



Photo provided by ZAP Engineering & Construction Services, Inc.

GAS GATHERING COMPRESSION BOOSTER COMPRESSOR STATION

DCP MIDSTREAM ROCKY MOUNTAIN

OWNER

DCP Midstream

LOCATION

Weld County, Colorado, USA

PRODUCT

**Two Taurus™ 70 Gas Compressor Sets with
C33 and C41 Compressors**

CUSTOMER VALUE

**Reduced Emissions Footprint,
High Availability and Reliability**

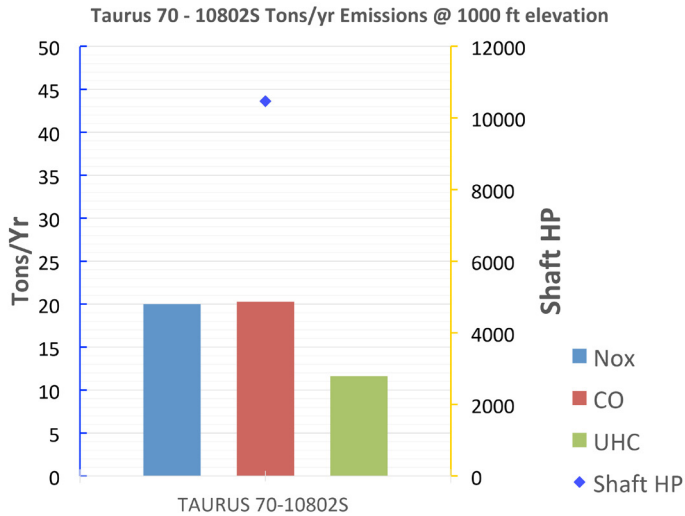
In 2013, DCP Midstream ordered the first pair of several Taurus 70 compressor trains to be installed in the DJ Basin in Colorado to serve as gas gathering compressors at their Rocky Mountain Booster Compressor Station. Solar Turbines supplied two Taurus 70 compressor packages driving C41 and C33 compressor trains (LP/HP) in tandem to achieve the required compression ratios greater than 11:1.

DCP has found great success in running the two Taurus 70 compressor packages base loaded in a 2 x 50% capacity due to their high equipment reliability and availability, increasing operational efficiency and dependability as they gather and distribute their customers' gas for processing.

Solar® Turbines

A Caterpillar Company

Gas Gathering Compression – Booster Compressor Station



PROJECT DETAILS

Two Taurus 70 Two-Shaft Gas Turbines

- Gas Fuel
- SoLoNO_x (DLE) Combustion System
– <15 ppm NO_x, 25 ppm CO, 25 ppm UHC
- 11,150 ISO HP (8320 kW)

Available Heat (ISO):

Exhaust Flow: 215,990 lb/hr (97,970 kg/hr)

Exhaust Temp: 935°F (500°C)

Driven Equipment:

- C41 and C33 Compressors Driven in Tandem
- C41 Low Pressure Compressor:
– Max Head - 90,000 ft-lb; Max Flow - 18,000 acfm (510 M³/min)
- C33 High Pressure Compressor:
– Max Head - 86,000 ft-lb; Max Flow - 9000 acfm (226 M³/min)

REDUCED EMISSIONS FOOTPRINT

Solar has been providing gas turbines with SoLoNO_x[™], dry low emissions (DLE) technology since the 1980s and is the industry leader for experience, reliability and dependability.

DCP Midstream's pair of Taurus 70 compressor sets can move +92 MMSCFD at their design point while allowing the compressor stations to stay under 40 tons/year NO_x without the need for a catalyst.

RELIABLE POWER AND HEAT

Solar Turbines offers gas turbine packages ranging from 1590 to 31,900 HP. These products play an important role in the development of oil, natural gas and power generation projects around the world, both onshore and offshore. Solar's products include gas turbine engines, gas compressors, and gas turbine powered compressor, mechanical-drive and generator packages. Solar also manufactures a complete line of electric motor driven (EMD) compressor packages supporting the oil and gas industry's compression needs.

Solar's oil and gas customers put the company's products to work in production, processing, and pipeline transmission and in the generation of electricity and thermal energy for processing applications. The units are designed to operate in harsh environments and on a variety of liquid and gaseous fuels. In addition, these versatile gas turbines are available with dual fuel and triple fuel systems, allowing them to operate interchangeably on multiple fuels for even greater operating flexibility.



**OPTIMIZED ENGINE AND
COMPRESSOR CONFIGURATION
REDUCED FUEL CONSUMPTION
AND EMISSION LEVELS OVER
99% RELIABILITY**