

CRYSTAL CLEAR BENEFITS:



SUBJECT:

Sangre de Cristo Water Utility,
Sante Fe, New Mexico

COMPANY PROFILE:

Sangre de Cristo is the municipal water utility serving the city of Sante Fe. The system provides service to more than 80,000 people, delivering 11 million gallons of water on an average day and over 21 million gallons on a peak day.

INSTALLATION REQUIREMENTS:

Four booster pumping stations, located at 3.6 mile intervals along a 14.5 mile pipeline, pump water from eight water wells in the Buckman Well Field. Each station lifts the water 400 feet until it reaches a 10 million gallon tank, where it is then treated and delivered to the city.

WAUKESHA EQUIPMENT:

Each of the four stations has a Waukesha® VGF™ H24GL gas engine rated at 205 to 375 HP driving a pump through a right angle gearhead.

HISTORY:

Since May of 1992, when the system began operating, each of the four Waukesha® engines has driven the pumps more than 72,000 hours at prime power, 24 hours a day.

COST EFFECTIVENESS:

During peak hours, when electric rates are higher, Waukesha gas engines save money on operating costs.

WHY WAUKESHA?

Pumping conditions vary with a flow between 1600 to 2700 gpm, and heads between 380 and 552 feet. Waukesha engines were selected for their ability to operate at varying speeds from 1400 to 1750 rpm, ensuring even water flow from station to station.

According to head mechanic Eric Armstrong, "The Waukesha engines are very versatile. They provide power for a wide range of pumping conditions, and an even flow without cycling the pumps on and off, as was previously the case with the electric motor driven pumps."



Water is pumped from eight wells through four pump stations into a 10 million gallon tank, where it is treated and then distributed to 80,000 people.

For more information on this Waukesha Engine installation, or Waukesha's capabilities, contact Waukesha Engine, Dresser, Inc., 1000 West St. Paul Ave., Waukesha, WI 53188, (262) 547-3311, Fax: (262) 549-2795.



The variable speed capabilities of a Waukesha gas engine provide the flexibility needed to keep water levels constant without the frequent stop-and-restarts required for electric motors. As a result, maintenance and repair costs are kept to a minimum.

UNIQUE CHARACTERISTICS:

Originally, the pumping stations had two electric driven pumps installed with plans for a third electric pump in the future. The third pump was fitted with the Waukesha system because of the gas engine's advantages, most notably its capability for variable speed operation. Waukesha engines also increase system reliability because stations now have a dual power source.

Waukesha Provides Crystal Clear Benefits
for Sangre de Cristo Water Utility



Waukesha

www.waukeshaengine.dresser.com

“Our Waukesha engines
allow us to serve a consistent
flow of water to over 80,000
people every day.”

— Eric Armstrong,
Head Mechanic,
Sangre de Cristo Water Utility



Waukesha

www.waukeshaengine.dresser.com



Waukesha



Bulletin No. 1408 - 5M 07/02

All sales subject to standard terms of sale
including warranty and limitations of liability.

Waukesha and Dresser are registered trademarks of Dresser, Inc. VGF is a trademark of Dresser, Inc. All other trademarks, service marks, logos, slogans and tradenames are the properties of their respective owners. Dresser, Inc. disclaims any proprietary interest in these marks owned by others.

©2002 Waukesha Engine, Dresser, Inc. All Rights Reserved.