



PLANT SYSTEMS ENGINEERING

ROTARY DRYER: GRANULE PLANT

Project Requirements: A granule manufacturer purchased a used 11' diameter by 60' long rotary dryer to dry crushed stone. The dryer and its drive train required extensive field measurements and reverse engineering to enable the design of the foundations, material handling and pollution control systems.

Solution Method:

After reverse engineering the dryer shell, drive and trunnions, our design included:

- Foundations and pedestals for dryer and building.
- Feed and take-away belt conveyors.
- Pollution control systems considering elevated temp's and moisture.
- Gas train and combustion air piping
- Structural steel for building and supports



Overall view of dryer building and bag house mounted above the structure.



Dryer shell and riding rings



Burner end of dryer with natural gas and combustion air piping



Pedestal foundation and access platforms for trunnion service

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