Plain Language Summary for New Source Review (NSR) Initial Application for Air New Source Review Permit Number 173197/PSDTX1622

The following summary is provided for this pending air permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

Quail Run Carbon Capture, LLC (QRC) (CN606154052) has submitted an application for initial permit number 173197/PSDTX1622. The QRC Carbon Capture Plant (CCP) (RN111762076) will remove carbon dioxide (CO_2) from the flue gas produced by an existing natural gas combined cycle power plant operating as the Quail Run Energy Center (QREC), located at 2950 East Interstate 20, Odessa, Ector County, Texas.

This permit will authorize a carbon capture plant designed to recover 7,546 short tons/day of CO_2 from the flue gas from the four existing gas turbines and duct burners in QREC and three proposed natural gas fueled auxiliary boilers that will generate steam required for the CCP. A cooling tower and associated tankage supporting the CCP are also proposed. QRC has listed in the application the pollutants and amounts that will be emitted for each facility. Below is the total amount for each pollutant that is proposed to be emitted each year for all the facilities.

Pollutant	**Proposed Emissions (tons per year)**
VOC	378.06
PM	57.54
PM_{10}	45.97
$PM_{2.5}$	44.42
NO_X	69.67
CO	233.90
SO_2	3.67
Pb	0.00
HAPs	116.78

The proposed auxiliary boilers will be controlled using low NOx burners and combustion controls to minimize combustion emissions. Greenhouse gases generated by the proposed boilers will be controlled by the carbon capture plant. Drift elimination will be installed on the cooling tower to minimize emisisons of particulate matter from that facility. QRC will employ a leak detection and repair (LDAR) program to minimize fugitive VOC emissions from piping components.