

WORK REFERENCES

<i>Project and location</i>	<i>Scope</i>	<i>End user</i>
Gas Dehydration Unit (Petrobras P-77)	Fabrication of pressure vessel overlaid with Alloy 625	Petrobras
Unidad de HDS de destilados medios Reactor 26C-001 - La Pampilla, Perú	Weld overlay of nozzles with SS 347. Base material: SA-182 F22 Cl.2	Repsol / Fluor / Sainca
Remote Header Pipe Spools – Aramco Project	Internal weld overlay and fabrication of spools	Saudi Aramco
Adapters BOMCO	Weld overlay with Alloy 625 of spool adapters	Cameron
Kraken Wedge Connectors	Weld overlay with Alloy 625 of hub connectors	Aker Solutions
Snamprogetti – Saudi Aramco project for off-shore facilities	Weld overlay of valves of DN 10”, 16” and 24” 1500# with Alloy 625. Base material: A216 WCB	Saudi Aramco
Almacenamiento Tuzandepeti (México)	Weld overlay of valves 8” 600# with Alloy 625	Cotinavec Mexico
Vessel 58489 AA 1V-6201 Domgas Absorber – Wheatstone Project – LNG Plant – Western Australia (Onslow)	Weld overlay of nozzles, forgings and flanges with SS 316L	Bechtel / Chevron
Azerbaijan Developments – South Caucasus pipeline	Weld overlay of nozzles with SS 316L	BP Exploration (Shan Deniz) Ltd
Coke Drums ExxonMobil Ambitech (Joliet, Illinois, USA)	Weld overlay with ER NiCr3 and butt weld of nozzles. Base material SA-336 F1 / SA-182 F1 (C-1/2Mo)	ExxonMobil
Total/Martin Linge/Technip/Samsung Heavy Industries	Weld overlay with Alloy 625 and butt weld of inserts with Alloy 625 in adaptation flange 14” API 1000 SA-182 F22 base material	Total
Wasit Gas Program	Weld overlay with Alloy 625 of nozzle forging for slug surge vessel SA-350 LF2	Saudi Arabian Oil Company
Alder Project	Weld overlay with Alloy 625 of flanges 10” SPO-S CF WN and pipes	Freudenberg Oil & Gas Technologies AS / Technip UK Ltd - Chevron
Harweel separation ave gas separators weld overlay	Weld overlay with ALLOY 625 of forgings Base material A350 LF2	PDO
Aker Solutions (Statoil) AHA Wedge Connectors	Weld overlay with Alloy 625 of wedge connector, hub connectors and transition pieces. Base material F22 & F65	Statoil

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Aker Solutions (Statoil) Termination and Porch	Weld overlay with Alloy 625 of hub connectors. Base material F65 & TTSTE355Z3	Statoil
Statoil, Gudrun & Valemon project	Weld overlay with Alloy 625 of body production wing valves	Statoil
Shah Deniz 2 Project South Caucasus Pipeline	Weld overlay with SS 316 of flanges and pipes.	BP Exploration (Shah Deniz) Ltd
Oil & Gas Platform	Hard facing with Alloy 6 of Triodis valves from 8" to 38"	KSB France
Sines Refinery	Fabrication of nozzles weld overlaid with Monel 400	Galp Energia
Icarus Project	Weld overlay of flanges with SS316L	Total
Mercury Absorber 10-VC-3003 & Separator 10-VZ-2001 (Martin Linge)	Weld overlay with Alloy 625 and SS316 of nozzles	Total-Technip
Cardon IV – Perla Early Production (Gulf of Venezuela)	Weld overlay with Alloy 625 and SS316 of flanges	TR – UTE Perla
Pertamina PHE ONWJ	Weld overlay with Alloy 625 of flanges	PT Schulz
Cepsa San Roque – Cadiz (Spain)	Weld overlay with Alloy C-276 in connection A	Cepsa
Vector hub 36" project	Weld overlay with Alloy 625 of Laydown head blind male hub for 36" pipeline and 335 duoseal	Freudenberg Oil & Gas Technologies
Solan Field-Development National Oil Well Varco	Weld overlay with Alloy 625 of hang-off flange / turret adapter	Premier Oil UK Ltd
Sadara Project	Weld overlay with SS 316L of nozzles	Jubail (KSA) Plant
R13001 – Cofrentes project	Hardfacing with Alloy 6 of valve parts. Base material SA-182 F6NM	Cofrentes Nuclear Plant
Wheatstone Project LNG Plant Onslow, Western Australia	Butt weld and weld overlay of nozzles, pipes, elbows, flanges for CO2 absorber and heavy wall vessels. Weld overlay material ER 309LMo + ER 316LSi	Bechtel International Inc. & Chevron Australia Pty Ltd
Yanbu Export Refinery project – Outlet of cocker furnace	Butt weld and internal weld overlay/hard facing of 24 elbows and flanges. Base material UNS N08811. Weld overlay/ hard facing with Alloy 6.	Saudi Aramco
Beaver Valley Unit 2	Complete manufacturing Pipes-cap Alloy 690 feed-water ring	First Energy Nuclear Operating Company (FENOC)
Gulfax project (Dubai)	Weld overlay of 5.1/8" 5.000 FLS Standard Gate Valve as per PN 2290230-01. Base material AISI 4130. Weld overlay with Alloy 625	Gulfax Group (Cameron)

