



METAL FABRICATION.



A National Leader in
Custom Industrial Metal Fabrication



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Recently, Ci Metal Fabrication was tasked with a large project to fabricate hundreds of vibration baffles, a key component required to convert a coal-fired boiler over to a natural-gas fired unit. Because the natural gas-fired units use controlled combustion to heat water, the key boiler components involved need to be in place to reduce the vibration produced during the combustion period. For this to work properly, hundreds of stainless steel vibration baffles, some more than 14 foot long, were required to be fabricated for this project.

There is a phenomenon that exists in this coal to natural gas conversion that produces sonic and seismic waves, resulting in excess vibrations in the unit. The waves that are produced during this process need to be controlled and monitored otherwise the machines will not function properly even under the best conditions.

Ci Metal Fabrication fabricated shields for the vibration baffles to absorb the sonic and seismic waves that are a direct result of the controlled combustion in the natural gas units. These vibration baffles shield and absorb these waves, protecting the unit and extending the longevity of the life of the unit.

The use of the vibration baffles in the natural gas-fired units help the units function properly by subduing the excessive sonic and seismic waves that are produced. Ci Metal Fabrication has fabricated vibration baffles for many of the OEM's in the power generation industry for their coal to natural gas conversion projects.

