

**San Joaquin Valley  
Unified Air Pollution Control District  
Best Performance Standard (BPS) x.x.xx**

Date: April 17, 2013

<b>Class</b>	<b><i>Process Heaters</i></b>
<b>Category</b>	<b><i>Thermal Fluid Heat Transfer System</i></b>
<b>BPS Specification</b>	<p>Thermal heat transfer systems meeting this Best Performance Standard shall comply with all elements listed below:</p> <ol style="list-style-type: none"> <li>1. The unit shall be fired with natural gas where natural gas utility service is available. When not available, the unit may be fired on propane, butane or LPG.</li> <li>2. The thermal fluid heater shall be a forced-draft design.</li> <li>3. The thermal fluid heater shall be designed to recover heat from the stack sufficient to achieve a stack temperature of no greater than the temperature of the returning heat transfer fluid plus 150 F when operating at design firing rate.</li> <li>4. The burner and firing controls for the thermal fluid heater shall include an O2 trim control system or other alternate system which is designed to minimize the excess air in the heater exhaust.</li> <li>5. The combustion air blower shall be powered with a variable speed drive which serves to modulate the flow from the fan to match system demand unless it can be demonstrated to the satisfaction of the APCO that the process requires specific fire safety devices which are incompatible with variable speed drives.</li> <li>6. The motors driving the combustion air fan and the thermal fluid circulating pump shall be NEMA premium efficiency motors.</li> </ol>

<b>Percentage Achieved GHG Emission Reduction Relative to Baseline Emissions</b>	<b>9.5%</b>
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<b>District Project Number</b>	C-1100388
<b>Evaluating Engineer</b>	Dennis Roberts, P.E.
<b>Lead Engineer</b>	Martin Keast
<b>Public Notice of Intent Date</b>	November 13, 2013
<b>Public Notice: Start Date</b>	3/18/13
<b>Public Notice: End Date</b>	4/17/13
<b>Determination Effective Date</b>	4/17/13