pounds; C=500-999 pounds.

EPA FORM R
PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number

97202BLLSY3722S

Toxic Chemical, Category, or Generic Name

Lead Compounds

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

NA - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [Enter 3-character code(s)]

SECTION 7C. ON-SITE RECYCLING PROCESSES

NA - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [Enter 3-character code(s)]

SECTION 8. SOURCE REDUCTION AND WASTE MANAGEMENT

		Column A Prior Year (pounds/year*)	Column B Current Reporting Year (pounds/year*)	Column C Following Year (pounds/year*)	Column D Second Following Year (pounds/year*)
8.1 - 8.7 Production-Related Waste Managed					
8.1a	Total on-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1b	Total other on-site disposal or other releases	NA	8.1	6	0
8.1c	Total off-site disposal to Class I Underground Injection Wells, RCRA Subtitle C landfills, and other landfills	NA	NA	NA	NA
8.1d	Total other off-site disposal or other releases	NA	.9	0	0
8.2	Quantity used for energy recovery on-site	NA	NA	NA	NA
8.3	Quantity used for energy recovery off-site	NA	NA	NA	NA
8.4	Quantity recycled on-site	NA	NA	NA	NA
8.5	Quantity recycled off-site	NA	NA	NA	NA
8.6	Quantity treated on-site	NA	NA	NA	NA
8.7	Quantity treated off-site	NA	NA	NA	NA
8.8	Non-production-related waste managed**	NA			
8.9	<input type="checkbox"/> Production ratio or <input checked="" type="checkbox"/> Activity ratio (select one and enter value to right)	1			
8.10	Did your facility engage in any newly implemented source reduction activities for this chemical during the reporting year? If so, complete the following section; if not, check NA.	NA <input checked="" type="checkbox"/>			
	Source Reduction Activities (Enter code(s))	Methods to Identify Activity (Enter code(s))			Estimated annual reduction (Enter code (s)) (optional)
8.10.1	NA				

*For Dioxin and Dioxin-like Compounds, report in grams/year

** Includes quantities released to the environment or transferred off-site as a result of remedial actions, catastrophic events, or other one-time events not associated with production processes

TRI Facility ID Number
97202BLLSY3722S
Toxic Chemical, Category, or Generic Name
<input checked="" type="checkbox"/> Compounds

Additional optional information on source reduction, recycling, or pollution control activities.

Section 8.11: If you wish to submit additional optional information on source reduction, recycling, or pollution control activities, provide it here.

Topic	Comment
-------	---------

Section 9.1: If you wish to submit any miscellaneous, additional, or optional information regarding your Form R submission, provide it here.

Topic	Comment
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State of Oregon
Department of
Environmental
Quality

FORM CP701
Answer Sheet

Continuous Monitoring Systems

Facility name: Bullseye Glass Company Permit Number: 26-3135-ST-01

1. Continuous monitors:

Emissions Unit ID	Pollutant/parameter	Sample location	Limit or Standard(s)	Averaging Time	Program
EU-6S Furnaces	PM/Baghouse Leak Detection System	Baghouse outlet	Bag leak	TBD	NESHAP & OAR 340-244-9080(4)

2. Quality Assurance Plans:

a.	Has a quality assurance plan been written for each continuous monitoring system described above?	No
b.	If yes, was the QAP submitted to the Department for review and approval (enter date)?	No
c.	If no to either a or b, when will the QAP be written and submitted to the Department for review and approval?	TBD*

*Bullseye submitted a compliance source test report for this emissions unit to the Department on 5/12/17. Upon review and approval of the source test report Bullseye will develop and submit to the Department bag leak detection system monitoring plan as required under 340-244-9080(4).



