

Past, Ongoing and Future Projects

CORROSION RESISTANT ALLOYS

Date	Contractor <i>(vessel if offshore)</i> Operator	Project Country	Number of Welding Stations Pipelines welded
2017	Technip for Mellitah Oil & Gas	Mellitah bahr Essalam UK (Evanton)	<i>4 Saturnax stations</i> 1,081 welds 8" (15.7 + 3mm, X60 + Alloy 625/825) - 13.185 km 926 welds 10" (17.3 + 3mm, X60 + Alloy 625/825) - 11.293 km
2017	Technip <i>(G1200)</i> for Mellitah Oil & Gas	Mellitah Bahr Essalam Libya	<i>4 Saturnax stations</i> 1,008 welds 20" (22.2 mm L450 + 3 mm 825) - 12.3 km 32 welds 20" (22.2 mm L450 + 3 mm 625) - 0.39 km Dummy spool: 5 welds 20" (22.2 mm L450 + 3 mm 625) Pipe to PLR: 1 weld 20" (22.2 mm L450 + 3 mm 825)
2017	Subsea 7 <i>(Borealis)</i> for BP	Atoll Development Proj Egypt	<i>4 +1 Saturnax stations</i> 287 welds 20" (22.2 + 3 mm, X65 + Inco 625)
2017	Emas <i>(Shallow Water/Lewek Champio)</i> for Saudi Aramco	Hasbah Saudi Arabia	<i>4 Saturnax stations</i> Lewek Champion : 141 welds 36" (31.75 + 3mm, X65 + Inconel625) - 1.7 km 204 welds 36" (31.75 + 3mm, X65 + Inconel625) - 2.5 km 439 welds 16" (19.05 + 3mm, X65 + Inconel625) - 5.4 km 588 welds 16" (19.05 + 3mm, X65 + Inconel625) - 7.1 km
2017	Technip for Statoil Petroleum	Trestakk Norway	<i>2 Saturnax stations</i> Double Joint Auto : 772 welds 16" (19.1 mm, X65) - Outer pipe 772 welds 11.75" (17.5 mm, 13% Cr) - inner pipe 974 welds 14" (17.5/19.1 mm, 13% Cr) 184 welds 10.6" (15.9 mm, 13% Cr) Main Line Auto : 772 welds 16" (19.1 mm, X65) - Outer pipe 772 welds 11.75" (17.5 mm, 13% Cr) - inner pipe 974 welds 14" (17.5/19.1 mm, 13% Cr) 184 welds 10.6" (15.9 mm, 13% Cr) Pipe-in-Pipe stalk Fabrication: 16"/11.75" 560m stalks fabrication, pushing

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2017	Technip for Statoil	Marine Wave 1 Norway	<i>4 stations</i> 312 DJ welds and 312 mainline welds: 7.6 km 14" (17.5 mm, 13% Cr)
2016	Technip for	PLP Reliability UK	<i>1 manual station</i> 3 off CRA girth welds; NDE 100% X-Ray, 100% manual UT & 100% MPI 4 off CRA fillet welds; NDE 100% DPI
2015	Technip for Tullow	Tullow TEN UK (Evanton)	<i>5 Saturnax stations</i> 12 welds 10" (23.6 mm, X65 + 3 mm Clad) 227 welds 8" (18.9 mm, X65 + 3 mm Clad)
2015	TL Offshore (LTS3000) for CPOC	JDA B17 (CPOC) JDA Malaysia & Thailand	<i>4 Saturnax stations</i> 451 welds 18" (12.9 + 3 mm, X65/incoloy 825) - 5.5 km
2015	SapuraAcergy (Sapura 3000) for Total	Maharaja Lela Brunei	<i>3 Saturnax stations</i> 348 welds 18" (11.2+3 mm) - 4.246 km 62 welds 18" (14.3+3 mm) - 0.757 km 385 welds 18" (11.2+3 mm) - 4.697 km 54 welds 18" (14.3+3 mm) - 0.659 km Material grade: API 5L X60M PSL2 316L Clad
2015	Bonatti for NCOC	Kashagan Kazakhstan	<i>3 Saturnax stations</i> 6,884 welds 28" (19 mm, Clad 625)
2015	Technip Marine (G1201) for SSPC	Malikai Malaysia	<i>4 Saturnax stations</i> 10 welds 8" (16.1 + 3 mm) 30 welds 10" (19.2 mm + 3 mm)
2015	Technip for SSPC	Malikai DJ Malaysia	<i>Saturnax stations + 2 manual stations</i> Double Jointing of SCR CRA: 7 welds 8" (16.1 + 3 mm) 17 welds 10" (19.2 + 3 mm)
2015	Technip for Enquest	Enquest Kraken UK (Evanton)	<i>4 or 5 Saturnax stations</i> 1,581 welds 12" (22.1 mm, X65 + 3 mm Clad) 10 welds 12" (22.2 mm, 25% Cr) 10 welds 12" (19.1 mm, 25% Cr) 544 welds 12" (22.1 mm, X65 + 3 mm Clad) 5 welds 12" (22.2 mm, 25% Cr) 5 welds 12" (19.1 mm, 25% Cr)
2014	Technip for Taqa Bratani	Taqa Cladham UK (Evanton)	<i>5 Saturnax stations</i> 1,375 welds 10" P (16.1 mm, 25% Cr) - 17 km
2014	Technip for Total	Total Edradour UK (Evanton)	<i>Automatic and manual welding</i> 120 welds 12" (19.6 + 3mm Clad) - 1.5 km 1,447 welds 2.3" (5.5 mm, 22% Cr) - 17.9 km
2014	Nippon Steel & Sumikin Eng. (Kuroshio II) for Carigali Hess	Bulan C Thailand/Malaysia	<i>3 Saturnax stations</i> 1,355 welds 24" (19.05+3 mm CRA) X65/SS316L - 16.525 km

