

### STATIONARY SOURCE COMMITTEE MEETING

**Committee Members** 

Mayor Ben Benoit, Chair Dr. Joseph Lyou, Vice Chair Mayor Pro Tem Judith Mitchell Supervisor V. Manuel Perez Supervisor Janice Rutherford Supervisor Hilda L. Solis

### October 19, 2018 10:30 a.m. CC8 21865 Copley Dr., Diamond Bar, CA 91765

### **TELECONFERENCE LOCATIONS**

Kenneth Hahn Hall of Administration 500 W. Temple Street Room 493-A Los Angeles, CA 90012 8575 Haven Ave., Suite 110 Rancho Cucamonga, CA 91730

73710 Fred Waring Drive Suite 222 Palm Desert, CA 92260

### (The public may attend at any location listed above.)

Call-in for listening purposes only is available by dialing: Toll Free: 866-244-8528 Listen Only Passcode: 5821432 In addition, a webcast is available for viewing and listening at: <u>http://www.aqmd.gov/home/library/webcasts</u>

### AGENDA

Members of the public may address this body concerning any agenda item before or during consideration of that item (Gov't. Code Section 54854.3(a)). Please provide a Request to Address the Committee card to the Committee Secretary if you wish to address the Committee on an agenda item. If no cards are available, please notify SCAQMD staff or a Board Member of your desire to speak. All agendas for regular meetings are posted at District Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of the regular meeting. Speakers may be limited to three (3) minutes each.

### CALL TO ORDER

### **INFORMATIONAL ITEMS – Items 1-4**

- 1. Update on Proposed Amended Rule 1469 Hexavalent (20 mins.)
   Susan Nakamura,

   Chromium Emissions from Chromium Electroplating and Chromic
   Assistant Deputy

   Acid Anodizing Operations (No Motion Required)
   Executive Officer

   Staff will address stakeholder comments made at the September Public Hearing.
   Executive Officer

   If the Stationary Source Committee concurs, staff is recommending to proceed
   with a Public Hearing for PAR 1469 in November.

   (Written Material Attached)
   Written Material Attached
- Proposed Amended Rules 1146 Emissions of Oxides of (15 mins.) Tracy Goss, Nitrogen from Industrial, Institutional and Commercial Boilers, Steam Generators, and Process Heaters; 1146.1 - Emissions of Oxides of Nitrogen from Small Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters; 1146.2 - Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers and Process Heaters; and Proposed Rule 1100 - Implementation Schedule for NOx Facilities (*No Motion Required*) Staff will provide a briefing on Proposed Amended Rules 1146, 1146.1, 1146.2, and Proposed Rule 1100 and the key issues raised by stakeholders. (*Written Material Attached*)

3. Proposed Rule 1118.1 – Control of Emissions from (15 mins.) Michael Krause, Non-Refinery Flares (No Motion Required) Manager
 Proposed Rule 1118.1 will reduce emissions and encourage alternatives to flaring for non-refinery flares located at landfills, wastewater treatment plants, oil and gas production facilities, organic liquid loading stations, and tank farms. (Written Material Attached)

**RECLAIM Quarterly Report – 3rd Update** (15 mins.) Susan Nakamura (*No Motion Required*)
 Staff will provide an update on the transition of NOx RECLAIM facilities to a command-and-control regulatory structure. (*Written Material Attached*)

### WRITTEN REPORTS – Item 5-6

- 5. Notice of Violation Penalty Summary (No Motion Required)
   This report provides the total penalties settled in September 2018 which includes
   Civil, Supplemental Environmental Projects, Mutual Settlement Assessment
   Penalty Program, Hearing Board and Miscellaneous.
   (Written Material Attached)
- 6. Twelve-month and Three-month Rolling Price of 2017 and 2018 ComplianceLaki Tisopulos,<br/>Deputy ExecutiveYears RTCs (No Motion Required)Deputy ExecutiveThe attached quarterly report summarizes the twelve-month and three-month<br/>rolling average prices of NOx and SOx RTCs.<br/>(Written Material Attached)Officer

### **OTHER MATTERS**

### 7. Other Business

Any member of the Committee, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, may make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Gov't. Code Section 54954.2)

### 8. Public Comment Period

At the end of the regular meeting agenda, an opportunity is provided for the public to speak on any subject within the Committee's authority that is not on the agenda. Speakers may be limited to three (3) minutes each.

### 9. Next Meeting Date: November 16, 2018

### ADJOURNMENT

### Americans with Disabilities Act

The agenda and documents in the agenda packet will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't. Code Section 54954.2(a)). Disability-related accommodations will also be made available to allow participation in the Stationary Source Committee meeting. Any accommodations must be requested as soon as practicable. Requests will be accommodated to the extent feasible. Please contact Ryan Stromar at (909)396-2637 from 7:30 a.m. to 6:00 p.m., Tuesday through Friday, or send the request to rstromar@aqmd.gov.

#### **Document Availability**

All documents (i) constituting non-exempt public records, (ii) relating to an item on an agenda for a regular meeting, and (iii) having been distributed to at least a majority of the Committee after the agenda is posted, are available prior to the meeting for public review at the South Coast Air Quality Management District, Public Information Center, 21865 Copley Drive, Diamond Bar, CA 91765.

Item #1

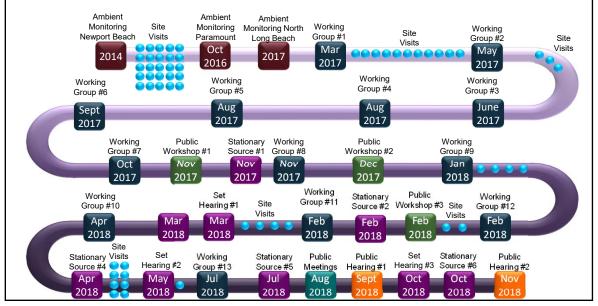
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## Proposed Amended Rule 1469

Hexavalent Chromium Emissions from Chromium Electroplating and Chromic Acid Anodizing

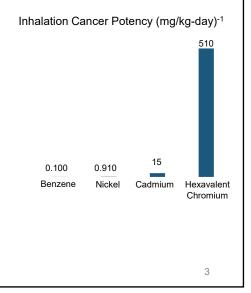
> Stationary Source Committee October 19, 2018

# **Extensive Rulemaking Process**



### Health Concerns of Hexavalent Chromium

- Hexavalent chromium is a known human carcinogen
- One of the most potent toxic air contaminants orders of magnitude higher than other compounds
- Hexavalent chromium, even in very small quantities, can present high risks
- High emitting, unregulated tanks can significantly impact surrounding communities





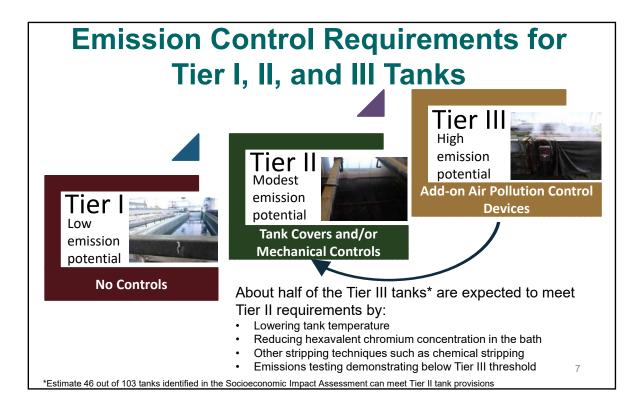
Objective of PAR 1469 is to address issues found when monitoring near chromic acid anodizing facilities – Air pollution controls needed