State of Oregon
Department of
Environmental
Quality

Maintenance Activities

Facility name: Bullseye Glass Company Permit Number: 26-3135-ST-01

1. Monitoring information:

Emissions Unit/ Control Device ID	Maintenance Activity(s)	Frequency
CIA Emergency Generators	Operation and maintenance activities associated with 40 CFR Part 63 for applicable engines: <ul style="list-style-type: none"> • Change the oil and filter every 500 hours of operation or annually, whichever comes first. • inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first. • Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. • Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions. • Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. 	See Maintenance Activity description
EU-6S Furnaces/BHW	Operate and maintain in accordance with the manufacturer's recommendations.	See Maintenance Activity description
EU-Furnaces/BHW	Operate and maintain in accordance with the manufacturer's recommendations.	See Maintenance Activity description
EU-Batch Room/BH-BR	Operate and maintain in accordance with the manufacturer's recommendations.	See Maintenance Activity description
EU-Frit Room/BH-FR	Operate and maintain in accordance with the manufacturer's recommendations.	See Maintenance Activity description



State of Oregon
Department of
Environmental
Quality

FORM CP710
Answer Sheet

Recordkeeping

Facility name: Intel Corporation Aloha/Ronler Acres Campuses Permit Number: 34-2681-ST-01

Emissions Unit ID	Parameter	Protocol	Frequency
EU-6S Furnaces and EU-Furnaces	Tons of glass melted	Per ACDP 5.1a	Monthly
	Types and quantities of glass contain arsenic	Per ACDP 5.1b	Annually
	Arsenic emission calculations	Per ACDP 5.1c	Semi-annually
CIA Emergency Generators	Maintenance records & hours of operation.	Facility records	When used
Facility-Wide	Nuisance conditions & Excess Emissions	Facility logs per ACDP 5.2 & 5.3	On occurrence



State of Oregon
Department of
Environmental
Quality

FORM CP711
Answer Sheet

Plant Site Emissions Limit Monitoring

Facility name: Intel Corporation Aloha/Ronler Acres Campuses Permit Number: 34-2681-ST-01

Emissions Unit IDs	Device/process ID	Pollutant	Method	Process parameter	Emission Factor
EU-6S Furnaces, EU-Furnaces, EU-Tekna	Glass making furnaces	PM/PM10/PM2.5	EF	Glass Produced	0.184 lb/ton
		SO2	EF	Glass Produced	3.0 lb/ton
		NOx	EF	Glass Produced	11.9 lb/ton

Other Information
Copy of Current ACDP

**STANDARD
AIR CONTAMINANT DISCHARGE PERMIT**

Department of Environmental Quality
Northwest Region
2020 SW 4th Avenue, #400
Portland, Oregon 97201
(503) 229-5554

This permit is being issued in accordance with the provisions of ORS 468A.040 and based on the land use compatibility findings included in the permit record.

ISSUED TO:

Bullseye Glass Co.
3722 SE 21st Avenue
Portland, OR 97202

INFORMATION RELIED UPON:

Application No.: 023633
Date Received: 03/18/09
Additional information
received through 07/27/10

PLANT SITE LOCATION:

3722 SE 21st Avenue
Portland, OR 97202

LAND USE COMPATIBILITY FINDING:

Approving Authority: City of Portland
Approval Date: 03/11/97

ISSUED BY THE DEPARTMENT OF ENVIRONMENTAL QUALITY



Keith Johnson, Northwest Region Air Quality Manager

5/24/2011

Dated

Source(s) Permitted to Discharge Air Contaminants (OAR 340-216-0020):

Table 1 Code	Source Description	SIC / NAICS
Part B, 83	Problem for which an air quality concern is identified (stained flat glass manufacture)	3211 / 327211
C, 3	Source electing to maintain Baseline Emission Rate	n/a

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1.0 GENERAL EMISSION STANDARDS AND LIMITS

