



Sand and Coke Silos

Millersburg, OR



Pillar Consulting Group was hired to evaluate the structural capacity of existing silo support structures with high levels of corrosion on some components.

3-Dimensions analytical models were created to evaluate members and connections for gravity, wind and seismic loading conditions. Multiple loading conditions were analyzed including both silos being full of material, both silos being empty and many other conditions falling between these two extremes. These loading conditions were coupled with wind and seismic events of various recurrence intervals to help the client better understand the weaknesses of the structure and the likelihood of a structural failure.

Through rigorous analysis, Pillar was able to zero in on the components of most concern and provide retrofit options to address the deficiencies.

Client:
ATI Wah Chang

Pillar's Responsibilities:
Observation of effects of corrosion on existing structure
Structural analysis of existing structure
Design of retrofit options

STRUCTURAL

for more information contact John Evans at 541-752-9202 ext. 114



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