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2014	Aker Offshore Partner for Talisman Sinopec	Flyndre Cawdor Conduc UK	<i>2 Manual stations</i> Offshore welding of Conductor Riser and 8" Spool fabrication: 8 welds 8" (18.1 mm, 25% Cr) 8 welds 6" (14.3 mm, 25% Cr) All welds in 2G position 10 welds 8" (18.1 mm, 25% Cr) for the spool in 5G position
2014	Technip for Statoil	Gulfacks SOR IOR Spool Norway	<i>4 Manual stations</i> Fabrication of 10 spools : 5 spools 8" (20.6 mm, 25% Cr) 3 spools 6" (19.1 mm, 25% Cr) 2 spools 8" (22.2 mm, 450 DNV) Approx 179 welds
2014	Technip <i>G1201</i> for Woodside	Greater Western Flank Australia	<i>3 Saturnax stations</i> 15.7 km 16" (24 mm, clad Gr. 415+316L)
2014	GE Oil & Gas for N/A	Lianzi Hubs Norway	<i>2 Manual stations</i> Fabrication: 17 Spools, Fab weld, NDE, Hydrotest and package for shipping 6" & 2" Carbon X65 - 25% Chrome
2013	TL Offshore (E3) for EMEPMI	Tapis & Damar Malaysia	<i>3 Saturnax stations</i> Damas: 21 km 16" (11.1+3mm, DNV450 + Incoloy 825 liner + Overlay 625) 1 km 16" (14.3+3mm, DNV450 + Incoloy 825 liner + Overlay 625) (Tapis pipelines are CS)
2013	Technip for Shell	Nexen Golden Eagle Nor UK (Evanton)	<i>Manual welding</i> 500 welds 8" (9.5 mm, 22% Cr) - DJ - 6.1 km 500 welds 8" (9.5 mm, 22% Cr) - 6.1 km
2013	Talisman Sinopec Energy (Arbroath Platform) for -	Arkwright Riser Offshor UK (Noth Sea)	<i>1 Manual station</i> Offshore Riser Welding arbroath Platform, North Sea: 1 no. 8" (12.7 mm, 25Cr) - production Riser
2013	Cameron for BP	Ring-O Vlives - Thunder USA (Houston)	<i>1 Manual station</i> Welding of 16 pup pieces to 8 x ring-O valve transition stubs: 16 welds - 8.2" x 38.1 mm (Inconel 625 cladding)
2013	Technip for Statoil	Åsgard Compression Sp Norway	Fabrication of 15 spools pieces at Kristiansund: - 1 no. 18" (19 mm, 25% Cr) - 9 no. 16" (17 mm, 25% Cr) - 2 no. 12" (14 mm, 25% Cr) - 3 no. 10" (12 mm, 25% Cr)
2013	Technip for Maersk	Maersk Flyndre Cawdor UK (Evanton)	<i>5 Saturnax stations</i> 2,089 welds 8" (12.7 mm, 13%Cr) - 25.8 km
2013	Technip for Shell	Shell Gannet F (Evanton)	965 welds 10" (12.7 mm, 13% Cr) - 11.9 km

