

LNG

Technical Services

Commercial Advisory Services

Offshore Wind Power



Marine Service GmbH

Reference List 1958 - 2016



Marine Service GmbH
Mattentwiete 1
D-20457 Hamburg


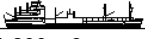




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LPG/NH3 CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 25.100 m3	KOCKUMS A. B. SWEDEN 486 1964	MALMROS A. B. SWEDEN PAUL ENDACOTT	DESIGN; PLAN APPROVAL; LOCAL BUILDING SUPER- VISION	103
 11.200 m3	MOSS VAERFT & DOCK A.S. NORWAY 150 1965	P. MEYER NORWAY HAVGAS	DESIGN ASSISTANCE;	139
 14.800 m3	C.N.I.M. LA SEYNE FRANCE 1374 1967	NORTHERN SHIPPING AEOLOS I	DESIGN; PLAN APPROVAL; LOCAL BUILDING SUPER- VISION	170
 14.800 m3	C.N.I.M. LA SEYNE FRANCE 1375 1967	NORTHERN SHIPPING AEOLOS II	DESIGN; PLAN APPROVAL; LOCAL BUILDING SUPER- VISION	170
 14.800 m3	KIELER HOWALDTSWERKE GERMANY 1191 1968	BROSTRØM A. B. SWEDEN ROLAND	DESIGN ASSISTANCE; PLAN APPROVAL	144
 29.500 m3	A.G. WESER GERMANY 1388 1968	HOLLAND BULK TRANSP. NETHERLANDS ANTILLA CAPE	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	244
 15.500 m3	SWAN HUNTER UNITED KINGDOM 766 1968	BIBBY TRANSPORT LTD. U.K. WILTSHIRE	DESIGN ASSISTANCE	
 11.000 m3	EUSKALDUNA SPAIN 203 1968	A. L. BURBANK USA ALEXANDER HAMILTON	DESIGN ASSISTANCE	167
 29.800 m3	CAMMELL LAIRD & CO UNITED KINGDOM 1341 1972	P & O STEAM NAV. CO. U.K. GAZANA	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	245










LPG/NH3 CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 29.800 m3	CAMELL LAIRD & CO UNITED KINGDOM 1342 1973	P & O STEAM NAV. CO. U.K. GAMBADA	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	245
 53.400 m3	C.N.I.M. LA SEYNE FRANCE 1396 1973	HOLLAND BULK TRANSP. NETHERLANDS ANTILLA BAY	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	276
 53.400 m3	C.N.I.M. LA SEYNE FRANCE 1397 1973	MULTINATIONAL U.K. PROVIDENCE MULTINA	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	281
 53.400 m3	C.N.I.M. LA SEYNE FRANCE 1397 1974	MALMROS A.B. SWEDEN MALMROS MULTINA	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	281
 6.000 m3	KRÖGER WERFT GERMANY 1392 1977	CHEMIKALIEN SEETRANSP. GERMANY BAVARIA MULTINA ALSO CARRYING ETHYLENE	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	394
 73.000 m3	HITACHI JAPAN 4488 1977	OCEAN TANKER INC. CO. USA	GENERAL CONSULTANCY (VESSEL HAS BEEN CANCELLED)	357
 53.000 m3	THYSSEN NORDSEEWERKE GERMANY 459 1977	P & O STEAM NAV. CO. U.K. GARINDA	GENERAL CONSULTANCY	339
 53.400 m3	C.N.I.M. LA SEYNE FRANCE 1416 1978	PEMEX MEXICO REYNOSA	LOCAL BUILDING SUPERVISION	346
 53.400 m3	C.N.I.M. LA SEYNE FRANCE 1417 1979	PEMEX MEXICO MONTERREY	LOCAL BUILDING SUPERVISION	346






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SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 53.000 m3	THYSSEN NORDSEEWERKE GERMANY 460 1978	P & O STEAM NAV. CO. U.K. GALPARA	GENERAL CONSULTANCY	339
 53.000 m3	THYSSEN NORDSEEWERKE GERMANY 461 1978	P & O STEAM NAV. CO. U.K. GALCONDA	GENERAL CONSULTANCY	339
 3.200 m3	KRÖGER WERFT GERMANY 1394 1978	MARINE SERVICE G.M.B.H. GERMANY CHEMTRANS CAPELLA	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	380
 5.660 m3	JOS.L. MEYER GERMANY 586 1978	C.A.L.T.R.A.M. ALGERIA BENGHAZI	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	420
 53.000 m3	THYSSEN NORDSEEWERKE GERMANY 462 1979	P & O STEAM NAV. CO. U.K. GARALA	GENERAL CONSULTANCY	339
 57.000 m3	BOELWERF N. V. BELGIUM 1500 1980	BOCIMAR BELGIUM PETROGAS II	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	388
 57.000 m3	BOELWERF N. V. BELGIUM 1501 1980	BOCIMAR BELGIUM PETROGAS III	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	388
 7.400 m3	BOELWERF N. V. BELGIUM 1505 1980	EXMAR BELGIUM CORAL TEMSE ALSO CARRYING ETHYLENE	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	455
 57.000 m3	BOELWERF N. V. BELGIUM 1509 1984	EXMAR BELGIUM EUPEN	LOCAL BUILDING SUPERVISION	537






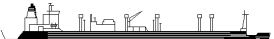



LPG/NH3 CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 25.000 m3	BOELWERF N. V. BELGIUM 1510 1984	EXMAR BELGIUM TIELRODE	DESIGN ASSISTANCE; LOCAL BUILDING SUPERVISION	550
 14.000 m3	WAERTSILA FINLAND 1263 1983	MARAVEN VENEZUELA YAVIRE	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	506
 14.000 m3	WAERTSILA FINLAND 1264 1983	MARAVEN VENEZUELA PARAMACAY	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	506
 25.100 m3	BOELWERF BELGIUM 1519 1985	EXMAR BELGIUM GENT	DESIGN ASSISTANCE; LOCAL BUILDING SUPERVISION	612
 1.250 m3	J.J. SIETAS GERMANY 944 1985	SCOTT TRINIDAD SCOTT ENTERPRISE	TENDERING; DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	625
 8.200 m3	H. BRAND SCHIFFSWERFT GERMANY 231 1990	KG MARINE SERVICE GERMANY NORGAS CHRISTIAN ALSO CARRYING ETHYLENE	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	742
 8.200 m3	H. BRAND SCHIFFSWERFT GERMANY 234 1990	I. M. SKAUGEN A/S NORWAY NORGAS PATRICIA ALSO CARRYING ETHYLENE	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	755
 75.000 m3	HYUNDAI H. I. KOREA 750 1992	MELLITUS SHIPPING INC. MONROVIA/LIBERIA BALTIC FLAME ALSO CARRYING NAPHTHA	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	792
 18.000 m3	HITACHI ZOSEN JAPAN 4903 1997	NORSK HYDRO NORWAY AGRI VIKING	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	880



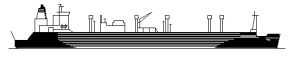

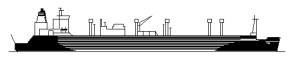





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SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 18.000 m3	HITACHI ZOSEN JAPAN 4904 1997	NORSK HYDRO NORWAY EURO VIKING	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	880
 22.000 m3	STX KOREA 1112 +(1113) 2004	QATAR SHIPPING CO. QATAR 1+(1) LPG/VCM/AMMONIA GAS CARRIER	TENDERING, EVALUATION, CONTRACT NEGOTIATION	947
 43.000 m3	 2002	 LPG / CO2 / PRODUCT CARRIER	BASIC DESIGN ENGINEERING SUPPORT	955
 82.000 m3	HYUNDAI H. I. KOREA 1766 + 1767 2006	KOTC (DNV) KUWAIT	PLAN APPROVAL, CALCULATIONS & REVIEW OF DESIGN FOR CARGO EQUIPMENT/SYSTEM	1024
 3500 TDW	LINDENAU WERFT GERMANY 2009	SEYCHELLES PETROLEUM SEYCHELLES SEYCHELLES PARADISE (GREEN COASTAL TANKER)	SUPPLY OF MATERIAL, EQUIPMENT AND MONITORING SYSTEM FOR LPG SYSTEM	1053










LNG CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 40.100 m3	C.N.I.M., LA SEYNE FRANCE 1388 1971	C.N.A.N. ALGERIA HASSI R'MEL	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	263
 35.500 m3	C.N.I.M. LA SEYNE FRANCE 1401 1975	MULTINATIONAL LIBERIA KENAI MULTINA ALSO CARRYING ETHYLENE	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	289
 35.500 m3	C.N.I.M. LA SEYNE FRANCE 1402 1975	C.N.I.M. FRANCE MONTANA ALSO CARRYING ETHYLENE	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	289
 125.200 m3	C.N.C., LA CIOTAT FRANCE 302 1976	C.N.A.N. ALGERIA MOSTEFA BEN BOULAID	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	338/3
 122.000 m3	CHANT. DE L'ATLANTIQUE FRANCE A26 1976	ANTILL. VRACHTV. N. V. NETHERLAND ANTILL. GASTOR ALSO CARRYING LPG	PLAN APPROVAL; GENERAL CONSULTANCY	306
 122.000 m3	CHANT. DE L'ATLANTIQUE FRANCE B26 1977	GASTRANSCO LTD. LIBERIA NESTOR ALSO CARRYING LPG	PLAN APPROVAL; GENERAL CONSULTANCY	306
 125.000 m3	GENERAL DYNAMICS USA 41 1977	WILMINGTON TRUST USA LNG AQUARIUS	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	308
 125.000 m3	GENERAL DYNAMICS USA 42 1977	WILMINGTON TRUST USA LNG ARIES	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	308
 129.500 m3	C.N.I.M., LA SEYNE FRANCE 1414 1977	C.N.A.N. ALGERIA LARBI BEN M'HIDI	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	338/1




