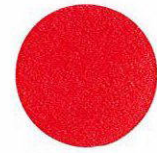




AIR PERMIT ROUTING/APPROVAL SLIP-Permits

10-12-23



AI No.	230441	Company	Venture Global Gator Express LLC	Date Received	August 18, 2023
Activity No.	PER20230001	Facility	Venture Global Gator Express LLC - TGP Metering & Regulation Station	Permit Type	Minor mod
CDS No.	2240-00462	Permit No.	2240-00462-01	Expedited Permit	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no

1. Technical Review	Approved	Date rec'd	Date FW	Comments
Permit Writer		8/28/23	9/7/23	
Air Quality / Modeling				
Toxics				
PSD/NNSR				
Technical Advisor	TBK		9/19/23	as noted
Supervisor				
Other				
2. Management Review (if PN req'd)	Approved	Date rec'd	Date FW	Comments
Supervisor				
Manager				
Administrator				
Assistant Secretary (PN)				Public hearing <input type="checkbox"/> yes <input type="checkbox"/> no
3. Response to Comments (if PN req'd)	Approved	Date rec'd	Date FW	Comments
Supervisor				
Manager				
Administrator				
Legal (BFD)				
4. Final Approval	Approved	Date rec'd	Date FW	Comments
Supervisor	ACD		09/12/2023	
Manager	ABV		10/7/23	as noted
Administrator	BDJ		10/5/23	as noted
Assistant Secretary				

1. Technical Review					
PN of App needed	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	Date of PN of App		Newspaper	
Fee paid	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no				
NSPS applies	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	PSD/NNSR applies	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no	NESHAP applies	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no

2. Post-Technical Review					
Company technical review	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> n/a	E-mail date	9/21/23	Remarks received	<input type="checkbox"/> yes <input type="checkbox"/> no
Surveillance technical review	<input type="checkbox"/> yes <input type="checkbox"/> no <input checked="" type="checkbox"/> n/a	E-mail date		Remarks received	<input type="checkbox"/> yes <input type="checkbox"/> no

3. Public Notice					
Public Notice Required	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no				
Library					
LDEQ Website	PN Date				
Company notification e-mail sent	Date e-mailed				
EPA PN notification e-mail sent	Date e-mailed				
OES PN mailout	Date mailed				

4. Final Review					
Public comments received	<input type="checkbox"/> yes <input type="checkbox"/> no	EPA comments rec'd	<input type="checkbox"/> yes <input type="checkbox"/> no		
Company comments received	<input type="checkbox"/> yes <input type="checkbox"/> no	PN info entered into Permit Sec VI	<input type="checkbox"/> yes <input type="checkbox"/> no		

Comments					
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JOHN BEL EDWARDS  
GOVERNOR



ROGER W. GINGLES  
SECRETARY

**State of Louisiana**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**ENVIRONMENTAL SERVICES**

Certified Mail No. 9589 071005270 0644 2645 82

Agency Interest (AI) No. 230441  
Activity No. PER20230001

Mr. Fory Musser  
Senior Vice President, Development  
Venture Global Gator Express, LLC  
1001 19th Street North, Suite 1500  
Arlington, VA 22209

RE: State Permit Modification  
Venture Global Gator Express, LLC - TGP Metering & Regulation Station  
Diamond, Plaquemines Parish, Louisiana

Dear Mr. Musser:

This is to inform you that the permit modification request for the above referenced facility has been approved under LAC 33:III.501. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets, and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.


Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight, ten years from the issue date below, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

The permit number cited below and agency interest number cited above should be referenced in future correspondence regarding this facility.

Permit No.: 2240-00462-01

Sincerely,

  
Bryan D. Johnston  
Administrator  
Air Permits Division  
BDJ: sne

10/5/23  
Date

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**AI No. 230441**

**Venture Global Gator Express, LLC - TGP Metering & Regulation Station**  
**Diamond, Plaquemines Parish, Louisiana**

**I. BACKGROUND**

Venture Global Gator Express, LLC (Gator Express) is constructing and plans to operate the TGP Metering & Regulation Station, a platform-mounted meter station with a pig launcher and pressure regulating valve located in Bay Batiste near Diamond, Plaquemines Parish, Louisiana. The facility was initially authorized under Permit No. 2240-00462-00, issued on February 23, 2022.