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2013	Nippon Steel (Kuroshio 1) for Carigali Hess	Bulan-B & Bumi-D Malaysia/Thailand	3 Saturnax stations 6.414 km 16" (11.1+3 mm, X65+SS316L) - BLB TO BLA 9.3 km 20" (15.09+3 mm, X65+SS316L) - BMD to BMB
2013	Technip for BP	BP Quad 204 UK (Evanton)	4 or 5 Saturnax stations 3,175 welds 10" (20.7 mm, X60 316L Clad 45mm PP.PPF)-39 km 935 welds 8" (19.7 mm, X60 316L clad 46mm PP.PPF)-11.5 km
2013	Technip for BP	Mad Dog Phase 2 USA	Process : Manual GTAW Welding 12 test strings with clad lining for fatigue testing programme - 10 welds 12.75" (37 mm, X65) 30 welds 12.75" (37 mm, X65) - Clad line CRA Filet welds (36) Nose Plug welds (36)
2012	FMC for BP	BP Shah Deniz Defect UK (Evanton)	Test blocks with artificial defects: 10 number 379mm OD x 62.5 mm F65 with 625 Cladding seeded defect test pieces 4 number 379mm OD x 62.5 mm F22 with 25% Cr Cladding seeded defect test pieces
2012	Allseas (Audacia) for Petro SA	CRA Project South Africa	330 welds 12.75" (25.2 mm) Cladded pipe X65/Inconel 825
2012	Bonatti for In Salah gas	In salah Gas Southern F Algeria	3 Saturnax + 3 manual stations Scope 16" : 10,474 welds 16" (12.7 mm, 13% Cr) 208 welds 16" (20.6 mm, 13% Cr) 81 welds 16" (23.8 mm, 13% Cr) (Manual welds : approx 400) Scope 12.75" : 1,760 welds 12.75" (11.1 mm, 13% Cr) 291 welds 12.75" (15.9 mm, 13% Cr) (Manual welds : approx 60) Scpe 8.625" : 309 welds 8.625" (10.0 mm, 13% Cr) 52 welds 8.625" (11.1 mm, 13% Cr) (Manual welds : approx 100)
2012	Technip for Lundin	TNO Lundin Brynhild UK (Evanton)	Manual welding 3,150 welds 6" (6.4/8.1/9.5 mm, 13%Cr)
2012	Technip for Nexen	Nexen Golden Eagle UK (Evanton)	405 welds 6" (12.7 mm, 22% Cr) - 4.7km
2012	TL Offshore (LTS3000) for Carigali Hess	Bumi-B & Cakerawala-D Malaysia/Thailand	3 Saturnax stations 525 welds 24" (14.3 mm, X65 + 3mm 316L) 320 welds 10.75" (9.27 mm, X65 + 3mm 316L)

