

APPLICATIONS PUMPS



FIRE PROTECTION AND CLEAN-UP SYSTEM

File No. 99

Section 9

PROBLEM:

To provide a fail-safe, effective fire protection system and reduce fire danger by keeping compressor area clear of hazardous oil and grease deposits.

SOLUTION:

Installation of a constant full pressure fire protection header which would immediately flood entire compressor station as a result of a rise in temperature or a drop in pressure in the system. Also would provide a central high pressure cleaning system.

OPERATION:

The six large engine compressors at this location are used to pressurize natural gas as it is drawn from the ground to dehydrate, as well as provide a means of propelling it to its destination. With a large volume of compressed gas in proximity, the concern for fire and explosion is critical.

At this White Castle, LA plant, the CAT PUMP is used to maintain continuous pressure on the fire protection system. Pressure switches in the system start the pump anytime the pressure drops below 850 PSI. Some twenty-five 180°F fuse plugs are installed at predetermined probable hazard locations on the INGERSOLL-RAND SVG engine compressor. Any open fuse immediately shuts down the compressor engine and opens the valve on the protection system, flooding the engine area.

All six engine compressor areas can be protected with this one pump by running piping to the other locations.

The installation also does "double duty" by providing a high pressure cleaning system with six clean-up stations.

SPECIFICATIONS:

CAT PUMPS Model	6020
Pressure	1000 PSI
Flow	60 GPM
Temperature	Ambient
Fluid.....	Water
Duty Cycle.....	Continuous as needed
Drive	50 H.P. explosion proof electric

BENEFITS:

- Lower insurance rates.
- A positive, 100% fail-safe fire protection system.
- Most effective system under adverse conditions.
- Also provides a multiple station central cleaning system, resulting in a safer plant.

"Customer confidence is our greatest asset"

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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