

Gas Processing Plants Licensed to Use Ortloff Technology

Year Designed	Technology	Licensee	Plant Name/ Location	Description
1980	VEP/LSP	Randall Corp. /Conoco	Gillis Lake Charles, LA	180 MMSCFD NGL Recovery Plant for Conoco, Inc.
1980	MTP	Enserch Processing Partners, Ltd.	Decatur Wise County, TX	18 MMSCFD NGL Recovery Plant
1980	MTP	OXY/Davy McKee	Roberts Ranch Midland County, TX	85 MMSCFD NGL Recovery Plant
1980	MTP	Phillips Petroleum	Okarche Kingfisher County, OK	150 MMSCFD NGL Recovery Plant
1980	VEP/GSP	Western Gas Resources	Benedum Upton County, TX	35 MMSCFD NGL Recovery Plant
1981	VEP/GSP	Western Gas Resources	Chaney Dell Major County, OK	15 MMSCFD NGL Recovery Plant
1981	GSP	Randall Corp. Florida Hydrocarbons	Antelope Ridge Lea County, NM	30 MMSCFD NGL Recovery Plant for Florida Hydrocarbons
1981	LSP	Phillips Petroleum	Perry Ranch Ozona, TX	15 MMSCFD NGL Recovery Plant
1983	GSP	Conoco, Inc.	Cashion Cryo Cashion, OK	30 MMSCFD NGL Recovery Plant
1983	GSP	Valero Hydrocarbons	Bel Junction McAllen, TX	85 MMSCFD NGL Recovery Plant
1983	GSP	Randall Corp. /Exxon	Grand Isle Jefferson Co., TX	100 MMSCFD NGL Recovery Plant for Exxon
1983	VEP/GSP	R. L. Frailey, Inc. /Mobil Oil	Chitwood Grady County, OK	40 MMSCFD NGL Recovery Plant for Mobil Oil Corp.
1983	MTP	ARKLA/LIG	Plaquemine Iberville Parish, LA	225 MMSCFD NGL Recovery Plant
1983	GSP	ANR Production /Coastal Corp.	Pelican Plant St. Mary's Parish, LA	250 MMSCFD NGL Recovery Plant
1984	GSP	Randall Corp.	Sabine River Jefferson County, TX	24 MMSCFD NGL Recovery Plant for DuPont
1984	GSP	Randall Corp. /DuPont	Victoria Victoria County, TX	18 MMSCFD NGL Recovery Plant for DuPont
1984	GSP	Randall Corp. /Cranberry PL	Beech Fork Wayne County, WV	15 MMSCFD NGL Recovery Plant for Cranberry Pipeline Co.
1984	GSP/VEP	Texaco, Inc.	Henry Erath, LA	325 MMSCFD NGL Recovery Plant
1985	VEP	Sulpetro, Ltd.	Wapiti, Grand Prairie, Alberta, Canada	360 MMSCFD NGL Recovery Wapiti Plant
1985	VEP/GSP	R. L. Frailey, Inc. /Union Pacific	Patrick Draw Sweetwater County, WY	25 MMSCFD NGL Recovery Plant for Union Pacific
1985	VEP	Ocelot Industries /Conoco	Peco Deep Cut Edson, Alberta, Canada	40 MMSCFD NGL Recovery Plant (Conoco)
1985	VEP	Dome Petroleum Ltd.	Wembley, Grand Prairie, Alberta, Canada	90 MMSCFD NGL Recovery Plant
1985	VEP/GSP	R. L. Frailey, Inc. /Union Pacific	Conroe Montgomery County, TX	60 MMSCFD NGL Recovery Plant for Union Pacific
1985	GSP	Randall Corp. /Shell	Barracuda Cameron Parish, LA	175 MMSCFD NGL Recovery Plant for Shell Western E & P

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1985	GSP	Enron/CSX	Eunice Cryo #2 Acadia Parish, LA	500 MMSCFD NGL Recovery Plant
