

Lakeview Biodiesel
 Customer Equipment List
 Revision 8
 Revision Date 11/12/2015

P&ID Sheet	Tag	Description	Size	Material	Manufacturer	Model or Dwg Number	Installed Location	Project Phase	Cost	Estimated Lead Time	P.O. #	Estimated Delivery Date	Status
15-133-3	AT-1001A	STORAGE TANK AGITATOR					South Tank Farm	1					In place
15-133-3	AT-1001B	STORAGE TANK AGITATOR					South Tank Farm	1					In place
15-133-3	AT-1001C	STORAGE TANK AGITATOR					South Tank Farm	1					In place
15-133-4	AV-1011	FEEDSTOCK BLEND TANK AGITATOR					Existing Building	1					
15-133-6	AV-4011	REACTOR #1 AGITATOR			Lightnin Mixers	SERIES 10- 15S2	Existing Building	1	12,967		00018	11/20/2015	Purchased
15-133-6	AV-4016	REACTOR #2 AGITATOR			Lightnin Mixers	SERIES 10- 15S2	Existing Building	1	13,500		00018	11/20/2015	Purchased
15-133-6	AV-4021	REACTOR #3 AGITATOR			Lightnin Mixers	SERIES 10- 15S2	Existing Building	1	13,500		00018	11/20/2015	Purchased
15-133-18	AV-4041	NEUTRALIZER AGITATOR					Existing Building	1	8,000	8 weeks		1/15/2016	Spec sent to BSI
15-133-28	AV-5216	GLYCERIN ACIDULATION AGITATOR					Existing Building	1	10,000	8 weeks		1/15/2016	Spec sent to BSI
15-133-22	AV-5821	MATURING TANK #1 AGITATOR					Existing Building	1	5,000	4 weeks	00035	12/5/2015	Impeller order placed, need to order shaft
15-133-22	AV-5826	MATURING TANK #2 AGITATOR					Existing Building	1	5,000	4 weeks	00035	12/5/2015	Impeller order placed, need to order shaft
15-133-23	AV-5851	SLURRY TANK AGITATOR					Existing Building	1	5,000	8 weeks		1/15/2016	Spec sent to BSI
15-133-23	AV-5871	PRECOAT TANK AGITATOR					Existing Building	1	5,000	8 weeks		1/15/2016	Spec sent to BSI
15-133-50	C-0401	AIR COMPRESSOR					Existing Building	1					
15-133-48	CH-0651	PACKAGED AIR COOLED CHILLER UNIT					Outside Utility Area	1					
15-133-47	CT-0300	COOLING TOWER					Outside Utility Area	1					
15-133-50	D-0405	AIR DRYER					Existing Building	1					
15-133-50	D-0451	NITROGEN GENERATOR					Existing Building	1					
	EP-3318	ESTERIFICATION STRIPPER ECONOMIZER		316 SS			Existing Building	2		3-4 weeks			
15-133-13	EP-3323	ESTERIFICATION STRIPPER COOLER		316 SS			Existing Building	2		3-4 weeks			
15-133-36	EP-3508	METHANOL STILL ECONOMIZER		316 SS			Methanol Skid	2		3-4 weeks			
15-133-36	EP-3514	METHANOL STILL BOTTOMS COOLER		316 SS			Methanol Skid	2		3-4 weeks			
15-133-36	EP-3523	METHANOL COOLER		316 SS			Methanol Skid	2		3-4 weeks			
15-133-19	EP-4065	WASH WATER HEATER				Brazed Plate Heat E	Existing Building	1	1,000	3-4 weeks		12/31/2015	Quote requested
15-133-20	EP-5018	BIODIESEL STRIPPER ECONOMIZER	146 sq ft			Plate Heat Exchnag	Existing Building	1	5,502			12/31/2015	Purchase requested
15-133-20	EP-5022	BIODIESEL STRIPPER COOLER	16.6 sq ft			Plate Heat Exchnag	Existing Building	1	3,346			12/31/2015	Purchase requested
15-133-29	EP-5318	GLYCERIN STRIPPER ECONOMIZER				Plate Heat Exchnag	Existing Building	2	4,000				
15-133-29	EP-5322	GLYCERIN STRIPPER COOLER				Plate Heat Exchnag	Existing Building	2	3,000				
15-133-36	EP-5508	METHANOL DISTILLATION ECONOMIZER				Plate Heat Exchnag	Outside Skids	2	0				
15-133-36	EP-5514	METHANOL DISTILLATION BOTTOMS COOLER				Plate Heat Exchnag	Outside Skids	2	0				
15-133-36	EP-5523	METHANOL DISTILLATION DISTILLATE COOLER				Plate Heat Exchnag	Outside Skids	2	0				
15-133-38	EP-5765	VAPOR ABSORBER ECONOMIZER				Plate Heat Exchnag	Existing Building	1	1,500	3-4 weeks		12/31/2015	Quote requested
15-133-38	EP-5775	VAPOR ABSORBER WATER CHILLER				Plate Heat Exchnag	Existing Building	1	1,500	3-4 weeks		12/31/2015	Quote requested
15-133-22	EP-5811a	COLD FILTRATION ECONOMIZER	14.5 sq ft			Plate Heat Exchnag	Existing Building	1	3,311	4-6 weeks		12/31/2015	Purchase requested
15-133-22	EP-5811b	COLD FILTRATION ECONOMIZER	14.5 sq ft			Plate Heat Exchnag	Existing Building	1	3,311	3-4 weeks		12/31/2015	Purchase requested
15-133-22	EP-5815a	COLD FILTRATION COOLER	24.2 sq ft			Plate Heat Exchnag	Existing Building	1	3,396	3-4 weeks		12/31/2015	Purchase requested
15-133-22	EP-5815b	COLD FILTRATION COOLER	24.2 sq ft			Plate Heat Exchnag	Existing Building	1	3,396	3-4 weeks		12/31/2015	Purchase requested
15-133-16	ET-4009	REACTOR FEED HEATER				Shell & Tube Exchar	Existing Building	1	4,000	6 weeks		1/15/2016	Need to generate spec
15-133-18	ET-4031	PRE-STRIPPER HEATER	50 sq ft			Shell & Tube Exchar	Existing Building	1	10,400		00022	12/15/2015	Purchased from CQI
15-133-18	ET-4037	PRE-STRIPPER CONDENSER	95 sq ft			Shell & Tube Exchar	Existing Building	1	14,820		00022	12/15/2015	Purchased from CQI
15-133-20	ET-5025	BIODIESEL STRIPPER HEATER	100 sq ft			Shell & Tube Exchar	Existing Building	1	13,000		00022	12/15/2015	Purchased from CQI
15-133-20	ET-5028	BIODIESEL STRIPPER CONDENSER	150 sq ft			Shell & Tube Exchar	Existing Building	1	17,420		00022	12/15/2015	Purchased from CQI
15-133-20	ET-5029	BIODIESEL STRIPPER CHILLED CONDENSER	22 sq ft			Shell & Tube Exchar	Existing Building	1	10,140		00022	12/15/2015	Purchased from CQI
15-133-20	ET-5036	BIODIESEL STRIPPER VACUUM SEAL WATER COOLER				Shell & Tube Exchar	Existing Building	1	1,000	n/a			In place on vacuum skid
15-133-29	ET-5328	GLYCERIN STRIPPER CONDENSER				Shell & Tube Exchar	Outside Skids	1	0				In place
15-133-36	ET-5509	METHANOL DISTILLATION FEED HEATER				Shell & Tube Exchar	Outside Skids	2	5,000	12 weeks?			
15-133-36	ET-5513	METHANOL DISTILLATION REBOILER				Shell & Tube Exchar	Outside Skids	1	0				In place
15-133-36	ET-5518	METHANOL DISTILLATION CONDENSER				Shell & Tube Exchar	Outside Skids	1	0				In place
15-133-39	ET-5750	VENT CONDENSER											
15-133-39	ET-5755	VENT CONDENSER	35 sq ft			Shell & Tube Exchar	Existing Building	1	12,740	12 weeks?	00022		Purchased from CQI
15-133-30	ET-7028	FATTY ACID STRIPPER CONDENSER				Shell & Tube Exchar	Outside Skids	1	3,000				In place
15-133-46	F-0200	THERMAL OIL HEATER						1					
15-133-39	FB-1000	FEEDSTOCK INTAKE FILTER						1					
15-133-24	FB-5860	COLD FILTRATION BAG FILTER				Bag Filter	Existing Building	1	0				On site
15-133-24	FB-5861	COLD FILTRATION BAG FILTER				Bag Filter	Existing Building	1	0				On site
15-133-22	FB-5867	BIODIESEL POLISHING FILTER				Bag Filter	Existing Building	1	0				On site
15-133-22	FB-5868	BIODIESEL POLISHING FILTER				Bag Filter	Existing Building	1	1,000				On site

