



71McMurray Rd., Suite 205
Pittsburgh, PA 15241
Ph: 412-833-0687
Fax: 412-833-1745
rkeibler@nacahtech.com
www.nacahtech.com

Award Winning Innovation for Direct fired TOs with Heat Recovery by NacahTech LLC

Delivering sustainable solutions for difficult air pollutants

For Immediate Release:

1/25/2011

**Contact: Robert Keibler
Nacah Tech LLC
71 McMurray Rd., Suite 205
Pittsburgh, PA 15241
(412) 833-0687
(412) 833-1745 Fax
rkeibler@nacahtech.com**

Pittsburgh, Pennsylvania– NacahTech LLC recently earned EBJ's 2010 Business Achievement Award for Technology Merit in Waste Management & Pollution Control for their innovation in thermal oxidizer design for a new asphalt facility with steam preheat and low operating costs. NacahTech designed and provided a unique air pollution solution for a new start-up asphalt plant which is both resource-friendly and technically innovative. A gas-fired thermal oxidizer (TO) oxidizes the effluent from the refining process and then captures the exhaust heat within a unique heat recovery system using therminol. The heated therminol is used to generate steam and/or heat asphalt flux for the refining process. This note-worthy design provides both long-term operating cost savings for the user and sustainable attributes of clean air and less fossil-fuel consumption. The stand-alone therminol heater and/or boiler may be idled while the heat is provided "free" from the TO recovery system. Additionally, combustion air preheat recovers more heat to reduce fuel consumption. The redundant TO design allows continual plant operation and seamless transition between units while the plant has capacity options to meet the market demands for which it has already been seeking increases. Initial operation showed the TO system operated with auxiliary burner on minimum and maintained the DRE. The Pittsburgh, PA company worked closely with engineers and user to custom-design the system to

compactly fit their plant layout, system needs, and provide project management oversight for the system components prior to site delivery. NacahTech also provided equipment sourcing, vendor on-site visits, and delivery scheduling to facilitate a smoother installation.