- 1.1. **Visible Emissions** The permittee must ensure that emissions from any air contaminant source does not equal or exceed 20% opacity for a period aggregating more than 30 seconds in any one hour.
- 1.2. **Particulate Matter Emissions** The permittee must ensure that particulate matter emissions from any air contaminant source other than fugitive emission sources does not exceed 0.1 grains per standard cubic foot
- 1.3. **Fugitive Emissions** The permittee must take reasonable precautions to prevent fugitive dust emissions by:
- a. Operating all air contaminant-generating processes so that fugitive type dust associated with the operation will be adequately controlled at all times.
 - b. Storing collected materials from air pollution control equipment in a covered container or other method equally effective in preventing the material from becoming airborne during storage and transfer.
- 1.4. **Particulate Matter Fallout** The permittee must not cause or permit the emission of any particulate matter larger than 250 microns in size at sufficient duration or quantity, as to create an observable deposition upon the real property of another person. The Department will verify that the deposition exists and will notify the permittee that the deposition must be controlled.
- 1.5. **Nuisance and Odors** The permittee must not cause or allow air contaminants from any source to cause a nuisance. Nuisance conditions will be verified by Department personnel.

2.0 SPECIFIC PERFORMANCE AND EMISSION STANDARDS

- 2.1. **Inorganic Arsenic Usage** The permittee must ensure that arsenic emissions from each furnace do not exceed: existing (constructed prior to 8/4/1986) furnace do not exceed 2.7 tons per year
- a. 2.7 tons per year for furnaces constructed prior to 8/14/1986 (existing furnaces)
 - b. 0.44. tons per year for furnaces constructed or modified after 8/14/1986 (new furnaces)
 - c. The permittee must operate and maintain each furnace in a manner consistent with good air pollution control practice to minimize emissions at all times.

- d. Semi-annually, perform the calculations required in 40 CFR 61.164(c) to estimate uncontrolled plant-wide arsenic emissions.
- e. Record the occurrence and duration of all startups, shutdowns, and malfunctions of each furnace.

3.0 PLANT SITE EMISSION LIMITS

3.1. Plant Site Emission Limits (PSEL)

Plant site emissions must not exceed the following:

Pollutant	Limit	Units
PM ₁₀	14	tons per year
SO ₂	39	tons per year
NO _x	39	tons per year

- 3.2. Annual Period The annual plant site emissions limits apply to any 12-consecutive calendar month period.

4.0 COMPLIANCE DEMONSTRATION

- 4.1. PSEL Compliance Monitoring Compliance with the PSEL is determined for each 12-consecutive calendar month period based on the following calculation for each pollutant:

$$E = \Sigma(EF \times P)/2000 \text{ lbs}$$

where,

- E = pollutant emissions (ton/yr);
- EF = pollutant emission factor (Condition 4.2);
- P = process production (glass melted)

- 4.2. Emission Factors The permittee must use the default emission factors provided in here for calculating pollutant emissions, unless alternative emission factors are approved by the Department. The permittee may request or the Department may require using alternative emission factors provided they are based on actual test data or other documentation (e.g., AP-42 compilation of emission factors) that has been reviewed and approved by the Department.

- 1.9 lb PM₁₀/ton glass melted
- 3.0 lb SO₂/ton glass melted
- 11.9 lb NO_x/ton glass melted for oxygen-fed furnaces
- 19.8 lb NO_x/ton glass melted for unconverted furnaces

5.0 RECORDKEEPING REQUIREMENTS

- 5.1. **Operation and Maintenance** The permittee must maintain the following records related to the operation and maintenance of the plant and associated air contaminant control devices:
- a. Tons of glass melted, monthly;
 - b. Types and quantities of glass containing arsenic, annually;
 - c. Emissions calculations required in Condition 4.1, monthly;
 - d. Semi-annual emissions calculation required in Condition 2.1, annually
- 5.2. **Excess Emissions** The permittee must maintain records of excess emissions as defined in OAR 340-214-0300 through 340-214-0340 (recorded on occurrence). Typically, excess emissions are caused by process upsets, startups, shutdowns, or scheduled maintenance. In many cases, excess emissions are evident when visible emissions are greater than 20% opacity for 3 minutes or more in any 60-minute period. If there is an ongoing excess emission caused by an upset or breakdown, the permittee must cease operation of the equipment or facility no later than 48 hours after the beginning of the excess emissions, unless continued operation is approved by the Department in accordance with OAR 340-214-0330(4).
- 5.3. **Complaint Log** The permittee must maintain a log of all written complaints and complaints received via telephone that specifically refer to air pollution concerns associated to the permitted facility. The log must include a record of the permittee's actions to investigate the validity of each complaint and a record of actions taken for complaint resolution.
- 5.4. **Retention of Records** Unless otherwise specified, all records must be maintained on site for a period of two (2) years and made available to the Department upon request.

