

**Texas Commission on Environmental Quality**  
**Form APD – CERT**  
**Certification of Emission Limits**  
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<b>I. Company and Site Information</b>	
A. Company Name: Dallas/Ft Worth International Airport Board	
B. Responsible Official Name: Robert Horton, Ph.D., P.E.	
Responsible Official's Title: Vice President, Environmental Affairs Dept.	
Mailing Address: PO Box 619428	
City: DFW Airport	
County: Tarrant	
State: Tx	
ZIP Code: 75261-9428	
Telephone: (972) 973-5563	
Fax:	
Email Address: Rhorton@dfwairport.com	
C. Site Name: DFW International Airport	
Street Address: <i>(if different from above)</i> 2375 N International Pkwy	
If "NO" street address describe the physical location with driving directions:	
City or nearest city: DFW Airport	
County: Tarrant	
ZIP Code: 75261	
D. TCEQ Account Identification Number <i>(leave blank if unknown)</i> :	
E. TCEQ Customer Reference Number <i>(leave blank if unknown)</i> : 601700610	
TCEQ Regulated Entity Number <i>(leave blank if unknown)</i> : 100213990	
F. Does the site have a Title V Permit?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
G. Title V Permit Number:	
H. Is this a small business?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<b>II. Attach the Following Documentations</b>	
A. Copies of a previously completed Form PI-7 and all supporting documentation <i>(if applicable)</i> .	
B. A list of each source of air emissions at the site.	
C. A summary of the certified emission rates.	
D. A process description.	

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**III. Maintain Records On Site to Demonstrate Continuing Compliance and Make the Records Available on Request**

The emission rates listed on the certification shall reflect the certified emissions for the stationary sources at the site. The records demonstrating compliance with this certification must comply with applicable rules and must be maintained at the site or, for sites that normally operate unattended, at an office within Texas having day-to-day operational control of the site. Records must be kept for at least five years and must be made available upon request. For more information regarding records for permits by rule, see 30 TAC § 106.8, Recordkeeping.

**IV. Purpose of this Certification** *(choose and complete all that are appropriate)*

This certification is intended to establish emission rates below state and federal rule thresholds and triggers for:

☒ 30 TAC § 106.4 for Permits by Rule

☐ Permit by Rule Number:

☐ HRVOC Emissions Cap and Trade Program

☐ Emissions Banking and Trading Program (other than HRVOC)

☐ 30 TAC Chapter 115 for Volatile Organic Compounds

☐ 30 TAC Chapter 117 for Nitrogen Oxides

☐ 40 CFR Part 60, Subpart:

☐ 40 CFR Part 61, Subpart:

☐ 40 CFR Part 63, Subpart:

☒ Title V Permit Major Source Applicability

☐ Other:

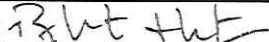
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**V. Certification by Responsible Official**

All representations in this certification of emissions are conditions upon which the stationary source shall operate. This certification reflects the maximum emission rates for the operation of this facility. The facility will operate in compliance with all regulations of the Texas Commission on Environmental Quality and with Federal U.S. Environmental Protection Agency regulations governing air pollution. It shall be unlawful for any person to vary from such representation unless the certification is first revised. The signature below indicates that, based on information and belief formed after reasonable inquiry, the statements, and information contained in the attached documents are true, accurate, and complete.

Name: Robert Horton, Ph.D., P.E.

Title: Vice President, Environmental Affairs Dept.

Original Signature Required: 

Date: 06/10/2024

*Reminder: The original of this certification must be sent to the TCEQ through ePermits. A copy must also be maintained on site or, for sites that normally operate unattended, at an office within Texas having day-to-day operational control of the site.*



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*Attach additional pages if needed if needed.*  
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VI. Emission Rate Data									
FIN	Facility Name	EPN	Point Name	Authorization Type	Authorization Date	Registration Number (if applicable)	Air Contaminant Name	Maximum Certified Emission Rates	
								Pounds/Hour	Tons/Year
ENG-1	Former AOC/DPS HQ	ENG-1	Generator	106.511	2009		NOx	28.805	0.058
ENG-2	Central Data Center – Generator A	ENG-2	Generator	106.511	2009		NOx	27.389	0.110
ENG-3	Central Data Center – Generator B	ENG-3	Generator	106.511	2009		NOx	14.883	0.060
ENG-4	Central Radio Tower	ENG-4	Generator	106.511	2015		NOx	2.203	0.004
ENG-5	DPS Headquarters	ENG-5	Generator	106.511	2018		NOx	53.280	0.107
ENG-6	DPS Headquarters (Sally Port)	ENG-6	Generator	106.511	2018		NOx	1.102	0.001
ENG-7	DPS Station 5	ENG-7	Generator	106.511	2002		NOx	4.157	0.025
ENG-8	DPS Station 6	ENG-8	Generator	106.511	2012		NOx	14.451	0.029
ENG-9	DFW Headquarters	ENG-9	Generator	106.511	2014		NOx	18.023	0.036
ENG-10	East Lighting Vault - Generator	ENG-10	Generator	106.511	2016		NOx	40.231	0.966
ENG-11	Asset Management	ENG-11	Generator	106.511	1994		NOx	2.494	0.005
ENG-12	Integrated Operations Center – Generator w/AST	ENG-12	Generator	106.511	2020		NOx	28.644	0.057