1985	GSP	Randall Corp. /Shell	Houston Central Colorado County, TX	200 MMSCFD NGL Recovery Plant for Shell Western E & P
1985	LSP	StatOil	Kaarstoe, Kaarstoe, Norway	596 MMSCFD NGL Recovery Plant
1986	GSP	Randall Corp.	Brazeau, Drayton Valley, Alberta, Canada	25 MMSCFD NGL/LPG Recovery Plant for Chevron
1987	GSP/VEP	Chapman Engineers /Exxon	Baton Rouge Baton Rouge, LA	225 MMSCFD NGL Recovery Plant for Exxon U.S.A.
1987	OHR	The Pro-Quip Corporation	#2 Fuel Gas Cryo Plant Ponca City, OK	30 MMSCFD Refinery Off-Gas Processing Plant for Conoco
1988	GSP	Chevron	Acheson Deep Cut Acheson, Alberta, Canada	17.9 MMSCFD NGL Recovery Plant
1988	GSP/VEP	The Pro-Quip Corporation	Starr County Starr County, TX	120 MMSCFD NGL Recovery Plant for Sun Oil Co.
1988	GSP/VEP	The Pro-Quip Corporation	Pt. Coupee Parish, LA	35 MMSCFD NGL Recovery Plant for Sun Oil Co.
1988	OHR	The Pro-Quip Corporation	Giant Refinery Gallup, NM	1.3 MMSCFD Refinery Off-Gas Processing Plant for Giant Refining
1988	OHR	The Pro-Quip Corporation	Mapco Refinery Memphis, TN	18 MMSCFD Refinery Off-Gas Processing Plant for Mapco Petroleum
1989	VEP	Canadian Hunter Exploration	Karr, Grand Prairie Alberta, Canada	70.5 MMSCFD NGL Recovery Exploration Plant
1989	GSP/VEP	The Pro-Quip Corporation	Eastland Plant Eastland County, TX	22 MMSCFD NGL Recovery Plant for Sun Oil Co.
1989	GSP	Randall Corp.	Bigoray, Drayton Valley, Alberta, Canada	31.5 MMSCFD NGL/LPG Recovery Plant for Chevron
1989	OHR	The Pro-Quip Corporation	Conoco Refinery Denver, CO	17 MMSCFD Refinery Off-Gas Processing Plant for Conoco
1989	OHR	The Pro-Quip Corporation	Murphy Refinery Meraux, LA	13 MMSCFD Refinery Off-Gas Processing Plant for Murphy Oil Co.
1989	OHR	The Pro-Quip Corporation	Star Refinery Convent, LA	9.1 MMSCFD Refinery Off-Gas Processing Plant for Star Enterprises
1990	OHR	The Pro-Quip Corporation	BP Oil Co. Refinery Belle Chasse, LA	45 MMSCFD Refinery Off-Gas for BP Oil Company
1990	OHR	The Pro-Quip Corporation	Conoco Refinery Billings, MT	15.9 MMSCFD Refinery Off-Gas Processing Plant for Conoco
1991	LSP	Transok	Thomas Custer County, OK	152 MMSCFD NGL Recovery Plant
1992	GSP/VEP	Amerada Hess Corporation	Vidor Orange County, TX	Retrofit Expansion to 40 MMSCFD NGL Recovery Plant
1993	GSP	Propak Systems, Ltd.	Green River Sweetwater County, WY	100 MMSCFD NGL Recovery Plant for Mountain Gas Resources
1993	VEP/LSP	Aquila Pipeline Corp.	La Grange Fayette County, TX	Retrofit Expansion to 230 MMSCFD from 200 MMSCFD of NGL Recovery Plant
1993	VEP/LSP	Aquila Pipeline Corp.	Sommerville Burlson County, TX	25 MMSCFD NGL Recovery Plant
1993	GSP	Key Engineering, Inc. /Seagull	North West Mendota Roberts County, TX	10 MMSCFD NGL Recovery Plant for Seagull Processing Co.