6.0 REPORTING REQUIREMENTS

- 6.1. **Excess Emissions** The permittee must notify the Department of excess emissions events if the excess emission is of a nature that could endanger public health.
- a. Such notice must be provided as soon as possible, but never more than one hour after becoming aware of the

problem. Notice must be made to the regional office identified in Condition 8.3 by e-mail, telephone, facsimile, or in person.

- b. If the excess emissions occur during non-business hours, the permittee must notify the Department by calling the Oregon Emergency Response System (OERS). The current number is 1-800-452-0311.
- c. The permittee must also submit follow-up reports when required by the Department.

6.2. Annual Report

For each year this permit is in effect, the permittee must submit to the Department by **February 15** two (2) copies of the following information for the previous calendar year:

- a. Operating parameters:
 - i. Tons of glass melted;
 - ii. Types and quantities of glass melted that contain arsenic;
 - iii. Summary of annual pollutant emissions determined each month in accordance with Condition 4.1, with annual totals noted;
 - iv. Results of the calculations required in Condition 2.1.
- b. Records of all planned and unplanned excess emissions events.
- c. Summary of complaints relating to air quality received by permittee during the year.
- d. List permanent changes made in plant process, production levels, and pollution control equipment which affected air contaminant emissions.
- e. List major maintenance performed on pollution control equipment.

6.3. Notice of Change of Ownership or Company Name

The permittee must notify the Department in writing using a Departmental "Permit Application Form" within 60 days after the following:

- a. Legal change of the name of the company as registered with the Corporations Division of the State of Oregon; or
- b. Sale or exchange of the activity or facility.

- 6.4. **Construction or Modification Notices** The permittee must notify the Department in writing using a Departmental "Notice of Construction Form," or "Permit Application Form," and obtain approval in accordance with OAR 340-210-0205 through 340-210-0250 before:
- a. Constructing, installing, or establishing a new stationary source that will cause an increase in any regulated pollutant emissions;
 - b. Making any physical change or change in operation of an existing stationary source that will cause an increase, on an hourly basis at full production, in any regulated pollutant emissions; or
 - c. Constructing or modifying any air pollution control equipment.

7.0 PERMIT RENEWAL AND MODIFICATION

- 7.1. **Permit Renewal Application** The completed application package for renewal of this permit is due on 4/1/2015. Two (2) copies of the application must be submitted to the DEQ Permit Coordinator listed in Condition 8.2
- 7.2. **Permit Modifications** Application for a modification of this permit must be submitted not less than 60 days prior to the source modification. A special activity fee must be submitted with an application for the permit modification. The fees and two (2) copies of the application must be submitted to the Business Office of the Department.

8.0 DEQ CONTACTS / ADDRESSES

- 8.1. **Business Office** The permittee must submit payments for invoices, applications to modify the permit, and any other payments to DEQ's Business Office:

Department of Environmental Quality
Business Office
811 SW Sixth Avenue
Portland, Oregon 97204-1390

8.2. Permit Coordinator The permittee must submit all Notices and applications that do not include payment to the Northwest Region's Permit Coordinator:

Department of Environmental Quality
Northwest Region
2020 SW 4th Avenue, Suite 400
Portland, OR 97201-4987
Telephone: (503) 229-5582

8.3. Field Office Unless otherwise notified, the permittee must submit all reports (annual reports, source test plans and reports, etc.) to field office noted below.