## Form APD-CERT Mailing Instructions

VI. Emission Rate Data									
FIN	Facility Name	EPN	Point Name	Authorization Type	Authorization Date	Registration Number (if applicable)	Air Contaminant Name	Maximum Certified Emission Rates	
								Pounds/Hour	Tons/Year
ENG-13	SE Lighting Vault - Generator	ENG-13	Generator	106.511	2024		NOx	17.433	0.418
ENG-14	North Control Plaza	ENG-14	Generator	106.511	2019		NOx	18.023	0.108
ENG-15	South Control Plaza	ENG-15	Generator	106.511	2019		NOx	18.023	0.108
ENG-16	South Radio Tower	ENG-16	Generator	106.511	2019		NOx	2.137	0.004
ENG-17	SW Lighting Vault - Generator	ENG-17	Generator	106.511	2016		NOx	53.280	1.279
ENG-18	West Data Center	ENG-18	Generator	106.511	2015		NOx	14.384	0.086
ENG-19	Terminal E Satellite Building	ENG-19	Generator	106.511	1999		NOx	17.044	0.034
ENG-20	PIO Building	ENG-20	Generator	106.511	2023		NOx	0.831	0.002
ENG-21	Guard House 2 (1E)	ENG-21	Generator	106.512	2024		NOx	0.294	1.286
Emissions Totals:									4.79

4.79

**DFW Airport APD-CERT**  
**Emergency Generators 106.511 and 106.512**

**Project Description/Overview:**

DFW International Airport is submitting this APD-CERT to certify NO<sub>x</sub> emissions for 20 emergency generators and 2 permanent generators. None of the generators at the DFW International Airport require registration for 30 TAC 106.511 or 106.512. There are currently 5 boilers (Boiler 6 - EPN BLR12, Boiler 7 - EPN BLR13, Boiler 8 - EPN BLR14, Boiler 9 - EPN BLR15 and Boiler 10 - EPN BLR16) authorized at DFW Airport located in Tarrant County, Texas. These boilers are currently authorized to combust natural gas, jet A Fuel/Fuel Oil. The CUP boilers will eventually be replaced by a set of smaller 10MMBtu/hr boilers that will be authorized by 30 TAC 106.183.

The 20 emergency generators are utilized when the electricity provided to the airport is shut-off or interrupted during emergency situations. The airport must have power throughout during incidents of power outages. These emergency generators operate on diesel and are tested for a duration that is specified in the emissions table (Generally from 1 hour a year to 48 hours a year).

The permanent generator is utilized to provide electricity to a guard shack at the airport. This generator operates on diesel and can operate up to 8760 hours a year.

The emissions calculations for 19 of the 20 emergency generators are based on AP-42 emission factors – specifically from the following (Except for ENG-13 – Supplied from Catapillar (Tier 2 Engine – 0.013 lb/hp-hr):

- Chapter 3 - Table 3.3.1 Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines (Diesel Engines <= 600)
- Chapter 3 - Table 3.4.1 Gaseous Emission Factors for Large Stationary Diesel and All Stationary Dual-Fuel Engines (Diesel Engines > 600 hp)

The emission calculation for the permanent generator is from - Emission factor from TCEQs Non-Road Certified Emission Standards - Diesel Compression Ignition Engine NO<sub>x</sub> Emission Standards By Model Year with Engine Power (hp) Equal to or Greater than 50hp but less than 75 hp - Tier 4 2013 - Current = 3.325 g/bhp-hr.