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2011	FMC for Petrobras	Tambau Brazil (Rio)	<i>6 manual stations</i> Onshore fabrication of 5 Jumpers to allow connection of the export flowline to the platforms and subsea structures (MacLarren Shipyard, Niterói - Rio) : Jumper U : 14" (50.8 mm, X70 + Inconel 625) Jumper U : 14" (50.8 mm, X70 + Inconel 625) Jumper M : 12.75" (28.57 mm, X80 + Inconel 625) Jumper M : 12.75" (28.57 mm, X80 + Inconel 625)
2011	Technip for Total	Total Islay UK (Evanton)	<i>Manual welding</i> 6"/12" PIP : 959 welds 6" (18,3 mm, 25% Cr) 464 welds 12" (14,3 mm, X52)
2011	Marathon Oil (Apache) for BP	East Brae Riser UK (East Brae)	<i>3 manual stations</i> Devenick Tie-back to East Brae project - Production riser: 10 welds 10" (30 mm, 25%Cr) External coating: 70mm insulation FJC system, Canua KLNN HSS
2011	TL Offshore for Shell & Petronas	F23 (PB-2011) Malaysia	1 km 16" (20 mm, X65 + 3 mm CRA UNS clad 825)
2011	Acergy (Polaris) for Exxon	OSO Nigeria	<i>3 Saturnax stations</i> 401 welds 12.75" (14,3 + 3mm Clad 825/625) - 4.8 km 115 welds 10.75" (12,7 + 3mm, X60 + Clad 825/625) - 1.4 km 649 welds 16" (11,9 + 3mm, X60 + Clad 825/625) - 7.9 km
2011	Technip for British Gas	BG Gaupe Scotland (Evanton)	<i>12" Automatic / 8" Manual weldnig</i> 8"/12" PIP : 1,174 welds 8" (14,3 mm, 13% Cr) - Inner 1,177 welds 12" (14,3 mm, X65) - Outer
2010	Technip for (N/A)	Smorbukk Norway (Orkanger)	<i>4 Saturnax stations</i> 6 km of PIP 12" Outer pipe : 234 DJ + 234 ML welds 10" Inner pipe : 234 DJ + 234 ML welds SML C-Mn 360 Carrier and 13% Cr
2010	Technip for Statoil	Marulk Norway (Orkanger)	<i>4 automatic stations</i> PIP - Fabrication and assembly of : 10.5" (14.25/15.9 mm, 13% Cr) flowline pipe inside 15" (20.5 mm, CS) carrier pipe
2010	TL Offshore (QP2000) for EMEPMI	Petronas Package C-20 Malaysia	<i>4 Saturnax stations</i> 82 joints 12.75" (14.3 mm, X65 + 3 mm 825) 410 joints 12.75" (11.1 mm, X65 + 3 mm 825) 82 joints 12.75" (14.3 mm, X65 + 3 mm 825) 221 joints 12.75" (11.1 mm, X65 + 3 mm 825) 82 joints 12.75" (14.3 mm, X65 + 3 mm 825) 279 joints 12.75" (11.1 mm, X65 + 3 mm 825) 223 joints 12.75" (11.1 mm, X65 + 3 mm 825)
2010	Talisman Energy (Fulmar A Platform) for Talisman Energy	Fulmar Platform North Sea	<i>Manual welding</i> Production Riser: 8 welds 8.63" x 18.3 mm, UNS S32750

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2010	Technip for BP UK	Devenick Scotland (Evanton)	<i>Automatic and manual welding</i> 2,710 welds 10" (12 mm, 13%Cr) - PIP 20 welds 10" (27 mm, 25%Cr) - PIP 210 welds 8" (16.9 mm, 13%Cr) - PIP
2009	Technip (Evanton Spoolbase) for Shell	Bardolino UK	<i>Manual Welding</i> 2.6 km 6" (12.7 mm, 25%Cr) - 210 welds
2009	Technip for Wintershall	Wintershall E18 & P9 Scotland (Evanton)	<i>5 + 7 Manual stations</i> 5.8 km 10" (14.3 mm, 13% Cr) - 463 welds
2008	Kito Enterprises (C-Master) for POGC	South Pars 1 Iran	<i>7 TIG welding stations</i> 531 welds 18" (12.8 mm) - 5 km 2.5 mm inconel 625 + 10.3 mm, X65
2007	TL Offshore (Sea Horizon) for PCSB & EMEPMI	TLO 2007 Malaysia	<i>3 Saturnax stations</i> 434 welds 16" Inconel (Jerneh A to Jerneh B)
2007	Technip (Evanton Spoolbase) for Duco	AKPO Flying Leads Scotland (Evanton)	<i>2 manual stations</i> Pipes to connector : 670 welds 15.3 mm OD x 1.3 mm w.t. Super Duplex 25% Cr 330 welds 21.7 mm OD x 1.3 mm w.t. Super Duplex 25% Cr
2007	Acergy (Acergy Piper) for Statoil	Tyrihans Norway	<i>3 Saturnax stations</i> 596 DJ 16" (20.9+3 mm, X65 + 316L) 1,189 DJ 18" (20.9+3 mm, X65 + 316L)
2006	TL Offshore (DLB264) for Sarawak Shell	B12 Malaysia (Sarawak)	<i>3 Saturnax stations</i> 0.810 km 14" (22.5 mm X65 + 3 mm + Inconel 825) 8.930 km 14" (15.2 mm X65 + 3 mm + Inconel 825)
2006	Technip (Evanton Spoolbase) for BG	Maria Scotland	<i>6 manual welding stations</i> 940 welds 12.75" (19.1 mm, 13% Cr)
2005/ 2006	Stolt Offshore (Polaris) for Exxon	Erha Nigeria	<i>1 Saturnax + 1 GTAW station (J-Lay)</i> 20 welds SCR 6.625" (15.9+4 mm, X65 + Inconel 825) 36 welds SCR 10.75" (20.6+4 mm, X65 + Inconel 825)
2004	Global Industries (DLB264) for Shell Sarawak	Serai Malaysia	<i>4 Saturnax stations</i> 82 welds 14" (20.6 mm + 3 mm 316L) - 1 km 680 welds 14" (14.3 mm + 3 mm 316L) - 8.3 km
2004	Nippon Steel (Kuroshio II) for Shell Sarawak Berhad	Jintan 2004 Malaysia	<i>3 Saturnax stations</i> 6.75 km 612.0 OD (18.3 mm, X65) + clad 316L 4 mm) 1.00 km 621.6 OD (23.1 mm, X65) + clad 316L 4 mm)
2003	Stolt Offshore (Seaway Falcon) for Norsk Hydro	Vigdis Norway	<i>3 Saturnax stations</i> 1,422 welds 12.75" (20.4 mm, X65/0,5% Cr) -

