



PROJECT REFERENCE LIST - SPOOL FABRICATION

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)					
Apr-19		CTB161	Mero I - GN	Aker Solutions	Petrobras				16					3	8	625	N/A	Y	Brazil	Brazil	Subsea		
Jan-19		CT570	Qatif IPC	Sinopec Engineering	Saudi Aramco				1					12	12	625	3	N	Saudi Arabia	Batam			
Dec-18		CT558	3 Gas PDM'S Project	GSW	Saudi Aramco				37					8	8	625	3	N	Saudi Arabia	Batam	Offshore Facility		
Dec-18		CT559	3 Gas PDM'S Project	Larson & Tubro	Saudi Aramco				249					6	16	625	3	Y	Saudi Arabia	Batam	Offshore Facility		
Nov-18		CT560	Unknown	Bel Valves	Saudi Aramco				1					6	6	625	3	Y	Saudi Arabia	Batam	Offshore Facility		
May-18	Nov-18	CT532	Idoho BP-QIT CRA Pipeline Replacement Project	Acteon	Exxon Mobil				2					24	24	625	4	N	Nigeria	Batam	Offshore Facility		
May-18	Nov-18	CT534	Stellite Spool Fabrication	Hongkong SKT	Hongkong SKT				2					14	14	Stellite	5	Y	China	Batam	Onshore Facility		
Mar-18	May-19	CTB129	Global 2011	Aker Solutions	Petrobras				2					7.5	7.5	625	3	Y	Brazil	Brazil	Subsea		
Feb-18		CT510	KGD6 R Cluster Field Project	OneSubsea	Reliance				6					3.5	3.5	625	3	Y	USA	Batam	Subsea		
Feb-18		CTB128	MUX Project	OneSubsea	Petrobras		150		54		84			3	7.5	625	3	N	Brazil	Brazil	Subsea		
Dec-17	Nov-18	CT494	Wellhead Skids Project	Gulf Steel Work	Saudi Aramco				148					6	6	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Dec-17	Dec-18	CTB119	BlueBox	OneSubsea	OneSubsea		4		2		5			3	8	625	3	Y	Brazil	Brazil	Subsea		
Dec-17	Jan-19	CTB117	Burulus	OneSubsea	Burulus		10		10		20			3	3	625	3	N	Egypt	Brazil	Subsea		
Nov-17		CT488	Unknown	Saudi Aramco	Saudi Aramco				4					4	8	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Nov-17		CT489	Blok H Gooseneck Spools	Aker Solutions	Murphy Oil				10		10		10	12	12	625	3	Y	Malaysia	Batam	Subsea		
Oct-17	Jun-18	CT482	HRDH Kuff RH SK9 Project	Saudi Aramco	Saudi Aramco				1					16	16	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Oct-17	Jul-18	CT483	Angore EHL 101 Project	Wood Group PSN	Exxon Mobil				31					12	16	N/A	N/A	Y	PNG	Batam	Onshore Facility		
Oct-17	Jun-18	CT486	Unknown	Saudi Aramco	Saudi Aramco				1					12	12	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Oct-17		CT487	Gas Gathering Manifolds and Flowlines K9 Project	Saudi Aramco	Saudi Aramco				47					16	20	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Sep-17	Aug-18	CT474	Hasbah Offshore Gas Facilities Increment II	Larson & Tubro	Saudi Aramco				923					2	36	625	3	N	Saudi Arabia	Batam	Offshore Facility		
Aug-17		CT473	Mad Dog Xmas Trees	Schlumberger / OSS	BP				7					3	3	625	3	N	USA	Batam	Subsea		
Aug-17		CT476	Maintain Potential Project	Saudi Aramco	Saudi Aramco				138					6	6	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Jul-17	Aug-18	CT465	8025 Wellhead skids project	Gulf Steel Work	Saudi Aramco				164					6	6	625	3	N	Saudi Arabia	Batam	Onshore Facility	Pressure Vessel Components	
May-17	Mar-18	CT443	Angore Surface Facilities & Pipelines Project	Wood Group PSN	Exxon Mobil				6					2	30	316L	3	N	PNG	Batam	Onshore Facility		