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Khuff Aramco	Weld overlay of body tubing head adapter spool. Base material SA 182 F22. Weld overlay with Alloy 625	Saudi Aramco (Cameron)
Wasit NGL Fractionary Project (ULMA-Newtesol Jointventure)	Weld overlay with Monel 400 of flanges, pipes, elbows. Base material A350 LF2 and A106	Saudi Aramco
Martin Linge – Total – SUBSEA 7 Technology Group Oil & Gas company	Weld overlay of flanges SPO CF dimensions 8”, 12” and 16”. Base material A694 F65. Weld overlay with Alloy 625	Total
Umm-Lulu field Abu Dhabi (Technip)	Weld overlay of flanges Base material A694 F65. Weld overlay with Alloy 625	National petroleum construction company(NPCC) ADMA-OPCO
Shah gas development (SGD) program	Weld overlay on casting base material WCB. Weld overlay with Alloy 625 in 16” and 18” valves	Pentair / TR
KHABAROVSK Oil Station	Weld overlay of pipes, tees and weldolets. Base material A106 Gr.B. Weld overlay with Alloy 825	Khabarovsk Oil Refinery
CCI RSM Dominion Nuclear Order ASME Code Section III Certification Mark	Manufacturing of Main Steam Isolation Trip Valve. Weld overlay with Alloy 25 + Alloy 6	IMI Nuclear
West Franklin/Elgin B	Weld overlay on forged F22 75K bodies 7” 1/16 and 13” 5/8 Base material SA182 F22 Weld overlay with Alloy 625	Marino Rossetti
Statoil Heidrun Project	Bod Inlaid Tubing Head Housing. Base material SA-182 F22-105K Weld overlay with Alloy 625 and hardfacing with Stooddy 102”S”	StatOil (Cameron)
P55 Infield and Export SCR Roncador Field PETROBRAS-UO-RIO/ATP-RO	Sealing surface cladding Inconel 625 over ASTM A694 F52 (Production Line 8.625”, Water Injection Line 10”, Gas Export 12.75”, Oil Export 12.75”) according to ASME IX and DNV-OS-F101 October 2010	Petrobras
Total Raffinage Marketing & Tecnicas Reunidas	SS 347 Weld overlay of low alloy steel nozzles SA 336 Gr F22 Cl.3 according to ASME VIII Div.2	Total
Clair Ridge AMEC Natural Resources – Oil & Gas.	SS316 and Inconel 625 weld overlay of 400 nozzles, elbows, flanges and pipes according to ASME IX and PED 5000. Number of pieces: 453 units.	AMEC
S-80 Submarines – Spanish Army	Inconel 625 weld overlay of fore dome hull penetrations TLT: torpedo tubes	Spanish Army

WORK REFERENCES

YPF – FW - FRACCIONADORA	NiCr3 and SS317 Weld overlay of nozzles as per ASME VIII Div.1 (U stamp)	YPF
Wasit Gas Processing – Al Zamil Heavy Industries Ltd. (Ulma-Newtesol Jointventure)	SS316L weld overlay of nozzles as per ASME VIII Div.2 (U2 stamp)	Saudi Aranco
TAPIS EOR AND REJUVENATION PROJECT EXXONMOBIL EXPLORATION & PRODUCTION (M) INC.	SS316L weld overlay of elbows material SA420 WPL6 according to ASME VIII Div.1 (U stamp)	Asturi Metals
SOUTH PARS GAS FIELD DEVELOPMENT PHASES 17 & 18 OFFSHORE PLATFORMS National Iranian Oil Company	Weld overlay with Alloy 625 of valves Top Entry 20” 1500# and Top Entry 18” 1500#	National Iranian Oil Company
FOSTER WHEELER – SAMREF - EXXONMOBIL	Inside weld overlay ER 309LSi + ER 308L of small bore nozzles	SAMREF
Fraccionadora Repsol YPF Argentina. Ingeniería Foster Wheeler Energía.	Fabrication and weld overlay of nozzles, quality ER 308 and Alloy 600	YPF
JUBAIL EXPORT REFINERY PROJECT based on the engineering of Chiyoda and Samsung.	Spools manufacturing and weld overlay. Materials 316 and 308	Saudi Aranco
TOTAL FCCU 2011 PROJECT – Replacement FCC Reactor Head	Weld overlay of small diameter nozzles with Alloy 625	Total
Alquilation stop parts	Supply and fabrication of heads and nozzles with Monel 400	BP Oil
Technip (France) (Ulma-Newtesol Jointventure)	Weld overlay of WN flanges 16” 900# RTJ with stainless steel ER 316L	Technip
SOUTH PARS GAS FIELD DEVELOPMENT PHASES 17 & 18 OFFSHORE PLATFORMS National Iranian Oil Company	Weld overlay with Alloy 625 of valves of 4” and 24” 900#	National Iranian Oil Company
SOUTH PARS GAS FIELD DEVELOPMENT PHASES 17 &	Weld overlay with Inconel 625 of body of ball valve 36”	National Iranian Oil Company

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18 OFFSHORE PLATFORMS National Iranian Oil Company		
Nozzles column DA 101 unit D5 ADF (INEOS LAVERA) (Nozzles 26 A/B, 45C and 46E)	Fabrication and weld overlay with stainless steel ER 316L of nozzles	INEOS
EXXONMOBIL & Foster Wheeler Energy Ltd (UK)	New nozzles and nozzles modification parts in Alloy 625 for atmospheric tower and vacuum tower	FWE (UK) EXXONMOBIL
China Reactor DOW CORNING	Weld overlay nozzles SA350 LF2Cl2 with alloy 59 11-Co1 crude APS tower	DOW CORNING
Reactor Gasification Tianjin	Weld overlay, butt weld and machining of nozzles in Alloy 625	Babcock
Fist deep water subsea processing system in West Africa	Weld overlay and buttering of nozzles with Alloy 625	FMC
Mina-Trico Pemex Veracruz	Weld overlay of channel and nozzles with Alloy 825	PEMEX
Pearl GTL Qatar Shell GTL LTD	Weld overlay of flat front with Alloy 625	SHELL