



Texas Commission on Environmental Quality Air Quality Permit

A Permit Is Hereby Issued To
Enterprise Products Operating LLC
Authorizing the Construction and Operation of
Enterprise Products Operating Mount Belvieu Complex
Located at Mont Belvieu, Chambers County, Texas
Latitude 29.85965 Longitude -94.909639

Permits: 107523, N174M3, GHGPSDTX33, and
PSDTX1336

Revision Date: April 16, 2025

Expiration Date: February 13, 2034

A handwritten signature in black ink, appearing to read "K. Keel".

For the Commission

1. **Facilities** covered by this permit shall be constructed and operated as specified in the application for the permit. All representations regarding construction plans and operation procedures contained in the permit application shall be conditions upon which the permit is issued. Variations from these representations shall be unlawful unless the permit holder first makes application to the Texas Commission on Environmental Quality (commission) Executive Director to amend this permit in that regard and such amendment is approved. [Title 30 Texas Administrative Code (TAC) Section 116.116 (30 TAC § 116.116)] ¹
2. **Voiding of Permit.** A permit or permit amendment is automatically void if the holder fails to begin construction within 18 months of the date of issuance, discontinues construction for more than 18 months prior to completion, or fails to complete construction within a reasonable time. Upon request, the executive director may grant an 18-month extension. Before the extension is granted the permit may be subject to revision based on best available control technology, lowest achievable emission rate, and netting or offsets as applicable. One additional extension of up to 18 months may be granted if the permit holder demonstrates that emissions from the facility will comply with all rules and regulations of the commission, the intent of the Texas Clean Air Act (TCAA), including protection of the public's health and physical property; and (b)(1) the permit holder is a party to litigation not of the permit holder's initiation regarding the issuance of the permit; or (b)(2) the permit holder has spent, or committed to spend, at least 10 percent of the estimated total cost of the project up to a maximum of \$5 million. A permit holder granted an extension under subsection (b)(1) of this section may receive one subsequent extension if the permit holder meets the conditions of subsection (b)(2) of this section. [30 TAC § 116.120]
3. **Construction Progress.** Start of construction, construction interruptions exceeding 45 days, and completion of construction shall be reported to the appropriate regional office of the commission not later than 15 working days after occurrence of the event. [30 TAC § 116.115(b)(2)(A)]
4. **Start-up Notification.** The appropriate air program regional office shall be notified prior to the commencement of operations of the facilities authorized by the permit in such a manner that a representative of the commission may be present. The permit holder shall provide a separate notification for the commencement of operations for each unit of phased construction, which may involve a series of units commencing operations at different times. Prior to operation of the facilities authorized by the permit, the permit holder shall identify the source or sources of allowances to be utilized for compliance with Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program). [30 TAC § 116.115(b)(2)(B)]
5. **Sampling Requirements.** If sampling is required, the permit holder shall contact the commission's Office of Compliance and Enforcement prior to sampling to obtain the proper data forms and procedures. All sampling and testing procedures must be approved by the executive director and coordinated with the regional representatives of the commission. The permit holder is also responsible for providing sampling facilities and conducting the sampling operations or contracting with an independent sampling consultant. [30 TAC § 116.115(b)(2)(C)]
6. **Equivalency of Methods.** The permit holder must demonstrate or otherwise justify the equivalency of emission control methods, sampling or other emission testing methods, and monitoring methods proposed as alternatives to methods indicated in the conditions of the permit. Alternative methods shall be applied for in writing and must be reviewed and approved by the executive director prior to their use in fulfilling any requirements of the permit. [30 TAC § 116.115(b)(2)(D)]
7. **Recordkeeping.** The permit holder shall maintain a copy of the permit along with records containing the information and data sufficient to demonstrate compliance with the permit, including production records and

operating hours; keep all required records in a file at the plant site. If, however, the facility normally operates unattended, records shall be maintained at the nearest staffed location within Texas specified in the application; make the records available at the request of personnel from the commission or any air pollution control program having jurisdiction in a timely manner; comply with any additional recordkeeping requirements specified in special conditions in the permit; and retain information in the file for at least two years following the date that the information or data is obtained. [30 TAC § 116.115(b)(2)(E)]