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1993	GSP	Union Pacific Resources Company	Carthage Plant #3 Panola County, TX	Retrofit Expansion to 120 MMSCFD from 100 MMSCFD of NGL Recovery Plant
1993	VEP/GSP	Williams Field Services	Wamsutter #1 Carbon County, WY	120 MMSCFD NGL Recovery Plant
1993	GSP	Union Pacific Resources Company	Carthage #1 Panola County, TX	Retrofit Expansion to 280 MMSCFD from 240 MMSCFD of NGL Recovery Plant
1993	GSP	Union Pacific Resources	George Gray Panola County, TX	120 MMSCFD NGL Recovery Plant
1994	GSP/VEP	Schedule A, Inc. /Enron	Sutton County Plant Sutton County, TX	50 MMSCFD NGL Recovery Plant for Enron
1994	GSP	Schedule A, Inc. /Williams Field Services	Hobart Ranch Hemphill County, TX	30 MMSCFD NGL Recovery Plant for Williams Field Services
1994	GSP	GPM Gas Corporation	Goldsmith Ector County, TX	Retrofit Expansion to 154 MMSCFD from 86 MMSCFD of NGL Recovery Plant
1994	GSP/VEP	The Pro-Quip Corporation /Snyder Oil	Platteville Weld County, CO	80 MMSCFD NGL Recovery Plant for Snyder Oil Company
1994	GSP/VEP	Union Pacific Resources	Southwest Ozona Crockett County, TX	100 MMSCFD NGL Recovery Plant
1994	GSP/VEP	Union Pacific Resources	Ozona Crockett County, TX	120 MMSCFD NGL Recovery Plant
1994	GSP/VEP	The Pro-Quip Corporation /Williams Field Services	Wamsutter #2 Carbon County, WY	120 MMSCFD NGL Recovery Plant for Williams Field Services
1995	IOR	PanCanadian Gas Products	Empress Alberta, Canada	1,000 MMSCFD NGL/LPG Recovery Plant
1995	GSP/VEP	The Pro-Quip Corporation /Transok	Comanche Tap Stephens County, OK	120 MMSCFD NGL Recovery Plant for Transok
1995	VEP	Stanley Industrial Consultants/CUG	Villeneuve Gas Plant Edmonton, Alberta, Canada	35 MMSCFD NGL/LPG Recovery Plant for Canadian Utilities Gas
1995	VEP/GSP	Teco Pipeline	Livingston Polk County, TX	80 MMSCFD NGL Recovery Plant expanded to 110 MMSCFD in 1998.
1995	GSP/VEP	Schedule A, Inc. /CIG	Mocane Beaver County, OK	Retrofit Expansion to 45 MMSCFD from 30 MMSCFD of NGL Recovery Plant for CIG
1996	GSP	Optimized Process Design /Valero	Gilmore #3 Hidalgo County, TX	120 MMSCFD NGL Recovery Plant for Valero Hydrocarbons
1996	LSP/SDR	The Pro-Quip Corporation /Mobil	Mobil Chemical Houston, TX	66 MMSCFD Ethylene Recovery Plant for Mobil Chemical Company
1996	GSP/VEP	Marathon Oil Company	Cotton Valley Webster Parish, LA	Retrofit Expansion to 90 MMSCFD from 55 MMSCFD of NGL Recovery Plant
1996	GSP	Optimized Process Design /Valero	Thompsonville Jim Hogg County, TX	Retrofit Expansion to 300 MMSCFD from 200 MMSCFD of NGL Recovery Plant for Valero Hydrocarbons Co.