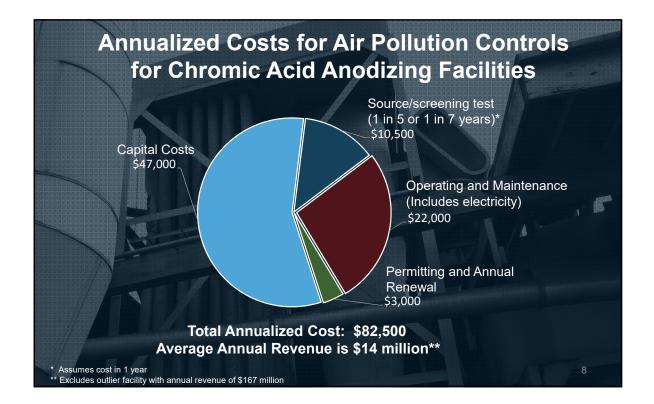
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About 30 chromic acid anodizing facilities have unregulated Tier III Tanks that need air pollution controls









### Stationary Source Committee April 2018

- 13 facilities\* provided testimony
  - Overall concern was compliance costs and job impacts
- Staff reached out to each facility to better understand specific issues
- Staff met or had a phone call with 11 of the 13 facilities to discuss their concerns
  - 2 facilities either declined or could not meet with staff

\* 28 people, some facilities had multiple commenters

AAA Size



April 20 <sup>th</sup> Stationary Source Committee Meeting						
Facility	# People Testified	SCAQMD Staff Follow-up				
A Plating	1	No Meeting*				
e Control Plating	2	Site Visit	] .	Summary of		
E	5	Site Visit		Specific Issues		
neral/Brite Plating	5	Site Visit		Source testing		
omal Plating	2	Site Visit		frequency		

EME	5	Site Visit		Specific Issues
General/Brite Plating	5	Site Visit		Source testing
Chromal Plating	2	Site Visit		frequency
Aircraft X-Ray	3	Site Visit		Building
Pico Rivera Plating	1	Phone Call		enclosure
Gardena Specialized Plating	2	Site Visit		provisions
Bowman Plating	2	Site Visit		Compressed air
California Electroplating	1	No Response	] /	cleaning
Metal Surfaces Inc	2	Met with Facility		requirement
Aviation and Repair Solutions	1	Met with Facility	]	<ul> <li>Clarifications</li> </ul>
Quaker City Plating	1	Site Visit	]	
* Scheduling conflict		*	-	

# July 2018 PAR 1469 Revisions



Based on annual amp-hours

Allow use of large equipment or structure to eliminate cross-

# **Industry Comments at** September 7<sup>th</sup> Public Hearing

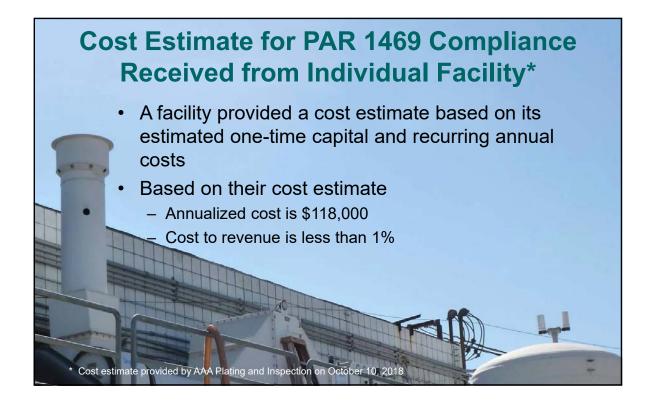
- Representatives from 7 facilities commented - General comments about cost
- 3 of the facilities commented that
  - PAR 1469 would impact the future of their business and job impacts
- Rules staff visited all 3 facilities in April
  - July revision incorporated changes to address their issues 12

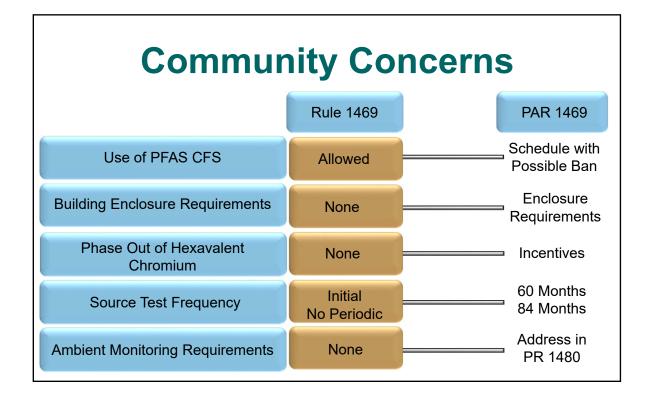
September Public Hearing						
Facility	Testified at April Stationary Source	Testified at Sept Public Hearing	Concerned About Future of Their Business			
AAA Plating	Yes	Yes				
Size Control Plating	Yes					
EME	Yes	Yes				
General/Brite Plating	Yes	Yes	Yes			
Chromal Plating	Yes					
Aircraft X-Ray	Yes	Yes	Yes			
Pico Rivera Plating	Yes					
Gardena Specialized Plating	Yes					
Bowman Plating	Yes					
California Electroplating	Yes					
Metal Surfaces Inc	Yes	Yes	Yes			
Aviation and Repair Solutions	Yes					
Quaker City Plating	Yes					
Anaplex Corporation		Yes				
Metal Finishing Marketers, Inc.		Yes				

### **Cost to Revenue for 3 Facilities**

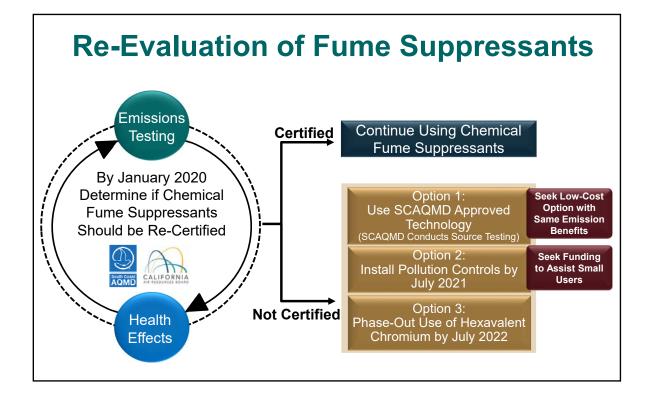
Facility	Annual Revenue <sup>1</sup>	SCAQMD Annual Cost <sup>2</sup>	SCAQMD Cost to Revenue Ratio
1	\$24,000,000	\$3,200	0.01%
2	\$7,500,000	\$24,000	0.32%
3	\$11,500,000	\$97,000	0.83%

<sup>1</sup> Revenue data from Dun and Bradstreet
 <sup>2</sup> High Cost Scenario in Socioeconomic Impact Assessment, based on available data from facility survey data





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Item #2

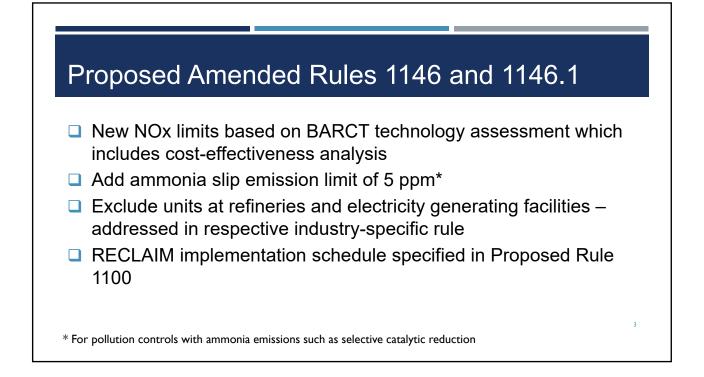
# PROPOSED AMENDED RULES 1146, 1146.1, 1146.2 & PROPOSED RULE 1100

