Applied Natural Gas Fuels (McCarty Landfill, Texas) CA-GREET Model

The applicant has conducted its analysis of direct effects on carbon intensity for this pathway using CA-GREET, v.1.8b (Dec. 2009) (See http://www.arb.ca.gov/fuels/lcfs/ca_greet1.8b_dec09.xls). The standard inputs and parameters specified in CA-GREET remain unchanged except as noted in the input table below. The input table below specifies the spreadsheet location of the CA-GREET inputs and other parameters that were claimed as confidential business information or trade secret by the applicant, but it does not disclose the actual value of such inputs and parameters because they are claimed to be confidential business information or trade secret.

Applied Natural Gas Fuels Input data table (Locations of cells containing Confidential Business Information are shown, but the actual values of such confidential information are not disclosed):

Parameter	Unit	Value	CA-GREET Cell Changed
LFG Recovery and Transport			
Thermal	Btu/MMBtu	Confidential	CA-GREET Default (L85)
Electricity	Btu/MMBtu	Confidential	CA-GREET Default[1] (L91)
Total Energy	Btu/MMBtu	Confidential	N/A
LFG Plant			NG Tab
LFG Processing Efficiency	%	Confidential	AI66 (via C182)
Electricity Fuel Share	%	Confidential	AI79 (via C184)
LFG Fuel Share	%	Confidential	AI75 (via C183)
Natural Gas Fuel Share	%	Confidential	AI76 (via C186)
Electricity	kWh/MMBtu	Confidential	N/A
Electricity	Btu/MMBtu	Confidential	Calculated in CA-GREET (AI91)

[1] http://www.arb.ca.gov/fuels/lcfs/022709lcfs_lfg.pdf, pages 9-10.

LFG	Btu/MMBtu	Confidential	Calculated in CA-GREET (AI87)
Natural Gas	Btu/MMBtu	Confidential	Calculated in CA-GREET (AI85)
Credit for Not Flaring	Btu/MMBtu	Confidential	Calculated in CA-GREET (AJ88)
Total Energy	Btu/MMBtu	Confidential	N/A
ERCT Electricity Grid Mix			Regional LT Tab
Residual oil	%	1.2	J83
Natural gas	%	60.4	J84
Coal	%	33.0	J85
Nuclear	%	0.0	J86
Biomass	%	0.1	J87
Other (renewables)	%	5.3	J88
AZNM Electricity Grid Mix			Regional LT Tab
Residual oil	%	0.1	J83
Natural gas	%	58.2	J84
Coal	%	39.6	J85
Nuclear	%	0.0	J86
Biomass	%	0.3	J87
Other (renewables)	%	2.8	J88
Natural Gas Transport			T&D Flowcharts Tab (via NG Tab)
Pipeline Distance	mi	1,365	F479 (via E148)
Liquefaction			NG Tab
Electricity	kWh/gal LNG	Confidential	N/A
Natural Gas	Btu/gal LNG	Confidential	N/A
Liquefaction Efficiency	%	Confidential	AD66
Electricity Fuel Share	%	Confidential	AD79
Natural Gas Fuel Share	%	Confidential	AD75
Electricity	Btu/MMBtu	Confidential	Calculated in CA-GREET (AD91)
Natural Gas	Btu/MMBtu	Confidential	Calculated in CA-GREET (AD85)
LNG Transport			T&D Tab
Transport Distance	miles	272	CD93
Truck LNG Fuel Share	%	Confidential	CD97
Truck Diesel Fuel Share	%	Confidential	CD95
LNG Storage			Inputs Tab
Boil-Off Rate: % per Day	%/day	0.05 / 0.1	E171 / F171
Duration of Storage or Transit: Days	Days	Confidential	E174 / F174
Recovery Rate for Boil-Off Gas	%	Confidential	E179 / F179
L/CNG			NG Tab
L/CNG Conversion	gCO2e/MJ	1.17	J171