

LADWP Utilizes Synergy® Coated Gas Transmission Pipe for Scattergood Generating Station

Los Angeles Water and Power (LADWP) is in the final phases of a major upgrade to the Scattergood Generating plant. The ongoing project will replace inefficient steam generators with efficient gas turbine technology as well as utilize air-cooling without the need to use the current once-through ocean water cooling system. The combined-cycle and the simple-cycle turbines have fast start and ramp-up capabilities for short-term increases in electrical demand. The overall project is estimated to cost about \$950 million and will be completed in two separate phases. The first phase of the project will replace the capacity at Scattergood with natural gas-fired combustion turbines and heat recovery steam generators. The new generating units will be 33% more fuel efficient than the existing Unit 3 and feature advanced pollution control systems, thereby reducing emissions of air pollutants and greenhouses gases. The buried portion of the gas transmission lines use the Synergy® coating system, while other portions required a high temperature epoxy system for the enclosed 316 Stainless Steel (SS) piping.

Project Details and Project Summary

Project Name	Scattergood Generating Repowering Project
Location and Timing	El Segundo, CA Feb. 2014
Pipe Size and Length	3,500 Lineal Feet of 2"-12" Synergy® and epoxy coated pipe for corrosion prevention
Coatings:	Carbon Steel: 50 Mills of Synergy® Fused Coating Stainless Steel: 2 coats Carboline® Thermaline 450 at 8-10 mil per coat
Customer	Los Angeles Department of Water and Power
Distributor	Wolseley Industrial



Portions of the Synergy® coated pipe loaded with end caps for protection. In addition to natural gas transmission, Synergy® can be used for water distribution and transmission lines

The Synergy® coating system is an excellent choice for quick turn around and demanding project schedules. The system is run on an automated conveyor line, so projects are executed quickly and accurately, with delivery times typically within two weeks. In addition, Mobile Pipe can apply a wide variety of specialty paint coatings which saves contractors time and money in shipping pipe to additional locations. The coating of the LADWP 316 SS pipe was quickly completed within the required time frame in addition to the Synergy® coated pipe demonstrating the flexibility of the Mobile Pipe organization.

“The specification gave us a choice for coatings; however we chose Mobile because of their coatings versatility, professionalism, and expertise in coatings. Their commitment to customers, fair pricing, and attention to detail helped us win this job.” James Grigg, Wolseley Industrial.