STATIONARY SOURCE COMMITTEE OCTOBER 19, 2018

### Background

- Proposed Amended Rules 1146, 1146.1, and 1146.2 apply to boilers, process heaters, and steam generators
- □ Proposed amendments implement:
  - 2016 AQMP CMB-05 (Further NOx Reductions from RECLAIM Assessment)
  - Best Available Retrofit Control Requirements (BARCT) for facilities in the state greenhouse gas cap and trade program by December 31, 2023, consistent with AB 617 requirements

Rule	Applicability	Size	
Rule 1146	Boilers, steam generators, and process heaters	≥ 5 million Btu per hour	
Rule 1146.1	Boilers, steam generators, and process heaters	>2 and <5 million Btu per hour	
Rule 1146.2	Natural gas-fired water heaters, boilers, and process heaters	≤ 2 million Btu per hour	



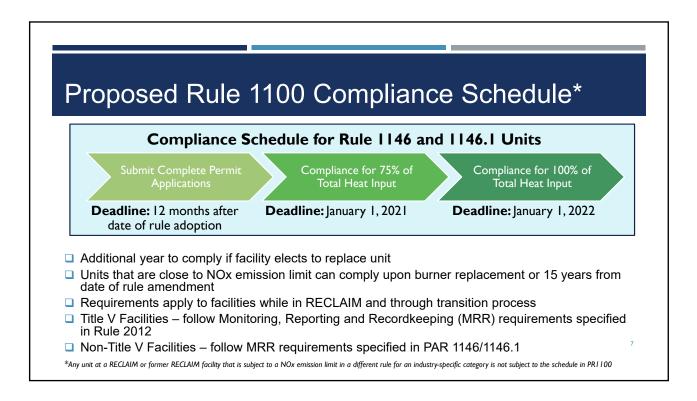
Proposed	NOx En	nission Limits –	PAR 1146
Category	Current Limit	Proposed Limit	Cost Effectiveness (\$/Ton)
≥5 to <20 MMBtu/hr	9 ppmv	7 ppmv (Fire-tube) 9 ppmv (Others)	<\$10,000 <sup>*</sup> to \$27,000 <sup>^</sup>
		If >12 ppmv, then 5 ppmv	\$36,000^
≥20 to <75 MMBtu/hr	9 ppmv	If ≤12 ppmv, then 7 ppmv (Fire-tube) & 9 ppmv (Others)	\$11,000 <sup>*</sup>
≥75 MMBtu/hr	5 ppmv	Same	\$16,000^
Atmospheric ≥ 5 to ≤10 MMBtu/hr)	12 ppmv	Same	\$28,000+
Thermal Fluid Heater (≥ 5 MMBtu/hr)	30 ppmv	I2 ppmv	\$36,000+
Landfill Gas Fired (≥ 5 MMBtu/hr)	25 ppmv	20 ppmv	\$35,000
Digester Gas Fired (≥ 5 MMBtu/hr)	15 ppmv	Same	N/A

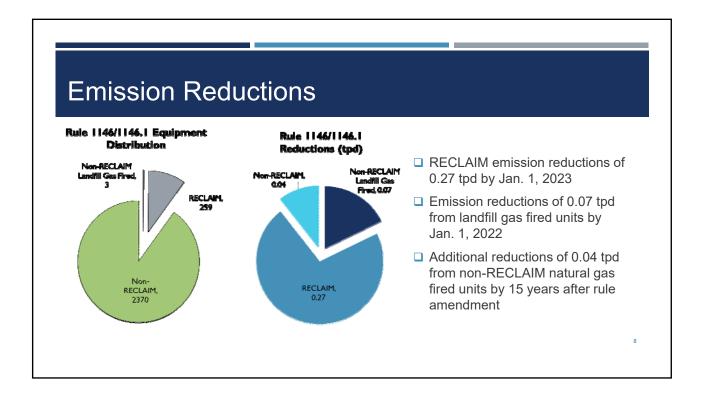
\* Compliance until burner replacement or 15 yrs after amendment \* Estimated assuming 20% operating capacity and a baseline of 30 ppm ^ Estimated using emissions from RECLAIM units

oposed NO.	x Emissior	n Limits - I	PAR 1146.1
Category	Current Limit	Proposed Limits	Cost Effectiveness (\$/Ton)
>2 to <5 MMBtu/hr	9 рртv	7 ppmv (Fire-tube) 9 ppmv (Others)	<\$10,000 <sup>*</sup> to \$36,000 <sup>^</sup>
Atmospheric (>2 to <5 MMBtu/hr)	I2 ppmv	Same	\$28,000+
Thermal Fluid Heater (>2 to <5 MMBtu/hr)	30 ppmv	I2 ppmv	\$36,000+
Landfill Gas Fired (>2 to <5 MMBtu/hr)	25 ppmv	20 ppmv	N/A
Digester Gas Fired (>2 to <5 MMBtu/hr)	15 ppmv	Same	N/A

### Proposed Amended Rule 1146.2

- No changes to NOx concentration limit of 30 ppm at this time
- Commitment to conduct a technology assessment by January 1, 2022
  - If BARCT is the same as existing rule requirements (30 ppm), compliance by December 31, 2023
  - If BARCT is less than 30 ppm, a new compliance schedule will be developed
- Any unit at a RECLAIM or former RECLAIM facility that is subject to a NOx emission limit in a different rule for an industry-specific category is exempt from Rule 1146.2



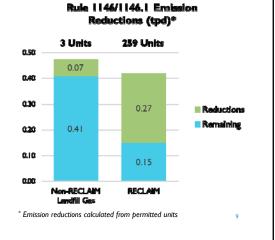


### Key Remaining Issues – Landfill Gas Fired Units

Comment: Landfill gas fired equipment will not be able to meet the proposed limit of 20 ppm and it will not be cost-effective to retrofit

#### Response:

- Landfill gas fired units located in other districts (< 40 MMbtu/hr) are permitted at 9-15 ppm</li>
- Source test results support lowering BARCT to 20 ppm is feasible
- Baseline emissions from 3 landfill gas fired units are higher than baseline emissions from 259 RECLAIM units
- Cost-effectiveness is approximately \$35,000/ton



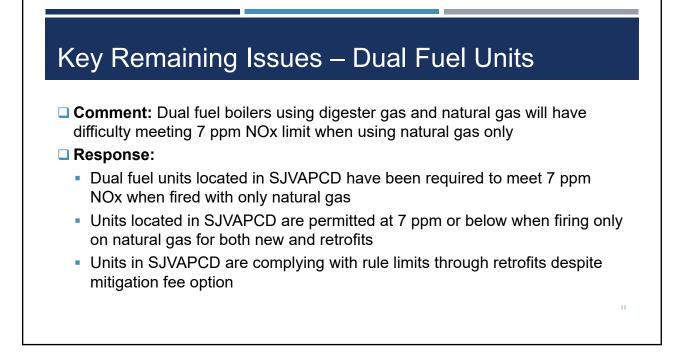
### Key Remaining Issues – New Source Review

