

US EPA ARCHIVE DOCUMENT

**From:** [Andrew Chartrand](#)  
**To:** [Wilson, Aimee](#)  
**Cc:** [David.Ayers@cheniere.com](mailto:David.Ayers@cheniere.com)  
**Subject:** RE: Corpus Christie Liquefaction Project GHG Application  
**Date:** Friday, May 24, 2013 11:49:31 AM

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Aimee,

Here are responses to your first two questions. We will be providing responses to the BACT questions for electric driven compressors early next week.

Comment: Are the turbines combined cycle or simple cycle?

*Response: The propane and methane turbines are simple cycle. The ethylene compressor turbines are considered combined cycle since the waste heat from them is utilized to heat a synthetic hot oil. The waste heat recovery from the ethylene compressor turbines will provide all of the heating required for the LNG trains.*

Comment: Does each ethylene gas turbine have a dedicated waste heat recovery unit or does each train share a WHRU?

*Response: Each ethylene gas turbine has a dedicated waste heat recovery unit.*

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**From:** Wilson, Aimee [mailto:Wilson.Aimee@epa.gov]  
**Sent:** Thursday, May 02, 2013 7:39 AM  
**To:** Andrew Chartrand  
**Subject:** Corpus Christie Liquefaction Project GHG Application

Andrew,

I started working on the draft permit and statement of basis for the Corpus Christi Liquefaction project yesterday. I have a couple of questions.

Are the turbines combined cycle or simple cycle? Does each ethylene gas turbine have a dedicated waste heat recovery unit or does each train share a WHRU?

I will need more information on the basis for eliminating electric driven compressors in the turbine BACT analysis. Please detail why electric motor drives are not feasible. Is there a concern with power supply to the facility? Is there a concern with the costs? Are gas fired turbines needed to supply heat to other areas of the process, that if not selected would require the installation of additional heaters or other combustion devices that would increase the GHG emissions? It will be extremely difficult for us to defend eliminating electric drive compressors for LNG liquefaction when that is what is proposed by Freeport, especially when Freeport will be going to notice before

Corpus Christi.

Also please provide a detailed analysis on how selection of electric drive compressors is redefining the source.

Feel free to call me if you have any questions.

Thanks,  
Aimee

AW Slg



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