**II. ORIGIN**

A permit application dated August 16, 2023, and received on August 18, 2023, was received requesting a permit modification was received on August 18, 2023. Additional information dated August 29, 2023, was also received.

**III. DESCRIPTION**

The TGP Metering & Regulation Station will be an interconnection between the existing transmission pipeline network and the proposed Southwest Lateral Tennessee Gas Pipeline, LLC (TGP) Pipeline (SW Lateral TGP). SW Lateral TGP will provide the feed gas to the liquefaction and power generation facilities at the Venture Global Plaquemines LNG Terminal.

This permit authorizes an increase in the rated capacity of the two (2) natural gas generators (EQTs 0001 and 0002) from 240 horsepower (hp) to 316 hp and an increase of the engines' emission limits based on this change.

Permitted emissions from this facility in tons per year (tpy) are as follows:

Pollutant	Criteria Pollutant Emissions		
	Before	After	Change
PM <sub>10</sub>	0.76	1.04	+0.28
PM <sub>2.5</sub>	0.76	1.04	+0.28
SO <sub>2</sub>	0.02	0.02	-
NO <sub>x</sub>	4.64	6.10	+1.46
CO	9.26	12.20	+2.94
VOC	4.62	5.66	+1.04

**AIR PERMIT BRIEFING SHEET**  
**AIR PERMITS DIVISION**  
**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**AI No. 230441**

**Venture Global Gator Express, LLC - TGP Metering & Regulation Station**  
**Diamond, Plaquemines Parish, Louisiana**

LAC 33:III.Chapter 51 Toxic Air Pollutants (TAPs)

Pollutant	Before	After	Change
1,1,2,2,-Tetrachloroethane	0.02	0.02	-
1,2-Dibromoethane	0.02	0.02	-
1,3-Butadiene	0.02	0.02	-
2,2,4-Trimethylpentane	0.02	0.02	-
Acetaldehyde	0.14	0.18	+0.04
Acrolein	0.12	0.16	+0.04
Benzene	0.05	0.05	-
Biphenyl	0.02	0.02	-
Dichloromethane	0.02	0.02	-
Ethyl benzene	0.02	0.02	-
Formaldehyde	0.88	1.18	+0.30
Methanol	0.04	0.06	+0.02
Naphthalene	0.02	0.02	-
n-Hexane	0.13	0.13	-
Polynuclear Aromatic Hydrocarbons	0.02	0.02	-
Toluene	0.02	0.02	-
Xylene (mixed isomers)	0.02	0.02	-
<b>Total TAPs</b>	<b>1.58</b>	<b>1.98</b>	<b>+0.40</b>

**IV. TYPE OF REVIEW**

This permit was reviewed for compliance with the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility will be a minor source of LAC 33:III.Chapter 51 TAPs. The facility will include affected sources under 40 CFR 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines. By complying with the standards of 40 CFR 60 Subpart JJJJ, the facility will comply with 40 CFR 63 Subpart ZZZZ – NESHAP for Stationary Reciprocating Internal Combustion Engines.

**V. PUBLIC NOTICE**

Public notice is not required for a minor source permit modification.

**VI. EFFECTS ON AMBIENT AIR**

Based on the level of permitted emissions, emissions from the facility are not anticipated to prevent the attainment or maintenance of any state or national ambient air quality standard.