1996	VEP/GSP	Natural Gas Clearinghouse	Waskom Harrison Co., TX	150 MMSCFD LPG Recovery Plant
1996	OHR	Schedule A, Inc. /Pan Energy	Minden Webster Parish, LA	100 MMSCFD LPG Recovery Plant for PanEnergy Field Services
1996	GSP	Gallagher Corp. /CCNG	Gregory Gas Plant San Patricio, TX	65 MMSCFD NGL Recovery Plant for Corpus Christi Natural Gas
1996	GSP	Schedule A, Inc. /Enron	Sabine Pass Cameron Parish, LA	Retrofit Expansion to 300 MMSCFD from 200 MMSCFD of NGL Recovery Plant for Enron
1996	GSP	Enogex Products Corp. Nustar Joint Venture	Benedum Upton County, TX	Retrofit Expansion to 110 MMSCFD from 90 MMSCFD of NGL Recovery Plant

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1996	GSP	ARCO	Crane Upton Co., TX	Retrofit Expansion to 28 MMSCFD from 20 MMSCFD of NGL Plant
1996	GSP	Bowden Construction Co. /Delhi	Tippett Crockett County, TX	Retrofit Expansion to 55 MMSCFD from 40 MMSCFD of NGL Recovery Plant for Delhi
1997	SCORE/GSP	Transportadora de Gas del Sur, S.A. (TGS)	Complejo Cerri Train "C" Bahia Blanca, Argentina	566 MMSCFD NGL/LPG Recovery Plant
1997	GSP	Bowden Construction Co.	Coyanosa Pecos County, TX	Retrofit Expansion to 150 MMSCFD from 95 MMSCFD of NGL Recovery Plant for Delhi
1997	GSP	GPM Gas Corporation	Goldsmith Ector County, TX	Retrofit Expansion to 155 MMSCFD from 135 MMSCFD of NGL Recovery Plant
1997	GSP	Western Gas Resources	Granger Green River, WY	Retrofit Expansion to 55 MMSCFD from 30 MMSCFD of NGL Recovery Plant
1997	GSP	Union Pacific Resources Company	Patrick Draw Sweetwater Co., WY	120 MMSCFD NGL/LPG Recovery Plant
1997	GSP/VEP	West Shore Processing Company	Fiske Manistee, MI	35 MMSCFD NGL/LPG Recovery Plant for Mark West Hydrocarbons
1997	GSP/VEP	Schedule A, Inc. /Koch Hydrocarbons	Venice Venice, LA	Retrofit Expansion to 300 MMSCFD from 150 MMSCFD of NGL Recovery Plant for Koch Energy Services
1997	GSP	Schedule A, Inc.	Custer Custer Co., OK	Retrofit Expansion to 80 MMSCFD from 65 MMSCFD of NGL Recovery Plant for Delhi/Tonkawa Gas Processing
1997	GSP	Union Pacific Resources	East Texas Plant #5 Panola County, TX	200 MMSCFD NGL Recovery Plant
1997	OHR	The Pro-Quip Corporation /Astra C.A.P.S.A.	Filo Morado Central Termila Neuquen Province, Argentina	45 MMSCFD LPG Recovery Plant for Filo Morado (A-Evangelista S.A.)
1997	GSP	Warren Petroleum Co.	Rodman Garfield County, OK	Retrofit Expansion to 80 MMSCFD from 60 MMSCFD of NGL Recovery
1997	GSP/VEP	Allied Gas Processing, Inc.	Delhi Three Rivers Live Oak County, TX	Retrofit Expansion to 90 MMSCFD from 75 MMSCFD of NGL Recovery Plant for Delhi Gas Pipeline