Mar-17	Jun-18	CT428	Tinat Gas Gathering Manifold Project	Saudi Aramco	Saudi Aramco				8					1	20	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Mar-17	Jan-19	CT432	WAQR & Wudayhi Gas Gathering Manifold	Saudi Aramco	Saudi Aramco				31					6	24	625	3	N	Saudi Arabia	Batam	Offshore Facility		
Mar-17	Jan-19	CT433	South Haradh Gas Gathering Manifold	Saudi Aramco	Saudi Aramco				51					12	30	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Feb-17	Mar-17	CTB086	FPSO P55	Petrobras	Petrobras				1		2			8	8	N/A	N/A	Y	Brazil	Brazil	FPSO		
Jan-17	Nov-18	CT411	Khuff Gas Project	Saudi Aramco	Saudi Aramco				216					6	16	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Jan-17	Oct-17	CT413	Haradh Gas Gathering Manifold	Saudi Aramco	Saudi Aramco				26					6	6	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Jan-17	May-18	CT414	BV Khurais Area Facilities, Expansion	Saipem	Saudi Aramco				1					36	36	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Oct-16	Aug-17	CT391	GGM Enhancement Project	Saudi Aramco	Saudi Aramco				16					6	8	625	3	N	Saudi Arabia	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)					
Oct-16	Sep-17	CT394	HRML Project	Saudi Aramco	Saudi Aramco				25					2	10	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Oct-16	Sep-17	CT395	SHDN UNY2 Project	Saudi Aramco	Saudi Aramco				47					4	8	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Oct-16	Sep-17	CT396	Maintain Potential Project	Saudi Aramco	Saudi Aramco				17					4	16	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Oct-16	Sep-17	CT397	Maintain Potential Project	Saudi Aramco	Saudi Aramco				111					8	16	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Sep-16	Aug-17	CT385	KRSN Gas Increment Project	Saudi Aramco	Saudi Aramco				91					6	16	625	3	N	Saudi Arabia	Batam	Onshore Facility	Sea Water Filter	
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	Jul-16	CT367	Belanak FPSO Sea Tube	PT. Sarku Utama	Conoco Phillips				1					36	36	625	3	N	Indonesia	Batam	FPSO		
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	
Jun-16	Apr-17	CT363	Aegean Refinery Project	TSGI	Star Rafineri A.S (STAR)				6					8	8	Stellite	6.5	Y	Turkey	Batam	Refinery		
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	
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	Oct-16	CT356		Habu Technology	Saudi Aramco				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	
Feb-16	Apr-16	CT349	PRP4 Project	Swiber	ONGC				12					1	18	625	3	N	India	Batam	Offshore Facility		
Jan-16	Jun-16	CT324	Tangguh ORF Modification Project	BP Berau	BP Berau				529				1	4	26	625	3	3	Indonesia	Batam	Pressure Vessels		
Dec-15	Mar-16	CT332	TUPI BV Project	BJC Heavy Industries	Petrobras				83					6	14	625	3	Y	Brazil	Batam	FPSO		
Nov-15	Apr-16	CT336	Catcher FPSO	IHI Corporation	Premier Oil	32	41		11					2	18	625	3	N	UK	Batam	FPSO		
Jul-15	Mar-16	CT318	Catcher FPSO	IHI Corporation	Premier Oil				11					12	20	625	3	N	UK	Batam	FPSO		