**AIR PERMIT BRIEFING SHEET  
AIR PERMITS DIVISION  
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**AI No. 230441  
Venture Global Gator Express, LLC - TGP Metering & Regulation Station  
Diamond, Plaquemines Parish, Louisiana**

**VII. GENERAL CONDITION XVII ACTIVITIES**

Work Activity	Schedule	Emission Rates - tpy					
		PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC
Pipeline Pigging Maintenance Operations	6 events/yr	-	-	-	-	-	< 0.01

**VIII. INSIGNIFICANT ACTIVITIES**

ID No.	Description	Citation
-	(5) Gas Chromatographs/Process Vent Analyzers	LAC 33:III.501.B.5.A.9

### General Information

AI ID: 230441 Venture Global Gator Express LLC - TGP Metering & Regulation Station

Activity Number: PER20230001

Permit Number: 2240-00462-01

Air - Minor Source/Small Source Mod

Alternate Identifiers	Name	User Group	Dates
2240-00462	CDS number	CDS Number	12-21-2021

**Physical Location:** 11.5 mi S of the Plaquemines LNG Terminal in Barataria Bay LA 70083 **Main Phone:** 2027596738

**Mailing Address:** 1001 19th St N Ste 1500  
Arlington VA 22209

**Location of Front Gate:** -89.867222 Longitude, 29.422222 Latitude, Coordinate Method: Lat.\Long. - DMS, Coordinate Datum: NAD83

Related People:	Mail Address	Work Phone	Email	Relationship
Fory Musser	1001 19th St N Ste 1500 Arlington, VA 22209	2027596738	fmusser@venturegloballing.com	Responsible Official for

Related Organizations:	Mailing Address	Work Phone	Relationship
Venture Global Gator Express LLC	1001 19th St N Ste 1500 Arlington, VA 22209	2027596738	Air Billing Party for Operates Owns

**SIC Codes:** 4922, Natural gas transmission

**NAIC Codes:** 486210, Pipeline Transportation of Natural Gas

**Note:** This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required, or if you have questions regarding this document, please email the Permit Support Services Division at [facupdate@la.gov](mailto:facupdate@la.gov).

**INVENTORIES**

**AI ID: 230441 - Venture Global Gator Express LLC - TGP Metering & Regulation Station**

**Activity Number: PER20230001**

**Permit Number: 2240-00462-01**

**Air - Minor Source/Small Source Mod**

**Subject Item Inventory:**

ID	Description	Tank Volume	Max Operating Rate	Normal Operating Rate	Comments	Operating Time
<b>TGP Metering and Regulation Station</b>						
EQT 0001	GEN 1 - Natural Gas-Fired Generator No. 1		316 horsepower	316 horsepower		8760 hr/yr
EQT 0002	GEN 2 - Natural Gas-Fired Generator No. 2		316 horsepower	316 horsepower		8760 hr/yr
FUG 0001	FUG - Fugitive Emissions					8760 hr/yr

**Stack Information:**

ID	Description	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Temperature (oF)
<b>TGP Metering and Regulation Station</b>							
EQT 0001	GEN 1 - Natural Gas-Fired Generator No. 1	.83		5.67	10.32	337.59	1064
EQT 0002	GEN 2 - Natural Gas-Fired Generator No. 2	.83		5.67	10.32	337.59	1064

**Subject Item Groups:**

ID	Group Type	Group Description
CRG 0001	Common Requirements Group	Generators - Natural Gas-Fired Generators
UNF 0001	Unit or Facility Wide	UNF - TGP Metering and Regulation Station

**Group Membership:**

ID	Description	Member of Groups
EQT 0001	GEN 1 - Natural Gas-Fired Generator No. 1	CRG0000000001
EQT 0002	GEN 2 - Natural Gas-Fired Generator No. 2	CRG0000000001

**NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group.**

**Annual Maintenance Fee:**

Fee Number	Air Contaminant Source	Multiplier	Units of Measure
1722	1722 Small Source Permit		

**SIC Codes:**

4922	Natural gas transmission	AI 230441
4922	Natural gas transmission	UNF 001

**EMISSION RATES FOR CRITERIA POLLUTANTS AND CO2e**

AI ID: 230441 - Venture Global Gator Express LLC - TGP Metering & Regulation Station

