



PROJECT REFERENCE LIST - WELD OVERLAY

Order Date	Last Delivery Date	Job Ref	Project	Customer	Ultimate Customer	Scope Inclusions and Quantity								Size Range		Cladding Materials		Raw Materials		Project Location	Manufacturing Location	Project Type	Notes
						WOL Pipe (m)	WOL Fittings/Flanges (Ea)	MLP (m)	Spool Fabrication (Ea)	Valves (ea)	Induction Bends (ea)	Pressure Vessels (Ea)	Other	From (inch)	To (inch)	Grade	Minimum Thickness (mm)	Free Issue (Y/N)					
Jul-19	Aug-19	CT606	Lingshui Tie - In System	Aker Solutions	CNOOC	16.55	26						47	8	12	625	3	Y	Malaysia	Batam	Subsea	Other for test ring	
Apr-19	Nov-19	CT579	D7375 (QG NFPS I2P1 Project)	McDermott	Qatargas	138	56							6	24x24	625	3	N	Saudi Arabia	Batam	Offshore Facility		
Feb-19		CT578	EPC for Al Dabb'iyah Thammama - Phase 1 & Restore Al Dabb'iyah other zone (OZ)	Archirodon Construction (Overseas Company)	ADNOC	812	618							6	18x6	825	3	N	Saudi Arabia	Batam	Offshore Facility		
Jan-19	Jul-19	CT571	Wells & Pipeline Replacement Project V (SSPRP-V)	Sapura Energy	ONGC	12	20							14	16x14	825	3	Y	India	Batam	Subsea		
Dec-18		CT561	JTB Unitisation Gas Project	Rekayasa Industri	Pertamina	1,206	401							4	24	825	3	N	Indonesia	Batam	Offshore Facility		
Dec-18		CT566	Safaniya (8 Slipover Platforms)	NPCC	Saudi Aramco	540	425							2	16	625	3	Y	Saudi Arabia	Batam	Offshore Facility		
Dec-18		CT567	Safaniya (5 New SSS PDM'S)	NPCC	Saudi Aramco	462	496							2	16	625	3	Y	Saudi Arabia	Batam	Offshore Facility		
Dec-18		CT568	Safaniya (4 Slipover Platforms)	NPCC	Saudi Aramco	324	265							2	16	625	3	Y	Saudi Arabia	Batam	Offshore Facility	Hubs	
Sep-18		CT546	NFPS Project	Qatar Gas	Qatar Gas	588	84							10	20	625	3	N	Qatar	Batam	Subsea Pipeline		
Apr-18		CT527	3 Gas PDM'S Project	Larson & Tubro	Saudi Aramco	1,158	1061							6	16	625	3	N	Saudi Arabia	Batam	Offshore Facility		
Apr-18		CT528	Safaniya 10	McDermott	Saudi Aramco	810	434							2	16	Apr	3	N	Saudi Arabia	Batam	Offshore Facility		
Mar-18	Sep-18	CT520	Side A Isolation Valve Installation Project	Chiyoda Almana	Qatar Gas	8	12							10	38	316L	3	N	Qatar	Batam	Onshore Facility		
Jan-18	Nov-18	CT501	Block A Gas Development Project	Galperti	Medco	180	29	48						4	16	316L / 825	3	N	Indonesia	Batam	Onshore Pipeline		
Jan-18	Feb-18	CTB120	FPSO76	Caldex	Petrobras	2	2							10	10	625	3	Y	Brazil	Brazil	FPSO		
Jul-17	Feb-18	CT466	Block A Gas Development Project	Mitsui	Medco	52	99	7						4	12	316L/825	3	N	Indonesia	Batam	Onshore Facility		
Jun-17	May-18	CT459	Phon Lan Dai Project	PVDT Tech / Kim Heng Suat	Rosneft	517	10				51			8	16	625	3	Y	Vietnam	Batam	Subsea	Pressure Vessel Components	
May-17	Feb-18	CT454	Safaniya 4	Larson & Tubro	Saudi Aramco	720	474							2	20	625	3	N	Saudi Arabia	Batam	Offshore Facility		
May-17	Aug-17	CT460	Onshore Facilities	SES	SES	22	4							4	4	625	3	N	Saudi Arabia	Batam	Onshore Facility		
May-17	Jul-17	CT463	Safaniya 4	Larson & Tubro	Saudi Aramco	3	12							2	8	625	3	N	Saudi Arabia	Batam	Offshore Facility		
Apr-17	Dec-17	CT449	Tanggung ORF Modification Project	Transalindo Eka Persada	BP Berau	30	10							24	24	625	5	Y	Indonesia	Batam	Onshore Facility		
