

## **ClearSign Announces Agreement to Install Duplex Technology in Third Oil & Gas Operation**

**New refinery customer joins Tricor, LLC and Aera Energy LLC -- looks to ClearSign to reduce environmental impact at California refinery while improving bottom line.**

SEATTLE, Jan. 22, 2015 /PRNewswire/ -- [ClearSign Combustion Corporation](#) (NASDAQ: CLIR), an emerging leader in combustion and emissions control technology for industrial, commercial and utility markets, announced today the signing of a field validation agreement with a California-based refinery to retrofit a three-burner, 12 MMBtu/hr process heater with its proprietary [Duplex™ technology](#).

The agreement comes in the wake of [last week's announcement](#) of a field validation with [Tricor Refining, LLC](#) to retrofit a 15 MMBtu/hr vertical cylindrical heater.

ClearSign is also conducting continuous operation testing of Duplex technology in a 62.5 MMBtu/hr steam generator operated by [Aera Energy LLC](#). While additional testing is ongoing, ClearSign reports that tests below the maximum firing rate have yielded encouraging results including NOx emissions that satisfy the San Joaquin Valley Air Quality Management District's Rule 4320.

The new refinery customer, announced today, selected ClearSign's Duplex technology for its unique ability to safely and cost-effectively lower NOx emissions to below 6 PPM in southern California -- a region with among the most stringent air quality standards in the world -- without the need for more expensive flue gas recirculation (FGR) or selective catalytic reduction (SCR) after-treatment. Unlike current ultra-low NOx burners, ClearSign's Duplex technology achieves this emissions performance without the potential limits to furnace capacity.

"This agreement is another example of the increasing demand for ClearSign's transformative Duplex technology and its unique ability to solve the critical environmental and operational challenges our refinery customers are facing," said Stephen Pirnat, CEO of ClearSign.

ClearSign will again collaborate in this project with [Advanced Combustion and Process Controls, Inc.](#), who will oversee the installation.

### **About ClearSign Combustion Corporation**

ClearSign Combustion Corporation designs and develops technologies that aim to improve key performance characteristics of combustion systems including energy efficiency, emissions control, fuel flexibility and overall cost effectiveness. Our patent-pending Duplex™ and Electrodynamic Combustion Control™ platform technologies improve control of flame shape and heat transfer and optimize the complex chemical reactions that occur during combustion in order to minimize harmful emissions. For more information about the Company, please visit [www.clearsign.com](http://www.clearsign.com)

### **Cautionary note on forward-looking statements**

This press release includes forward-looking information and statements within the meaning of the Private Securities Litigation Reform Act of 1995 and the provisions of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Except for historical information contained in this release, statements in this release may constitute forward-looking statements regarding our assumptions, projections, expectations, targets, intentions or beliefs about future events that are based on management's belief, as well as assumptions made by, and information currently available to, management. While we believe that our expectations are based upon reasonable assumptions, there can be no assurances that our goals and strategy will be realized. Numerous factors, including risks and uncertainties, may affect our actual results and may cause results to differ materially from those expressed in forward-looking statements made by us or on our behalf. Some of these factors include the acceptance of existing and future products, the impact of competitive products and pricing, general business and economic conditions, and other factors detailed in our Quarterly Report on Form 10-Q and other periodic reports filed with the SEC. We specifically disclaim any obligation to update or revise any forward-looking statement whether as a result of new information, future developments or otherwise.

To view the original version on PR Newswire, visit: <http://www.prnewswire.com/news-releases/clearsign-announces-agreement-to-install-duplex-technology-in-third-oil--gas-operation-300024052.html>

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