

# Los Banos, California Food Packaging Plant - Food Processing

## CAPACITY: 180 MMBtu

A Packing Company that owns and operates a plant in California which produces canned diced tomatoes and tomato paste installed a PEMS for compliance with 40 CFR Part 60 on one gas-fired boiler at their facility.

They own and operate a boiler at a facility in Los Banos, California. The boiler, identified as Boiler 3, is a 180 mmBtu/hour natural gas-fired Nebraska Model 500D-100 boiler equipped with a John Zink Variflame burner, an induced flue gas recirculation system and a Haldor Topsoe selective catalytic reduction system with ammonia injection. The boiler is operated in accordance with permit number N-1276-18-0 issued by the San Joaquin Valley Air Pollution Control District.



The unit is subject to 40 CFR 60, Subpart Db - Standards of Performance for Industrial/Commercial/Institutional Steam Generating Units. These regulations require installation, calibration, maintenance, and operation of a continuous emission monitoring system for measuring and documenting NO<sub>x</sub> and O<sub>2</sub> (or CO<sub>2</sub>) emissions discharged to the atmosphere.

The exhaust gas is discharged to the atmosphere through a 60-inch diameter stack. Emissions are monitored using a statistical hybrid predictive emissions monitoring system (PEMS). The PEMS installed is a SmartCEMS<sup>®</sup>-60 analyzers provided by CMC Solutions, L.L.C. Model training data was collected with a certified continuous emission monitoring system (CEMS).

**DAS System:** None

### History of Project Development:

**07/01/2007**

A certified testing company came onsite and collected data for the model training

**07/14/2010**

The model was deployed at the site. The initial PEMS serial number was Boiler 1.1686.40408.40447.

**08/18/2010 – 08/20/2010**

Avogadro Group conducted the initial 30 run certification RATA with the following results:

Parameter	Load	RA Results	PS16 Section 13.1
NO <sub>x</sub> PEMS Analyzer ppm @ 3% O <sub>2</sub>	Low	0.23 ppm diff	<2 ppm mean difference
NO <sub>x</sub> PEMS Analyzer ppm @ 3% O <sub>2</sub>	Mid	0.01 ppm diff	<2 ppm mean difference

NOx PEMS Analyzer	High	0.13 ppm diff	<2 ppm mean difference
-------------------	------	---------------	------------------------

**08/26/2010**

The QA Plan was prepared and provided

**10/01/2010**

The Certification documentation was prepared for the Boiler 3 PEMS

**PRODUCTS:**