Department of Environmental Quality
NWR-ESO/AQ
1550 NW Eastman Pkwy, Suite 290
Gresham, OR 97030
Telephone: (503) 667-8414

8.4. Web Site Information about air quality permits and the Department's regulations may be obtained from the DEQ web page at www.deq.state.or.us

9.0 FEES

- 9.1. Annual Compliance Fee** The Annual Fee specified in OAR 340-216-0020, Table 2, Part 2 for a Standard ACDP is due on **December 1** of each year this permit is in effect. An invoice indicating the amount, as determined by Department regulations, will be mailed prior to the above date. **Late fees in accordance with Part 4 of the table will be assessed as appropriate.**
- 9.2. Change of Ownership or Company Name Fee** The non-technical permit modification fee specified in OAR 340-216-0020, Table 2, Part 3(a) is due with an application for changing the ownership or the name of the company.
- 9.3. Special Activity Fees** The special activity fees specified in OAR 340-216-0020, Table 2, Part 3 (b through i) are due with an application to modify the permit.

10.0 GENERAL CONDITIONS AND DISCLAIMERS

- 10.1. **Permitted Activities** This permit allows the permittee to discharge air contaminants from processes and activities related to the air contaminant source(s) listed on the first page of this permit until this permit expires, is modified, or is revoked.
- 10.2. **Other Regulations** In addition to the specific requirements listed in this permit, the permittee must comply with all other legal requirements enforceable by the Department.
- 10.3. **Conflicting Conditions** In any instance in which there is an apparent conflict relative to conditions in this permit, the most stringent conditions apply.
- 10.4. **Masking of Emissions** The permittee must not cause or permit the installation of any device or use any means designed to mask the emissions of an air contaminant that causes or is likely to cause detriment to health, safety, or welfare of any person or otherwise violate any other regulation or requirement.
- 10.5. **Department Access** The permittee must allow the Department's representatives access to the plant site and pertinent records at all reasonable times for the purposes of performing inspections, surveys, collecting samples, obtaining data, reviewing and copying air contaminant emissions discharge records and conducting all necessary functions related to this permit in accordance with ORS 468-095.
- 10.6. **Permit Availability** The permittee must have a copy of the permit available at the facility at all times.
- 10.7. **Open Burning** The permittee may not conduct any open burning except as allowed by OAR 340 Division 264.
- 10.8. **Asbestos** The permittee must comply with the asbestos abatement requirements in OAR 340, Division 248 for all activities involving asbestos-containing materials, including, but not limit to, demolition, renovation, repair, construction, and maintenance.

10.9. Property Rights The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

- 10.10. Permit Expiration**
- a. A source may not be operated after the expiration date of the permit, unless any of the following occur prior to the expiration date of the permit:
 - i. a timely and complete application for renewal or for an Oregon Title V Operating Permit has been submitted, or
 - ii. another type of permit (ACDP or Oregon Title V Operating Permit) has been issued authorizing operation of the source.

 - b. For a source operating under an ACDP or Oregon Title V Operating Permit, a requirement established in an earlier ACDP remains in effect notwithstanding expiration of the ACDP, unless the provision expires by its terms or unless the provision is modified or terminated according to the procedures used to establish the requirement initially.

10.11. Permit Termination, Revocation, or Modification The Department may modify or revoke this permit pursuant to OAR 340-216-0082 and 340-216-0084.