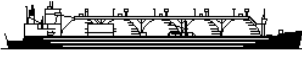
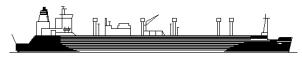
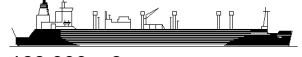
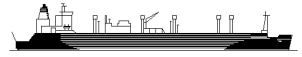
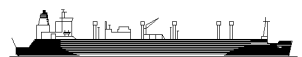
LNG CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 125.000 m3	GENERAL DYNAMICS USA 46 1978	WILMINGTON TRUST USA LNG CAPRICORN	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	308
 129.500 m3	C.N.I.M., LA SEYNE FRANCE 1415 1979	C.N.A.N. ALGERIA BACHIR CHIHANI	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	338/1
 125.000 m3	CHANT. DE L'ATLANTIQUE FRANCE G26 1980	C.N.A.N. ALGERIA MOURAD DIDOUCHE ALSO CARRYING LPG	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	338/2
 133.000 m3	KOCKUMS A. B. SWEDEN 564 1980	ZENIT SHIPPING A. B. SWEDEN LNG 564	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; LAY-UP SERVICE	397
 125.000 m3	CHANT. DE L'ATLANTIQUE FRANCE L26 1981	C.N.A.N. ALGERIA RAMDANE ABANE ALSO CARRYING LPG	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	338/2
 133.000 m3	KOCKUMS A. B. SWEDEN 559 1987	ZENIT SHIPPING A. B. SWEDEN LNG 559	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; LAY-UP SERVICE	397
 127.500 m3	MITSUBISHI HEAVY IND. JAPAN 1996 1989	AUSTRAL. LNG SHIP OPER. CO. PTY. LTD, AUSTRALIA NORTHWEST SANDERLING	DESIGN ASSISTANCE; GENERAL CONSULTANCY	489
 127.500 m3	MITSUBI ENG. & SHIPB. JAPAN 1351 1989	MITSUBI OSK LINE JAPAN NORTHWEST SWALLOW	DESIGN ASSISTANCE; GENERAL CONSULTANCY	489
 127.500 m3	MITSUBISHI HEAVY IND. JAPAN 2000 1989	NYK LINE JAPAN NORTHWEST SWIFT	DESIGN ASSISTANCE; GENERAL CONSULTANCY	489
 127.500 m3	MITSUBI ENG. & SHIPB. JAPAN 1352 1990	INT. GAS TRANSPORTATION BERMUDA NORTHWEST SNIPE	DESIGN ASSISTANCE; GENERAL CONSULTANCY	489

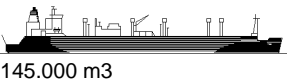
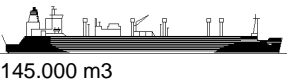
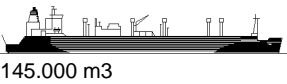
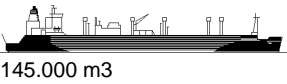
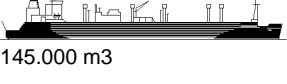
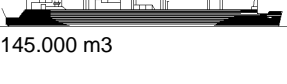
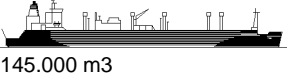
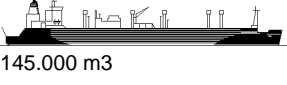
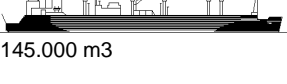
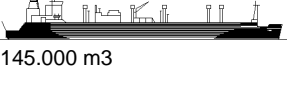
LNG CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 137.000 m3	MITSUBISHI HEAVY IND. JAPAN 2011 1990	COMETCO INC. INDONESIA EKAPUTRA	DESIGN ASSISTANCE; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	652
 127.500 m3	KAWASAKI H. I. JAPAN 1410 1991	INT. GAS TRANSPORTATION BERMUDA NORTHWEST SHEARWATER	DESIGN ASSISTANCE; GENERAL CONSULTANCY	489
 127.500 m3	MITSUI ENG. & SHIPB. JAPAN 1370 1992	INT. GAS TRANSPORTATION BERMUDA NORTHWEST SANDPIPER	DESIGN ASSISTANCE; GENERAL CONSULTANCY	489
 127.500 m3	MITSUBISHI HEAVY IND. JAPAN 2042 1993	INT. GAS TRANSPORTATION BERMUDA NORTHWEST SEAEAGLE	DESIGN ASSISTANCE; GENERAL CONSULTANCY	489
 135.000 m3	MITSUI ENG. & SHIPB. JAPAN 1390 1994	ADNOC ABU DHABI AL KHAZNAH	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	789
 135.000 m3	KAWASAKI H. I. JAPAN 1391 1994	ADNOC ABU DHABI SHAHAMAH	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	789
 135.000 m3	MITSUI ENG. & SHIPB. JAPAN 1392 1995	ADNOC ABU DHABI GHASHA	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	789
 135.000 m3	MITSUBISHI HEAVY IND. JAPAN 1393 1995	ADNOC ABU DHABI ISH	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	789
 135.000 m3	KVAERNER MASA YARDS TURKU, FINLAND 1330 1996	ADNOC ABU DHABI MUBARAZ	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	856

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 135.000 m3	KVAERNER MASA YARDS TURKU, FINLAND 1331 1996	ADNOC ABU DHABI MRAWEH	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	856
 135.000 m3	KVAERNER MASA YARDS TURKU, FINLAND 1332 1997	ADNOC ABU DHABI AL HAMRA	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	856
 135.000 m3	KVAERNER MASA YARDS TURKU, FINLAND 1333 1997	ADNOC ABU DHABI UMM AL ASHTAN	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	856
 137.000 m3	mitsubishi heavy ind. JAPAN 2148 2000	FARAWAY MARITIME SHIPPING CO., LIBERIA GOLAR MAZO	TENDERING PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	905
 138.000 m3	DAEWOO SME CO. LTD. KOREA 2210 2004	INDIAN/ JAPANESE SHIPPING CO. CONSORTIUM (CHARTERER: PETRONET LNG LIMITED; INDIA) DISHA	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	945
 138.000 m3	DAEWOO SME CO. LTD. KOREA 2211 2004	INDIAN/ JAPANESE SHIPPING CO. CONSORTIUM (CHARTERER: PETRONET LNG LIMITED; INDIA) INDHAN	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	945
 138.000 m3	SAMSUNG HEAVY IND. KOREA 1406 2004	JAPANESE/ EUROPEAN CONSORTIUM JAPAN / BELGIUM FUWAI RIT (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958
 138.000 m3	SAMSUNG HEAVY IND. KOREA 1425 2004	A. P. MØLLER DENMARK MAERSK RAS LAFFAN (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958

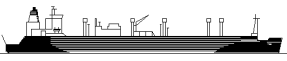
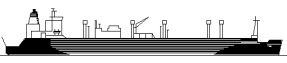
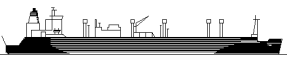
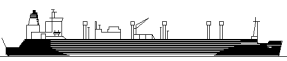
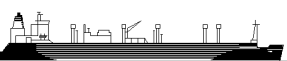


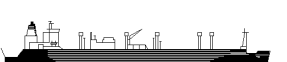

LNG CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 145.000 m3	SAMSUNG HEAVY IND. KOREA 1440 2005	JAPANESE/ EUROPEAN CONSORTIUM JAPAN / BELGIUM LUSAIL (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958
 145.000 m3	SAMSUNG HEAVY IND. KOREA 1441 2005	JAPANESE/ EUROPEAN CONSORTIUM JAPAN / BELGIUM AL THAKIRA (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958
 145.000 m3	SAMSUNG HEAVY IND. KOREA 1442 2005	JAPANESE/ EUROPEAN CONSORTIUM JAPAN / BELGIUM AL DEEBEL (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958
 145.000 m3	DAEWOO SME CO. LTD. KOREA 2227 2005	MARAN GAS MARITIME INC. GREECE ASKLEPIOS (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958 B
 145.000 m3	DAEWOO SME CO. LTD. KOREA 2228 2005	MARAN GAS MARITIME INC. GREECE UMM BAB (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958 B
 145.000 m3	SAMSUNG HEAVY IND. KOREA 1502 2005	MALAYSIA INTERNATIONAL SHIPPING CORPORATION MALAYSIA	PLAN APPROVAL; GENERAL CONSULTANCY	976
 145.000 m3	SAMSUNG HEAVY IND. KOREA 1503 2006	MALAYSIA INTERNATIONAL SHIPPING CORPORATION MALAYSIA	PLAN APPROVAL; GENERAL CONSULTANCY	976
 145.000 m3	SAMSUNG HEAVY IND. KOREA 1562 2006	A. P. MØLLER DENMARK MAERSK QATAR (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958
 145.000 m3	SAMSUNG HEAVY IND. KOREA 1594 2007	JAPANESE CONSORTIUM JAPAN (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958
 145.000 m3	SAMSUNG HEAVY IND. KOREA 1589 2006	MALAYSIA INTERNATIONAL SHIPPING CORPORATION MALAYSIA	PLAN APPROVAL; GENERAL CONSULTANCY	976

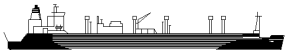
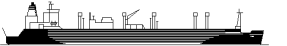
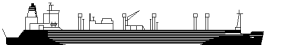
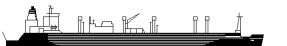

LNG CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 145.000 m3	SAMSUNG HEAVY IND. KOREA 1590 2007	MALAYSIA INTERNATIONAL SHIPPING CORPORATION MALAYSIA	PLAN APPROVAL; GENERAL CONSULTANCY	976
 145.000 m3	SAMSUNG HEAVY IND. KOREA 1591 2007	MALAYSIA INTERNATIONAL SHIPPING CORPORATION MALAYSIA	PLAN APPROVAL; GENERAL CONSULTANCY	976
 145.000 m3	DAEWOO SME CO. LTD. KOREA 2235 2007	MARAN GAS MARITIME INC. GREECE (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958 B
 145.000 m3	DAEWOO SME CO. LTD. KOREA 2243 2007	MARAN GAS MARITIME INC. GREECE (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958 B
 151.700 m3	DAEWOO SME CO. LTD. KOREA 2238 2007	TEEKAY SHIPPING CORP. CANADA (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958 B
 151.700 m3	DAEWOO SME CO. LTD. KOREA 2239 2007	TEEKAY SHIPPING CORP. CANADA (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958 B
 150.000 m3	HYUNDAI HEAVY IND. CO. LTD, KOREA 1719 2007	DYNACOM TANKERS MANAGEMENT LTD GREECE	PLAN APPROVAL; GENERAL CONSULTANCY; CONSTRUCTION SUPERVISION	992/1019
 150.000 m3	HYUNDAI HEAVY IND. CO. LTD, KOREA 1719 2007	DYNACOM TANKERS MANAGEMENT LTD GREECE	PLAN APPROVAL; GENERAL CONSULTANCY; CONSTRUCTION SUPERVISION	992/1019
 150.000 m3	HYUNDAI HEAVY IND. CO. LTD, KOREA 1734 2008	DYNACOM TANKERS MANAGEMENT LTD GREECE	PLAN APPROVAL; GENERAL CONSULTANCY; CONSTRUCTION SUPERVISION	992/1019
 151.700 m3	DAEWOO SME CO. LTD. KOREA 2240 2008	TEEKAY SHIPPING CORP. CANADA (CHARTERER: RASGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	958 B
 146.000 m3	DAEWOO SME CO. LTD. KOREA 2233 2006	BLUESKY LNG CORP. TAIWAN	PLAN APPROVAL; CONSTRUCTION SUPERVISION	990