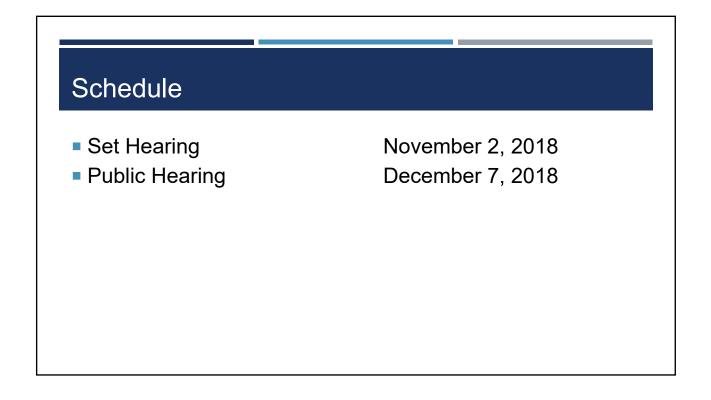
Comment: Transition rules should not proceed without resolution of new source review (NSR) issues

#### Response:

- State law (AB 617) requires implementation of BARCT for facilities in the state greenhouse gas cap and trade program by December 31, 2023
- RECLAIM facilities can begin implementing BARCT requirements while in RECLAIM
- Rule 2002 provides an option for facilities to remain in RECLAIM for a limited time until future provisions in Regulation XIII pertaining to NSR are adopted

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## PROPOSED RULE 1118.1 Control of Emissions From Non- Refinery Flares

Stationary Source Committee October 19, 2018



### **Background**

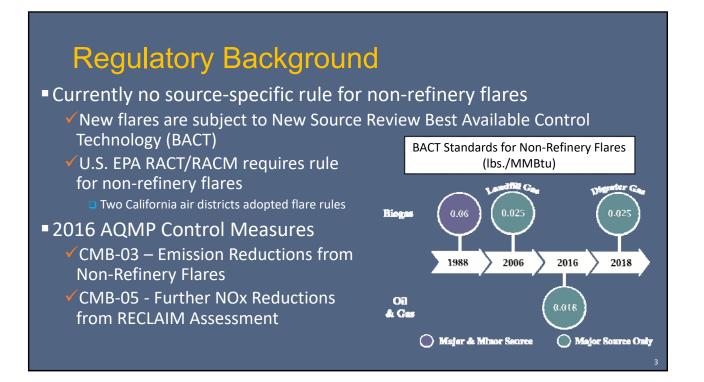
- Gas is produced from landfills, waste water treatment, oil extraction, and bulk liquid handling
  - ✓ Primarily composed of methane and other VOCs/air toxics
- Some gas is used for beneficial purposes:
  - Energy production
  - ✓ Pipeline injection
  - ✓ Transportation fuel
- Flares are used to combust methane and VOCs to reduce emissions but they result in NOx emissions





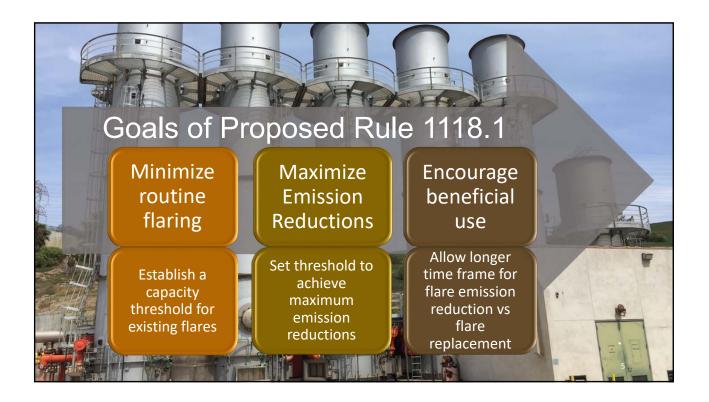






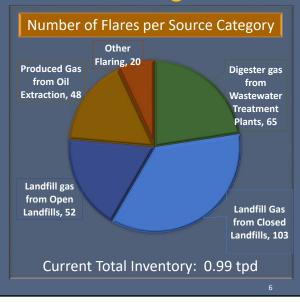
### Rule Development – Initiated April 2017

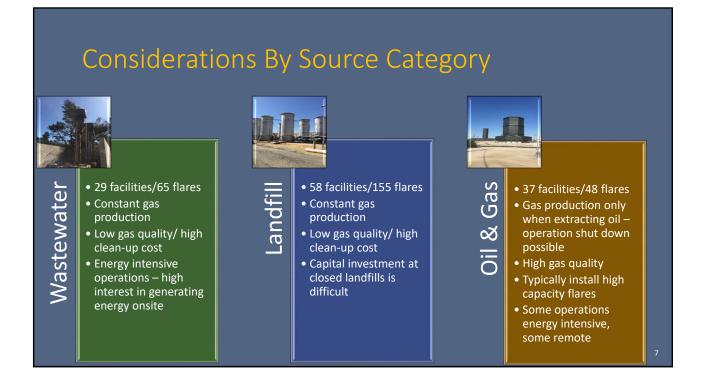




### Affected Facilities and Source Categories

- 146 facilities with total of 288 flares
- Landfills have the greatest number of flares, gas throughput, and NOx emissions
- "Other flaring" includes organic liquid handling:
  - Loading and unloading of marine vessels, trucks and railcars
  - ✓ Tank farms and tank degassing



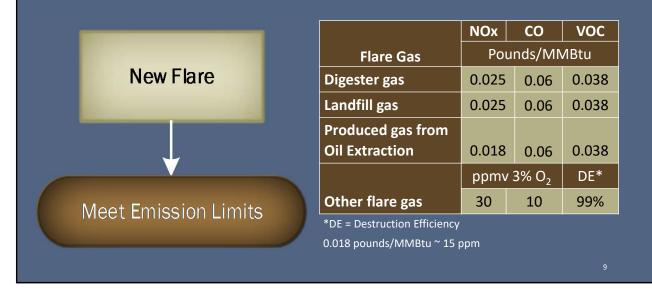


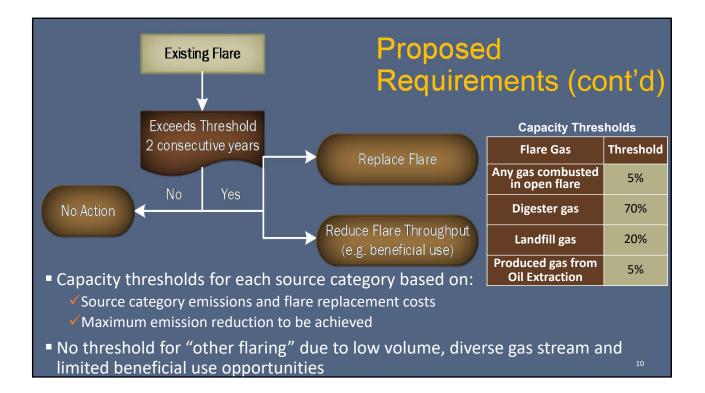
### General Approach for PR 1118.1

- Different provisions for new and existing flares
- Designed to:
  - Provide compliance options that encourage beneficial use rather than flare replacement
    - Extended timeframe for flare reduction (e.g. increased beneficial use)
  - Accounts for different operational constraints for different source categories
  - Cost-effective by design



### **Proposed Requirements**





### **Other Rule Requirements**

### Source Testing

- Every 5 years to be consistent with current industry requirements
- ✓ Required for flare subject to emission limit or low-emitting exemption
- Monitoring, Recordkeeping, and Reporting
  - ✓ Fuel meters required for flares with capacity threshold
  - Monitor throughput and percent capacity on monthly basis

### Exemptions

- ✓ Low-use and low-emitting
- ✓ Closed landfills generating less than 2,000 MMscf/year
- ✓ Flares subject to other district rules