1997	OHR	The Pro-Quip Corporation /Capex	Capex Plant Neuquen, Argentina	77 MMSCFD LPG Recovery Plant for Capex, S.A.
1998	GSP/LSP	The Pro-Quip Corporation /Pemex	Cactus Complex Chiapas, Mexico	Retrofit Expansion to 675 MMSCFD from 450 MMSCFD of 3 NGL Recovery Plants for Pemex (3 Plants)
1998	GSP/LSP	The Pro-Quip Corporation /Pemex	Ciudad Pemex Tabasco, Mexico	Retrofit Expansion to 300 MMSCFD from 180 MMSCFD of an NGL Plant for Pemex
1998	SFR	The Pro-Quip Corporation /Pemex	Poza Rica Veracruz, Mexico	Retrofit Expansion to 290 MMSCFD from 275 MMSCFD with C2 product increase to 700 TPD from 489 TPD of an NGL Recovery Plant for Pemex
1998	OHR	The Pro-Quip Corporation /ARCO	L.A. Refinery Los Angeles, California	63 MMSCFD Refinery Off-Gas LPG Recovery Plant for ARCO
1998	GSP	The Pro-Quip Corporation /Transok	Canute Plant Canute, Oklahoma	60 MMSCFD NGL Recovery Plant for Transok
1998	RSV	Dresser Engineering Co. /Duke Energy	Mobile Bay Plant Mobile Bay, Alabama	300 MMSCFD NGL/LPG Recovery Plant
1998	VEP/GSP	Aquila	Elk City Gas Plant Elk City, OK	Retrofit Expansion to 130 MMSCFD from 100 MMSCFD NGL/LPG Recovery Plant
1998	GSP	Schedule A, Inc. /Duke Energy	Beaumont Gas Plant Jefferson County, TX	100 MMSCFD NGL/LPG Recovery Plant for Duke Energy

Year	Designed Technology	Licensee	Plant Name/ Location	Description
1998	GSP	Mitchell Gas Services	Madison Plant Madison County, TX	Retrofit Expansion to 30 MMSCFD NGL Recovery Plant
1998	RSV	Williams Field Services	Ignacio Plant Ignacio, CO	Retrofit Expansion to 450 MMSCFD from 300 MMSCFD of an NGL/LPG Recovery Plant
1998	OHR	Conoco, Inc. /Phoenix Park Processors, Ltd.	Trinidad Plant Tobago, West Indies	600 MMSCFD NGL/LPG Recovery Plant
1998	GSP	Pequiven	NGL Tablazo I Plant Maracaibo, Venezuela	Retrofit of a 165 MMSCFD NGL Recovery Plant to increase its ethane recovery from 40% to 68%
1998	GSP	JGC /YPF	Proyecto Mega Loma de La Lata, Argentina	1271 MMSCFD NGL Recovery Facility
1998	RSV	El Paso Field Services	Pelican Plant Patterson, Louisiana Relocation	300 MMSCFD NGL/LPG Recovery Plant
1999	RSV/GSP	AUX Sable Liquid Products	AUX Sable Recovery Plant Morris, IL	2,100 MMSCFD NGL/LPG Recovery Facility
1999	CDC/GSP	Williams Field Services	Opal TXP-1 Plant Opal, Wyoming	235 MMSCFD NGL Recovery Plant Retrofit with Carbon Dioxide Control Technology & GSP
1999	OHR	The Pro-Quip Corporation /Tosco Corporation	Bayway Refinery Bayway, NJ	48 MMSCFD LPG Recovery Plant
1999	GSP	TransCanada Midstream	Harmattan Plant Calgary, Alberta, Canada	360 MMSCFD NGL/LPG Recovery Plant
2000	IOR	The Pro-Quip Corporation /TransCanada Midstream	Suncor NGL Recovery Plant Ft. McMurray, Canada	70 MMSCFD Off-Gas
2000	SCORE	MarkWest Hydrocarbons, Inc.	Kenova No. 2 Plant Wayne County, West Virginia	100 MMSCFD NGL Recovery Plant