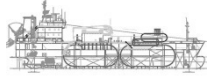
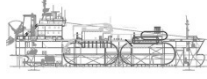
LNG CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 145.000 m3	DAEWOO SME CO. LTD. KOREA 2227/28/35/43 2005/2007	MARAN GAS MARITIME INC. GREECE	CONSTRUCTION SUPERVISION	1000
 150.000 m3	HYUNDAI HEAVY IND. CO. LTD, KOREA 1754 2006	Tsakos Group INC. GREECE	CONSTRUCTION SUPERVISION	1011
 160.000 m3	HUDONG ZHONGHUA CHINA 2007/8	DESIGN DEPARTMENT SHIPYARD	TECHN. ASSISTANCE, DESIGN FOR DFDE-LNGC	1004
 155.000 m3	SAMSUNG HEAVY IND. KOREA 1686 2009	INDIA LNG TRANSPORT COMPANY (NO.3) S.A. (CHARTERER: PETRONET LNG LTD; INDIA)	CHARTERER'S OBSERVER FOR PLAN APPROVAL; CONSTRUCTION SUPERVISION	1014
 210.000 m3	N.N. N.N. XXXX 2009	CHARTERER: E.ON RUHRGAS, GERMANY	DESIGN ASSISTANCE; TENDERING; GENERAL CONSULTANCY	1010
 200.000 m3	HYUNDAI HEAVY IND. CO. LTD, KOREA 1875 2007	JAPANESE CONSORTIUM JAPAN (CHARTERER: QATARGAS CO. LTD., QATAR)	CHARTERER'S OBSERVER FOR FACTORY ACCEPTANCE TESTS	984
 75.000 – 153.000 m3	AKER YARDS SA FRANCE 2006 / 7	GAZ DE FRANCE NYK	TECHNICAL AND ORGANISATIONAL ASSISTANCE FOR CHANTIERS DE ATLANTIQUE	1025
 125.000 m3	BLOHM & VOSS GERMANY 2008	THYSSEN KRUPP MARINE SYSTEMS, BLOHM & VOSS REPAIR GERMANY MOURAD DIDOUCHE	YARD ASSISTANCE FOR LNG REPAIR AND OVERHAUL	1038
	JURONG SHIPYARD SINGAPORE 2008	GAZTRANSPORT & TECHNIGAZ (GTT), FRANCE	TECHNICAL ASSISTANCE FOR A LNG CARRIER REPAIR/UPGRADE	1048
 138.800 m3	SAIPEM ITALY/ DUBAI DRYDOCKS, UAE 2008/(2012)	OFFSHORE LNG TOSCANY, ITALY	SUPPORT FOR DESIGN CONTROL & SUPERVISION OF LNGC CONVERTED TO FSRU	1052

LNG CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
155K AND 215K LNGCs		CKBN COMPANY RUSSIA	EXPERT ANAL.; OF CONCEPT: DESIGNS . TO MAIN ROPULSION PLANTS	1067
 170.000 m3	HUDONG ZHONGHUA CHINA	DESIGN DEPARTMENT SHIPYARD	TECHN. ASSISTANCE, DESIGN FOR A LNG-C WITH MEGI PROPULSION System	1076
 Abt. 160.000 m3	KOREAN SHIPYARDS 2011/12	EUROPEAN CUSTOMER	TECHN. ASSISTANCE, PLAN APPROVAL, GENERAL CONSULTANCY	1083
 159.800 m3	DAEWOO SME CO. LTD. KOREA H2288 2012/13	MARAN GAS MARITIME INC. GREECE 6 CARRIERS	PLAN APPROVAL	1089
 159.800 m3	DAEWOO SME CO. LTD. KOREA H2297 2012/13	TMS TANKERS LTD. GREECE 4 CARRIERS	PLAN APPROVAL	1096
 174,000 m³	HYUNDAI HEAVY INDUSTRIES KOREA HHI-2612 2015/16	TSAKOS ENERGY NAVIGATION LTD. GREECE	ATTENDANCE OF GAS TRIALS	1161





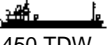
LNG AS MARINE FUEL

SIZE AND TYPE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 4.000 TDW LPG/LEG CARRIER	AVIC DINGHENG CHINA XXXX 2012/2014	ANTHONY VEDER NETHERLANDS	DESIGN ASSISTANCE FOR LNG FUEL GAS SYSTEM	1103
 4.000 TDW LPG/LEG CARRIER	AVIC DINGHENG CHINA XXXX 2012/2014	ANTHONY VEDER NETHERLANDS	DESIGN ASSISTANCE FOR LNG FUEL GAS SYSTEM	1103
CRUISE LINER	MITSUBISHI HI JAPAN XXXX 2012/2013	CONFIDENTIAL GERMANY	CONCEPTIONAL DETAILED DESIGN & SPECIFICATION FOR FUEL GAS SYSTEM	1104/1105
CRUISE LINER	MITSUBISHI HI JAPAN XXXX 2012/2013	CONFIDENTIAL GERMANY	CONCEPTIONAL DETAILED DESIGN & SPECIFICATION FOR FUEL GAS SYSTEM	1104/1105
50 M POWER BARGE	GERMANY 2014	GREENPLUG GERMANY	BASIC DESIGN AND (OPTIONAL) TENDERING PROCESS	1106
68,000 DWT GREAT LAKER BULK CARRRIER	TBD USA XXXX 2014/2016	CONFIDENTIAL USA	FEED STUDY FOR BUNKERING & FUEL GAS SYSTEM	1125
79 M LNG FERRY	FASSMER GERMANY XXXX 2014	CONFIDENTIAL GERMANY	VARIOUS CALCULATIONS REGARDING LNG PIPES	1126
6,554 t LNG TANKER	MACHINEFABRIEK BOLIER B.V.	CONFIDENTIAL	GVU HOUSING AND ENGINEERING; DESIGN OF DOUBLE- WALLED FUEL GAS PIPES	1127
79 M LNG FERRY	FASSMER ; GERMANY	CONFIDENTIAL	LNG PIPING CONSTRUCTION INCL MATERIAL AND INSTALLATION	1128
1,400 TEU MULTIPURPOSE CONTAINER VESSEL	CRYOSTAR, FRANCE	CONFIDENTIAL	CONCEPT DESIGN STUDY FOR FUEL GAS SUPPLY SYSTEM	1129







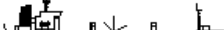
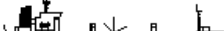
LNG AS MARINE FUEL

SIZE AND TYPE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
LNG GAS TANKER	PIA, GERMANY	CONFIDENTIAL	DESIGN FOR HP-FUEL SYSTEM (LNG / ETHANE)	1135
79M LNG FERRY	FASSMER; GERMANY	CONFIDENTIAL	DEVELOPMENT OF BUNKER PROCEDURES / MANUAL	1136
LNG MODULAR BUNKER BARGE	2015	DUBAI SUPPLY AUTHORITY (DUSUP)	CONCEPT PHASE	1139
WADDEN SEA FERRY	GERMANY 2015	CONFIDENTIAL	FUEL GAS DESIGN STUDY	1145
GASTANKER	GERMANY 2015	CONFIDENTIAL	LNG FUEL SYSTEM	1146
TEST FIELD	GERMANY 2015 / 2016	CONFIDENTIAL	LNG FUEL GAS TEST FIELD FOR PROPULSION SYSTEMS	1148
FSRU	USA 2015	CONFIDENTIAL	LNG REGAS CONVERSION	1150
CRUISE LINER	GERMANY 2016	CONFIDENTIAL	LNG FUEL SYSTEM	1152
LNG TANK	GERMANY 2016	CONFIDENTIAL	TANK CONNECTION FUEL GAS DESIGN	1153
CRUISE LINER	FINLAND 2016	CONFIDENTIAL	LNG FUEL SYSTEM	1155
CRUISE LINER	GERMANY 2016	CONFIDENTIAL	LNG FUEL SYSTEM	1156
CRUISE LINER	FINLAND 2016	CONFIDENTIAL	LNG FUEL SYSTEM	1157
CRUISE LINER	GERMANY 2016	CONFIDENTIAL	ASSISTANCE RE BUNKER SYSTEM	1158
CHEMICAL TANKER	SCHWEDEN 2016	CONFIDENTIAL	LNG FUEL GAS CONVERSION	1159
LNG TANKER	GERMANY 2016	CONFIDENTIAL	ATTENDANCE AT FMEA OF FUEL GAS SYSTEM	1162


CHEMICAL CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 19.100 TDW	RHEINSTAHL NORDSEEW. GERMANY 8/9002 1961	P.C. STEUBER USA ALCHEMIST T2 CONVERSION	DESIGN	91
 1.140 TDW	D.W. KREMER SOHN GERMANY 1106 1964	MARINE SERVICE GERMANY CHEMICOASTER ALL CARGO TANKS OF STAINLESS STEEL	DESIGN; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	115
 16.200 TDW	LINDMOLMENS VARV SWEDEN 1029 1953	BERTA DAN	GENERAL CONSULTANCY	171
 7.000 TDW	HITACHI ZOSEN JAPAN 3908 1960	HOUSTON MARU	GENERAL CONSULTANCY	181
 890 TDW	VALMET O/Y FINLAND 236 1966	O/Y FINNLINES LTD. FINLAND FINNLARKSTER ALL CARGO TANKS OF STAINLESS STEEL	GENERAL CONSULTANCY	230
 2.540 TDW	D.W. KREMER SOHN GERMANY 1139 1969	MARINE SERVICE GERMANY CHEMICAL SPRINTER ALL CARGO TANKS OF STAINLESS STEEL	DESIGN; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	294
 2.540 TDW	D.W. KREMER SOHN GERMANY 1142 1970	MARINE SERVICE GERMANY CHEMICAL DISTRIBUTOR ALL CARGO TANKS OF STAINLESS STEEL	DESIGN; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	266
 2.560 TDW	HEINRICH BRAND K.G. GERMANY 197 1975	CHEMIKALIEN SEETRANSP. GERMANY CHEMTRANS ARCTURUS	PLAN APPROVAL	349
 2.450 TDW	ERNST MENZER SOHN GERMANY 502 1975	NARRAGANSETT BAY SHIP. OCHRE POINT ALL CARGO TANKS OF STAINLESS STEEL	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	351

CHEMICAL CARRIERS


SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 2.610 TDW	HEINRICH BRAND K.G. GERMANY 198 1976	GEBR. BROERE B. V. NETHERLANDS ANNA BROERE	PLAN APPROVAL	349
 2.450 TDW	ERNST MENZER GERMANY 503 1976	AQUIDNECK ISLAND SHIP. ISLAND BRENTON POINT	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	351
 7.250 TDW	KROEGER WERFT GERMANY 1388 1976	CHEMIKALIEN SEETRANSP. GERMANY CHEMTRANS SIRIUS	PLAN APPROVAL	348
 2.900 TDW	KROEGER WERFT GERMANY 1502 1980	CHEMIKALIEN SEETRANSP. GERMANY CHEMTRANS ANTARES	DESIGN ASSISTANCE; PLAN APPROVAL	464
 4.500 TDW	BATSERVICE VERFT A/S NORWAY 660 1981	GEBR. BROERE B. V. ANSPORT; NETHERLANDS BROERE AQUAMARIN	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	479
 41.500 TDW	DAEWOO SHIPB.H. M. LTD. KOREA 2015 1985	A.C.C. SAUDI ARABIA AL FARABI	DESIGN; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY;	587
 24.000 TDW	CHANTIERS DUNKERQUE FRANCE 323 1986	NORMED FRANCE AL KORTOUBI PHOSPH. ACID CARRIER	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	624
 24.000 TDW	CHANTIERS DUNKERQUE FRANCE 324 1986	NORMED FRANCE BEN AICHA PHOSPH. ACID CARRIER	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	624
 2.500 TDW	A/S VAAGEN VAERFT NORWAY 51 1986	GEBR. BROERE B. V. NETHERLANDS DUTCH ENGINEER	LOCAL BUILDING SUPERVISION	632