### **Existing Flares**

	Inven	tory	Potentially Impacted Flares			
Gas Flared	# of Flares	NOx (tpd)	# of Flares	Reductions (tpd)		
Digester Gas	65	0.08	1	0.01		
Landfill Gas	155	0.84	19	0.18		
Produced Gas from Oil Extraction	48	0.05	5	0.01		
Other Flare Gas	20	0.02	0	0		
TOTAL	288	0.99	25	0.20		

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### **Potentially Affected Flares**

#### Greatest number at landfills

- Majority of gas flared occurs at landfills
- Cost effective due to potential emission reductions

#### Cost of flares

- Higher cost per flare at wastewater treatment plants and landfills
- Low emission reduction potential at wastewater treatment resulted in high capacity threshold

#### Beneficial Use

• All source categories utilizing beneficial use to some extent, especially for energy intensive operations (wastewater treatment and oil extraction)

#### 0.2 tpd NOx reduction is substantial

- ~40 tpd NOx inventory in SCAQMD excluding mobile and residential (2023 inventory)
- Current inventory based on 2015 2017 usage
  - Rule will have increased benefits in the future given potential growth in industry (e.g. increased price of oil)

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### Key Concerns

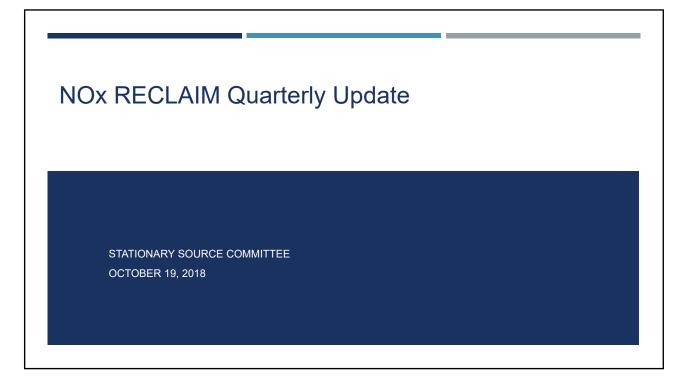
Comment	Response
<ul> <li>Allow higher emitting flares</li></ul>	<ul> <li>Rule seeks to achieve maximum emission</li></ul>
(0.06 lb/MMBtu) at <i>minor source</i>	reductions at all facilities; existing flares at
wastewater treatment plant	some minor sources meet proposed limit
<ul> <li>Small facilities or facilities with small</li></ul>	<ul> <li>Rule does not require flare replacement, other</li></ul>
flares likely to exceed thresholds could	options may be more cost effective; rule
be fiscally burdened	provides opportunity for long term planning
<ul> <li>Not enough incentive for oil and gas facilities to change to beneficial use</li> </ul>	<ul> <li>Low-NOx flares emit 50% less emissions; growing interest in replacing flare by utilizing gas beneficially</li> </ul>

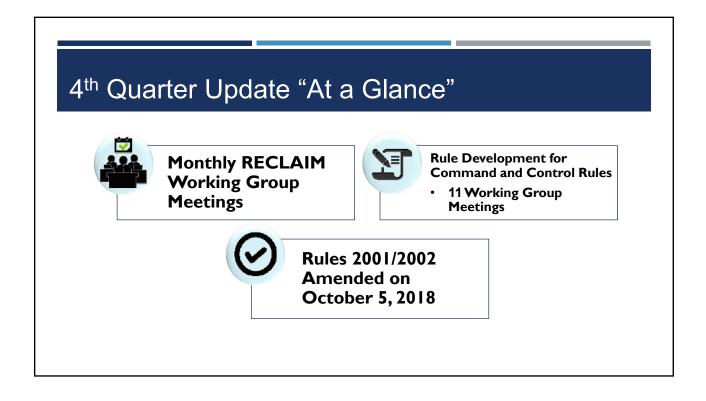


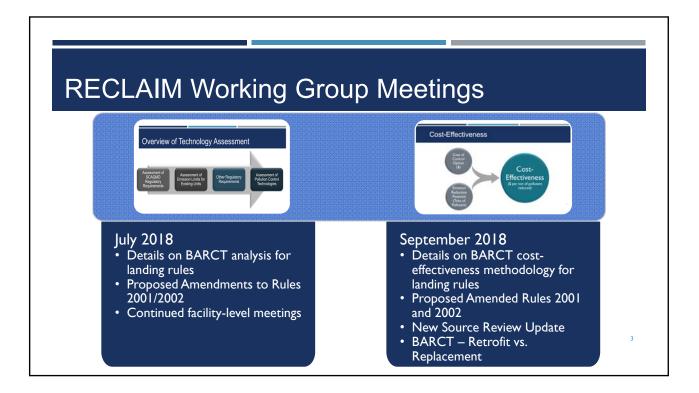
1 Back to Agenda

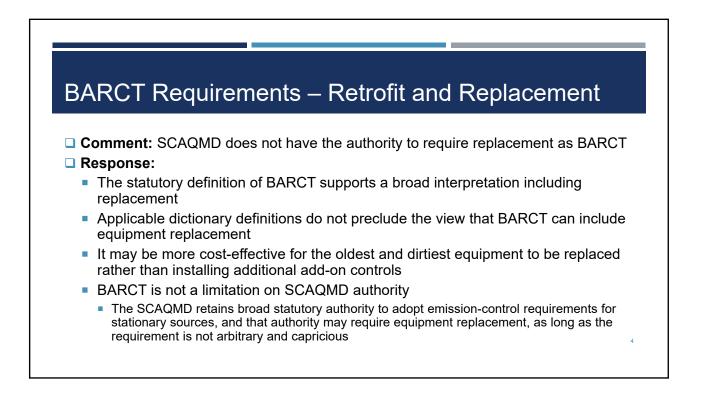
### 10/12/2018

Item #4



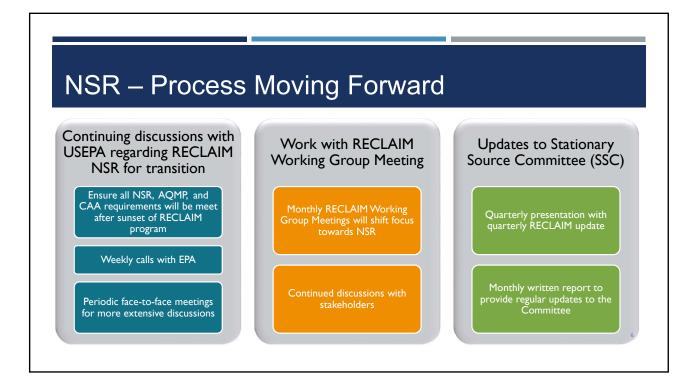






### Summary of Key New Source Review (NSR) Issues

- Options for offsets for NSR events post RECLAIM
  - Source of offsets open market, internal bank, RECLAIM NSR
- Accounting of RTCs for NSR actions that occurred during RECLAIM
- Ensure mechanisms in place to establish a Potential to Emit to ensure future NSR events
- Other demonstrations
  - SB 288 offset program is at least as stringent in aggregate
  - Clean Air Act §110(I) Prohibition on Backsliding



### Command-and-Control BARCT Rulemaking Status

#### PAR 1146, 1146.1 and 1146.2



Boilers, steam generators, and heaters
7<sup>th</sup> Working Group Meeting: October 16, 2018
Public Hearing: December 2018

PR 1118.1

**Non-Refinery Flares** 

Public Workshop:

October 17, 2018

Public Hearing:

December 2018

PAR 1134



Gas Turbines

- Public Workshop: November 2018
- Public Hearing: 2019

#### PAR 1135



Electrical Generating Facilities

- Set Hearing: October 5, 2018
- Public Hearing: November 2, 2018

#### **Command-and-Control BARCT Rulemaking Status** PR 1109.1 PAR 1110.2 **PR 113** Gaseous- and Liquid-Fueled Monitoring, Reporting, and Refineries Engines Recordkeeping Draft Request for Proposal for • · Initiated site visit, more to be third party verification of Integrated MRR requirements for: BARCT analysis: scheduled Former RECLAIM Administrative Committee: November 9, 2018 · Sent survey questionnaire Possibly non-RECLAIM • Public Workshop: 4th Quarter • Initiated preliminary analysis Governing Board Approval Release December 7, 2018 • Comparing District and Federal 2018 Continuing site visits Public Hearing: 1st Quarter requirements • 2019 • Public Hearing: 2019 Conducted three site visits

### **On-Going Efforts and Next Steps**

Monthly meetings of RECLAIM Working Group

Continue rulemaking activities

Individual facility meetings

Continue work on working with USEPA, CARB and stakeholders on addressing NSR issues

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### DISTRICT'S RULES AND REGULATIONS INDEX FOR SEPTEMBER 2018 PENALTY REPORT

Item #5

#### **REGULATION II - PERMITS**

- Rule 201 Permit to Construct
- Rule 203 Permit to Operate
- Rule 221 Plans

#### **REGULATION IV - PROHIBITIONS**

- Rule 401 Visible Emissions
- Rule 461 Gasoline Transfer and Dispensing
- Rule 462 Organic Liquid Loading

#### **REGULATION XI - SOURCE SPECIFIC STANDARDS**

- Rule 1148.1 Oil and Gas Production Wells
- Rule 1155 Particulate Matter Control Devices
- Rule 1173 Fugitive Emissions of Volatile Organic Compounds

#### **REGULATION XX - REGIONAL CLEAN AIR INCENTIVES MARKET (RECLAIM)**

Rule 2004 Requirements

#### **REGULATION XXX - TITLE V PERMITS**

- Rule 3002 Requirements
- Rule 3003 Applications

#### **CALIFORNIA CODE OF REGULATIONS**

13 CCR 2460 Portable Equipment Testing Requirements

### SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT General Counsel's Office

### September 2018 Settlement Penalty Report

Total Penalties	
Civil Settlements:	\$293,750.00
Settlements including SEP:	\$40,000.00
MSPAP Settlements:	\$6,475.00
Total Cash Settlements:	\$340,225.00
Total SEP Value:	\$10,000.00
Fiscal Year through 9 / 2018 Cash Total:	\$1,069,392.00
Fiscal Year through 9 / 2018 SEP Value Only Total:	\$10,000.00

Fac ID	Company Name	Rule Number	Settled Date	Init	Notice Nbr	Total Settlement
Civil Sett	lements					
800030	CHEVRON PRODUCTS CO.	3002	9/14/2018	TRB	P58242	\$160,000.00
800032	CHEVRON USA INC	3002(c)(1) 462(d)(1)(F)		TRB	P65314	\$10,000.00
19144	CORONET MFG CO INC	3002 3003		VKT	P64013	\$1,250.00
181082	DAVITA DIALYSIS	203 (a)	9/7/2018	WBW	P56738	\$4,000.00

Fac ID	Company Name	Rule Number	Settled Date	Init	Notice Nbr	Total Settlement
92901	DYNAMIC POWDER COATING	203 (a)		NSF	P58084	\$5,000.00
		1155			P58089	
					P60452	
175388	GRAND GAS, INC.	461	9/21/2018	SMP	P63215	\$6,000.00
		203			P64983	
100145	HARBOR FUMIGATION INC	3002	9/27/2018	SH	P63555	\$15,000.00
131732	NEWPORT FAB, LLC	2004	9/6/2018	DH	P56342	\$40,000.00
					P56343	
					P60573	
131732	NEWPORT FAB, LLC	2004	9/6/2018	DH	P64145	\$2,500.00
97081	THE TERMO COMPANY	1148.1	9/11/2018	NAS	P37248	\$50,000.00
		1173			P37249	
		221			P56994	
		462			P56995	
		2004			P59379	
					P59381	
					P59383	
					P60867	
					P61526	
					P62956	

### Total Civil Settlements: \$293,750.00

Fac ID	Company Name	Rule Number	Settled Date	Init	Notice Nbr	Total Settlement
Settleme	nts including SEP					
14364	CHEMICAL LIME CO SEP \$10,000 - Facility to purchase equipment by November 1, 2018	1155 203 401		MJR	P61806	\$40,000.00

### Total Settlements including SEP: \$40,000

Fac ID	Company Name	Rule Number	Settled Date	Init	Notice Nbr	Total Settlement
MSPAP S	Settlements					
167320	ANABI OIL CORP. DBA C-MINI MART, INC.	461(c)(3)(Q)	9/26/2018	GC	P70560	\$600.00
184713	EQUITY RESIDENTIAL (HESBY)	203	9/11/2018	GC	P65152	\$200.00
183372	H & M INC DBA ARCO OF FULLERTON	461	9/11/2018	GC	P64982	\$650.00
800428	LAMPS PLUS INC/ PACIFIC COAST LIGHTING	3002(c)(1)	9/27/2018	TF	P66764	\$500.00
179343	MOTORS PETROLEUM INC	461	9/27/2018	TF	P66351	\$850.00
121344	NO. ORANGE CTY COMMUNITY COLLEGE DIST.	461(c)(3)(Q)	9/27/2018	TF	P71028	\$200.00
34300	PIERCE BROTHERS INC SCI CALIF FUNERALS	201 203 (a)		TF	P68201	\$1,600.00
186766	RANCHO CALIFORNIA LANDSCAPING, INC.	203	9/27/2018	TF	P67653	\$800.00
160732	THRIFTY TREE SERVICE INC	PERP 2460	9/27/2018	TF	P66754	\$275.00
123861	VERIZON WIRELESS, JOHNSTONE PEAK	203 (a)	9/27/2018	TF	P65381	\$800.00

Total MSPAP Settlements: \$6,475.00

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Item #6



### Twelve-Month and Three-Month Rolling Average Price of Compliance Years 2017 and 2018 NOx and SOx RTCs

October 2018 Quarterly Report to Stationary Source Committee

### Table I

Twelve-Month Rolling Average Price Data for Compliance Year 2017 NOx RTCs (Report to Governing Board if rolling average price greater than \$22,500/ton)

