

LINDE PROCESS PLANTS, INC.
EXPERIENCE LIST OF REFINERY PROJECTS

Dec-10

<u>YEAR COMPLETE</u>	<u>PLANT LOCATION</u>	<u>PROJECT DESCRIPTION</u>
N/A	Odessa, TX	Basic engineering package for an integrated gasification combined-cycle facility, including a sour shift unit, Rectisol [®] wash unit, nitrogen wash unit, sulphuric acid unit, ammonia loop and storage, carbon dioxide product compression and mercury removal beds.
2011	Pohang, South Korea	Engineering and procurement of a 28 MTD Sulfur Recovery Unit with tail gas treatment and thermal oxidation.
2010	Port Arthur, TX	Design, procurement, and fabrication of an Oxygen Enrichment Upgrade for Two 400 TPD Sulfur Recovery Units
2010	Port Arthur, TX	Front End Engineering Design (FEED) Study, Basic Engineering Design Package and Procurement/ Construction of a 16 MMscfd Liquid Recovery Unit, incorporating LPP's CRYO-PLUS Technology.
2010	Mt. Vernon, IN	Engineering, design, procurement, and fabrication of a 6,500 BPD Gasoline Hydrodesulphurization Unit
2007	Shreveport, LA	Engineering, design, procurement, fabrication, and construction of a 20 LTD Sulfur Recovery Unit with CBA.
2006	Port Arthur, TX	Engineering, design, procurement, fabrication, and construction of a 400 LTD Sulfur Recovery Unit with SCOT Tailgas Unit and Incinerator.
2006	Yorktown, VA	Engineering, design, procurement, and fabrication of a 12,500 BPD Diesel Hydrotreater utilizing the Isotherming process.
2006	Coffeyville, KS	Engineering, design, procurement, fabrication, and construction of a 100 LTD Sulfur Recovery Unit (Oxygen Enrichment) with SCOT Tailgas Unit and Incinerator.
2006	Sinclair, WY	Engineering, design, procurement, fabrication, and construction of two (2) trains, 80 LTD Sulfur Recovery Units with SCOT Tailgas Units and Incinerators.
2005	Port Authur, TX	Engineering, design, procurement, fabrication, and construction of a 200 LTD SRU.
2005	Haifa, Israel	Engineering, design, procurement, and fabrication of a 6.2 MMscfd FCC Off-gas Liquids Recovery Unit.
2004	Superior, WI	Engineering, design, procurement, fabrication, and installation of a 7500 BPD Gasoline Hydrodesulfurization Unit using Axens technology.
2003	New Orleans, LA	Engineering, design, procurement, fabrication, and construction of a 25,000 BPD Platformer and Cyclemax CCR.

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2001	Fort McMurray, Alberta	Process, design and technology license for 107 MMscfd ethylene recovery
2001	Bayway Refinery	Engineering, design, procurement, fabrication, and construction of a 48 MMscfd design for ethylene recovery with full product fractionation.
2000	Port Arthur, TX	Engineering, design, procurement, fabrication, and installation of a 400 LTD sulfur recovery unit with a SCOT tailgas cleanup unit.
1998	Lujan de Cuyo, Argentina	Engineering, design, procurement, and fabrication of a 60 MT/D Sulfur Recovery Unit
1998	La Plata, Argentina	Engineering, design, procurement, and fabrication of a 62 MT/D Sulfur Recovery Unit
1998	Tuscaloosa, AL	Revamp of amine system unit which included the engineering, design, procurement, fabrication, and field construction
1998	Corpus Christi, TX	Engineering, procurement and fabrication of a Fuel Gas Handling Unit
1997	Los Angeles, CA	Engineering of a 63 MMscfd refinery off-gas unit utilizing Pro-Quip's Cryo-Plus technology.
1997	Houston, TX	Engineering, design, procurement, fabrication and construction of a 66 MMscfd design for ethylene recovery
1995	Ulsan, Korea	Engineering, procurement and fabrication of a 1000 PPH Oleflex CCR Unit
1996	Shreveport, LA	Engineering, design, procurement, fabrication and construction of a 128 gpm Amine Regeneration Unit and a 1000 gpm Sour Water Stripper Unit
1995	Shreveport, LA	Engineering, design, procurement, fabrication and construction of a 20 LTD Sulfur Recovery Unit
1995	North Salt Lake City, UT	Engineering, procurement, fabrication and installation of a 2000 bpd Butamer process unit
1995	Odessa, TX	Engineering, procurement and fabrication of an Aromatics Reduction Unit
1995	El Dorado, AR	Engineering, design, procurement, fabrication and installation of an 80 LTD sulfur recovery unit with a SCOT tailgas cleanup unit. SRU has future O ₂ enrichment capability for 100 LTD capacity.
1994	Lawrenceville, IL	Engineering, design, procurement, fabrication and installation of an 11,500 bbl./day isomerization unit