CHEMICAL CARRIERS

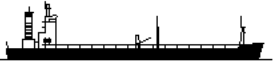








SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 2.500 TDW	A/S VAAGEN VAERFT NORWAY 52 1986	GEBR. BROERE B. V. NETHERLANDS DUTCH MARINER	LOCAL BUILDING SUPERVISION	632
 29.900 TDW	KSEC KOREA 2016 1989	MISC MALAYSIA BUNGA ANGGERIK ALSO CARRYING PALM OIL	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	704
 29.900 TDW	KSEC KOREA 2017 1989	MISC MALAYSIA CENDERAWASIH ALSO CARRYING PALM OIL	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	704
 29.900 TDW	KSEC KOREA 2018 1990	MISC MALAYSIA BUNGA MAWAR ALSO CARRYING PALM OIL	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	704
 29.900 TDW	KSEC KOREA 2019 1991	MISC MALAYSIA BUNGA TANJONG ALSO CARRYING PALM OIL	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	704
 16.000 TDW	SABAH SHIPY. SDN. BHD. MALAYSIA H151 1990	MISC MALAYSIA BUNGA SEMARAK ALSO CARRYING PALM OIL	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	731
 16.000 TDW	SABAH SHIPY. SDN. BHD. MALAYSIA H152 1991	MISC MALAYSIA BUNGA SIANTAN ALSO CARRYING PALM OIL	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	731
 21.000 TDW	AUGUSA; MEXICO AESA CADIZ; SPAIN 902 / T00016 1989	NAVIMIN MEXICO TEOATL MOLTEN SULPHUR CARRIER	DESIGN ASSISTANCE; PLAN APPROVAL; GENERAL CONSULTANCY	689
 8.850 TDW	SINGMARINE DOCKYARD SINGAPORE 193 1993	ADNATCO ABU DHABI JANANA MOLTEN SULPHUR/ PETROLEUM CARRIER	DESIGN ASS.; PLAN APPROVAL; LOCAL BUILDING SUPERVIS.; GENERAL CONSULTANCY	747

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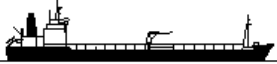


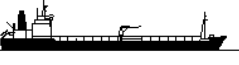




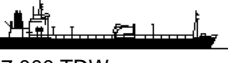
CHEMICAL CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 3.000 TDW	BATSERVICE VERFT A/S NORWAY 685 1991	ANDERS UTKILENS REDERI NORWAY FOSTRAUM SPECIALIZED FOR MDI	GENERAL CONSULTANCY	762

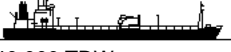
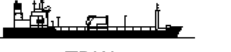
PRODUCT CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 56.000 TDW	KSEC KOREA SNA 5002 1983	ADNATCO ABU DHABI BAYNUNAH	TENDERING; DESIGN ASSISTANCE	529
 56.000 TDW	KSEC KOREA SNA 5003 1983	ADNATCO ABU DHABI AL DHIBYANIYYAH	TENDERING; DESIGN ASSISTANCE	529
 27.500 TDW	CHANT. DE L'ATLANTIQUE FRANCE A28 1983	ADNATCO ABU DHABI YAMILAH	TENDERING; DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	528
 27.500 TDW	CHANT. DE L'ATLANTIQUE FRANCE B28 1983	ADNATCO ABU DHABI AL DHABIYYAH	TENDERING; DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	528
 27.500TDW	CHANT. DE L'ATLANTIQUE FRANCE C28 1983	ADNATCO ABU DHABI ARZANAH	TENDERING; DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	528
 14.000 TDW	SASEBO HEAVY IND. JAPAN 319 1984	SCOTT TRINIDAD & TOBAGO TRINIDAD AND TOBAGO METHANOL CARRIER	TENDERING; DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERV.; GENERAL CONSULTANCY	588
 14.000 TDW	SASEBO HEAVY IND. JAPAN 320 1984	SCOTT TRINIDAD HAROLD LABORDE METHANOL CARRIER	TENDERING; DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERV.; GENERAL CONSULTANCY	588
 3.550 TDW	J.J. SIETAS GERMANY 887 1985	SCOTT TRINIDAD & TOBAGO SCOTT UNITY	TENDERING; DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERV.; GENERAL CONSUL.	610
 5.550 TDW	1990	P:T: HUMPUSS JAPAN METHANOL CARRIER	TENDERING DESIGN ASSISTANCE; EVALUTION, CONTRACT NEGOTIATION	777


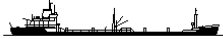


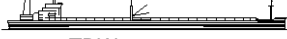





PRODUCT CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 70.000 TDW	2000	ADNATCO ABU DHABI	TENDERING; TECHN. EVALUATION	923
 70.000 TDW	2000	ADNATCO ABU DHABI	TENDERING; TECHN. EVALUATION	923
 40.000 TDW	2000	ADNATCO ABU DHABI	TENDERING; TECHN. EVALUATION	923
 40.000 TDW	2000	ADNATCO ABU DHABI	TENDERING; TECHN. EVALUATION	923
 37.000 TDW	SHINA KOREA 414 2000	QATAR SHIPPING CO. QATAR	TECHN. EVALUATION CONTRACT NEGOT. COMMERCIAL EVAL	936
 37.000 TDW	SHINA KOREA 415 2000	QATAR SHIPPING CO. QATAR	TECHN. EVALUATION CONTRACT NEGOT. COMMERCIAL EVAL.	936
 37.000 TDW	SHINA KOREA 422 2000	QATAR SHIPPING CO. QATAR	TECHN. EVALUATION CONTRACT NEGOT. COMMERCIAL EVAL.	936
 37.000 TDW	SHINA KOREA 416 2004	CHEMIKALIEN SEETRANSPORT GERMANY MS SOPHIE CLEAN OIL PRODUCTS AND IMO 3 CHEMICALS CRUDE OIL WASHING	TECHN. EVALUATION CONTRACT NEGOT. COMMERCIAL EVAL. PLAN APPROVAL; LOCAL BUILDING SUPERV.;GENERAL CONSUL.	938
 37.000 TDW	SHINA KOREA 420 2004	CHEMIKALIEN SEETRANSPORT GERMANY MS SIMON CLEAN OIL PRODUCTS AND IMO 3 CHEMICALS CRUDE OIL WASHING	TECHN. EVALUATION CONTRACT NEGOT. COMMERCIAL EVAL. PLAN APPROVAL; LOCAL BUILDING SUPERV.;GENERAL CONSUL.	938

PRODUCT CARRIERS



SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 40.000 TDW	SHINA KOREA 421 2004	CHEMIKALIEN SEETRANSPORT GERMANY HANS SCHOLL CLEAN OIL PRODUCTS AND IMO 3 CHEMICALS CRUDE OIL WASHING	TECHN. EVALUATION CONTRACT NEGOT. COMMERCIAL EVAL. PLAN APPROVAL; LOCAL BUILDING SUPERV.;GENERAL CONSUL.	938
 40.000 TDW	SHINA KOREA 436 2005	CHEMIKALIEN SEETRANSPORT GERMANY AFRICAN FUTURE CLEAN OIL PRODUCTS AND IMO 3 CHEMICALS CRUDE OIL WASHING	TECHN. EVALUATION CONTRACT NEGOT. COMMERCIAL EVAL. PLAN APPROVAL; LOCAL BUILDING SUPERV.;GENERAL CONSUL.	938
 40.000 TDW	SHINA KOREA 461 2007	CHEMIKALIEN SEETRANSPORT GERMANY CLEAN OIL PRODUCTS AND IMO 3 CHEMICALS CRUDE OIL WASHING	TECHN. EVALUATION CONTRACT NEGOT. COMMERCIAL EVAL. PLAN APPROVAL; LOCAL BUILDING SUPERV.;GENERAL CONSUL.	938
 40.000 TDW	SHINA KOREA 464 2008	CHEMIKALIEN SEETRANSPORT GERMANY CLEAN OIL PRODUCTS AND IMO 3 CHEMICALS CRUDE OIL WASHING	TECHN. EVALUATION CONTRACT NEGOT. COMMERCIAL EVAL. PLAN APPROVAL; LOCAL BUILDING SUPERV.;GENERAL CONSUL.	938
 13.000 TDW	21 st CENTURY KOREA 253 - 258 2009	ATLANTIC FONDS/ CHEMIKALIEN SEETRANSPORT GERMANY CLEAN OIL PRODUCTS AND IMO 2 + 3 CHEMICALS	GENERAL CONSUL. PLAN APPROVAL; LOCAL BUILDING SUPERV	1036
 13.000 TDW	21 st CENTURY KOREA (10VES) 2009	RIEGEL SCHIFFFAHRTS GMBH; GERMANY	ASSISTANCE PLAN APPROVAL FOR PRODUCT TANKERS TO BE BUILT AT 21 st CENTURY	1054

CRUDE OIL CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 59.830 TDW	MITSUBISHI HEAVY IND. JAPAN 939 1964	WORLD WIDE TRANSP. INC. LIBERIA CONTINENTAL "C"	PLAN APPROVAL	122
 34.600 TDW	VEROLME NETHERLANDS 722 1966	ETHIOPIAN SHIPPING LINE ETHIOPIA LALIBELLA	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	125A1
 117.710 TDW	ASTERILLEROS ESPANOLAS; SPAIN 91 1972	WORLD WIDE TRANSP. INC. LIBERIA CONOCO ESPANA SEMI-SIBMERSIBLE HEAVY LIFT VESSEL	PLAN APPROVAL	299
 117.710 TDW	ASTERILLEROS ESPANOLAS; SPAIN 92 1972	WORLD WIDE TRANSP. INC. LIBERIA CONOCO BRITANNIA	PLAN APPROVAL	299
 150.000 TDW	CSBC TAIWAN 369 1990	CPC TAIWAN	PLAN APPROVAL	707
 120.000 TDW	MITSUBISHI HEAVY IND. JAPAN 2046 1991	PETRONAS CARIGALI MALAYSIA PUTERI DULANG SPM / FSO CARRIER	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	756
 35.600 TDW	IHI JAPAN 3032 1993	BERLIAN LAJU INDONESIA PERGIWO	LOCAL BUILDING SUPERVISION	822
 35.600 TDW	IHI JAPAN 3033 1993	P. T. HUMPUSS INDONESIA PANCA SAMUDRA	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	822
 35.600 TDW	IHI JAPAN 3034 1993	P. T. HUMPUSS INDONESIA SAD SAMUDRA	PLAN APPROVAL	822
 Suez Max	HHI KOREA 1878 2007	ISIM Tour Ltd. (IranoHind) Gibraltar (IRAN)	LOCAL BUILDING SUPERVISION	1017