Activity Number: PER20230001

Permit Number: 2240-00462-01

Air - Minor Source/Small Source Mod

All Phases

TGP Metering and Regulation Station

Subject Item	PM 10			PM 2.5			SO2			NOx		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 GEN 1	0.12	0.14	0.52	0.12	0.14	0.52	0.002	0.004	0.01	0.70	0.84	3.05
EQT 0002 GEN 2	0.12	0.14	0.52	0.12	0.14	0.52	0.002	0.004	0.01	0.70	0.84	3.05
FUG 0001 FUG												

**EMISSION RATES FOR CRITERIA POLLUTANTS AND CO<sub>2</sub>e**  
**AI ID: 230441 - Venture Global Gator Express LLC - TGP Metering & Regulation Station**  
**Activity Number: PER20230001**  
**Permit Number: 2240-00462-01**  
**Air - Minor Source/Small Source Mod**

All Phases  
TGP Metering and Regulation Station

Subject Item	CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 GEN 1	1.39	1.67	6.10	0.49	0.59	2.14
EQT 0002 GEN 2	1.39	1.67	6.10	0.49	0.59	2.14
FUG 0001 FUG				0.31	0.31	1.38

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 230441 - Venture Global Gator Express LLC - TGP Metering & Regulation Station

Activity Number: PER20230001

Permit Number: 2240-00462-01

Air - Minor Source/Small Source Mod

### All phases

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0001 GEN 1	1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.01
	1,2-Dibromoethane	<0.001	<0.001	<0.01
	1,3-Butadiene	0.002	0.002	0.01
	2,2,4-Trimethylpentane	0.002	0.002	0.01
	Acetaldehyde	0.02	0.02	0.09
	Acrolein	0.02	0.02	0.08
	Benzene	0.005	0.01	0.02
	Biphenyl	0.001	0.001	<0.01
	Dichloromethane	<0.001	<0.001	<0.01
	Ethyl benzene	<0.001	<0.001	<0.01
	Formaldehyde	0.13	0.16	0.59
	Methanol	0.01	0.01	0.03
	n-Hexane	0.003	0.003	0.01
	Naphthalene	<0.001	<0.001	<0.01
	Polynuclear Aromatic Hydrocarbons	<0.001	<0.001	<0.01
	Toluene	0.002	0.003	0.01
Xylene (mixed isomers)	<0.001	0.001	<0.01	
EQT 0002 GEN 2	1,1,2,2-Tetrachloroethane	<0.001	<0.001	<0.01
	1,2-Dibromoethane	<0.001	<0.001	<0.01
	1,3-Butadiene	0.002	0.002	0.01
	2,2,4-Trimethylpentane	0.002	0.002	0.01
	Acetaldehyde	0.02	0.02	0.09
	Acrolein	0.02	0.02	0.08
	Benzene	0.005	0.01	0.02
	Biphenyl	0.001	0.001	<0.01
	Dichloromethane	<0.001	<0.001	<0.01
	Ethyl benzene	<0.001	<0.001	<0.01
	Formaldehyde	0.13	0.16	0.59
	Methanol	0.01	0.01	0.03
	n-Hexane	0.003	0.003	0.01
	Naphthalene	<0.001	<0.001	<0.01
	Polynuclear Aromatic Hydrocarbons	<0.001	<0.001	<0.01
	Toluene	0.002	0.003	0.01
Xylene (mixed isomers)	<0.001	0.001	<0.01	
FUG 0001 FUG	Benzene	0.002	0.002	0.01
	n-Hexane	0.02	0.02	0.11
UNF 0001 UNF	1,1,2,2-Tetrachloroethane			0.02
	1,2-Dibromoethane			0.02
	1,3-Butadiene			0.02
	2,2,4-Trimethylpentane			0.02
	Acetaldehyde			0.18
	Acrolein			0.16
	Benzene			0.05
	Biphenyl			0.02
	Dichloromethane			0.02
	Ethyl benzene			0.02
	Formaldehyde			1.18
	Methanol			0.06
	n-Hexane			0.13

## EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 230441 - Venture Global Gator Express LLC - TGP Metering & Regulation Station

Activity Number: PER20230001

Permit Number: 2240-00462-01

Air - Minor Source/Small Source Mod

### All phases

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
	Naphthalene			0.02
	Polynuclear Aromatic Hydrocarbons			0.02
	Toluene			0.02
	Xylene (mixed isomers)			0.02