2001	SCORE	Petrofac LLC	Alagoas LPG Rec. Plant Alagoas, Brazil	68.9 MMSCFD LPG Recovery Plant
2001	SCORE	Tengizchevroil	Tengizchevroil LPG Plant Tengiz, Kazakhstan	300 MMSCFD LPG Recovery Plant
2001	IOR	Samsung Engineering /Trans Thai Malaysia	Songkhla GSP-1 Chana District, Thailand	425 MMSCFD NGL Recovery Plant
2001	SCORE	The Pro-Quip Corporation /PASA	El Porton LPG Plant Argentina	122 MMSCFD NGL Recovery Plant
2001	GSP	OGP Technical Services /Petronas	Petronas GPP-4 Kerteh, Malaysia	Retrofit Expansion to 342.5 MMSCFD from 326 MMSCFD of NGL Recovery Plant
2001	GSP	OGP Technical Services /Petronas	Petronas GPP-3 Kerteh, Malaysia	Retrofit Expansion to 346.2 MMSCFD from 326 MMSCFD of NGL Recovery Plant
2001	GSP	OGP Technical Services /Petronas	Petronas GPP-2 Kerteh, Malaysia	Retrofit Expansion to 346.2 MMSCFD from 326 MMSCFD of NGL Recovery Plant
2001	SCORE	Pluspetrol	Camisea LPG Units No. 2 Malvinas, Peru	216.72 MMSCFD LPG/NGL Recovery Facility
2001	IOR	Snamprogetti Limited /United Gas Derivatives	Nile Gas NGL/LPG Rec. Plt. Mediterranean Coast, Egypt	1,100 MMSCFD NGL Recovery Plant
2001	SCORE	Pluspetrol	Camisea LPG Units No. 1 Malvinas, Peru	216.72 MMSCFD LPG/NGL Recovery Facility
2002	GSP	Ref-Chem Corp. /Duke Energy Fld Serv.	Artesia NGL Recovery Plant Eddy Co., NM	Retrofit Expansion to 70 MMSCFD from 55 MMSCFD of NGL Recovery Plant
2002	IOR	Petro-Tech Peruana S.A.	Parinas Cryogenic Plant Project Negritos, Talara, Peru	40 MMSCFD LPG Recovery Plant
2002	RSV/CDC	Amerada Hess Corporation	Sea Robin NGL Recovery Plt Abbeville, LA	Retrofit of a 600 MMSCFD LPG/NGL Recovery Plant to increase ethane recovery from 75% to 96%

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2002	RSV	UOP LLC /PTT Public Co. Ltd.	5th GSP Ethane Recovery Unit Thailand	424.67 MMSCFD NGL Recovery Plant
2002	CDC	PanCanadian Gas Products	Empress Plant Alberta, Canada	Ethane Recovery Mode
2002	SCORE	Linde BOC Process Plt. LLC. /Pemex	Reynosa LPG Plants 1 Reynosa, Mexico	202 MMSCFD LPG Recovery Plant
2002	SCORE	Chevron Nigeria	Escravos Gas Proj. Ph. 3 LPG Rec. Unit Escravos, Nigeria	395 MMSCFD LPG Recovery Unit
2002	SRP	UOP LLC /GASCO	GASCO OGD-III Habshan, Abu Dhabi	1,119 MMSCFD LPG Dual Mode Recovery Plant
2002	SCORE	CONFIDENTIAL	CONFIDENTIAL Nigeria	950 MMSCFD NGL Recovery Plant
2002	RSV	CONFIDENTIAL	CONFIDENTIAL Qatar	726 MMSCFD Recovery Plant
2002	SCORE	CONFIDENTIAL	CONFIDENTIAL Qatar	805 MMSCFD LNG/NGL Recovery Plant
2002	SCORE	Thermo Design Engineering /Petrobras	URGN-3-BA LPG Recovery Pajuca, Brazil	88 MMSCFD LPG Recovery Plant
2002	SRP	UOP LLC /GASCO	GASCO AGD-II Asab, Abu Dhabi	711 MMSCFD LPG Dual Mode Recovery Plant