Mar-17	Apr-18	CT429	EPCI of D6463 SFNY 9 Slipover Jackets & Decks , Pipelines, Cables and Single Well Platform (SWOP) at	McDermott	Saudi Aramco	1,002	392							2	16	625	3	Y	Saudi Arabia	Batam	Offshore Facility	Thermal Sleeves	
Mar-17	Apr-17	CTB091	FPSO P69	Keppel Fels	Petrobras	72	5				6			8	10	625	3	N	Brazil	Brazil	FPSO		
Dec-16	Aug-17	CT403	SFNY, ZULF, MRJN and Berri Field Developments	McDermott	Saudi Aramco	12	84							6	12	625	3	Y	Saudi Arabia	Batam	Offshore Facility		
Dec-16	Oct-17	CT404	Berri Project	McDermott	Saudi Aramco	285	681							2	20	625	3	Y	Saudi Arabia	Batam	Offshore Facility		
Oct-16	Jul-17	CT388	PNG LNG Slugcatcher Modifications	Wood Group PSN	Exxon Mobil	42	81							24	30	316L	3	N	PNG	Batam	Pressure Vessels	Underwater Sheave	
Oct-16	Nov-16	CTB068	FPSO P67 / P70	COOEC	Petrobras	361	64							8	8	625	3	N	China	Brazil	FPSO		
Sep-16	Jan-17	CT372	TUPI BV Project	BJC Heavy Industries	Petrobras	89	138							6	14	625	3	Y	Brazil	Batam	FPSO		
Aug-16	Aug-17	CT375	ANDR Remote Header	Saudi Aramco	Saudi Aramco	223	384		75					4	16	625	3	N	Saudi Arabia	Batam	Onshore Facility	Field Joint Coating Bend Simulation Testing	
Jul-16	Jan-18	CT371	ABSF 2 & ABSF 6 Decks and Jackets	Saipem	Saudi Aramco	162	90							4-1/16	16	625	3	N	Saudi Arabia	Batam	Offshore Facility		
Jun-16	Dec-16	CT366	NAUG-System-A	JGC Gulf International Co. Ltd.	Saudi Aramco	209	150		10					6	6	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Jun-16	Jan-17	CT365	Gas Modular Skid Project	Gulf Steel Work	Saudi Aramco	106	1,023		99					6	6	625	3	N	Saudi Arabia	Batam	Onshore Facility	Site Services	
May-16	Nov-16	CT347	Gas Modular Skid Project	Maritime Industrial Service	Saudi Aramco	36	350		30					2 1/6	6	625	3	N	Saudi Arabia	Batam	Onshore Facility	CS Bending Services	
Apr-16	Oct-16	CT354		Alam Bersemi Sentosa	Pertamina	13	52							2	24	308L	3	N	Indonesia	Batam	Onshore Facility		



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						WOL Pipe (m)	WOL Fittings/Flanges (Ea)	MLP (m)	Spool Fabrication (Ea)	Valves (ea)	Induction Bends (ea)	Pressure Vessels (Ea)	Other	From (inch)	To (inch)	Grade	Minimum Thickness (mm)	Free Issue (Y/N)					
Apr-16	Jun-16	CT353		Dubai Petroleum	Dubai Petroleum	7	10							18	18	316L	3	N	UAE	Batam	Offshore Facility		
Mar-16	Jan-17	CT343	Gas Modular Skid Project	Oilfield Supply Centre	Saudi Aramco	100	1,085		93					2 1/6	6	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Mar-16	Dec-16	CT350	Gas Modular Skid Project	Petronash	Saudi Aramco	100	1,116		93					2 1/6	6	625	3	N	Saudi Arabia	Batam	Onshore Facility	Barred Tees	
Dec-15	Apr-16	CT323	Tanggung ORF Modification Project	BP Berau	BP Berau	690	468							4	24	316L	3	N	Indonesia	Batam	Onshore Facility	Manifold	
Dec-15	Mar-16	CT333	Baronia Field Compression Project	HS Compression & Process	Petronas Carigali	3	35							2	6	316L	5	N	Malaysia	Batam	Pressure Vessels		
Nov-15	Apr-16	CT336	Catcher FPSO	IHI Corporation	Premier Oil	32	41		11					2	18	625	3	N	UK	Batam	FPSO		
Oct-15	Aug-17	CT331	Umm Lulu Full Field Development Project	NPCC	ADMA OPCO	164	78							6	16	625	3	Y	UAE	Batam	Offshore Facility		