11.0 ABBREVIATIONS, ACRONYMS, AND DEFINITIONS

ACDP	Air Contaminant Discharge Permit	NSR	New Source Review
ASTM	American Society for Testing and Materials	O ₂	oxygen
AQMA	Air Quality Maintenance Area	OAR	Oregon Administrative Rules
calendar year	The 12-month period beginning January 1st and ending December 31st	ORS	Oregon Revised Statutes
CFR	Code of Federal Regulations	O&M	operation and maintenance
CO	carbon monoxide	Pb	lead
DEQ	Oregon Department of Environmental Quality	PCD	pollution control device
dscf	dry standard cubic foot	PM	particulate matter
EPA	US Environmental Protection Agency	PM ₁₀	particulate matter less than 10 microns in size
FCAA	Federal Clean Air Act	ppm	part per million
gal	gallon(s)	PSD	Prevention of Significant Deterioration
gr/dscf	grains per dry standard cubic foot	PSEL	Plant Site Emission Limit
HAP	Hazardous Air Pollutant as defined by OAR 340-244-0040	PTE	Potential to Emit
I&M	inspection and maintenance	RACT	Reasonably Available Control Technology
lb	pound(s)	scf	standard cubic foot
MMBtu	million British thermal units	SER	Significant Emission Rate
NA	not applicable	SIC	Standard Industrial Code
NESHAP	National Emissions Standards for Hazardous Air Pollutants	SIP	State Implementation Plan
NO _x	nitrogen oxides	SO ₂	sulfur dioxide
NSPS	New Source Performance Standard	Special Control Area	as defined in OAR 340-204-0070
		VE	visible emissions
		VOC	volatile organic compound
		year	A period consisting of any 12-consecutive calendar months



State of Oregon
Department of
Environmental
Quality

Completeness Determination Checklist

The application must include the elements specified below.

PAGE NUMBERING

Page numbering for each individual answer sheet should be completed as "Page X of Y."

Once all answer sheets are completed and the application has been collated according to the table on page XX of the *Application Guidebook*, page numbering for all pages in the application should be completed *sequentially*, from 1 to XXX. Page numbers should be in the lower right hand corner of each page of the application (beneath any existing answer sheet-specific page numbers automatically provided). For example, the first page of Form AP101 is automatically numbered Page 1 of 2; upon collation of the complete application, the applicant should manually number this page 1 of the application.

Once page numbering is completed as described above, on the line provided next to each item below, identify on what pages of the completed application the following required information can be found.

IDENTIFYING INFORMATION

Location in Application	Information
4	Identifying information, including company name and mailing address, facility name and location address if different from the company name; owner's name and agent; and telephone number and name of site manager/contact. [Form AP101]
5, 11	A description of the facility's processes and products (by SIC Code) for each operating scenario and related flow chart(s). [Form AP102]
7 - 8	A plot plan showing the location of all emissions units identified by UTM and the nearest residential or commercial property.

EMISSIONS INFORMATION

The following emissions-related information for **ALL** requested alternative operating scenarios:

Location in Application	Information
45-54	Identification and description of all emissions units. [EU500 Forms]
63	Emissions of pollutants listed in OAR 340-244-0040. [Form ED606]
59-61, 69-82	Emissions rates in tons per year and in such terms as are necessary to establish compliance consistent with the applicable standard reference test method and to establish PSELs for all regulated air pollutants (except as restricted by OAR 340-222-0060 and 340-222-0070). Include information to substantiate a request that a period longer than hourly be used for the short term PSEL where short term PSELs are required. Calculations on which the emissions information is based. [Forms ED603, ED604, and ED605]
NA	Information necessary to establish any alternative emission limit in accordance with OAR 340-226-0400, if the permit applicant requests one.
55-57	A list of all categorically insignificant activities. [Form ED601]
58	A list of all insignificant activities which are designated insignificant because of non-exempt insignificant mixture usage or aggregate insignificant emission levels and an estimate of all emissions of regulated air pollutants from those activities. [Form ED602]

Completeness Determination Checklist

Location in Application	Information
12-14	A list of fuel types, fuel sulfur content, and fuel use. [DV200 Forms]
5, 9	A list of raw materials, production rates, and operating schedules. [Forms AP102 and AP103]
17	Identification and description of air pollution control equipment, including estimated efficiency of the control equipment. [CD300 Forms]
NA	Limitations on facility operation affecting emissions or any work practice standards, where applicable, for all regulated air pollutants.
NA	Information related to stack height limitations developed pursuant to OAR 340-212-0130.