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CRUDE OIL CARRIERS

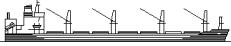
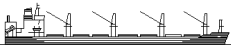
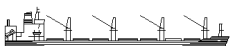
SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 298.000 TDW	DALIAN SHIPBUILDING INDUSTRY CO., LTD., CHINA 3000-38 2011	DS TANKERS GMBH & CO. KG GERMANY M/T DS VISION	PROJECT MANAGEMENT; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	1063
 298.000 TDW	DALIAN SHIPBUILDING INDUSTRY CO., LTD., CHINA 3000-39 2011	DS TANKERS GMBH & CO. KG GERMANY M/T DS VENTURE	PROJECT MANAGEMENT; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	1063

TANK BARGES







SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 2.000 TDW	DE BIESBOSCH NETHERLANDS 677 1977	SONATRACH ALGERIA EL KENNAR	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	375A
 2.000 TDW	DE BIESBOSCH NETHERLANDS 678 1977	SONATRACH ALGERIA EL OUELDJA	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	375A
 2.000TDW	DE BIESBOSCH NETHERLANDS 679 1977	SONATRACH ALGERIA EL KOUACHI	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	375A
 1.000 TDW	CHANT. CHALON S/SAONE FRANCE 2053/1 1977	SONATRACH ALGERIA BERRICHE	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	375B
 1.000 TDW	CHANT. CHALON S/SAONE FRANCE 2053/2 1977	SONATRACH ALGERIA BORDJ MANAIEL	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	375B
 1.000 TDW	CHANT. CHALON S/SAONE FRANCE 2053/3 1977	SONATRACH ALGERIA BELAHCEL BOUZEGZA	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	375B
 1.000 TDW	CHANT. CHALON S/SAONE FRANCE 2053/4 1977	SONATRACH ALGERIA BELGHIMOS	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	375B
 300 TDW	RUHRORTER SCHIFFSW. GERMANY 614 1978	COMP. MALIENNE DE NAV. MALI SONI ALI-BER	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	417

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PROBO CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 43.461 TDW	TSUNEISHI JAPAN 549 1985	CHEMIKALIEN SEETRANSP. GERMANY PACIFIC GALLANTRY CONVERSION FROM OBO TO PROBO	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	708
 43.461 TDW	TSUNEISHI JAPAN 550 1987	CHEMIKALIEN SEETRANSP. GERMANY PACIFIC GREETING CONVERSION FROM OBO TO PROBO	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	708
 43.461 TDW	TSUNEISHI JAPAN 551 1987	CHEMIKALIEN SEETRANSP. GERMANY PACIFIC GUARDIAN CONVERSION FROM OBO TO PROBO	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	708

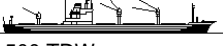







BULK CARRIERS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 9.650 TDW	BURMESTER & WAIN DENMARK 776 1960	A. L. BURBANK USA DOMINO CRYSTAL	DESIGN; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	16
 25.000 TDW	G. DIMITROV SHIPYARD BULGARIA 112 1975	A. L. BURBANK USA BOUJNIBA	LOCAL BUILDING SUPERVISION	364
 150.000 TDW	HYUNDAI H. I. KOREA 783 1993	MELLITUS SHIPPING INC. SINGAPORE CAPE EAGLE	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	806
 150.000 TDW	HYUNDAI H. I. KOREA 784 1993	MELLITUS SHIPPING INC. SINGAPORE CAPE FALCON	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	806
 150.000 TDW	HYUNDAI H. I. KOREA 785 1993	MELLITUS SHIPPING INC. SINGAPORE CAPE KESTREL	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	806
 92.500 TDW	COSCO ZHOUSHAN SHIPYARD CO., LTD CHINA 236 +237 2010/2011	KRAEMER / CHRIST GERMANY	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	1039/1074

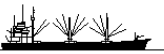
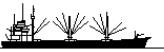


DRY CARGO VESSELS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 2.340 TDW	JOS. L. MEYER GERMANY 498 1959	PELNI WATAMPONE	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	56
 2.940 TDW	JOS. L. MEYER GERMANY 499 1960	PELNI WATADAMBO	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	57
 6.655 TDW	VEROLME NETHERLANDS 720 1966	ETHIOPIAN SHIPPING LINE ETHIOPIA LION OF JUDAH	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	152A2
 6.655 TDW	VEROLME NETHERLANDS 721 1966	ETHIOPIAN SHIPPING LINE ETHIOPIA QUEEN OF SHEEBA	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	152A2
 7.430 TDW	ORENSTEIN & KOPPEL GERMANY 961 1972	S.N.T.M. / C.N.A.N. ALGERIA IBN BADIS	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	305
 7.430 TDW	ORENSTEIN & KOPPEL GERMANY 962 1973	S.N.T.M. / C.N.A.N. ALGERIA IBN BATOUTA	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	305
 7.430 TDW	SCHLICHTING WERFT GERMANY 1377 1973	S.N.T.M. / C.N.A.N. ALGERIA IBN ROCHD	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	305
 7.430 TDW	SCHLICHTING WERFT GERMANY 1378 1973	S.N.T.M. / C.N.A.N. ALGERIA IBN SIRAJ	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	305
 7.430 TDW	SCHLICHTING WERFT GERMANY 1363 1973	S.N.T.M. / C.N.A.N. ALGERIA AURES	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	305


DRY CARGO VESSELS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 15.500 TDW	O/Y WAERTSILA FINLAND 1206 1973	NEPTUNE ORIENT LINES LTD., SINGAPORE NEPTUNE EMERALD SEMI CONTAINER VESSEL	PLAN APPROVAL	298
 15.500 TDW	O/Y WAERTSILA FINLAND 1207 1973	NEPTUNE ORIENT LINES LTD., SINGAPORE NEPTUNE SAPPHIRE SEMI CONTAINER VESSEL	PLAN APPROVAL	298
 3.360 TDW	J.J. SIETAS GERMANY 764 1975	C.O.M.A.N.A.V. MAROCCO OUZZANE MULTI PURPOSE CARRIER	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	356
 3.360 TDW	J.J. SIETAS GERMANY 765 1975	C.O.M.A.N.A.V. MAROCCO OUARZAZATE MULTI PURPOSE CARRIER	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	356
 3.360 TDW	J.J. SIETAS GERMANY 766 1975	C.O.M.A.N.A.V. MAROCCO OUIRGANE MULTI PURPOSE CARRIER	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	356
 8.100 TDW	SCHLICHTING WERFT GERMANY 1387 1976	S.N.T.M. / C.N.A.N. ALGERIA OUARSENIS	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	353
 8.100 TDW	SCHLICHTING WERFT GERMANY 1388 1976	S.N.T.M. / C.N.A.N. ALGERIA DJURDJURA	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	353
 8.100 TDW	SCHLICHTING WERFT GERMANY 1389 1977	S.N.T.M. / C.N.A.N. ALGERIA DJORF	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	353
 8.100 TDW	SCHLICHTING WERFT GERMANY 1390 1977	S.N.T.M. / C.N.A.N. ALGERIA EDOUGH	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	353



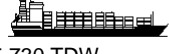
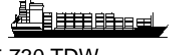


DRY CARGO VESSELS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 8.190 TDW	SCHLICHTING WERFT GERMANY 1400 1977	S.N.T.M. / C.N.A.N. ALGERIA IBN KHALDOUN II	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	410
 8.190 TDW	SCHLICHTING WERFT GERMANY 1401 1977	S.N.T.M. / C.N.A.N. ALGERIA IMPALA I	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	410
 1.400 TDW	HITZLER SCHIFFSWERFT GERMANY 765 1980	SAGITTA SHIPPING UNION ARROW	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	465
 1.400 TDW	HITZLER SCHIFFSWERFT GERMANY 766 1980	SAGITTA SHIPPING UNION DIAMOND	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	465

CONTAINER VESSELS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 41.500 TDW	LA CIOTAT FRANCE 335 1988	NORMED FRANCE MORELOS 2073 TEU	LOCAL BUILDING SUPERVISION; INSPECTION	711
 41.500 TDW	LA CIOTAT FRANCE 336 1988	NORMED FRANCE OAXACA 2073 TEU	LOCAL BUILDING SUPERVISION; INSPECTION	718
 41.500 TDW	LA CIOTAT / LA SPEZIA FRANCE / ITALY 337 1990	NORMED FRANCE MONTERREY 2073 TEU	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	743
 750 TDW	DEGGENDORFER WERFT GERMANY 810 1990	MALAWI RAILWAYS MALAWI KWACHA 66 TEU	DESIGN ; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	733
 11.000 TDW	S.A.JULIANA CONSTR. GIJ. SPAIN 349 1994	M.I.S.C. MALAYSIA 650 TEU	DESIGN ASSISTANCE	866
 11.000 TDW	S.A.JULIANA CONSTR. GIJ. SPAIN 349 1994	M.I.S.C. MALAYSIA 650 TEU	DESIGN ASSISTANCE	866
 6.300 TDW	UNION NAVAL DE LEVANTE SPAIN 245 1997	C.O.M.A.N.A.V. MAROCCO OUED EDDAHAB 506 TEU	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	883
 6.300 TDW	UNION NAVAL DE LEVANTE SPAIN 246 1998	C.O.M.A.N.A.V. MAROCCO OUED ZIZ 506 TEU	PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	883
 49.700 TDW	MES JAPAN 1441 1998	UASC KUWAIT AL SABAHIA 3800 TEU	LOCAL BUILDING SUPERVISION IN COOPERATION WITH SCHIFFKO	895










CONTAINER VESSELS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 49.700 TDW	MES JAPAN 1442 1998	UASC KUWAIT ASIR 3800 TEU	LOCAL BUILDING SUPERVISION IN COOPERATION WITH SCHIFFKO	895
 49.700 TDW	MES JAPAN 1443 1998	UASC KUWAIT AL ABDALI 3800 TEU	LOCAL BUILDING SUPERVISION IN COOPERATION WITH SCHIFFKO	895
 5.730 TDW	DAE SUN KOREA 434 1999	QNNTC QATAR 411 TEU	TENDERING; PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	912/918
 5.730 TDW	DAE SUN KOREA 435 2000	QNNTC QATAR 411 TEU	TENDERING; PLAN APPROVAL; LOCAL BUILDING SUPERVISION; GENERAL CONSULTANCY	912/918
 68.000 TDW	2000	CHINESE CLIENT CHINA 5500 TEU	DESIGN; SPECIFICATION; GA-PLAN	034_9
 5.000 TDW	2001	CALTRAM ALGERIA 500 TEU	TENDERING, EVALUATION, CONTRACT NEGOTIATION	925

