Duonix Beatrice, LP
CA-GREET Model Inputs and Changes

The applicant has conducted its analysis of direct effects on carbon intensity for the pathways 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 tables below. The input tables below specify 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.

Duonix Beatrice's input data tables (Locations of cells containing Confidential Business Information are shown, but the actual values of such confidential information are not disclosed):

Non-Food Grade Corn Oil to Biodiesel				
Parameter	**Cell location**	**Default COPS value**	**Beatrice Value**	**Units**
Region of Analysis	Regional LT!C2	eGRID	[redacted]	
Corn oil use	BD!B19	1.04	[redacted]	lb/lb BD
Glycerin co-product yield	BD!C39	0.105	[redacted]	lb/lb BD
NG use for biodiesel production	BD!M187	889	[redacted]	btu/lb BD
Electricity use for biodiesel production	BD!M190	47	[redacted]	btu/lb BD
Methanol use for biodiesel production	BD!M192	865	[redacted]	btu/lb BD
Corn oil transport distance	T&D!IH93	50	[redacted]	miles
Biodiesel rail transport distance	T&D!GE93	1,400	[redacted]	miles

UCO with Cooking to Biodiesel				
Parameter	**Cell location**	**Default Midwest value**	**Beatrice Value**	**Units**
Glycerin coproduct yield	UCO BD!C41	0.105	[redacted]	lb/lb BD
NG use for FFA transesterification	UCO BD!E189	155	[redacted]	btu/lb BD

UCO with Cooking to Biodiesel				
Parameter	**Cell location**	**Default Midwest value**	**Beatrice Value**	**Units**
Electricity use for FFA transesterification	UCO BD!E192	16	[redacted]	btu/lb BD
NG use for UCO transesterification	UCO BD!F189	889	[redacted]	btu/lb BD
Electricity use for UCO transesterification	UCO BD!F192	47	[redacted]	btu/lb BD
Methanol use for biodiesel production	UCO BD!F194	865	[redacted]	btu/lb BD
UCO transport distance (miles)	T&D!IH93	50	[redacted]	miles
Biodiesel rail transport distance (miles)	T&D!GE93	1400	[redacted]	miles
Percentage of biodiesel transported by truck	T&D!CL142	80	[redacted]	%

Tallow with High Energy Rendering to Biodiesel				
Parameter	**Cell location**	**Default value**	**Beatrice Value**	**Units**
Region for analysis	Regional LT!C2	U.S. Average	Midwest	
Tallow use	Tallow RD!B19	1.04	[redacted]	lb tallow/lb BD
Glycerin coproduct yield	Tallow RD!C39	0.105	[redacted]	lb/lb BD
NG use for tallow rendering	Tallow RD!B187	3200	[redacted]	btu/lb Tallow
Electricity use for tallow rendering	Tallow RD!B190	423	[redacted]	btu/lb Tallow
NG use for transesterification	Tallow RD!D187	889	[redacted]	btu/lb BD
Electricity use for transesterification	Tallow RD!D190	47	[redacted]	btu/lb BD
Methanol use for biodiesel production	Tallow RD!D192	865	[redacted]	btu/lb BD
Tallow transport distance by truck	T&D!IE93	10	[redacted]	miles
Tallow transport distance by rail	T&D!IF93	1400	[redacted]	miles
Biodiesel rail transport distance (miles)	T&D!GE93	1400	[redacted]	miles
Percentage of biodiesel transported by rail	T&D!CL141	0	[redacted]	%
Percentage of biodiesel transported by truck	T&D!CL142	80	[redacted]	%