MONITORING INFORMATION

The following monitoring, recordkeeping, and reporting requirements:

Location in Application	Information
89-94	All emissions monitoring and analysis procedures or test methods required under the applicable requirements. [CP700 Forms]
NA	Compliance Assurance Monitoring (CAM) protocols. [Form CP709]
89-94	Proposed periodic monitoring to determine compliance where an applicable requirement does specify testing or monitoring requirements. [CP700 Forms]
89-95	The proposed use, maintenance, and installation of monitoring equipment or methods, as necessary. [CP700 Forms]
NA	Proposed consolidation of reporting requirements, where possible.
NA	A proposed schedule of submittal of all reports.

COMPLIANCE INFORMATION

A compliance plan that contains the following:

Location in Application	Information
18-34	Citation and description of all applicable requirements (see Applicable Requirements Checklist, Form AR401).
45-54	Description of the compliance status of the facility with respect to all applicable requirements. [EU500 Forms]
45-54	Statement of methods used for determining compliance with all applicable requirements, including a description of monitoring, recordkeeping, and reporting requirements and test methods. [EU500 Forms]
4	For applicable requirements with which the facility is in compliance, a statement that the owner/operator will continue to comply with such requirements. [Form AP101]
4	For applicable requirements that will become effective during the permit term, a statement that the owner/operator will meet such requirements on a timely basis, unless a more detailed schedule is expressly required by the applicable requirement. [Form AP101]

Completeness Determination Checklist

Location in Application	Information
NA	For requirements for which the facility is not in compliance at the time of permit issuance, a narrative description of how the owner/operator will achieve compliance with such requirements.
NA	Proposed schedule of compliance for facilities not in compliance with all applicable requirements at the time of permit issuance including a schedule of remedial measures, an enforceable sequence of actions with milestones, and interim measures to be taken by the owner/operator to minimize the amount of excess emissions during the scheduled period.
NA	Proposed schedule for submission of certified progress reports no less frequently than every 6 months for sources required to have schedule of compliance to remedy a violation.
NA	The acid rain portion of a compliance plan for an affected source, except as specifically superseded by regulations promulgated under Title IV of the FCAA.
NA	Proposed schedule for submission of compliance certifications during the permit term.
4	Certification of compliance with all applicable requirements by a responsible official. [Form AP101]

OTHER INFORMATION

Location in Application	Information
96-106	Copy of any existing air quality permit with identification of which permit conditions the permittee believes are no longer applicable. Information supporting a request that DEQ make a determination that an existing permit term or condition is no longer applicable.
NA	Information necessary for DEQ to define permit terms and conditions implementing emissions trading under the PSEL if the applicant requests such trading. Information shall include provisions to ensure any emissions trading is quantifiable, accountable, enforceable, and based on replicable procedures.
NA	Information necessary for DEQ to define permit terms and conditions implementing emissions trading, to the extent that applicable requirements provide for trading without a case-by-case approval of each emissions trade if the applicant request such trading.
NA	Information necessary for the DEQ to define permit terms and conditions implementing alternative emission limits established in accordance with OAR 340-28-1030, if the applicant request such alternative emission limit. Information shall include provisions to ensure that any resulting emissions limit is quantifiable, accountable, enforceable, and based on replicable procedures.
NA	For permit renewals, information necessary for DEQ to define permit terms and conditions implementing off-permit changes.
NA	For permit renewals, information necessary for DEQ to define permit terms and conditions implementing section 502(b)(10) changes.
NA	An explanation of any proposed exemptions from otherwise applicable requirements.
NA	A Land Use Compatibility Statement (LUCS), if the facility is new, if the facility boundaries have increased, or if there is an increase of emissions greater than the Plant Site Emission Limits.
NA	The use of nationally-standardized forms for acid rain portions of permit applications and compliance plans, as required by regulations promulgated under Title IV of the FCAA.

Completeness Determination Checklist

Location in Application	Information
NA	For permit renewal, the facility may identify information in previous permit application for emissions units that are unchanged by submitting a copy of the current permit showing no changes to the applicable requirements.

STATEMENT OF CERTIFICATION

Location in Application	Information
4	Certification by a responsible official of truth, accuracy, and completeness. [Form AP101]