1. **Maximum Allowable Emission Rates.** The total emissions of air contaminants from any of the sources of emissions must not exceed the values stated on the table attached to the permit entitled "Emission Sources-- Maximum Allowable Emission Rates." [30 TAC § 116.115(b)(2)(F)]¹
2. **Maintenance of Emission Control.** The permitted facilities shall not be operated unless all air pollution emission capture and abatement equipment is maintained in good working order and operating properly during normal facility operations. The permit holder shall provide notification in accordance with 30 TAC §101.201, 101.211, and 101.221 of this title (relating to Emissions Event Reporting and Recordkeeping Requirements; Scheduled Maintenance, Startup, and Shutdown Reporting and Recordkeeping Requirements; and Operational Requirements). [30 TAC § 116.115(b)(2)(G)]
3. **Compliance with Rules.** Acceptance of a permit by an applicant constitutes an acknowledgment and agreement that the permit holder will comply with all rules and orders of the commission issued in conformity with the TCAA and the conditions precedent to the granting of the permit. If more than one state or federal rule or regulation or permit condition is applicable, the most stringent limit or condition shall govern and be the standard by which compliance shall be demonstrated. Acceptance includes consent to the entrance of commission employees and agents into the permitted premises at reasonable times to investigate conditions relating to the emission or concentration of air contaminants, including compliance with the permit. [30 TAC § 116.115(b)(2)(H)]
4. **This** permit may not be transferred, assigned, or conveyed by the holder except as provided by rule. [30 TAC § 116.110(e)]
5. **There** may be additional special conditions attached to a permit upon issuance or modification of the permit. Such conditions in a permit may be more restrictive than the requirements of Title 30 of the Texas Administrative Code. [30 TAC § 116.115(c)]
6. **Emissions** from this facility must not cause or contribute to "air pollution" as defined in Texas Health and Safety Code (THSC) §382.003(3) or violate THSC § 382.085. If the executive director determines that such a condition or violation occurs, the holder shall implement additional abatement measures as necessary to control or prevent the condition or violation.
7. **The** permit holder shall comply with all the requirements of this permit. Emissions that exceed the limits of this permit are not authorized and are violations of this permit.¹

¹ Please be advised that the requirements of this provision of the general conditions may not be applicable to greenhouse gas emissions.

Common Acronyms in Air Permits

°C = Temperature in degrees Celsius
 °F = Temperature in degrees Fahrenheit
 °K = Temperature in degrees Kelvin
 µg = microgram
 µg/m³ = microgram per cubic meter
 acfm = actual cubic feet per minute
 AMOC = alternate means of control
 AOS = alternative operating scenario
 AP-42 = Air Pollutant Emission Factors, 5th edition
 APD = Air Permits Division
 API = American Petroleum Institute
 APWL = air pollutant watch list
 BPA = Beaumont/ Port Arthur
 BACT = best available control technology
 BAE = baseline actual emissions
 bbl = barrel
 bbl/day = barrel per day
 bhp = brake horsepower
 BMP = best management practices
 Btu = British thermal unit
 Btu/scf = British thermal unit per standard cubic foot or feet
 CAA = Clean Air Act
 CAM = compliance-assurance monitoring
 CEMS = continuous emissions monitoring systems
 cfm = cubic feet (per) minute
 CFR = Code of Federal Regulations
 CN = customer ID number
 CNG = compressed natural gas
 CO = carbon monoxide
 COMS = continuous opacity monitoring system
 CPMS = continuous parametric monitoring system
 DFW = Dallas/ Fort Worth (Metroplex)
 DE = destruction efficiency
 DRE = destruction and removal efficiency
 dscf = dry standard cubic foot or feet
 dscfm = dry standard cubic foot or feet per minute
 ED = (TCEQ) Executive Director
 EF = emissions factor
 EFR = external floating roof tank
 EGU = electric generating unit
 EI = Emissions Inventory
 ELP = El Paso
 EPA = (United States) Environmental Protection Agency
 EPN = emission point number
 ESL = effects screening level
 ESP = electrostatic precipitator
 FCAA = Federal Clean Air Act
 FCCU = fluid catalytic cracking unit
 FID = flame ionization detector
 FIN = facility identification number
 ft = foot or feet
 ft/sec = foot or feet per second
 g = gram
 gal/wk = gallon per week
 gal/yr = gallon per year

