Acronyms (add to list as needed for your project)

bbl	barrel
CO2e	Carbon dioxide equivalents
CO	Carbon monoxide
CTG	Combustion turbine generator
dscf	Dry standard cubic feet
EPN	Emission point number
EFR	External floating roof
gr	Grain
GHG	Greenhouse gases
hr	Hour
H2S	Hydrogen sulfide
IFR	Internal floating roof
Pb	lead
MSS	Maintenance, startup, shutdown

MW	Megawatt
MWh	Megawatt hour
MMBtu	Million British thermal units
NOx	Nitrogen oxides
O2	Oxygen
PM/PM10/PM2.5	Particulate matter, including PM equal to or
FIVI/FIVI10/FIVI2.5	less than 10 or 2.5 microns in diameter
ppm	Parts per million
lb	Pound
SCR	Selective catalytic reduction
SO2	Sulfur dioxide
H2SO4	Sulfuric acid
tpy	Tons per year
VOC	Volatile organic compounds

Facility Information

Company Name	NRG CEDAR BAYOU 5 LLC
Facility Name	Cedar Bayou Electric Generating Unit 5
Project Description (only address units requiring federal review)	
Facility County	Chambers
Facility Contact (Name, Phone Number)	Mr. Craig Eckberg, (713) 537-2776
Your Contact Info (Name, Phone, Email)	Ms. Ruth Alvirez, (512) 239-5220, Ruth.Alvirez@tceq.texas.gov
Permit Numbers (this list should match your CND header)	160538, PSDTX1528, and GHGPSDTX204
Title V Permit Number (or not yet available)	
Permit Type (All Major & Minor permits)	Add New Process to Existing Facility
Projected Second Public Notice Issuance Date	
Projected Final Issuance Date	
SIC Code	4911
NAICS Industry Code	221112
Facility Registry System Number (or not found)	
Nearest Class I Area	Caney Creek, AR
Distance from Facility to Nearest Class I Area	Greater than 250 km

Pollutants triggering major NSR permitting with this action

VOC	* BACT	* LAER	* MACT
СО	* BACT	* LAER	* MACT
PM	* BACT	* LAER	* MACT
PM10	* BACT	* LAER	* MACT
PM2.5	* BACT	* LAER	* MACT
H2SO4	* BACT	* LAER	* MACT
CO2e	* BACT	* LAER	* MACT

Please copy this page for each source type with pollutants triggering federal review

Source of emis	sions	Turbine – Combined Cy	cle			
Process code f		15.210				
	red (if applicable)	licable) Natural gas				
Throughput wi	th units (leave					
Source notes (MSS emission rates are	included in annual tpy. Work practices to control a	re duration limitation on startup and	shutdown.	
Other applicable requirements * NSPS KKKK, TTTT -Can select multiple * NSPS KKKK, TTTT -List all applicable subchapters * NSPS Click here to enter subpart. and subparts * MACT YYYY -Specify pollutants, if needed * Ch. 115 or 117 Click here to enter subchapter.						
Pollutant <mark>(delete rows</mark> as necessary)	Test Method Blank = unspecified	Control Method (select more than one as needed)	Control Method Description	Other factors considered (health effects, etc.) Blank = none	Numeric Limit with units (required)	
VOC		*Pollution Prevention *Add On Control *No control	Oxidation catalyst		1.0 ppmvd on a 3-hr rolling average	
СО		*Pollution Prevention *Add On Control *No control	Oxidation catalyst		4.0 ppmvd on a 3-hr rolling average	
РМ		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		95.99 tpy	
PM ₁₀		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		95.99 tpy	
PM _{2.5}		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		95.99 tpy	
H ₂ SO ₄		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		16.23 tpy	
CO _{2e}		*Pollution Prevention *Add On Control *No control	Work practices		827 lb CO₂/MWh	

Source of emis	sions	Turbine – Simple Cycle				
Process code f source listed a		16.110				
	ed (if applicable)) Natural gas				
	vith units (leave 14 EE2 E20 MMP when					
Source notes (MSS emission rates are	included in annual tpy. Work practices to control are du	ration limitation on startup and	shutdown.	
Other applicable requirements -Can select multiple -List all applicable subchapters and subparts -Specify pollutants, if needed		* NSPS KKKK, TTTT * NESHAP Click here to * MACT YYYY * Ch. 115 or 117 Click he				
Pollutant (delete rows as necessary)	Test Method Blank = unspecified	Control Method (select more than one as needed)	Control Method Description	Other factors considered (health effects, etc.) Blank = none	Numeric Limit with units (required)	
voc		*Pollution Prevention *Add On Control *No control	Oxidation catalyst		1.5 ppmvd on a 3-hr rolling average	
со		*Pollution Prevention *Add On Control *No control	Oxidation catalyst		3.5 ppmvd on a 3-hr rolling average	
РМ		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		27.49 tpy	
PM10		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		27.49 tpy	
PM _{2.5}		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		27.49 tpy	
H ₂ SO ₄		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		6.69 tpy	
CO _{2e}		*Pollution Prevention *Add On Control *No control	Work practices		1,194 lb CO₂/MWh	