DFW International Airport Emergency and Permanent Generator Emissions

DFW International Airport Emergency Generators

EPN	Facility Name	FIN	Authorization	Engine Manufacturer	Serial Number	Base Rating (kW)	Engine Power Output (hp)	Calculated Engine Power Output (hp)	Pollutant	AP-42 NOx Emission Factor (lb/hp-hr) <= 600 hp	AP-42 NOx Emission Factor (lb/hp-hr) > 600 hp	Emission Factor Based on hp	Hours of Testing	NOx Emissions (lbs/hr)	NOx Emissions (tpy)
ENG-1	Former AOC/DPS HQ	ENG-1	106.511	Cummins	37217894	895	1200	1200	NOx	0.031	0.024	0.024	4	28.805	0.058
ENG-2	Central Data Center - Generator A	ENG-2	106.511	Caterpillar	MIE01487	851	1141	1141	NOx	0.031	0.024	0.024	8	27.389	0.110
ENG-3	Central Data Center - Generator B	ENG-3	106.511	Caterpillar	S9102572	358	480	480	NOx	0.031	0.024	0.031	8	14.883	0.060
ENG-4	Central Radio Tower	ENG-4	106.511	Kohler	4529501250	53	71	71	NOx	0.031	0.024	0.031	4	2.203	0.004
ENG-5	DPS Headquarters	ENG-5	106.511	Cummins	25438134		2220	2220	NOx	0.031	0.024	0.024	4	53.280	0.107
ENG-6	DPS Headquarters (Sally Port)	ENG-6	106.511	Kubota	71P5343	26.5	36	36	NOx	0.031	0.024	0.031	1	1.102	0.001
ENG-7	DPS Station 5	ENG-7	106.511	John Deere	PE1045127342	100	134	134	NOx	0.031	0.024	0.031	12	4.157	0.025
ENG-8	DPS Station 6	ENG-8	106.511	Volvo Penta	D13*241966*81*A	449	602	602	NOx	0.031	0.024	0.024	4	14.451	0.029
ENG-9	DFW Headquarters	ENG-9	106.511	John Deere	6090HFG66	560	751	751	NOx	0.031	0.024	0.024	4	18.023	0.036
ENG-10	East Lighting Vault - Generator	ENG-10	106.511	Detroit Diesel	3995F448	1250	1676	1676	NOx	0.031	0.024	0.024	48	40.231	0.966
ENG-11	Asset Management	ENG-11	106.511	Caterpillar	4Z61085	60	80	80	NOx	0.031	0.024	0.031	4	2.494	0.005
ENG-12	Integrated Operations Center - Generator w/ AST	ENG-12	106.511	MTU	5352013056	890	1194	1194	NOx	0.031	0.024	0.024	4	26.644	0.057
ENG-13	SE Lighting Vault - Generator	ENG-13	106.511	Caterpillar		1000	1341	1341	NOx	0.031	0.024	0.013	48	17.433	0.418
ENG-14	North Control Plaza	ENG-14	106.511	John Deere	R66090L138397	560	751	751	NOx	0.031	0.024	0.024	12	18.023	0.108
ENG-15	South Control Plaza	ENG-15	106.511	John Deere	R66090L138398	560	751	751	NOx	0.031	0.024	0.024	12	18.023	0.108
ENG-16	South Radio Tower	ENG-16	106.511	Cummins	72015317	51.4	69	69	NOx	0.031	0.024	0.031	4	2.137	0.004
ENG-17	SW Lighting Vault - Generator	ENG-17	106.511	Cummins	26419425		2220	2220	NOx	0.031	0.024	0.024	48	53.280	1.279
ENG-18	West Data Center	ENG-18	106.511	Cummins	73852157	346	464	464	NOx	0.031	0.024	0.031	12	14.384	0.086
ENG-19	Terminal E Satellite Building	ENG-19	106.511	Spectrum Detroit Diesel	XDDXL12.7TGD	410	550	550	NOx	0.031	0.024	0.031	4	17.044	0.034
ENG-20	PIO Building	ENG-20	106.511	Caterpillar	BA1156422A	20	27	27	NOx	0.031	0.024	0.031	4	0.831	0.002
Total														3.326	3.350

Notes: AP-42 Emission factor is from Chapter 3 - Table 3.3.1 Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines (Diesel Engines <= 600 hp)

AP-42 Emission factor is from Chapter 3 - Table 3.4.1 Gaseous Emission Factors for Large Stationary Diesel and All Stationary Dual-Fuel Engines (Diesel Engines > 600 hp)

ENG-13 Emission factor is from Caterpillar (Tier 2 Engine) = 5.97 g/bhp-hr (0.013 lbs/hp-hr)

DFW International Airport Permanent Generators - Tier 4 Engines (Using DFW Run Hours)

EPN	Facility Name	FIN	Authorization	Engine Manufacturer	Serial Number	Base Rating (kW)	Engine Power Output (hp)	Calculated Engine Power Output (hp)	Pollutant	Emission Factor Based on hp	Emission Factor Based on hp	Run Time (Hours)	NOx Emissions (lbs/hr)	NOx Emissions (tpy)
ENG-21	Guard House 2 (1E)	ENG-21	106.512	Isuzu	4LE2-677991	30	40	40	NOx	3.325	0.0073	8760	0.294	1.286
Total														1.29

Note: Emission factor from TCEQ's Non-Road Certified Emission Standards - Diesel Compression Ignition Engine NOx Emission Standards By Model Year with Engine Power (hp) Equal to or Greater than 50hp but less than 75hp - Tier 4 2013 - Current = 3.325 g/bhp-hr

Worst Case Yearly Boiler NOx Emission Overlay

Boilers/Generators	Diesel* / Jet Fuel Use (Hours)	Natural Gas Use (Hours)	2024 Annual NOx (tpy)
Emergency Generators			3.5
Permanent Generator			1.29
CUP Boilers	1404	20487	9.94
Temporary Boilers	0	6048	1.44
cCUP Boilers	720	18435	3.6
Totals			19.8

\*Diesel fuel only used for emergency generators

\*\*Estimated emissions for emergency generators - still missing engine base ratings and hours of testing