GLC = ground level concentration
 GLC_{max} = maximum (predicted) ground-level concentration
 gpm = gallon per minute
 gr/1000scf = grain per 1000 standard cubic feet
 gr/dscf = grain per dry standard cubic feet
 H₂CO = formaldehyde
 H₂S = hydrogen sulfide
 H₂SO₄ = sulfuric acid
 HAP = hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
 HC = hydrocarbons
 HCl = hydrochloric acid, hydrogen chloride
 Hg = mercury
 HGB = Houston/Galveston/Brazoria
 hp = horsepower
 hr = hour
 IFR = internal floating roof tank
 in H₂O = inches of water
 in Hg = inches of mercury
 IR = infrared
 ISC3 = Industrial Source Complex, a dispersion model
 ISCST3 = Industrial Source Complex Short-Term, a dispersion model
 K = Kelvin; extension of the degree Celsius scaled-down to absolute zero
 LACT = lease automatic custody transfer
 LAER = lowest achievable emission rate
 lb = pound
 lb/day = pound per day
 lb/hr = pound per hour
 lb/MMBtu = pound per million British thermal units
 LDAR = Leak Detection and Repair (Requirements)
 LNG = liquefied natural gas
 LPG = liquefied petroleum gas
 LT/D = long ton per day
 m = meter
 m³ = cubic meter
 m/sec = meters per second
 MACT = maximum achievable control technology
 MAERT = Maximum Allowable Emission Rate Table
 MERA = Modeling and Effects Review Applicability
 mg = milligram
 mg/g = milligram per gram
 mL = milliliter
 MMBtu = million British thermal units
 MMBtu/hr = million British thermal units per hour
 MSDS = material safety data sheet
 MSS = maintenance, startup, and shutdown
 MW = megawatt
 NAAQS = National Ambient Air Quality Standards
 NESHAP = National Emission Standards for Hazardous Air Pollutants
 NGL = natural gas liquids
 NNSR = nonattainment new source review
 NO_x = total oxides of nitrogen
 NSPS = New Source Performance Standards

PAL = plant-wide applicability limit
PBR = Permit(s) by Rule
PCP = pollution control project
PEMS = predictive emission monitoring system
PID = photo ionization detector
PM = periodic monitoring
PM = total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM_{2.5} = particulate matter equal to or less than 2.5 microns in diameter
PM₁₀ = total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
POC = products of combustion
ppb = parts per billion
ppm = parts per million
ppmv = parts per million (by) volume
psia = pounds (per) square inch, absolute
psig = pounds (per) square inch, gage
PTE = potential to emit
RA = relative accuracy
RATA = relative accuracy test audit
RM = reference method
RVP = Reid vapor pressure
scf = standard cubic foot or feet
scfm = standard cubic foot or feet (per) minute
SCR = selective catalytic reduction
SIL = significant impact levels
SNCR = selective non-catalytic reduction
SO₂ = sulfur dioxide
SOCMI = synthetic organic chemical manufacturing industry
SRU = sulfur recovery unit
TAC = Texas Administrative Code
TCAA = Texas Clean Air Act
TCEQ = Texas Commission on Environmental Quality
TD = Toxicology Division
TLV = threshold limit value
TMDL = total maximum daily load
tpd = tons per day
tpy = tons per year
TVP = true vapor pressure
VOC = volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
VRU = vapor recovery unit or system