

US EPA ARCHIVE DOCUMENT

formosa-olefins-expansion-ghg-calculations.txt
From: Eric Quiat <equiat@zephyrenv.com>
Sent: Tuesday, May 13, 2014 12:23 PM
To: Wilson, Aimee; LeDoux, Erica
Cc: Karen Olson; Tammy Lasater / FDDE
Subject: Revised Olefins Expansion GHG Calculations
Attachments: Revised OL3 GHG calcs NG and fuel gas May 2014.pdf

Erica, Aimee:

Attached are revised Tables A-1 through A-3 of the Olefins Expansion GHG emission calculations. In response to your request, we have revised the number of hours of natural gas and fuel gas firing for the pyrolysis furnaces, PDH reactors and steam boilers so that the total hours for each unit does not exceed 8760 hours per year.

FPC TX would like to note (as shown in the footnotes of Table A-2 and A-3) that these units have the capability of firing natural OR fuel gas for up to 8,760 hours/yr. For purposes of calculating GHG emissions, the hours of natural gas or fuel gas firing (shown in the tables) with remainder fuel gas firing are used. The hours of natural gas or fuel firing shown in these tables are not intended to be permit limitations; FPC TX will comply with the GHG emission limits set forth in the permit.

The revised Table A-3 also includes revised sample calculations showing the mathematics for CO2 emissions from fuel gas firing in the PDH reactors that you had asked about on the phone.

Regards,

Eric Quiat P.E. | Project Engineer
Zephyr Environmental Corporation
2600 Via Fortuna, Ste 450 | Austin, TX 78746
Direct: 512.579.3823 | equiat@zephyrenv.com ZephyrEnv.com |
HazMatAcademy.com

From: Eric Quiat
Sent: Monday, May 12, 2014 1:05 PM
To: Wilson, Aimee; Karen Olson; Tammy Lasater
Cc: LeDoux, Erica
Subject: RE: Formosa Gas Turbines - Need Project Cost

Aimee,

formosa-ol efi ns-expansi on-ghg-cal cul ati ons. txt

The gas turbines portion of the Formosa expansion project has an estimated cost of \$543 million dollars.

Regards,

From: Wilson, Aimee [mailto:Wilson.Aimee@epa.gov]
Sent: Tuesday, May 06, 2014 9:03 AM
To: Karen Olson; Tammy Lasater
Cc: Eric Quiat; LeDoux, Erica
Subject: Formosa Gas Turbines - Need Project Cost

In order to have a basis for eliminating CCS for economic reasons on the combustion turbines, I need to have the project capital cost for the gas turbine project only.

Feel free to contact me if you have any questions.

Thanks,
Aimee
Aimee Wilson
U. S. Environmental Protection Agency
Air Permits Section (6PD-R)
1445 Ross Ave. Suite 1200
Dallas, Texas 75202
(214) 665-7596