



CASE STUDY

Waste Treatment Plant Ends Weekly Slurry-Line Replacements with Durastatic® Pipe

— THE PROBLEM

The Naugatuck Treatment Company is a 10 million gallon a day waste treatment facility which operates at a 48 dry ton per day incinerator capacity. The hot ash from the incinerators is quenched in water then pumped as a slurry to two accumulating lagoons. The glass-like ash is very abrasive. It causes the rapid wear of elbows and other fittings that are subjected to turbulent flow. In problem areas, it was common to replace steel elbows after only a few months of service.

“It seemed like we were replacing pieces of the metal slurry lines on a weekly basis.”

BOB CURINA, PLANT MAINTENANCE DEPARTMENT

— THE SOLUTION

As a result of the recurring maintenance problems, a decision was made to replace both slurry lines. The material selected for the new installation was solid urethane Durastatic® Pipe. This abrasion resistant pipe was chosen because it had a 10-year record of proven success in tough mining and limestone slurry applications.

MARKET

Industrial

SOLUTION

Media Handling

PRODUCT

Polyurethane Durastatic® Pipe

TECHNICAL SPECIFICATIONS

MATERIAL

Solid urethane Durastatic® Pipe

PRESSURE

50 PSI maximum

MEDIA

Abrasive incinerator ash slurry

FACILITY

10 MGD plant, 48 dry ton/day incinerator

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— THE RESULT

After several years of service, the Durastatic® Pipe has performed exceptionally well, neither fittings nor pipe have yet required replacement due to wear. In fact, on those occasions when the line has been disassembled, visual inspection has failed to detect any sign of wear. In addition to its excellent abrasion resistance, other features of this low pressure (50 PSI maximum) urethane pipe system includes its light weight (approximately 85% lighter than steel) and its moderate flexibility. Bob Curina found that these attributes reduced installation time versus metal pipe by 67%.

67%LESS INSTALLATION TIME VS. METAL
PIPE**85%**

LIGHTER THAN STEEL

0WEAR REPLACEMENTS IN YEARS OF
SERVICE

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