RO - RO VESSELS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 1.600 TDW	D.W. KREMER SOHN GERMANY 1129 1971	CHEMIKALIEN SEETRANSP. GERMANY BIBIANA	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	291
 1.600 TDW	D.W. KREMER SOHN GERMANY 1146 1972	CHEMIKALIEN SEETRANSP. GERMANY HELGA	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	291
 2.800 TDW	SCHULTE & BRUNS GERMANY 281 1977	C.O.T.U.N.A.V. TUNESIA MEJERDA	LOCAL BUILDING SUPERVISION	368
 42.200 TDW	BREMER VULKAN GERMANY 1003 1979	CHEMIKALIEN SEETRANSP. GERMANY LILLOOET	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	413
 2.950 TDW	SCHLICHTING WERFT GERMANY 1413 1980	C.A.L.T.R.A.M. ALGERIA TAJURA	DESIGN ASSISTANCE	418
 2.950 TDW	SCHLICHTING WERFT GERMANY 1414 1980	C.A.L.T.R.A.M. ALGERIA GHARDAIA	DESIGN ASSISTANCE	418
 1990/1991	UNION NAVAL DE LEVANTE SPAIN 1990/1991	E.N.T.M.V. ALGERIA TARIQ IBN ZIYAD	DESIGN ASSISTANCE; GENERAL CONSULTANCY	782
 2008	XXX 2008	WYKER DAMPFSCIFFS- REEDEREI FÖHR-AMRUM GmbH	REVIEW OF TECHNICAL SPEC; TENDERING PROCEDURE, EVALUATION OF OFFERS; CONTRACT NEGOTIATIONS WITH SHIPYARS	1043


INLAND WATERWAYS VESSELS

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 290 PASSENGER	KRUPP/RUHRORTER SCHIFFSWERFT; GERMANY 613 1987	COMP. MALIENNE DE NAV. MALI TOMBOUCTOU PASSENGER VESSEL	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	417
 450 PASSENGER	KRUPP/RUHRORTER SCHIFFSWERFT; GERMANY 638 1982	COMP. MALIENNE DE NAV. MALI KANKOU MOUSSA PASSENGER VESSEL	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	520
 TUG & 6 BARGES	KRUPP/RUHRORTER SCHIFFSWERFT; GERMANY 680/686 1982	COMP. MALIENNE DE NAV. MALI MEGUETAN PUSHER TRAIN	DESIGN; PLAN APPROVAL; LOCAL BUILDING SUPERV. GENERAL CONSULTANCY	493
 40 TDW	BAYRISCHE SCHIFFBAU GES., GERMANY 1095 1985	COMWORKS TANZANIA RUFUJI RIVER FERRY	DESIGN; PLAN APPROVAL; LOCAL BUILDING SUPERV. GENERAL CONSULTANCY	602/1
 170 TDW	BAYRISCHE SCHIFFBAU GES., GERMANY 1094 1985	COMWORKS TANZANIA SENGEREMA FERRY	DESIGN; PLAN APPROVAL; LOCAL BUILDING SUPERV. GENERAL CONSULTANCY	602/2
 6 x 185 TDW	DEGGENDORFER WERFT GERMANY 1990	COMP. MALIENNE DE NAV. MALI 6 BARGES	DESIGN; PLAN APPROVAL; LOCAL BUILDING SUPERV. GENERAL CONSULTANCY	717
 350 TDW	GERMANY 1990	SNCZ ZAIRE TUG/PUSHER & PASSENGER (200) VESSEL	DESIGN	739
 650 TDW; TUG/PASSENGER	GERMANY 1990	SNCZ ZAIRE TUG & PASSENGER (200) VESSEL	DESIGN	739
 650 TDW	GERMANY 1990	SNCZ ZAIRE BARGE	DESIGN	739

SPECIALIZED SHIPS / OFFSHORE UNITS

SIZE/TYPE OF SHIP / OFFSHORE UNIT	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP / UNIT NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
	ASTELLEROS ALIANZA ARGENTINA 1972	ARGENTINE NAVY ARGENTINA HYDROGRAPHIC RESEARCH VESSEL	DESIGN	
 FISHING BOAT	ASTILLEROS ZAMAEONA SPAIN 1972-1974	O.A.P ALGERIA 20 FISHING BOATS	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	304
 PILOT LAUNCH	CHANTICOS LAMBRO GREECE 1978-1979	O.N.P. 9 PILOT LAUNCHES	LOCAL BUILDING SUPERVISION	415A
 MOORING LAUNCH	CHANTICOS LAMBRO GREECE 1977-1979	O.N.P. 19 MOORING LAUNCHES	LOCAL BUILDING SUPERVISION	415B
	BLOHM & VOSS GERMANY 911 1982	GERMAN NAVY GERMANY RHEINLAND PFALZ FREGATE F122	LOCAL BUILDING SUPERVISION	511
	BLOHM & VOSS GERMANY 912 1983	GERMAN NAVY GERMANY KOELN FREGATE F122	LOCAL BUILDING SUPERVISION	511
 6.000 HP	NEUE JADEWERFT GERMANY 163 1983	MARINE OFFSHORE TRANS. LIBERIA TRANS CASTOR HANDLING TUG & FIFI VESSEL	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	557
 6.000 HP	NEUE JADEWERFT GERMANY 164 1983	MARINE OFFSHORE TRANS. LIBERIA TRANS POLLUX HANDLING TUG & FIFI VESSEL	DESIGN ASSISTANCE; PLAN APPROVAL; LOCAL BUILDING SUPERVISION	557
 380 TDW	CASENS SCHIFFSWERFT GERMANY 187 1990	O.N.P.C. CAMEROON NYONG BOUY LAYING VESSEL	TENDERING; DESIGN ASSISTANCE; PLAN APPROVAL; LOC. BUILD. SUPERV. GENERAL CONSULTANCY	677

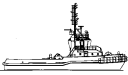







SPECIALIZED SHIPS / OFFSHORE UNITS

SIZE/TYPE OF SHIP / OFFSHORE UNIT	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP / UNIT NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 32 TONS B. P.	BAYRISCHE SCHIFFBAU GES.; GERMANY 1142 1996	O.N.P.C. CAMEROON R. DOUALA MANGA BELL HARBOUR & COASTAL TUG	TENDERING; DESIGN ASSISTANCE; PLAN APPROVAL; LOC. BUILD. SUPERV. GENERAL CONSULTANCY	754
 12.100 TDW	MEYER WERFT GERMANY 6200 1997	LIVESTOCK TRANSP. TRAD. KUWAIT AL MESSILAH CONVERSION FROM CAR- TO LIVESTOCK CARRIER ABT 80.000 SHEEPS	PLAN APPROVAL; LOCAL BUILDING SUPERVISION	891
 40 TONS B. P.	ERLENBACHER SCHIFFSWERFT, GERMANY 1147 2002	PAD CAMEROON PERFORMANCE HARBOUR & COASTAL TUG	TENDERING; DESIGN ASSISTANCE; PLAN APPROVAL; LOC. BUILD. SUPERV. GENERAL CONSULTANCY	921
 17 M	ERLENBACHER SCHIFFSWERFT, GERMANY 1148 2002	SPA MINA ZAYED ABU DHABI PILOT 1 PILOT BOAT	TENDERING; EVALUATION PLAN APPROVAL; LOC. BUILD. SUPERV.	922
 17 M	ERLENBACHER SCHIFFSWERFT, GERMANY 1149 2002	SPA MINA ZAYED ABU DHABI PILOT 2 PILOT BOAT	TENDERING; EVALUATION PLAN APPROVAL; LOC. BUILD. SUPERV.	922
 50 TONS B. P.	KEPPEL SINGMARINE DOCKYARD, SINGAPORE 250 2002	SPA MINA ZAYED ABU DHABI ABU DHABI 1 TUG BOAT	TENDERING; EVALUATION PLAN APPROVAL; LOC. BUILD. SUPERV.	922
 50 TONS B. P.	KEPPEL SINGMARINE DOCKYARD, SINGAPORE 251 2002	SPA MINA ZAYED ABU DHABI AL AIN TUG BOAT	TENDERING; EVALUATION PLAN APPROVAL; LOC. BUILD. SUPERV.	922
 55 TONS B. P.	BHARATI SHIPYARD INDIA 279 2001	Q-SHIP QATAR SAILAIN TUG BOAT	EVALUATION; PLAN APPROVAL; LOC. BUILD. SUPERV. GENERAL CONSULTANCY	931
 55 TONS B. P.	BHARATI SHIPYARD INDIA 280 2001	Q-SHIP QATAR SODANATHEEL TUG BOAT	EVALUATION; PLAN APPROVAL; LOC. BUILD. SUPERV. GENERAL CONSULTANCY	931


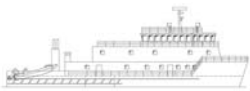
SPECIALIZED SHIPS / OFFSHORE UNITS

SIZE/TYPE OF SHIP / OFFSHORE UNIT	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP / UNIT NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 55 TONS B. P.	BHARATI SHIPYARD INDIA 281 2001	Q-SHIP QATAR GHASHAM TUG BOAT	EVALUATION; PLAN APPROVAL; LOC. BUILD. SUPERV. GENERAL CONSULTANCY	931
 55 TONS B. P.	BHARATI SHIPYARD INDIA 282 2001	Q-SHIP QATAR ALMASHRA TUG BOAT	EVALUATION; PLAN APPROVAL; LOC. BUILD. SUPERV. GENERAL CONSULTANCY	931
 2 x 500 KW		QATAR NATIONAL NAV. & TRANSPORT CO. QATAR STANDBY SAFETY VESSELS	EVALUATION; ASSISTANCE IN CONTRACT NEGOTIATION	937
 60 TONS B. P.	ABG SHIPYARD LTD. INDIA 187 2002	HALUL OFFSHORE SERV. QATAR HALUL 20 ANCHOR HANDLING TUG/ SUPPLY VESSEL	TENDERING; EVALUATION PLAN APPROVAL LOC. BUILD. SUPERV.	939
 60 TONS B. P.	ABG SHIPYARD LTD. INDIA 189 2003	HALUL OFFSHORE SERV. QATAR HALUL 21 ANCHOR HANDLING TUG/ SUPPLY VESSEL	TENDERING; EVALUATION PLAN APPROVAL LOC. BUILD. SUPERV.	939
 60 TONS B. P.	ABG SHIPYARD LTD. INDIA 190 2003	HALUL OFFSHORE SERV. QATAR HALUL 22 ANCHOR HANDLING TUG/ SUPPLY VESSEL	TENDERING; EVALUATION PLAN APPROVAL LOC. BUILD. SUPERV.	939
 60 TONS B. P.	ABG SHIPYARD LTD. INDIA 191 2003	HALUL OFFSHORE SERV. QATAR HALUL 23 ANCHOR HANDLING TUG/ SUPPLY VESSEL	TENDERING; EVALUATION PLAN APPROVAL LOC. BUILD. SUPERV.	939
 4000 HP	YANTAI RAFFLES CHINA 111 2002	SAUDI ARABIAN SEA PORT AUTHORITY KINGDOM OF SAUDI ARABIA RADHWA 18 VSP TUG BOAT	PLAN APPROVAL LOC. BUILD. SUPERV. GENERAL CONSULTANCY	941
 4000 HP	YANTAI RAFFLES CHINA 112 2002	SAUDI ARABIAN SEA PORT AUTHORITY KINGDOM OF SAUDI ARABIA RADHWA 19 VSP TUG BOAT	PLAN APPROVAL LOC. BUILD. SUPERV. GENERAL CONSULTANCY	941