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2002/ 2003/ 2004	Stolt Offshore (Polaris/Nigerdock) for Shell	Bonga Nigeria	5 Saturnax stations + 2 GTAW (2G position) Production line : 1.0 km 10" (28.4 mm, X52 + clad 625/825) SCR 0.4 km 12" (28.6 mm, X52 + clad 625/825) SCR Water Injection : 19 km 12" (20.6 mm, X52 + clad 625) FL (STT root pass Saturnax for remaining passes) 5.8 km 12" (27 mm, X52 + clad 625) FL 2.3 km 12" (27 mm, X52 + clad 625) SCR 1.0 km 12" (30 mm, X52 + clad 625) SCR
2002/ 2003	Kellogg for In-Salah Gas (ISG)	In-Salah Algeria	2 Saturnax stations 61.5 km 8"/10"/12" (9.0/12.5 mm, 13% Cr)
2002	Nippon Steel (Kuroshio II) for Petronas/Shell Sarawak	Jintan Malaysia	4 Saturnax stations 7.6 km 24" (14.3/19.1 mm + 3 mm 316L, X65)
2002	Global Industries (Comanche) for Marathon	Alba Phase II Equatorial Guinea	4 Saturnax stations 1,230 welds 12" (0.5", 12% Cr)
2001	Stolt Offshore (Seaway Falcon) for Norsk Hydro	Vale Norway	3 Saturnax stations 16 km 8" (22.2 mm, X65 - Alloyed 0.5 Cr) 0.5 km 8" (25.1 mm, X65 Alloyed 0.5 Cr)
2001	Global Asia Pacific (DLB264) for Shell Sarawak Berhad	F23 SW & M4 Malaysia	3 Saturnax stations 200 welds 12" (9.5 + 3 mm, X65) - 2.5 km 80 welds 12" (11.1 + 3 mm, X65) - 1 km 662 welds 14" (14.3 + 3 mm, X65) - 8 km 80 welds 14" (17.7 + 3 mm, X65) - 1 km All : base metal + clad with 3 mm A 316L
2000	Stolt Offshore (Reel Base) for Wintershall	L8 UK	2 Saturnax stations 825 welds 6" (11.1 mm, 13% Cr) - 10.5 km 246 welds 12" (17.5 mm, 13% Cr) - 3.1 km
1996	McDermott-ETPM (DLB1601) for Texaco	Erskin to Lomond UK	3 Saturnax stations 50 welds 16" Clad pipe : - Line pipe : 3 mm 304L + 11.9 mm - Forged elbows : 3 mm Inconel 625 + 11.9 mm
1988	ETPM (DLB1601) for Statoil	Tommeliten Norway	AMI + Saturnax 3,607 welds 9" (15.8 & 24.4 mm) - 44 km Duplex type TÜV 1.4462
1988	ETPM (DLB1601) for NAM	K15 The Netherlands	AMI + Saturnax 1,148 welds 10" (7.3 & 12.7 mm) - 14 km Duplex type TÜV 1.4462
1987	ETPM (DLB1601) for NAM	K14 to K15 The Netherlands	AMI 1,393 welds 12" (9.5/12.7 mm) - 17 km 22%Cr Duplex