Sep-15	Aug-16	CT329	NASR Full Field Development Project	NPCC	ADMA OPCO	4,188	1841							6	18	625	3	Y	UAE	Batam	Subsea	Thermal Sleeves	
Sep-15	Apr-16	CT327	Matindok Gas Development Project (MGDP)	Mitra Galperti Indonesia	Pertamina	222	92	360						2	12	825	3	Y	Indonesia	Batam	Onshore Facility		
Aug-15	Apr-16	CT321	PRP4 Project	Swiber	ONGC	51	43							16	18	825	3	N	India	Batam	Offshore Facility		
Jul-15	Feb-16	CT317	TUPI BV Project	BJC Heavy Industries	Petrobras	179	264							6	14	625	3	Y	Brazil	Batam	FPSO		
May-15	Feb-16	CT307	Integrated Refinery Expansion Project	Engineers India Limited	Bharat Petroleum	32	61		24					8	30	625	3	N	India	Batam	Refinery		
Mar-15	Aug-15	CT301	OSII Phase 2 Development Project	NPCC	ADMA OPCO	8	14							6	12	825	3	N	UAE	Batam	Offshore Facility		
Mar-15	Jan-17	CTB037	WAG Manifold	GE Oil & Gas	Petrobras	556	370				166			3		625	3	N	Brazil	Brazil	Subsea		
Jan-15	Mar-16	CTB049	Replicant FPSO Project	Tome-Ferrosstaal	Petrobras	271.8	116							3	12	625	3	Y	Brazil	Brazil	FPSO		
Dec-14	Nov-15	CT295	Matindok Gas Development Project (MGDP)	Mitra Galperti Indonesia	Pertamina	978	540							6	12	825	3	Y	Indonesia	Batam	Onshore Pipeline		
Nov-14	Nov-15	CTB031	FPSO - P69	Keppel Fels	Petrobras	894	125				143			4	20	625	3	N	Brazil	Brazil	FPSO	Structure (Crane Mats)	
Oct-14	May-15	CT286	Madura BD Field Development	HCML Husky CNOOC	HCML Husky CNOOC	22	147							6	10	825	3	N	China	Batam	Onshore Facility		
Sep-14	Jul-15	CT282	Renewal of 3rd Stage Discharge Piping	OGASCO	OGASCO	18	154							4	14	825	3	N	UAE	Batam	Onshore Facility		
Aug-14	Aug-16	CT277	P75 and P77 Project	BJC Heavy Industries	Petrobras	6,100	3,648		1668					6	24	625	3	Y	Brazil	Batam	FPSO		
Apr-14		CT269	Satah Al Raz Boot (SARB) Project	Hyundai Engineering & Construction	ADMA OPCO	6,200	1,711							6	24	625	3	Y	UAE	Batam	Onshore Facility		
Apr-14	Jul-15	CTB031	FPSO - P69	Keppel Fels	Petrobras	150	32							4	20	625	3	N	Brazil	Brazil	FPSO	CS Bends	
Mar-14	Mar-16	CT299	USSC Flexibility Assurance (AGFA) Project	NPCC / Technip	ADMA OPCO	852	688							6	30	625	3	Y	UAE	Batam	Onshore Facility		
Mar-14	Oct-14	CT267	WASIT - Arabiyah & Hasbah Offshore and Onshore Facilities	Saipem	Saudi Aramco	12	97							2	10	625	3	Y	Saudi Arabia	Batam	Offshore Facility		
Mar-14	Nov-14	CTB021	FPSO - P66	Keppel Fels	Petrobras	114	31				11			4	20	625	3	N	Brazil	Brazil	FPSO		
Oct-13	Mar-15	CT255	Harweel Transition Project	OOISS	PDO (Shell Oman)	120	75							6	24	825	3	Y	Oman	Batam	Onshore Facility		
Sep-13	Dec-13	CT219	Senoro Project	Samsung Engineering	Pertamina	994	56	16,445			120			6	16	625	3	Y	Indonesia	Batam	Onshore Pipeline		
Jul-13	Mar-15	CT241	KHUFF Gas Project	Saudi Aramco	Saudi Aramco	4,085	3,772		939					1	24	625	3	N	Saudi Arabia	Batam	Onshore Facility	Integrated Riser Hanger Flange Assemblies c/w monel sheath	
Jun-13	Dec-15	CTB008	Replicant FPSOs - process modules	Tome-Ferrosstaal	Petrobras	8208	4740				539			2	24	625	3	Y	Brazil	Brazil	FPSO		
May-13	Nov-13	CT239	WASIT - Arabiyah & Hasbah Offshore and Onshore Facilities	McDermott	Saudi Aramco	268	8							12	16	625	3	Y	Saudi Arabia	Batam	Offshore Facility		
May-13	Mar-14	CT238	TUPI BV Project	Lindel	Petrobras	990	57							8	20	625	3	N	Brazil	Batam	FPSO	Test Rings	
