CASE STUDY



CECO Peerless Emission Reduction Solutions for Combined Cycle (HRSG) Repower Project

CECO ENVIRONMENTAL

LOCATION: Midwest USA

YEAR BUILT: 2018, 2019 and 2020

PROJECT DESCRIPTION: As part of a customer's repower project, CECO Peerless was contracted to upgrade the emissions control system for a 3 x 1 combined cycle plant whose existing separate CO/VOC oxidation and SCR (DeNOx) systems were insufficient for the increased exhaust flow and higher inlet emissions expected from the repowered combustion turbine-HRSG.





PERFORMANCE AT INITIAL START-UP:

- NOx outlet <2ppmvd@15% O_2 (95%+ reduction)
- NH_3 Slip <5ppmvd@15% O_2
- CO <1ppmvd@15% O_2
- VOC <1ppmvd@15% O_2

CUSTOMER BENEFITS:

- CECO Peerless experience in turnkey retrofits and high-performance emissions retrofits on HRSGs
- CECO Peerless ability to execute quickly: the first unit was installed complete in less than 14 weeks from purchase order
- Lower pressure-drop of the new multi-pollutant catalyst (1 layer) versus separate catalyst layers
- Increased performance efficiency for greater reliability
- Plant operational flexibility with improved emissions system