

CASE HISTORY (PCC Project 3739)

Application:	Combustion Chamber Retrofit (PCC OEM)
Customer:	Chemical Plant
Location:	Eastern United States
Industry:	Chemical Manufacturing
Year Installed:	2015
<u>Thermal Oxidizer Data:</u>	
Quantity:	One (1)
Orientation:	Horizontal Multi-component Refractory lined Combustion Chamber
Type:	Single Stage Low NOx Combustion Process
Size:	4'-5" diameter x 14 feet long
Auxiliary Fuel:	Natural Gas
Total System Capacity:	5.5 MM Btu/hr
Heat Recovery:	N/A
Waste Stream Flow:	234 SCFM MAX
Waste Stream Composition:	Hydrocarbons from Vent sweep header, Reactor Venting Dryer Pump Down, and Other Vent headers. Hydrocarbons, Nitrogen and Ethyl Chloride.
APC Equipment:	Exhaust Stack (By Others)

Background Information:

This project was a retrofit of an existing PCC project under the # NPO-0997-4/E. The end user had been experiencing hot spots, and an eventual burn through on the existing combustion chamber. PCC worked with the end user to resupply a new combustion chamber, coordinate the removal of the existing chamber, install and commission the new chamber, all within a week turnaround.



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Process Combustion Corporation was selected to redesign and supply a low NOx thermal oxidizer combustion chamber and supply a refractory lined expansion joint, not originally in PCC's scope. In addition, the end user wanted PCC to manage the mechanical and electrical installation, as well as the start-up and commission the chamber. PCC was able to fabricate, refractory line, ship, deliver, install, and commission within the timeline the end user had specified

PCC Equipment Scope:

- Refractory-Lined Combustion Chamber
- Refractory-Lined Expansion Joint (Not originally in PCC's scope)
- Installation of equipment
- Commissioning of new chamber





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