



July 10, 2013

Contacts

Camron Harry
Project Engineer
801-536-4232
CAHarry@utah.gov

Marty Gray
NSR Permitting Manager
801-536-4151
MartyGray@utah.gov

Harold Burge
Major Source Compliance Manager
801-536-4129
HBurge@utah.gov

Visit the DAQ Web Site

[www.airquality.utah.gov/
Public-Interest/Holly_refinery/](http://www.airquality.utah.gov/Public-Interest/Holly_refinery/)

DAQ

Utah Department of Environmental Quality Division of Air Quality

Information Sheet

Holly Refinery Heavy Crude Processing

Holly Refinery is proposing to modify its current operations to increase production of black and yellow wax from the Uintah Basin. The proposed modification includes the addition of a crude processing unit, a fluid catalytic cracking unit, a poly gasoline unit, a hydroisomerization unit for lube oils, new cooling towers, crude unloading bays, several storage tanks, and additional wastewater treatment. The processing capacity of the refinery is projected to increase from its current permit level of 40,000 barrels per day (BPD) to 60,000 BPD.

Permitting History

Holly Refinery submitted a Notice of Intent (NOI) for the Heavy Crude Processing Project on May 23, 2012 and a revised NOI on July 12, 2012. A 55-day public comment period began on December 4, 2012 and closed on January 28, 2013. A public hearing was held on January 3, 2013. Comments received by the Division of Air Quality (DAQ) during the public comment period result in modifications to its Intent to Approve (ITA). A 45-day public comment period began on June 10, 2013 and closes on July 25, 2013 for this revised ITA.

Project Modifications

- 2008 EPA Consent Decree emission reductions have been removed from the PSD and Major NSR applicability netting analysis
- The poly gasoline unit heater will now be an electric heater
- Four existing gas driven compressor engines will be replaced with four electric compressor engines.
- EPA published AP-42 PM emission factors have been replaced with EPA published PM National Emissions Inventory (NEI) emission factors.
- Baseline actual emission 24-month periods for criteria pollutants were changed
- The PSD, Major NSR, and offsetting applicability and netting analysis calculations have been adjusted with the removal of Consent Decree emission reduction. The project remains PSD for carbon monoxide and greenhouse gases. No offset requirements were triggered.
- The permit caps for nitrogen oxides, sulfur dioxide, and particulate matter have been reduced.



Emission Caps

DAQ is proposing to reduce the SO₂, PM₁₀, and NO_x emission limits under Holly Refinery's current Approval Order (AO) to reflect the proposed emission decreases resulting from the Heavy Crude Processing Project. DAQ has also proposed to remove exemptions for previously excluded equipment and incorporate source wide AO emission limits. These changes to Holly Refinery's current permit caps will reduce allowable emissions from the facility.

Approval Order Emission Caps Reductions (in tons per year)

Particulate Matter (PM ₁₀):	-0.05
Nitrogen Oxides (NO _x):	-322.9
Sulfur Dioxides (SO ₂):	-725.7

Comments

The Holly Refinery proposal and DAQ's evaluation of its impact on air quality are available for public review and comment at DAQ and on the Department of Environmental Quality web site. Written comments can be sent to DAQ at 195 North 1950 West, Salt Lake City, UT 84116. E-mail comments can be sent to Camron Harry at caharry@utah.gov. Oral and written comments made at the public hearing will be considered equally with other comments submitted during the comment period.

Projected Emissions Increase/Decrease for Modification (in tons per year)

Particulate Matter (PM ₁₀):	+8.31
Particulate Matter (PM _{2.5}):	+6.82
Nitrogen Oxides (NO _x):	-21.53
Sulfur Dioxides (SO ₂):	-150.69
Carbon Monoxide (CO):	+146.76
Volatile Organic Compounds (VOCs):	-17.02
Total Hazardous Air Pollutants (HAPS):	+13.08
Carbon Dioxide equivalent (CO ₂ e):	+279,610

Public comment is a prerequisite to challenging permitting decisions. A person who wishes to challenge a permit may only raise an issue or argument during an adjudicatory proceeding that was raised during the public comment period and was supported with sufficient information or documentation to enable the director to fully consider the substance and significance of the issue.