Twelve-Month Rolling Average Price Data for Compliance Year 2017 NOx RTC							
Reporting Month	12-Month Period	Total Volume Traded with Price During Past 12-month (tons)	Total Price of Volume Traded During Past 12-month (\$)	Number of Trades with Price	Rolling Average Price <sup>1</sup> (\$/ton)		
Jan-17	Jan-16 to Dec-16	69.7	\$460,621	9	\$6,606		
Feb-17	Feb-16 to Jan-17	94.7	\$610,693	11	\$6,446		
Mar-17	Mar-16 to Feb-17	82.2	\$573,193	10	\$6,970		
Apr-17	Apr-16 to Mar-17	125.3	\$824,493	12	\$6,581		
May-17	May-16 to Apr-17	113.8	\$741,828	15	\$6,519		
Jun-17	Jun-16 to May-17	113.8	\$741,828	15	\$6,519		
Jul-17	Jul-16 to Jun-17	134.4	\$867,079	22	\$6,450		
Aug-17	Aug-16 to Jul-17	144.8	\$920,041	29	\$6,355		
Sep-17	Sep-16 to Aug-17	150.4	\$955,120	35	\$6,351		
Oct-17	Oct-16 to Sep-17	151.2	\$956,005	36	\$6,323		
Nov-17	Nov-16 to Oct-17	252.8	\$1,345,772	55	\$5,324		
Dec-17	Dec-16 to Nov-17	267.1	\$1,376,674	58	\$5,155		
Jan-18	Jan-17 to Dec-17	305.1	\$1,276,006	57	\$4,182		
Feb-18	Feb-17 to Jan-18	693.2	\$1,888,755	94	\$2,724		
Mar-18	Mar-17 to Feb-18	743.6	\$1,991,269	111	\$2,678		
Apr-18	Apr-17 to Mar-18	705.6	\$1,746,469	110	\$2,475		
May-18	May-17 to Apr-18	766.5	\$1,993,214	127	\$2,600		
Jun-18	Jun-17 to May-18	778.0	\$2,050,015	129	\$2,635		
Jul-18	Jul-17 to Jun-18	826.8	\$2,091,914	128	\$2,530		
Aug-18	Aug-17 to Jul 18	875.7	\$2,143,688	138	\$2,448		

Twelve-Month Rolling Average Price Data for Compliance Year 2017 NOx RTC								
Reporting Month	12-Month Period	Total Volume Traded with Price During Past 12-month (tons)	Total Price of Volume Traded During Past 12-month (\$)	Number of Trades with Price	Rolling Average Price <sup>1</sup> (\$/ton)			
Sep-18	Sep-17 to Aug-18	1,195.3	\$2,508,784	159	\$2,099			
Oct-18	Oct-17 to Sep-18	Compliance Year 2017 RTCs can no longer be traded after August 2018						

1. District Rule 2015(b)(6) - Backstop Provisions provides additional "evaluation and review of the compliance and enforcement aspects of the RECLAIM program" if the average RTC price exceeds \$15,000 per ton.

#### Table II

Twelve-Month Rolling Average Price Data for Compliance Year 2018 NOx RTCs (Report to Governing Board if rolling average price greater than \$22,500/ton)

Two	Twelve-Month Rolling Average Price Data for Compliance Year 2018 NOx RTC								
Reporting Month	12-Month Period	Total Volume Traded with Price During Past 12-month (tons)	Total Price of Volume Traded During Past 12-month (\$)	Number of Trades with Price	Rolling Average Price <sup>1</sup> (\$/ton)				
Jan-18	Jan-17 to Dec-17	91.6	\$974,592	3	\$10,639				
Feb-18	Feb-17 to Jan-18	91.6	\$974,592	3	\$10,639				
Mar-18	Mar-17 to Feb-18	100.7	\$1,041,091	4	\$10,337				
Apr-18	Apr-17 to Mar-18	51.6	\$497,246	5	\$9,643				
May-18	May-17 to Apr-18	56.6	\$527,075	8	\$9,320				
Jun-18	Jun-17 to May-18	53.1	\$502,575	7	\$9,473				
Jul-18	Jul-17 to Jun-18	72.6	\$625,883	14	\$8,618				
Aug-18	Aug-17 to Jul 18	80.0	\$660,279	19	\$8,251				
Sep-18	Sep-17 to Aug-18	86.8	\$698,621	28	\$8,050				
Oct-18	Oct-17 to Sep-18	104.3	\$759,871	29	\$7,287				

1. District Rule 2015(b)(6) - Backstop Provisions provides additional "evaluation and review of the compliance and enforcement aspects of the RECLAIM program" if the average RTC price exceeds \$15,000 per ton.

### Table III

Three-Month Rolling Average Price Data for Compliance Year 2017 NOx RTCs (Report to Governing Board if rolling average price greater than \$35,000/ton)

Three-Month Rolling Average Price Data for Compliance Year 2017 NOx RTC							
Reporting Month	3-Month Period	Total Volume Traded with Price During Past 3- month (tons)	Total Price of Volume Traded During Past 3-month (\$)	Number of Trades with Price	Rolling Average Price (\$/ton)		
Jan-17	Oct-16 to Dec-16	41.1	\$310,586	6	\$7,561		
Feb-17	Nov-16 to Jan-17	66.1	\$460,658	8	\$6,971		
Mar-17	Dec-16 to Feb-17	65.0	\$452,221	7	\$6,962		
Apr-17	Jan-17 to Mar-17	68.1	\$401,372	4	\$5,897		
May-17	Feb-17 to Apr-17	46.6	\$272,479	6	\$5,847		
Jun-17	Mar-17 to May-17	46.6	\$272,479	6	\$5,847		
Jul-17	Apr-17 to Jun-17	24.2	\$146,430	11	\$6,051		
Aug-17	May-17 to Jul-17	31.0	\$178,213	14	\$5,753		
Sep-17	Jun-17 to Aug-17	36.6	\$213,292	20	\$5,828		
Oct-17	Jul-17 to Sep-17	17.9	\$97,616	15	\$5,468		
Nov-17	Aug-17 to Oct-17	109.1	\$434,421	27	\$3,981		
Dec-17	Sep-17 to Nov-17	118.9	\$438,682	25	\$3,689		
Jan-18	Oct-17 to Dec-17	195.0	\$630,587	27	\$3,233		
Feb-18	Nov-17 to Jan-18	506.5	\$1,003,641	47	\$1,981		
Mar-18	Dec-17 to Feb-18	541.5	\$1,066,815	60	\$1,970		
Apr-18	Jan-18 to Mar-18	468.5	\$871,835	57	\$1,861		
May-18	Feb-18 to Apr-18	119.8	\$376,939	39	\$3,145		
Jun-18	Mar-18 to May-18	81.0	\$331,226	24	\$4,092		
Jul-18	Apr-18 to Jun-18	145.5	\$491,876	29	\$3,382		
Aug-18	May-18 to Jul-18	140.1	\$328,687	25	\$2,345		
Sep-18	Jun-18 to Aug-18	453.9	\$672,061	50	\$1,481		
Oct-18	Jul-18 to Sep-18	Compliance Year 2	017 RTCs can no longer	be traded after	August 2018		

### Table IV

Three-Month Rolling Average Price Data for Compliance Year 2018 NOx RTCs (Report to Governing Board if rolling average price greater than \$35,000/ton)

Three-Month Rolling Average Price Data for Compliance Year 2018 NOx RTC								
Reporting Month	3-Month Period	Total Volume Traded with Price During Past 3- month (tons)	Total Price of Volume Traded During Past 3-month (\$)	Number of Trades with Price	Rolling Average Price (\$/ton)			
Jan-18	Oct-17 to Dec-17	38.1	\$400,092	1	\$10,500			
Feb-18	Nov-17 to Jan-18	38.1	\$400,092	1	\$10,500			
Mar-18	Dec-17 to Feb-18	9.1	\$66,499	1	\$7,300			
Apr-18	Jan-18 to Mar-18	10.0	\$72,654	3	\$7,295			
May-18	Feb-18 to Apr-18	15.0	\$102,483	6	\$6,855			
Jun-18	Mar-18 to May-18	5.8	\$35,984	5	\$6,160			
Jul-18	Apr-18 to Jun-18	24.6	\$153,137	10	\$6,235			
Aug-18	May-18 to Jul-18	27.0	\$157,704	12	\$5,848			
Sep-18	Jun-18 to Aug-18	33.7	\$196,046	21	\$5,813			
Oct-18	Jul-18 to Sep-18	31.7	\$133,988	15	\$4,233			

