

# AirPol Wet Electrostatic Precipitator

## Controls Test Burn Smoke Emissions

**Challenge:** Develop a “solution” resulting from growth and new control requirements.

**Goals:**

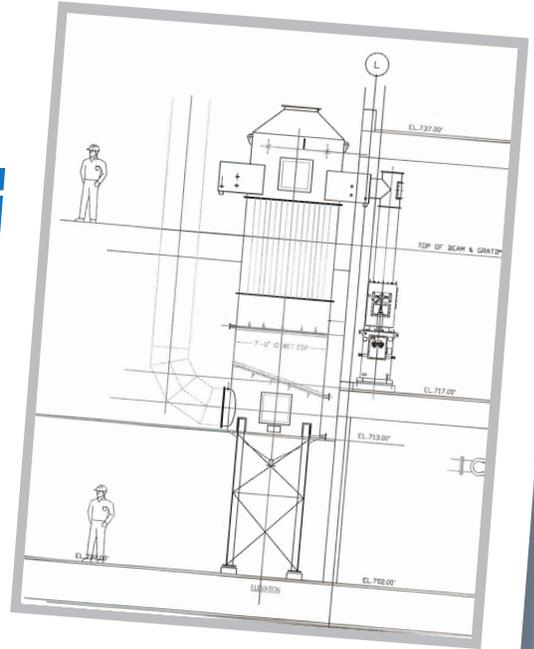
As part of a facilities expansion several fire test chambers had been added. Approved permits required that these chambers be ventilated and evacuated and the resulting smoke/particulate emissions controlled during and after a trial burn.

**Solution:**

After the recommended number of air changes were established for the chamber volume and typical tests burns involving hotel furniture, a ventilation rate of 10,8000 ACFM was set as the design basis. Due to the very limited site ground space that was available adjacent to the test building an up-flow design WESP was selected as the most space-efficient, having a short exhaust stack discharging directly to atmosphere mounted atop the WESP.

**Conclusion:**

The system easily met and exceeded the State requirements for particulate emissions and opacity, not to exceed 10% Actual results were less than one third of allowable, at very low pressure drop.



## Project at a Glance

**Application:**

Particulate emissions and Opacity

**Location:**

Cranston, RI

**Industry:**

Tank Farm

**Year Installed:**

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