

US EPA ARCHIVE DOCUMENT

From: [Warnement, Tom E](#)
To: [Wilson, Aimee](#)
Subject: Equistar Channelview - Olefins Expansion Follow-up Response
Date: Monday, April 01, 2013 9:21:18 AM

Aimee,

The following is response to your phone message on Thursday March 28.

Please use the term "cracking heater" as opposed to "cracking furnace".

The flue gas/stack temperature of 408°F is below the temperature for Post-Combustion Catalytic Oxidation. Typical low ends of operating temperature ranges for catalytic oxidation are 250°C (482 °F) or higher. In addition, the flue gas CH₄ concentration is about two orders of magnitude below the lower end of VOC concentration in streams which would typically be fitted with catalytic oxidation for control.

Capital cost for carbon capture is estimated to be more than \$108-million, and for transportation is estimated at \$21-million. The total cost for CCS is therefore estimated to be greater than \$129-million. The estimated cost of CCS would be approximately 60 to 70 percent of the total estimated capital cost of the Channelview Olefins project.

Please let me know if you have any questions.

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