### Table V

Twelve-Month Rolling Average Price Data for Infinite-Year Block NOx RTCs (Report to Governing Board if rolling average price after 2018 is less than \$200,000/ton)

Г	Twelve-Month Rolling Average Price Data for Infinite-Year Block NOx RTC							
Reporting Month	12-Month Period	Total Volume Traded with Price During Past 12- month (tons)	Total Price of Volume Traded During Past 12-month (\$)	Number of Trades with Price	Rolling Average Price (\$/ton)			
May-16	May-15 to Apr-16	805.1	\$215,694,953	44	\$267,913			
Jun-16	Jun-15 to May-16	781.6	\$211,669,953	44	\$270,819			
Jul-16	Jul-15 to Jun-16	351.5	\$128,539,029	31	\$365,654			
Aug-16	Aug-15 to Jul-16	512.9	\$166,663,599	32	\$324,943			
Sep-16	Sep-15 to Aug-16	517.7	\$167,951,099	32	\$324,449			
Oct-16	Oct-15 to Sep-16	441.9	\$150,586,981	30	\$340,759			
Nov-16	Nov-15 to Oct-16	321.9	\$121,239,854	25	\$376,628			
Dec-16	Dec-15 to Nov-16	321.9	\$121,238,354	24	\$376,638			
Jan-17	Jan-16 to Dec-16	301.9	\$114,731,605	20	<del>\$</del> 380,057			
Feb-17	Feb-16 to Jan-17	183.0	\$46,520,577	10	\$254,172			
Mar-17	Mar-16 to Feb-17	174.3	\$41,738,077	7	\$239,491			
Apr-17	Apr-16 to Mar-17	174.3	\$41,738,077	7	\$239,491			
May-17	May-16 to Apr-17	176.8	\$42,113,977	8	\$238,223			
Jun-17	Jun-16 to May-17	175.3	\$41,588,977	7	\$237,266			
Jul-17	Jul-16 to Jun-17	172.2	\$40,437,201	6	\$234,802			
Aug-17	Aug-16 to Jul-17	10.8	\$2,311,624	4	\$213,249			
Sep-17	Sep-16 to Aug-17	4.1	\$624,124	3	\$152,598			
Oct-17	Oct-16 to Sep-17	4.1	\$624,124	3	\$152,598			
Nov-17	Nov-16 to Oct-17	4.1	\$624,124	3	\$152,598			
Dec-17	Dec-16 to Nov-17	4.1	\$624,124	3	\$152,598			
Jan-18	Jan-17 to Dec-17	31.8	\$1,262,801	6	\$39,673			
Feb-18	Feb-17 to Jan-18	58.8	\$1,579,801	9	\$26,853			
Mar-18	Mar-17 to Feb-18	58.8	\$1,579,801	9	\$26,853			
Apr-18	Apr-17 to Mar-18	58.8	\$1,579,801	9	\$26,853			
May-18	May-17 to Apr-18	56.3	\$1,203,901	8	\$21,374			
Jun-18	Jun-17 to May-18	57.8	\$1,233,901	9	\$21,339			
Jul-18	Jul-17 to Jun-18	56.7	\$1,140,677	8	\$20,103			
Aug-18	Aug-17 to Jul 18	56.7	\$1,140,677	8	\$20,103			
Sep-18	Sep-17 to Aug-18	56.7	\$1,140,677	8	\$20,103			
Oct-18	Oct-17 to Sep-18	56.7	\$1,140,677	8	\$20,103			

### Table VI

Twelve-Month Rolling Average Price Data for Compliance Year 2017 SOx RTCs (Report to Governing Board if rolling average price greater than \$50,000/ton)

Twelve-Month Rolling Average Price Data for Compliance Year 2017 SOx RTC							
Reporting Month	12-Month Period	Total Volume Traded with Price During Past 12- month (tons)	Total Price of Volume Traded During Past 12-month (\$)	Number of Trades with Price	Rolling Average Price <sup>1</sup> (\$/ton)		
Jan-17	Jan-16 to Dec-16	0	0	0	-		
Feb-17	Feb-16 to Jan-17	0	0	0	-		
Mar-17	Mar-16 to Feb-17	0	0	0	-		
Apr-17	Jan-17 to Mar-17	0	0	0	-		
May-17	May-16 to Apr-17	0	0	0	-		
Jun-17	Jun-16 to May-17	0	0	0	-		
Jul-17	Jul-16 to Jun-17	0	0	0	-		
Aug-17	Aug-16 to Jul-17	4.0	\$4,400	1	\$1,100		
Sep-17	Sep-16 to Aug-17	14.0	\$19,400	2	\$1,386		
Oct-17	Oct-16 to Sep-17	14.0	\$19,400	2	\$1,386		
Nov-17	Nov-16 to Oct-17	14.0	\$19,400	2	\$1,386		
Dec-17	Dec-16 to Nov-17	14.0	\$19,400	2	\$1,386		
Jan-18	Jan-17 to Dec-17	14.0	\$19,400	2	\$1,386		
Feb-18	Feb-17 to Jan-18	57.0	\$58,742	7	\$1,030		
Mar-18	Mar-17 to Feb-18	57.0	\$58,742	7	\$1,030		
Apr-18	Apr-17 to Mar-18	57.0	\$58,742	7	\$1,030		
May-18	May-17 to Apr-18	57.0	\$58,742	7	\$1,030		
Jun-18	Jun-17 to May-18	120.2	\$102,965	10	\$857		
Jul-18	Jul-17 to Jun-18	120.2	\$102,965	10	\$857		
Aug-18	Aug-17 to Jul 18	117.5	\$99,463	10	\$847		
Sep-18	Sep-17 to Aug-18	107.8	\$84,686	10	\$786		
Oct-18	Oct-17 to Sep-18	Compliance Year 2	2017 RTCs can no longer	be traded after	August 2018		

1. District Rule 2015(b)(6) - Backstop Provisions provides additional "evaluation and review of the compliance and enforcement aspects of the RECLAIM program" if the average RTC price exceeds \$15,000 per ton.

### Table VII

Twelve-Month Rolling Average Price Data for Compliance Year 2018 SOx RTCs (Report to Governing Board if rolling average price greater than \$50,000/ton)

Twelve-Month Rolling Average Price Data for Compliance Year 2018 SOx RTC								
Reporting Month	12-Month Period	Total Volume Traded with Price During Past 12- month (tons)	Total Price of Volume Traded During Past 12-month (\$)	Number of Trades with Price	Rolling Average Price <sup>1</sup> (\$/ton)			
Jan-18	Jan-17 to Dec-17	None	-	-	-			
Feb-18	Feb-17 to Jan-18	None	-	-	-			
Mar-18	Mar-17 to Feb-18	None	-	-	-			
Apr-18	Apr-17 to Mar-18	None	-	-	-			
May-18	May-17 to Apr-18	None	-	-	-			
Jun-18	Jun-17 to May-18	34.2	\$23,974	3	\$700			
Jul-18	Jul-17 to Jun-18	34.2	\$23,974	3	\$700			
Aug-18	Aug-17 to Jul 18	80.2	\$57,354	5	\$715			
Sep-18	Sep-17 to Aug-18	95.2	\$67,854	6	\$713			
Oct-18	Oct-17 to Sep-18	163.3	\$135,429	10	\$829			

1. District Rule 2015(b)(6) - Backstop Provisions provides additional "evaluation and review of the compliance and enforcement aspects of the RECLAIM program" if the average RTC price exceeds \$15,000 per ton.