Jul-15	Jan-16	CT316	Jangkrik Complex Project	Technip	Eni				44					8	14	625	4.2	Y	Indonesia	Batam	Subsea	Recertification & Testing	
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		
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		
May-14	Mar-15	CT271	Harweel Project	OOISS	PDO (Shell Oman)		26		16					6	24	825	3	Y	Oman	Batam	Onshore Facility		
Apr-14	Aug-14	CT8021	FPSO - P66	Keppel Fels	Petrobras				44					8	20	625	3	Y	Brazil	Brazil	FPSO		
Mar-14	Feb-15	CT8029	FPSO - P67	Integra Offshore	Petrobras				77					4	20	625	3	N	Brazil	Brazil	FPSO		
Oct-13	Apr-14	CT254		EXPRO	Coastal Energy				4					6	8	625	3	Y	Thailand	Batam	Offshore Facility		
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	
Jan-13	Oct-13	CT215	Coal - Oil Refining Trial Project Hydrocracking Section	Hongkong SKT	Yan Chang Petroleum				19					1	14	Stellite	5	Y	China	Batam	Refinery		
Oct-12	Apr-14	CT204	KHUFF Gas Project	Saudi Aramco	Saudi Aramco	612	867		94					2	8	625	3	N	Saudi Arabia	Batam	Onshore		
Jun-12	Apr-13	CT179	Shah Gas Project	Samsung Engineering	ADMA OPCO				249					8	16	825	3	Y	UAE	Batam	Onshore Facility		
May-12	Apr-13	CT145	Haradh	Saudi Aramco	Saudi Aramco				206					2	16	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Apr-12	Jan-13	CT146	Haradh	Saudi Aramco	Saudi Aramco				104					2	16	625	3	N	Saudi Arabia	Batam	Onshore Facility		
Apr-12	Sep-12	CT168	Scot & Bugis EPCM Project	Chiyoda Corporation	Shell				41				4	6	16	825	3	N	Singapore	Batam	Refinery	Pup Pieces	



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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)					
Dec-11	Nov-13	CT154	Ruby Field Development	PT Meindo	Pertamina				61					2	18	625	3	Y	Indonesia	Batam	Offshore Facility		
Nov-11	Jan-12	CT136	UZ750 Island Surface Facilities (EPC2) Project	NPCC	Zakum Development Company (ZADCO)				3					2	42	625	3	Y	UAE	Batam	Offshore Facility	ASTM A335 P22	
May-11	Mar-12	CT108	KHUFF Gas Project	Saudi Aramco	Saudi Aramco				347					6	16	625	3	Y	Saudi Arabia	Batam	Onshore Facility	Gr B bends	
Dec-10	Dec-11	CT102	Package 4 (Coker Unit) For Jubail Export Refinery	Chiyoda Corporation	Saudi Aramco				18					8	8	Stellite	3	Y	Saudi Arabia	Batam	Refinery	Inox 304L Bends	
Oct-10	Jul-11	CT88	Gorgon Field Development	GE Oil & Gas	Chevron				2					5 1/8	5 1/8	309L	3	N	Australia	Batam	Subsea		
Sep-10	Dec-10	CT90	Gorgon Field Development	GE Oil & Gas	Chevron				2					5 1/8	5 1/8	309L	3	N	Australia	Batam	Subsea	Gr B bends	
Sep-10	Dec-10	CT89	Gorgon Field Development	GE Oil & Gas	Chevron				2					2 1/6	2 1/6	309L	3	N	Australia	Batam	Subsea		
Sep-10	Dec-10	CT91	Gorgon Field Development	GE Oil & Gas	Chevron				1					2 1/6	2 1/6	309L	3	N	Australia	Batam	Subsea		
Jun-10	Oct-10	CT82	Clean Fuel Project	SK Engineering & Construction	SK Engineering & Construction				2					12	16	625 & 825	3	N	Singapore	Batam	Refinery		
May-10	Sep-10	CT84	Gorgon Field Development	GE Oil & Gas	Chevron				3					5 1/8	5 1/8	625	3	Y	Australia	Batam	Subsea		
Feb-08	Oct-07	CT30		Nirmal Industires	Nirmal Industires				6					12	12	625	5	N	India	Batam	-		