SPECIALIZED SHIPS / OFFSHORE UNITS

SIZE/TYPE OF SHIP / OFFSHORE UNIT	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP / UNIT NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 4000 HP	YANTAI RAFFLES CHINA 113 2002	SAUDI ARABIAN SEA PORT AUTHORITY KINGDOM OF SAUDI ARABIA DAMMAN 5 VSP TUG BOAT	PLAN APPROVAL LOC. BUILD. SUPERV. GENERAL CONSULTANCY	941
 3000 HP	YANTAI RAFFLES CHINA 114 2002	SAUDI ARABIAN SEA PORT AUTHORITY KINGDOM OF SAUDI ARABIA DAMMAN 4 VSP TUG BOAT	PLAN APPROVAL LOC. BUILD. SUPERV. GENERAL CONSULTANCY	941
 3000 HP	YANTAI RAFFLES CHINA 115 2002	SAUDI ARABIAN SEA PORT AUTHORITY KINGDOM OF SAUDI ARABIA JEDDAH 31 VSP TUG BOAT	PLAN APPROVAL LOC. BUILD. SUPERV. GENERAL CONSULTANCY	941
 3000 HP	YANTAI RAFFLES CHINA 116 2002	SAUDI ARABIAN SEA PORT AUTHORITY KINGDOM OF SAUDI ARABIA JUBAIL 28 VSP TUG BOAT	PLAN APPROVAL LOC. BUILD. SUPERV. GENERAL CONSULTANCY	941
 2 x 500 KW		MINISTRY OF INTERIOR/ COAST GUARD KUWAIT 2 LOGISTIC SHIPS	TENDERING, EVALUATION, NEGOTIATION, PLAN APPROVAL LOC. BUILD. SUPERV.	949
 2 x 200 KW	SCHIFFSWERFT H. BARTHEL Germany 119 2004	PAD CAMEROON HYDRO HYDROGRAPHIC RESEARCH VESSEL	TENDERING EVALUATION NEGOTIATION PLAN APPROVAL BUILDING SUPERVISION	965
	N.N. N.N. XXXX XXXX	LIVESTOCK TRANSP. TRAD. KUWAIT XXXXXX LIVESTOCK CARRIER ABT 80,000 SHEEP	DESIGN ASSISTANCE; TENDERING; GENRAL CONSULTANCY	1026
 FERRY 1200 PASSENGER	NN NN	WYKER DAMPFSCIFFS- REEDEREI, GERMANY	EVALUATION PLAN APPROVAL BUILDING SUPERVISION	1043
	2008	CL MARINE LTD.; TRINIDAD & TOBAGO	ASSISTANCE FOR COMMISSIONING OF A FLOATING DOCK AND STAR- UP OF REPAIR ACTIVITIES IN PORT OF SPAIN; TRINIDAD	1045




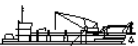
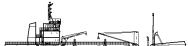
SPECIALIZED SHIPS / OFFSHORE UNITS

SIZE/TYPE OF SHIP / OFFSHORE UNIT	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP / UNIT NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
	YONGERT NETHERLANDS 417 2008	SCORPION INTERNATIONAL LTD; BRITISH VIRGIN ISLANDS SCORPIONE DEI MARE	STRUCTURAL CALCULATIONS AND HULL MODIFICATION	1049
	2008	BUREAU VERITAS; GERMANY	ELECTRICAL ENGINEER FOR PLAN APPROVAL ASSISTANCE	1050
Yacht	2008/2009	BLOHM & VOSS SHIPYARD; GERMANY NAHLIN	ENGENIERING SUPPORT FOR ELECTRIC AND MACHINERY SYSTEMS	1051
OFFSHORE CONVERTER PLATFORMS	2010 / ONGOING	GERMAN ELECTRIC POWER DISTRIBUTOR	CONSULTANCY OFFER EVALUATION CONTRACT NEGOTIATION AUDITING	1064
OFFSHORE CONVERTER PLATFORMS	GERMAN YARD 2011 / ONGOING	GERMAN ELECTRIC POWER DISTRIBUTOR PLATFORM 1 + 2	TECHN: PROJECT MANAGEMENT PLAN APPROVAL QUALITY ASSURANCE OF DESIGN	1070
 2 x 500 KW		MINISTRY OF INTERIOR/ COAST GUARD KUWAIT 1 LOGISTIC SHIP	DESIGN AND CONTRACT ASSISTANCE	1071
OFFSHORE CONVERTER PLATFORM	GERMAN YARD 2012 / ONGOING	GERMAN ELECTRIC POWER DISTRIBUTOR PLATFORM 3	SUB. - PROJECT MANAGEMENT PLAN APPROVAL PLAN APPROVAL QUALITY ASSURANCE OF DESIGN	1075
OFFSHORE CONVERTER PLATFORMS	GERMAN YARD 2013 / ONOING	GERMAN ELECTRIC POWER DISTRIBUTOR PLATFOR 4	SUB. - PROJECT MANAGEMENT PLAN APPROVAL PLAN APPROVAL QUALITY ASSURANCE OF DESIGN	1109

SPECIALIZED SHIPS / OFFSHORE UNITS

SIZE/TYPE OF SHIP / OFFSHORE UNIT	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP / UNIT NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
OFFSHORE CONVERTER PLATFORMS	UAE YARD 2014	GERMAN ELECTRIC POWER DISTRIBUTOR PLATFORM 5	SUB. - PROJECT MANAGEMENT PLAN APPROVAL PLAN APPROVAL QUALITY ASSURANCE OF DESIGN	1134
OFFSHORE CONVERTER PLATFORMS	UAE YARD 2014	GERMAN ELECTRIC POWER DISTRIBUTOR PLATFORM 6	DELIVERY DOC/MANUAL SYSTEM REVIEW / OPTIMIZATON	1107
OFFSHORE CONVERTER PLATFORMS	UAE YARD 2014/2106	GERMAN ELECTRIC POWER DISTRIBUTOR PLATFORM 7	DELIVERY DOC/MANUAL SYSTEM REVIEW / OPTIMIZATON	1107
OFFSHORE CONVERTER PLATFORMS	UAE YARD 2015/2016	GERMAN ELECTRIC POWER DISTRIBUTOR PLATFORM 8	DELIVERY DOC/MANUAL SYSTEM REVIEW / OPTIMIZATON	1107
OFFSHORE CONVERTER PLATFORMS	UAE YARD 2015	GERMAN ELECTRIC POWER DISTRIBUTOR PLATFORM 9	SYSTEM REVIEW / OPTIMIZATON	1107

DREDGER

SIZE OF SHIP	YARD COUNTRY YARD NO. YEAR	OWNER COUNTRY SHIP NAME REMARKS	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
 7.500 m3	ORENSTEIN & KOPPEL GERMANY 783 1990	INCANAL VENEZUELA GUAYANA TRAILING SUCTION HOPPER DREDGER	DESIGN ASSISTANCE; PLAN APPROVAL; LOC. BUILD. SUPERV. GENERAL CONSULTANCY	710
 2.350 m3	1992	INCANAL VENEZUELA ICOA TRAILING SUCTION HOPPER DREDGER	REFURBISHMENT SPECIFICATION	799
 2.350 m3	1993	INCANAL VENEZUELA RIO ORINOCO TRAILING SUCTION HOPPER DREDGER	PROPOSAL FOR IMPROVEMENT OF STABILITY	834
 630 m3	NEUE GERMERSHEIMER SCHIFFSWERFT; GERMANY 866 1997	O.N.P.C. CAMEROON CHANTAL BIYA TRAILING SUCTION HOPPER DREDGER	TENDERING; DESIGN ASSISTANCE; PLAN APPROVAL; LOC. BUILD. SUPERV. GENERAL CONSULTANCY	753
 800 m3		SIRTE OIL COMPANY LYBIA TRAILING SUCTION HOPPER DREDGER (SPLIT HULL)	TENDERING; EVALUATION	915

INSPECTIONS

TYPE OF OBJECT	NAME	CLIENT YEAR OF CONTRACT	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
BULK CARRIERS (GRAIN) 27.000 DWT	OCEAN PRITI OCEAN CRONY	CALTRAM ALGERIA 1988	COMPLETE INSPECTION	725
LNG CARRIERS 122.000 m3	GAMMA SOUTHERN GASTOR NESTOR	NNPC NIGERIA 1988/89	LAY-UP INSPECTIONS	722
LNG TERMINAL	TERMINAL EVERETT, BOSTON	NIGERIA LNG LTD. NIGERIA 1990	COMPLETE INSPECTION	766
LNG TERMINAL	TERMINAL COVE POINT, USA	NIGERIA LNG LTD. NIGERIA 1990	COMPLETE INSPECTION	767
MULTI PURPOSE BULK CARRIER 45.000 TDW	MELGAR BAY	VAN OMMEREN SHIPPING B.V. NETHERLAND 1990	COMPLETE INSPECTION ASSESSMENT OF CONDITION	786
OIL TANKER 2.200 m3	MT OCEANA	P.T. HUMPUSS JAKARTA 1990	COMPLETE INSPECTION	797
DREDGER 2.350 m3	ICOA	INCANAL VENEZUELA 1992	COMPLETE INSPECTION REFURBISHMENT PROCEDURES	799
MOLTEN SULPHUR CARRIER 7.725 DWT	MT CARLOS J	METALLGESELLSCHAFT AG GERMANY 1992	COMPLETE INSPECTION (PRE HIRE)	828
OIL TANKER 98.000 m3	MT THORSHAMMER	MISC MALAYSIA 1992	COMPLETE INSPECTION	835
LNG CARRIER 126.750 m3	LOUISIANA	RUHRGAS AG GERMANY 1992	TECHNICAL INSPECTION	836
BULK CARRIER 30.960 TDW	MV RADNIK	VAN OMMEREN SHIPPING B.V. NETHERLAND 1992	COMPLETE INSPECTION ASSESSMENT OF CONDITION & VALUE	850
MOLTEN SULPHUR CARRIER 4.735 m3	MT TEOATL	NAVIMIN MEXICO 1996	STRUCTURAL INSPECTION REPAIR ASSISTANCE	887