2002	SCORE	Linde BOC Process Plt. LLC. /Pemex	Reynosa LPG Plants 2 Reynosa, Mexico	202 MMSCFD LPG Recovery Plant
2003	SCORE	UOP LLC /Marathon	Alba Plant Equatorial Guinea	870 MMSCFD NGL Recovery Plant
2003	SCORE	Hanover	Jamshoro Plant Pakistan	200 MMSCFD LPG Recovery Plant
2003	RSV	UOP LLC /KNPC	KNPC Mina Al-Ahmadi Refinery Kuwait	1,140 MMSCFD NGL/LPG Recovery Plant
2003	GSP/CDC	UOP LLC /PTT	Rayong GSP-1 Plant Thailand	Retrofit to 306 MMSCFD Ethane Recovery Project
2004	SCORE	Linde BOC Process Plt. LLC. /Pemex	Reynosa LPG Plants 4 Reynosa, Mexico	202 MMSCFD LPG Recovery Plant
2004	SCORE	CONFIDENTIAL	CONFIDENTIAL Qatar	1,408 MMSCFD NGL/LPG Recovery Plant
2004	SCORE	CONFIDENTIAL	CONFIDENTIAL Qatar	805 MMSCFD LNG/NGL Recovery Plant
2004	SCORE	Linde BOC Process Plt. LLC. /Pemex	Reynosa LPG Plants 3 Reynosa, Mexico	202 MMSCFD LPG Recovery Plant
2005	RSV	UOP LLC /PTT	GSP 2/3 Ethane Recovery Project Rayong, Thailand	800 MMSCFD Ethane Separation Proj with new train downstream of existing plants.
2005	SCORE	CONFIDENTIAL	CONFIDENTIAL Qatar	732 MMSCFD LPG Plants
2005	SCORE	Repsol	Gassi Touil LPG Recovery Plant No. 1 Algeria	349 MMSCF LPG Recovery Plant
2005	SCORE	Pluspetrol	Camisea LPG Units No. 3 Malvinas, Peru	360 MMSCFD LPG Recovery Unit
2005	RSV	El Paso Dauphin Island	Pelican Plant Patterson, LA (Mobil Bay Reloca	300 MMSCFD
2005	LFP	Trunkline	BG Lake Charles LNG Lake Charles, LA	1,187 MMSCFD NGL Recovery Plant

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2005	SCORE	CONFIDENTIAL	CONFIDENTIAL Qatar	1,408 MMSCFD LPG Recovery Plant
2005	IOR	Phoenix Park Gas	Gas Processor Train 3 Trinidad	600 MMSCFD NGL Recovery Plant
2005	SCORE	Pluspetrol	Camisea LPG Units No. 4 Malvinas, Peru	360 MMSCFD LPG Recovery Unit
2005	SCORE	Repsol	Gassi Touil LPG Recovery Plant No. 2 Algeria	349 MMSCF LPG Recovery Plant
2005	SCORE	CONFIDENTIAL	CONFIDENTIAL Qatar	732 MMSCFD LPG Plants
2006	RSV	UOP LLC /PTT	GSP-6 Rayong, Thailand	676 MMSCFD NGL Recovery Plant
2006	SCORE	UOP LLC/Conoco Phillips /Qatargas III	LPG Recovery Plant Ras Laffan, Qatar	1,449 MMSCFD LPG Recovery Plant
2006	SCORE	British Gas	Hasdrubal LPG Recovery Plant Tunisa	126 MMSCFD LPG Recovery Plant
2006	RSV	CONFIDENTIAL	CONFIDENTIAL Qatar	1,478 MMSCFD NGL Recovery Plant
2006	SCORE	Hanover	Jamshoro LPG Plant 2 Pakistan	100 MMSCFD LPG Recovery Plant
2006	SCORE	Linde BOC Process Plt. LLC. /Pemex	Reynosa LPG Plant 5 Reynosa, Mexico	200 MMSCFD LPG Recovery Plant
2006	SCORE	Linde BOC Process Plt. LLC. /Pemex	Reynosa LPG Plant 6 Reynosa, Mexico	200 MMSCFD LPG Recovery Plant
2006	SCORE	UOP LLC /Shell	Qatargas IV Train 7 Qatar	1,449 MMSCFD LPG Recovery Plant
2007	SCORE	SPEC	Salsabil LPG Recovery Pakistan	58 MMSCFD LPG Recovery Plant