**Note:** Emission rates associated with alternate operating scenarios (SCN) are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

## SPECIFIC REQUIREMENTS

**AI ID: 230441 - Venture Global Gator Express LLC - TGP Metering & Regulation Station**

**Activity Number: PER20230001**

**Permit Number: 2240-00462-01**

**Air - Minor Source/Small Source Mod**

### CRG 0001 Generators - Natural Gas-Fired Generators

**Group Members: EQT 0001 EQT 0002**

- 1 [40 CFR 60.4233(e)] (Excluding formaldehyde) VOC, Total  $\leq$  0.7 g/BHP-hr (0.00154 lb/HP-hr; 60 ppmdv at 15% O<sub>2</sub>). Subpart JJJJ. [40 CFR 60.4233(e)]  
Which Months: All Year Statistical Basis: None specified
- 2 [40 CFR 60.4233(e)] Carbon monoxide  $\leq$  2.0 g/BHP-hr (0.0044 lb/HP-hr; 270 ppmdv at 15% O<sub>2</sub>). Subpart JJJJ. [40 CFR 60.4233(e)]  
Which Months: All Year Statistical Basis: None specified
- 3 [40 CFR 60.4233(e)] Nitrogen oxides  $\leq$  1.0 g/BHP-hr (0.0022 lb/HP-hr; 82 ppmdv at 15% O<sub>2</sub>). Subpart JJJJ. [40 CFR 60.4233(e)]  
Which Months: All Year Statistical Basis: None specified
- 4 [40 CFR 60.4234] Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine.  
Subpart JJJJ.
- 5 [40 CFR 60.4243(b)(1)] Ensure engine is certified according to procedures specified in 40 CFR 60 Subpart JJJJ, for the same model year. Demonstrate compliance according to one of the methods specified in 40 CFR 60.4243(a). Subpart JJJJ. [40 CFR 60.4243(b)(1)]
- 6 [40 CFR 60.4243(e)] Operate using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations. Keep records of such use. If propane is used for more than 100 hours per year and the engine is not certified to the emission standards when using propane, conduct a performance test to demonstrate compliance with the emission standards of 40 CFR 60.4233. Subpart JJJJ. [40 CFR 60.4243(e)]
- 7 [40 CFR 60.4243(g)] Air-to-fuel ratio controller: Maintain and operate appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. Subpart JJJJ. [40 CFR 60.4243(g)]
- 8 [40 CFR 60.4245(a)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep records of the information in 40 CFR 60.4245(a)(1) through (a)(4). Subpart JJJJ. [40 CFR 60.4245(a)]
- 9 [40 CFR 63.6590(c)] Meet the requirements of 40 CFR 60 Subpart JJJJ for spark ignition engines. Subpart ZZZZ. [40 CFR 63.6590(c)]
- 10 [LAC 33:III.1311.C] Opacity  $\leq$  20 percent, except for emissions that have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. (Complies by using sweet natural gas as fuel).  
Which Months: All Year Statistical Basis: Six-minute average

### FUG 0001 FUG - Fugitive Emissions

- 11 [LAC 33:III.2111] Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

### UNF 0001 UNF - TGP Metering and Regulation Station

- 12 [40 CFR 60.] All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
- 13 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 14 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping includes, but is not limited to, the practices listed in LAC 33:III.2113.A.1 through A.5.
- 15 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 16 [LAC 33:III.537] Comply with the Louisiana General Conditions as set forth in LAC 33:III.537.
- 17 [LAC 33:III.5611.A] Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by DEQ.

**SPECIFIC REQUIREMENTS**

**AI ID: 230441 - Venture Global Gator Express LLC - TGP Metering & Regulation Station**

**Activity Number: PER20230001**

**Permit Number: 2240-00462-01**

**Air - Minor Source/Small Source Mod**

**UNF 0001 UNF - TGP Metering and Regulation Station**

18 [LAC 33:III.5611.B]

During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by DEQ to enforce these regulations.

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