

Reference of UNIFLOW/UNICON

~ Take part in "not to stop the plant" ~

Petroleum Refinery Plant



ON-SITE Continuous Process

- H₂ manufacturing Equipment
- Oxoacid gas manufacturing Equipment
- Desulfurization of petroleum Equipment
- Various Utilities

OFF-SITE Batch Process

- Primary valves for petroleum-kind and LPG tanks
- Peripherals of Tanks, Pumps and Electrical Panels
- Marin Transportation (LPG, Oils)
- Various Utilities
- Shipping facilities of tanker trucks and tanker trains

COSMO OIL CO., LTD.

IDEMITSU KOSAN CO., LTD.

- Hokkaido Refinery
- Chiba Refinery
- Aichi Refinery
- Tokuyama Refinery

JXTG NIPPON OIL & ENERGY CORPORATION

- Sendai Refinery
- Kawasaki Refinery
- Negishi Refinery
- Sakai Refinery

JXTG NIPPON OIL & ENERGY CORPORATION (continued)

- Mizushima Refinery
- Marifu Refinery
- Oita Refinery

- Mizushima Refinery

KASHIMA OIL CO., LTD.

- Kashima Refinery

OSAKA INTERNATIONAL REFINING CO., LTD.

- Osaka Refinery

TOA OIL CO., LTD.

Other Petroleum Refinery plants

(alphabetical order)

Petrochemical/Chemical Plant



High pure TPA manufacturing Equipment

Propylene manufacturing Equipment

Ethylene manufacturing Equipment

Polycarbonate manufacturing Equipment

Polypropylene manufacturing Equipment

Petrochemical like B.T.X. and chemicals manufacturing Equipment

Various Utilities

ASAHI KASEI CORP.

Kawasaki Works

IDEMITSU KOSAN CO., LTD.

Chiba Plant
Tokuyama Plant

JXTG NIPPON OIL & ENERGY CORPORATION

Kawasaki Plant

mitsubishi chemical CORPORATION

Kashima Plant
Kurosaki Plant
INDIA CORP In China

MITSUBISHI GAS CHEMICAL COMPANY, INC.

Kashima Plant

MITSUI CHEMICALS, INC.

Iwakuni-Ohtake Works
SIAM MITSUI PTA CO., LTD.

ZEON CORPORATION

Mizushima Plant

Other chemical Industry plants

(alphabetical order)

Steel works



Sintering plant
Waste Gas Treatment System
Coke Oven
Coke oven gas desulfurization
Coal Pretreatment
SO Gas Refinery
Sulfuric Acid Manufacturing
Blast Furnace
Cooling furnace hearth and stove
Stuffing furnace top
Blasting low pressure oxygen
Hot Stove
High temperature air combustion line

Converter Furnace
Quicklime Injection
Oxygen Blasting
DH, RH Vacuum Degasser
Reheating Furnace
Regenerative Burner
Rolling Mills
Water-spray cooling
Roll cooling
Power Generating Plant,
Incidental Facilities

JFE STEEL CORPORATION

East Japan Works

Chiba Area

Keihin Area

West Japan Works

Fukuyama Area

Kurashiki Area

KOBE STEEL, LTD.

Kakogawa Works

Takasago Works

NIPPON STEEL & SUMITOMO METAL CORPORATION

Muroran Works

Kimitsu Works

Kashima Works

Nagoya Works

Wakayama Works

Sakai Works

Hirohata Works

Kokura Works

Yawata Works

Oita Works

NISSHIN STEEL CO.,LTD.

Kure Works

Other Steel Works

(alphabetical order)

PSA



O₂ manufacturing equipment
N₂ manufacturing equipment
CO₂ manufacturing equipment
CO manufacturing equipment
Adsorption tower
Vacuum pump by-pass valve
Gas product line

Air Liquide (France)

Daesung Industrial (Korea)

Air Products and Chemicals
(USA, Korea, China, etc.)

Linde (USA)

Air Water Inc.

Sumitomo Seika Chemicals Co., Ltd.

Others

(alphabetical order)

ASU



(peripheral to)
Water washing cooling tower

(peripheral to)
MS absorption tower

(peripheral to)
Main heat exchanger

Expansion Turbine

Outlet valve

Bypass valve

Cold Box

Argon distillation tower

Ar-product line

Product gas line

Air Liquide Japan Ltd.

Japan air gases Co.

Air Liquide China

Daesung Industrial

Air Water INC.

Kobelco Air Water Cryoplant, Ltd.

Taiyo Nippon Sanso

Corporation

Others

(alphabetical order)

~ Take part in "not to stop the cargo operation" ~

CHEMICAL TANKER



Cargo Line
Manifold
Diffusing
Discharging
Drop-Line
Common

Vent Line
Common Venting
Venting for Cargo Tank Line

Tank Cleaning
Pump Room
On-deck

ODM waste collection / Discharge Line
Pump Room

Outboard valve
Pump Room

FUKUOKA SHIPBUILDING
CO., LTD.

Minaminippon Shipbuilding
Co., Ltd.

Higaki Ship Building
Co., Ltd.

Shin Kurushima Dockyard
Co., Ltd.

Kitanihon Shipbuilding
Co., Ltd.

Usuki Shipyard Co., Ltd.

Others

(alphabetical order)

LPG TANKER



Manifold System

Venting Line

Purge Line

Liquid Line

Gas Line

Emergency Shutoff Valve

Boost./Heat Line

Japan Marine United Corporation
Tsu Shipyard

Kawasaki Heavy Industries, Ltd.
Ship & Offshore Structure Company

Mitsubishi Heavy Industries, Ltd.
Nagasaki Shipyard & Machinery Works

Others

(alphabetical order)

LNG TANKER



Manifold

Liquid Line

Vapor Line

Vent Line

Storage

Boost/Heat Line

Boiler Turbine

Japan Marine United Corporation
Tsu Shipyard

Kawasaki Heavy Industries, Ltd.
Ship & Offshore Structure Company

Mitsubishi Heavy Industries, Ltd.
Nagasaki Shipyard & Machinery Works

(alphabetical order)

NBS takes part in

"not to stop the plant"

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highly productive plant.

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