

Murray (D-R legacy) Footprint in a Sugar Mill

Drop-in replacement turbine with an upgraded Trip and Throttle valve

Project Description

The customer operated a Murray R type turbine built in 1958. This turbine drives a sugar mill. The case presented steam leaks and visible cracks, representing a safety issue for the customer. The turbine was locally repaired (welded) many times, but no improvement was observed. They contacted Siemens Energy to obtain a drop-in replacement steam turbine with an upgraded trip and throttle valve.

Solution

Siemens Energy recommended installing a drop-in footprint replacement to match all piping connections. The turbine includes an upgraded Trip and Throttle valve (Gimpel). The turbine is also interchangeable with other six units, which the customer operates so that he won't have to maintain different spare components.

[➤ Check our product information on Gimpel Valves](#)

Customer Value

The turbine was satisfactorily installed in one week, and no changes were required at the site. The customer now has a new turbine that is much more reliable and safer.

Parameters	Inlet Pressure (psig)	Inlet Temperature (°F)	Exhaust Pressure (psig)	Power (HP)	Speed (RPM)	Estimated Rate (lbs/hphr)
Original Design	350	600	20	1290	4500	19.8
New Design	350	600	20	1290	4500	19.8

[➤ Learn more about our Footprint Solution, Parts & Upgrades](#)

Our service offerings boost your profitability with optimized sustainable solutions.

Highlights

- Industrial Steam Turbine Dresser-Rand Legacy
- Murray R Type
- New Drop-in footprint
- 25% of power increase
- Higher operational reliability and safety



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