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						Number	Installed Location	Phase	Cost	Time	P.O. #	Delivery Date		
15-133-22	VT-5820	COLD FILTRATION MATURING TANK #1	7500 gal to HL			Existing Store Tank	Existing Building			n/a	n/a	n/a		In place
15-133-22	VT-5825	COLD FILTRATION MATURING TANK #2	7500 gal to HL			Existing Store Tank	Existing Building			n/a	n/a	n/a		In place
15-133-23	VT-5850	BODY FEED SLURRY TANK	500 gal			Existing- Process Ve	Existing Building			n/a	n/a	n/a		On site/ready
15-133-22	VT-5865	FILTERED OIL BUFFER TANK				Existing- Process Vessel				n/a	n/a	n/a		In place
15-133-23	VT-5870	PRECOAT TANK	1000 gal			Open Top Tank			3,500	n/a	00012	delivered		On site/ready
15-133-25	VT-5910	FILTERED BIODIESEL QA TANK (1 tank to start)	10,000 gal ea			New - Storage Tank			15,000	n/a	00026	delivered		Purchased/on site
15-133-26	VT-9000A	FEEDSTOCK STORAGE TANK				Existing Store Tank	South Tank Farm			n/a	n/a	n/a		In place
15-133-26	VT-9000B	FEEDSTOCK STORAGE TANK				Existing Store Tank	South Tank Farm			n/a	n/a	n/a		In place
15-133-26	VT-9000C	FEEDSTOCK STORAGE TANK				Existing Store Tank	South Tank Farm			n/a	n/a	n/a		In place
15-133-23	X-5840	VOLUMETRIC FEEDER				Solids Handling			15,000					Quote requested