Apr-13	May-13	CT217		Profab		19	6							16	16	316L	3	Y	Indonesia	Batam	Pressure Vessels		
Mar-13	Apr-13	CT225	Ruby Field Development	Profab	Pertamina	6	4							8	8	625	3	Y	Indonesia	Batam	Offshore Facility	Inspection Services	



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Mar-13	Nov-14	CTB021	FPSO - P66	Keppel Fels	Petrobras	990	66				129			8	20	625	3	N	Brazil	Brazil	FPSO	
Oct-12	Apr-14	CT204	KHUFF Gas Project	Saudi Aramco	Saudi Aramco	612	867		94					2	8	625	3	N	Saudi Arabia	Batam	Onshore	
Feb-12	Dec-14	CT147	WASIT - Arabiyah & Hasbah Offshore and Onshore Facilities	Saipem	Saudi Aramco	1,827	3,974				108			1	36	625	3	N	Saudi Arabia	Batam	Offshore Facility	
Jan-12	Nov-14	CT144	WASIT - Arabiyah & Hasbah Offshore and Onshore Facilities	Saipem	Saudi Aramco	11,102	445				90			12	36	625	3	N	Saudi Arabia	Batam	Subsea Pipeline	Gr B bends
Oct-11	Nov-13	CT140	Shah Gas Project	TR Abu Dhabi	ADMA OPCO	3,401	1,106							2	36	625	3.5	N	UAE	Batam	Onshore Pipeline	
Sep-11	Apr-13	CT138	Shah Gas Project	Samsung Engineering	ADMA OPCO	7,124	289							6	16	625 & 825	3	Y	UAE	Batam	Onshore Pipeline	Gr B bends
Sep-11	Dec-11	CT135	Integrated Gas Development	Corrotherm International	ADMA OPCO	48	1							4	10	625	3	Y	UAE	Batam	Offshore Facility	Inox 304L Bends
Aug-11	Sep-16	CT131		J.J Advance	J.J Advance	5	8							2	14	316L	3	Y	Singapore	Batam	-	
Aug-11	Mar-12	CT134	Shell Bugis Project	Kim Seng Huat	Shell	114	127							4	16	825	3	Y	Singapore	Batam	Refinery	
May-11	Oct-11	CT129		Arabian Pipeline	Arabian Pipeline	6	7							8	14	825	3	N	UAE	Batam	Onshore Facility	Gr B bends
Dec-10	Dec-10	CT101	Gorgon Field Development	GE Oil & Gas	Chevron	4	10							2	6	625	3	N	Australia	Batam	Subsea	Gr B bends
Nov-10	Jun-14	CT100	Gorgon Field Development	GE Oil & Gas	Chevron	4,100	778				53			2	34	625	6.5	N	Australia	Batam	Subsea	Gr B and ASTM A335 Gr. TP11 bends
Sep-10	Jun-12	CT105	Bab Thamama G & Habshan 2 1.8 MMBOPD Phase 1 Development	NPCC	ADMA OPCO	876	10							14	14	825	3	N	UAE	Batam	Onshore Facility	
Apr-10	May-13	CT77	Gorgon Field Development	GE Oil & Gas	Chevron	1,856	1,080				35		47	2	34	625	6.5	N	Australia	Batam	Subsea	Gr B bends
Apr-10	Jul-11	CT81	CDU, VDU, CFC, LPG Treating & ATF Treating Units - Phase III Refinery Project	Jacobs	Mangalore Refinery and Petrochemical	965	66							10	48	316L	3	Y	India	Batam	Refinery	Gr B and Inox 304L Bends
Oct-09	Sep-10	CT67	CDU, VDU, CFC, LPG Treating & ATF Treating Units - Phase III Refinery Project	Jacobs	Mangalore Refinery and Petrochemical	128	331							10	48	316L	3	Y	India	Batam	Refinery	Duplex Bends
Aug-09	Aug-10	CT62	Reshadat Renovation	SADRA	IOOC	244	227							1	14	825	3	N	Iran	Batam	Offshore Facility	
Apr-09	Oct-09	CT52	P55 Development	Atlanticosul/Protubo	Petrobras	955	52				78			8	8	625	3.3	Y	Brazil	Batam	FPSO	
Nov-08	Jan-09	CT46		J.J Advance	J.J Advance	5	14							2	20	316L	3	N	Thailand	Batam	-	
Sep-07	Oct-07	CT23		J.J Advance	J.J Advance	4	3							6	20	316L	3	N	Thailand	Batam	-	
Apr-07	May-07	CT18		UMW Coating Technologies	UMW Coating Technologies	2	7							2	6	316L	3.2	Y	-	Batam	-	
Jan-07	Jan-07	CT14		PFP	PFP	12	8							10	10	625	3	N	-	Batam	-	