



Texas Commission on Environmental Quality (TCEQ)
Texas Emissions Reduction Plan (TERP)
New Technology Implementation Grant (NTIG) Program

Implementation Period Biannual Status Report Form

Contract Number: 582-23-45841-NG	Grantee Name: Colt Midstream, LLC
Report for Biannual Period: Jan 1, 2024 - Jun 30, 2024	Physical Project Address: 7339 Co. Rd. 403 Stephenville, TX 76401
Date Submitted:	Project Representative Name: Rachel Hisaw
Project Representative E-Mail: Rachel.Hisaw@coltmidstream.com	Project Representative Phone Number: 903-402-9750
Project Summary (150 words or less): Colt will repower two of four in-service compressors located at the Huckabay Gas Processing Plant in Erath County, TX. All four engines are MEP Fairbanks Morse engines. Colt intends to replace two engines with modern Waukesha 7044 S5 1900 engines which will result in annual NOx reduction of 89% and over 87% reduction in formaldehydes, from the facility. The plant typically runs two of four units while the other two units remain in standby. All four units are used at the plant and are rotated for consistent runtime. Colt will treat the new repowered compression as primary units once the project is complete and will commit to 80% runtime on the two repowered units during plant operations. The Huckabay plant has served as a swing plant for many years typically operating approximately 30% of the year and is projected to remain in active service for many years to come	

Section I. Project Progress

A. Indicate which Tasks, as defined in the Grant Contract Scope of Work, are currently in progress. Describe any challenges encountered during the completion of these Tasks. Discuss plans or actions taken to resolve them.

- Task 4:
 - Regeneration Heater: Colt Engineers evaluated numerous options to replace the waste heat regeneration heater currently installed on Engine #2. It was determined that the most efficient solution would be to stay with the current exhaust heat recovery design. However, the temperature of the exhaust on the new engines was more than the existing unit was able to sustain at the necessary pressure. Colt evaluated retubing, but vendors were not comfortable with retubing due to the internal bends and design parameters. Rather, a new waste heat unit was custom designed and purchased. The PO (to Patriot Process Equipment) for that heater along with the design drawings has been provided in this report. The heater will significantly reduce the cost of a new regeneration heater as originally contemplate in the scope since all existing piping, valves, programming, and necessary utilities for the regen heater can remain the same!
 - Repurposed Compression Skids: Both compressor skids were disassembled and evaluated for needed parts and repair – the work on the compressor skids has been conducted exclusively by Colt employees. After bidding the parts to three different vendors, the POs were issued for both skids (Patriot Compressor Parts – unrelated to Patriot Process Equipment). Re-assembly of the skids with new parts is ongoing. Additional fabrication of suction bottles and piping on the skids will commence shortly once reassembly is completed.
 - Colt Automation and Programming Technicians have issued POs for new HMI Panels for the new engines. The panels are a newer model than most of our current engines and therefore will take some time to adapt and program to be consistent with existing Colt units. The programming is just beginning with the received panel.

B. Indicate which Tasks have been completed, and any associated accomplishments during this reporting period. Describe any challenges encountered during the completion of these Tasks. Discuss actions taken to resolve them.

- Task 4:
 - Winward Engineering completed all of their scope of work which is anticipated to conclude the necessary 3rd party engineering work. New cooler sections were a possibility for the coolers to properly cool the new engines. However, Colt was able to repurpose cooler sections from the new skids being brought in by removing them and mounting them to the existing coolers located at the Huckabay plant.
- Task 3:
 - Completed with the acceptance of Colts PBR application (acceptance letter PBR 175536)

Section II. Goals for Upcoming Period

A. Provide a brief description of the Tasks and/or other project goals you hope to realize in the coming period and identify any notable challenges that can be foreseen.

- Complete skid repurposing (assembly, bottles, piping)
- WOs
- Receipt of Regen Heater
- Removal of Existing Engines and Skids
- Installation of new skids
- Piping, Valves, Electrical/Automation
- Paint and Personnel Protection
- Programming
- Purchase Catalysts
- Receive Engines
- Point Testing
- Commission Engines
- In Service

Authorized Official/ Project Representative's Printed name

Tommy Chernosky

Authorized Official Signature/ Project Representative's name

Date



6-24-24

Note: Please attach any additional information that you feel should be a part of your report.

This form may be submitted via e-mail to your Contract Manager, Drew Weise at

drew.weise@tceq.texas.gov.