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1994	Thailand	Design, procurement and fabrication of a 25,000 bbl/day penex/molex unit
1994	Mereax, LA	Engineering, design, procurement, fabrication and installation of an 80 LTD sulfur recovery unit with a SCOT tailgas cleanup unit
1993	Bloomfield, NM	Engineering, design, procurement, fabrication and installation of a 3000 MPSD diesel hydrotreater
1993	Lawrenceville, IL	Engineering, design, procurement and fabrication of a 50 LTD sulfur recovery unit with a SCOT tailgas cleanup unit
1993	Salt Lake City, UT	Engineering, design, procurement and fabrication of a 15 LTD sulfur recovery unit with associated 165 gpm amine unit and 130 gpm sour water stripper
1993	Punto Fijo, Venezuela	Engineering, design, procurement and fabrication of a world's largest modular Continuous Catalyst Regeneration Unit (CCR)
1992	Cheyenne, WY	Engineering, design, procurement, fabrication and construction of a 65 LTD sulfur recovery unit
1992	Canton, OH	Engineering, design, procurement and fabrication of a 58 LTD sulfur recovery unit
1992	St. Paul, MN	Engineering, design, procurement and fabrication of a 50 LTD sulfur recovery unit and a SCOT tailgas cleanup unit.
1992	El Dorado, KS	Engineering, design, procurement, fabrication and construction of a 400 gpm Amine Treater for off-gas
1992	Big Springs, TX	Engineering, design, procurement, fabrication and construction of a 60 LTD sulfur recovery unit and SCOT tailgas clean-up unit
1991	El Paso, TX	Fabrication of a Butamer unit
1991	Billings, MT	Engineering, design, procurement and fabrication of a 16 MMscfd off-gas unit.
1991	Mt. Vernon, IN	Fabrication of Platforming unit
1991	El Dorado, AR	Fabrication of a Continuous Catalyst Regeneration unit (CCR)
1990	Superior, WI	Engineering, design, procurement and fabrication of a sour water stripper
1991	Belle Chasse, LA	Engineering, design, procurement and fabrication of a 45 MMscfd off-gas unit
1991	Wichita, KS	Engineering, design, procurement, fabrication and construction of a 20 LTD sulfur recovery unit

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1991	Billings, MT	Engineering, design, procurement and fabrication of a Merox unit
1991	Big Springs, TX	Engineering, design, procurement, fabrication and construction of a 13 MMscfd off-gas unit
1991	Beaumont, TX	Engineering, design, procurement and fabrication of a Merox unit
1990	Paulsboro, NJ	Engineerng, design, procurement and fabrication of a Merox unit
1991	Philadelphia, PA	Engineering, design, procurement and fabrication of a Merox unit
1991	Mt. Vernon, IN	Engineering, design, procurement and fabrication of a Continuous Catalyst Regeneration unit (CCR)
1990	Honolulu, HI	Engineering, design, procurement and fabrication of a 20 LTD sulfur recovery unit with SCOT tailgas unit.
1990	Lake Charles, LA	Mechanical design, procurement, fabrication and installation of an MTBE unit
1990	Convent, LA	Process and mechanical design, procurement, fabrication and installation of a 9 MMscfd off-gas unit.
1989	Denver, CO	Process and mechanical design, procurement, fabrication and installation of a 17 MMscfd Cryo-Plus off-gas unit
1989	Memphis, TN	Process and mechanical design, procurement, fabrication and installation of an 18 MMscfd Cryo-Plus off-gas unit
1990	Meraux, LA	Process and mechanical design, procurement, fabrication and installation of a 13 MMscfd Cryo-Plus off-gas unit
1988	Gallup, NM	Process and mechanical design, procurement, fabrication and installation of a 1.3 MMscfd Cryo-Plus off-gas unit with full fractionation
1989	Ponca City, OK	Engineering, design, procurement and fabrication of a 20 LTD sulfur recovery unit
1987	Warren, PA	Process and mechanical design, procurement and fabrication of
1988	McKee Refinery Sunray, TX	Engineering, design, procurement and construction of a 55 LTD sulfur recovery unit and SCOT tailgas cleanup unit
1987	Ponca City, OK	Process and mechanical design, procurement and fabrication of a 30 MMscfd Cryo-Plus off-gas unit
1987	Ponca City, OK	Mechanical design, procurement and fabrication of a Hydrogen Recovery and Purification unit

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1987	Borger, TX	Mechanical design, procurement and fabrication of a 40,000 bbl/day Merox unit
1987	Ponca City, OK	Mechanical design, procurement and fabrication of an MTBE unit
1987	Superior, WI	Mechanical design, procurement and fabrication of a U.O.P. process isomerization unit
1986	Argentina	Fabrication of a PSA unit
1986	Port Allen, LA	Process and mechanical design, procurement and fabrication of a 5.5 MMscfd Cryo-Plus off-gas processing unit
1986	Tyler, TX	Process and mechanical design, procurement, fabrication and installation of a 25 MMscfd Cryo-Plus off-gas processing unit
1985	Superior, WI	Design, procurement and fabrication of a 1500 bbl/day deethanizer
1985	Ponca City, OK	Process and mechanical design, procurement and fabrication of a 20 MMscfd Cryo-Plus off-gas processing unit.
1985	Lake Charles, LA	Process and mechanical design, procurement, fabrication and installation of a 40 MMscfd Cryo-Plus off-gas processing unit.
1984	Honolulu, HI	Procurement and fabrication of a 14 LTD sulfur recovery unit.
1984	Corpus Christi, TX	Procurement and fabrication of a 53 LTD sulfur recovery unit with SCOT tailgas cleanup unit and Sulfinol gas treating unit
1984	Alma, MI	Process and mechanical design, procurement and fabrication of a 16 MMscfd Cryo-Plus off-gas processing unit
1982	Fruita, CO	Process and mechanical design, procurement and fabrication of a 12 LTD sulfur recovery unit
1982	Norco, LA	Process and mechanical design, procurement and fabrication of 70 gpm amine treater for refinery gas system.
1977	Ontario, Canada	Mechanical design, procurement, and fabrication of a 700 bbl/day re-refined oil plant