Source of emis	Source of emissions Turbine – Auxiliary Boiler					
Process code for source listed at		16.110				
	Primary fuel fired (if applicable) Natural gas					
Throughput wit	Throughput with units (leave blank if confidential)					
Source notes (c		MSS emission rates are i	included in hour and annual emission rates. Work p	ractices to control are duration limit	ation on startup and shutdown.	
Other applicable requirements * NSPS Dc -Can select multiple * NESHAP Click here to enter subpart. -List all applicable subchapters * MACT DDDDD and subparts * Ch. 115 or 117 Click here to enter subchapter.						
Pollutant (delete rows as necessary)	Test Method Blank = unspecified	Control Method (select more than one as needed)	Control Method Description	Other factors considered (health effects, etc.) Blank = none	Numeric Limit with units (required)	
VOC		*Pollution Prevention *Add On Control *No control	Use of natural gas		0.0054 lb/MMBtu	
со		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		0.037 lb/MMBtu	
РМ		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		7.6 lb/MMscf	
PM ₁₀		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		7.6 lb/MMscf	
PM _{2.5}		*Pollution Prevention *Add On Control *No control	Low sulfur fuel		7.6 lb/MMscf	
CO _{2e}		*Pollution Prevention *Add On Control *No control	Work practices		10,426 tpy	

Source of emis	sions	Diesel Generator				
Process code for source listed a		17.110				
Primary fuel fired (if applicable) Diesel						
Throughput wit	th units (leave	500 hr/yr operational limi	tation			
Source notes (optional)	Engines to be used if Cor	nbined Cycle Turbine Option is choses. MSS emise	sion rates are included in hour and anr	ual emission rates.	
Other applicable requirements * NSPS IIII -Can select multiple * NSPS IIII -List all applicable subchapters and subparts * MACT ZZZZ -Specify pollutants, if needed * Ch. 115 or 117 Click here to enter subchapter.						
Pollutant (delete rows as necessary)	Test Method Blank = unspecified	Control Method (select more than one as needed)	Control Method Description	Other factors considered (health effects, etc.) Blank = none	Numeric Limit with units (required)	
VOC		*Pollution Prevention *Add On Control *No control	Limited hours of operation		0.04 g/hp-hr	
СО		*Pollution Prevention *Add On Control *No control	Limited hours of operation		2.61 g/hp-hr	
РМ		*Pollution Prevention *Add On Control *No control	Limited hours of operation		0.022 g/hp-hr	
PM ₁₀		*Pollution Prevention *Add On Control *No control	Limited hours of operation		0.022 g/hp-hr	
PM _{2.5}		*Pollution Prevention *Add On Control *No control	Limited hours of operation		0.022 g/hp-hr	
CO _{2e}		*Pollution Prevention *Add On Control *No control	Limited hours of operation		592 tpy	

Source of emis	sions	Diesel Generator			
	rocess code for emission 17.110				
Primary fuel fired (if applicable) Diesel					
Throughput with units (leave 500 hr/yr operational limitation 500 hr/yr operational limitation					
Source notes (c		Engines to be used if Sir	nple Cycle Turbine Option is choses. MSS emission	rates are included in hour and annua	al emission rates.
Other applicable requirements * NSPS IIII -Can select multiple * NESHAP Click here to enter subpart. -List all applicable subchapters and subparts * MACT ZZZZ -Specify pollutants, if needed * Ch. 115 or 117 Click here to enter subchapter.					
Pollutant (delete rows as necessary)	Test Method Blank = unspecified	Control Method (select more than one as needed)	Control Method Description	Other factors considered (health effects, etc.) Blank = none	Numeric Limit with units (required)
VOC		*Pollution Prevention *Add On Control *No control	Limited hours of operation		0.50 g/hp-hr
со		*Pollution Prevention *Add On Control *No control	Limited hours of operation		2.61 g/hp-hr
РМ		*Pollution Prevention *Add On Control *No control	Limited hours of operation		0.022 g/hp-hr
PM ₁₀		*Pollution Prevention *Add On Control *No control	Limited hours of operation		0.022 g/hp-hr
PM _{2.5}		*Pollution Prevention *Add On Control *No control	Limited hours of operation		0.022 g/hp-hr
CO _{2e}		*Pollution Prevention *Add On Control *No control	Limited hours of operation		530 tpy

Source of emis	sions	Cooling Tower	cooling Tower					
Process code for source listed al		99.009	.009					
Primary fuel fire	ed (if applicable)							
Throughput wit blank if confide	ential)							
Source notes (c	optional)							
	nultiple cable subchapters	le * NESHAP Click here to enter subpart.						
and subparts	itants, if needed	* Ch. 115 or 117 Click here	e to enter subchapter.					
Pollutant (delete rows as necessary)	Test Method Blank = unspecified	Control Method (select more than one as needed)	Control Method Description	Other factors considered (health effects, etc.) Blank = none	Numeric Limit with units (required)			
РМ		*Pollution Prevention *Add On Control *No control	Drift eliminators – 0.0005%		TDS - 60,000 ppm			
PM10		*Pollution Prevention *Add On Control *No control	Drift eliminators – 0.0005%		TDS - 60,000 ppm			
PM _{2.5}		*Pollution Prevention *Add On Control *No control	Drift eliminators – 0.0005%		TDS - 60,000 ppm			