

**San Joaquin Valley
Unified Air Pollution Control District**

Best Performance Standard (BPS) x.x.xx

Date: March 12, 2013

Class	<i>Process Heaters</i>
Category	<i>Thermal Fluid Heat Transfer System</i>
BPS Specification	<p>Thermal heat transfer systems meeting this Best Performance Standard shall comply with all elements listed below:</p> <ol style="list-style-type: none"> 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. 2. The thermal fluid heater shall be a forced-draft design. 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. 4. The burner and firing controls for the thermal fluid heater shall include an O2 trim control system, designed to minimize the excess air in the heater exhaust. 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 6. The motors driving the combustion air fan and the thermal fluid circulating pump shall be NEMA premium efficiency motors.

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