2007	SCORE	Hanover	Crescent Khor LPG Plant 1 Iraq	150 MMSCFD LPG Recovery Plant
2007	SCORE	Hanover	Crescent Khor LPG Plant 2 Iraq	150 MMSCFD LPG Recovery Plant
2007	SCORE	PanAmerican	Piquirenda LPG Recovery Plant Argentina	177 MMSCFD LPG Recovery Plant
2007	SRP	UOP NV /GASCO	GASCO IGD Recovery Unit Train 1 Abu Dhabi	600 MMSCFD LPG Recovery Plant
2007	SRP	UOP NV /GASCO	GASCO IGD Recovery Unit Train 2 Abu Dhabi	600 MMSCFD LPG Recovery Plant
2007	SCORE	UOP /Amerada Hess	Pangkah Indonesia	137 MMSCFD LPG Recovery Plant
2007	SCORE	UOP /Amerada Hess	Jambi Merang Pertamina Indonesia	129 MMSCFD LPG Recovery Plant
2008	GSP/CDC	Western Gas Resources	Anadarko Red Desert NGL Recovery Pl Sweetwater Co., Wyoming	70 MMSCFD NGL Recovery Plant
2008	SCORE	UOP /YLNG	Marib Plant Yemen	420 MMSCFD NGL Recovery Plant
2008	RSV	UOP NV /GASCO	GASCO SGD Recovery Unit Train 1 Abu Dhabi	331.5 MMSCFD NGL Recovery Plant
2008	RSV	UOP NV /GASCO	GASCO SGD Recovery Unit Train 2 Abu Dhabi	331.5 MMSCFD NGL Recovery Plant

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2008	GSP	Toromont	Toromont Walsh Lily Gas Processing Pl Colorado	15 MMSCFD NGL Recovery Plant
2009	SCORE/GSP	UOP LLC /Ecopetrol	Tipiel Cupiagua Field Gas Plant Colombia	229.9 MMSCFD NGL Recovery Plant
2009	SCORE/GSP	Linde BOC Process Plt. /Pemex	Poza Rica Train 1 Mexico	200 MMSCFD NGL Recovery Plant
2009	SCORE	Exterran Energy	Gulf of Suez NGL Project Egypt	150 MMSCFD NGL Recovery Plant
2010	RSV/CDC	Optimized Process Designs, In /Questar Gas	Blacks Fork Train 2 NGL Recovrey Pla Evanston, Wyoming	350 MMSCFD NGL Recovery Plant
2010	SCORE	Pluspetrol	Camisea Second Expansion No. 5 Malvinas, Peru	520 MMSCFD LPG Recovery Unit
2010	OHR	JGC Corporation	Gassi Touill Algeria	423.8 MMSCFD NGL Recovery Plant
2010	SCORE	UOP LLC /Pertagas	E-1 South Sumatera NGL Plant Indonesia	250 MMSCFD NGL Recovery Plant
2010	SCORE	Valerus Compression Services	PT Media Kayra Sentosa Plant Gresik, E. Java, Indonesia	100 MMSCFD LPG Recovery Plant
2010	SCORE	Valerus Compression Services /PDVSA	SOTO I NGL Extraction Plant Venezuela	184.42 MMSCFD NGL Recovery Plant
2011	RSV	Pembina Gas Services Limited	Saturn Gas Plant Canada	200 MMSCFD NGL Recovery Plant
2011	IOR	Valerus Compression Services	Termoyopal PSG Plant Colombia	39.67 MMSCFD NGL Recovery Plant

Notes:

1) The above list includes only those licensed plants for which Ortloff or its subsidiaries had no involvement as detailed engineering, procurement and construction contractor. Ortloff and its subsidiaries designed and constructed 63 additional plants that use the patented technologies.

2) Ortloff provided design consulting and other licensing support services on most of the above projects.

This list was updated on February 2012.