INSPECTIONS

TYPE OF OBJECT	NAME	CLIENT YEAR OF CONTRACT	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
LNG CARRIER 87.600 m3	NORMAN LADY	CLARKSON & CO. UNITED KINDOM 1996	COMPLETE INSPECTION	890
CONTAINER SHIP 1.700 TEU	MV MSC GIORGIA	VAN OMMEREN SHIPPING B.V. NETHERLAND 1996	HULL STRUCTURE INSPECTION	899
CHEMICAL TANKER 40.447 m3	MT JO CLIPPER	P.T. HUMPUSS, INDONESIA 1997	COMPLETE INSPECTION	908
LNG CARRIER 125.000 m3	EDOUARD LD	AFG M. A. T., FRANCE 1998	TANK INSPECTION, REPAIR PROC.	913
MOLTEN SULPHUR CARRIER 4.735 m3	MT TEOATL	NAVIMIN MEXICO 1998	COMPLETE INSPECTION REPAIR ASSISTANCE	916
PILOT BOAT	BOREAS	ONPC, CAMEROON 1998	COMPLETE INSPECTION	917
CONTAINER SHIP 1.160 TEU	MV MARCON	KUWAIT LIVESTOCK TRANSP., KUWAIT 1999	COMPLETE INSPECTION CONVERSION STUDY	920
CHEMICAL TANKERS CONVERSIONS 16.000 TDW	HULL 211+212 TULGEA SHIPYARD ROMANIA	FERROSTAAL, GERMANY 1999	CARGO TANK INSPECTION	927
CRUDE OIL / PRODUCT- TANKER 36.600 m3	SALIH KALKAVAN	VANGUARD UNITED KINGDOM 1999	COMPLETE INSPECTION	930
LPG/LEG TANKER 8.200 m3	CHEMTRANS CHRISTIAN	CHEMIKALIEN SEETRANSPORT GMBH GERMANY 2000	CARGO TANK INSPECTION	935
OFF-SHORE SERVICE VESSELS	MISS CLEMENTINE MISS MARIE	BELBADI ENTERPRISES UAE 2002	COMPLETE INSPECTION ASSESSMENT OF VALUE	959
LNG CARRIER 125,000 m3	MOSTEFA BEN BOULAID	BLOHM & VOSS GMBH GERMANY 2002	CARGO TANK INSPECTION REPAIR PROC.	967

INSPECTIONS

TYPE OF OBJECT	NAME	CLIENT YEAR OF CONTRACT	MS SCOPE OF ACTIVITIES	MS PROJECT NO.
LNG CARRIER 125,000 m3	KHANNUR	GAS NATURAL SPAIN 2003	COMPLETE INSPECTION ASSESSMENT OF CONDITION	975
LNG CARRIERS ABT 140,000 m3	DIVERSE	GULF AGENCY CO./ RAS GAS QATAR 2004	SUPERVISION OF LNG DISCHARGE FOR GAS SELLER	984
RIVER BOATS (2)	RIVER ODYSSEY RIVER EXPLORER	PCE PREMIUM CAPITAL EMISSIONSHAUS GMBH & CO KG, GEMANY	COMPLETE INSPECTION	996
MOTOR YACHT	ALBACORA	R LTD / DÖHLE GREAT BRITAIN / GERMANY	INSPECTION OF GEAR BOX DAMAGE	1030
METHANOL TANKER	GULF OF PARIA AND GOODRICH BAY	CHEMIKALIEN SEETRANSPORT, GERMANY 2008	ASSISTANCE IN THE DELIVERY OF THESE VESSELS	1042
LNG CARRIER 138,000 m ³ MOSS-TYPE	GOLAR FROST	OFFSHORE LNG TOSCANY LTD., ITALY 2009	CONDITION SURVEY INSPECTION PRIOR TO CONVERSION	1052
LNG CARRIER 145.000 m ³ MOSS-TYPE	ARTIC LADY	EON RUHRGAS, GERMANY 2009	CARGO DISCHARGE SURVEY AT MONITOR TERMINAL, FRANCE	1055
SAILING MEGAYACHT	N.N.	FRANZIUS, YACHTCONSULTING GERMANY 2009	PRE-PURCHASE INSPECTION	1056
145K LNG CARRIER	N.N.	TMS TANKERS LTD GREECE 2011	PRE-PURCHASE INSPECTION	1088
18980 TEU CONTAINER SHIP	N.N	HATLAPA/MACGREGOR GERMANY 2016	INSPECTION OF STEERING GEAR DAMAGE	1160

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TECHNICAL STUDIES

STUDY ON ALL EXISTING LNG TANK SYSTEMS AND DESIGN OF LARGE LNG TANKERS
FOR PHILADELPHIA GAS WORKS, U.S.A.

STUDY ON 50,000 - 120,000 CBM LNG CARRIERS
FOR MARITIME ADMINISTRATION / MARAD, U.S.A.

LNG / LPG STUDY
FOR COMPAGNIE NATIONALE ALGERIENNE DE NAVIGATION / C.N.A.N., ALGERIA

STUDY ON TERMINALS AND INTERFACE SYSTEMS
FOR EASCO GAS, U.S.A.

LNG / LPG STUDY
FOR PETROMIN - GENERAL PETROLEUM AND MINERAL ORGANIZATION, SAUDI ARABIA

EVALUATIONS ON OBO'S, CONTAINER VESSELS AND RO-RO VESSELS
FOR MARITIME ADMINISTRATION / MARAD, U.S.A.

STUDY ON FLOATING LNG LIQUEFACTION AND STORAGE SYSTEMS

HULL TEMPERATURE DISTRIBUTION ON LNG CARRIERS
FOR VARIOUS CUSTOMERS

COMPARATIVE EVALUATION ON TECHNICAL LNG - CONTAINMENT FEATURES

STUDY ON CONTAINMENT RELATED OPERATING ASPECTS FOR LNG CARRIERS
FOR WESTERN LNG ASSOCIATES, U.S.A.

THERMODYNAMIC ANALYSIS OF TWO CARGO TANK DESIGNS
FOR SAUDI PETROCHEMICAL COMP. / SADAF, SAUDI ARABIA

INVESTIGATION ON CARGO TANK MATERIALS AND CARGO TANK COATING SYSTEMS
FOR SAUDI PETROCHEMICAL COMP. / SADAF, SAUDI ARABIA

INVESTIGATION OF LNG / LPG – TERMINALS FOR 125,000 M³ LNG / LPG CARRIERS
FOR DOW CHEMICAL EUROPE

STUDIES / INSPECTIONS OF LNG - TERMINALS IN BOSTON AND COVE POINT IN U.S.A.
FOR NLNG, NIGERIA

SHIP PROCUREMENT PROJECT FOR ONE (1) ROLL-ON / ROLL-OFF VESSEL
FOR CTN, TUNISIA

TECHNICAL FEASIBILITY STUDY OF A NEW SHIPYARD IN MAURITANA
FOR ISDB, SAUDI ARABIA

FATIGUE CRACK STUDY OF DOUBLE HULL CON-BULK VESSELS
FOR VAN OMMEREN, THE NETHERLANDS

SEA MARGIN STUDY FOR 22.500 m³ LNG TANKER DESIGN
FOR P.T.HUMPUSS, INDONESIA

FATIGUE CRACK ANALYSIS FOR COAMING BRACKETS OF A CONVERTED BULK CARRIER TO A
MOLTEN SULPHUR CARRIER
FOR NAVIMIN, MEXICO

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TECHNICAL STUDIES

GLOBAL STRESS ANALYSIS (FATIGUE CRACKS IN BULKHEAD WELDING) OF A CHEMICAL CARRIER FOR SADAF, SAUDI ARABIA

LIFE EXTENSION INSPECTION OF THE LNG CARRIER "NORMAN LADY" (87,000 M3) AS CHARTERER'S OBSERVER FOR ENAGAS, SPAIN

INSPECTION OF CRACKS AT PIPE TOWER INSERT PLATE AT TANK TOP OF THE LNG CARRIER "EDOUARD L.D." ON BEHALF OF THE INSURANCE COMPANY AGF-MAT, FRANCE

INVESTIGATION OF MODIFICATION OF THE MOORING AND MANIFOLD ARRANGEMENT FOR LNGC "ANABELLA" FOR CHEMIKALIEN SEETRANSPORT GMBH, GERMANY

STUDY REGARDING CONVERSION OF MV "GULF OF PARIA" AND MV "GOODRICH BAY" FOR CHEMTRANS OVERSEAS LTD; CYPRUS

COMPARISON STUDY OF MARINE TRANSPORT CONDITIONS AND LNG EXPORT FACILITIES AT EGYPTIAN PORTS OF DAMIETTA AND IDKU FOR RWE-DEA; GERMANY

INVESTIGATIONS REGARDING OPERATIONAL FEASIBILITY OF LNG RECEIVING TERMINALS AT RUDONG ECONOMICAL DEVELOPMENT ZONE, P.R. OF CHINA, FOR PACIFIC GAS AND OIL, INDONESIA/SINGAPORE

ASSISTANCE IN PROGRAMMING AN LNG CARGO CONTROL SYSTEM - SIEMENS AG; GERMANY

ASSISTANCE IN DEVELOPMENT OF AN LNG CARGO CONTROL SYSTEM - SAM ELECTRONICS; GERMANY

ASSISTANCE IN THE REVIEW OF LNG OPERATIONS AND SECURITY ISSUES – BMT ASIA LTD; HONG KONG

STUDY ON CONCEPT OF THE GAS SUPPLY SYSTEM FOR DFDE PROPULSION SYSTEMS FOR LNGC'S- MAN B&W DIESEL AG; GERMANY

SHIPSHORE COMPATIBILITY STUDIES AND MOORING FORCE CALCULATIONS FOR VARIOUS LNG TANKERS AT SEVERAL LNG RECEIVING TERMINALS FOR HYPROC; ALGERIA

MOORING CALCULATIONS FOR BULKER TERMINAL STADE INGENIEURGESELLSCHAFT MBH (IMS); GERMANY

SHIPSHORE COMPATIBILITY STUDY AND MOORING FORCE CALCULATION FOR DIFFERENT SIZED LNG TANKER AT DABHOL LNG TERMINAL FOR RGPPL; INDIA

LOW EMISSION STUDY
FRANZIUS, GERMANY

STUDY ON TECHNICAL AND COMMERCIAL ASPECTS FOR DFDE LNG CARRIER REGARDING BOIL-OFF –GAS HANDLING, SAACKE GMBH, GERMANY

INSPECTION OF ONE LNG CARGO TANK OF AN LNG NEWBUILDING ON BEHALF OF THE SHIPPING COMPANY TO CONSULT ON POTENTIAL MEASURES FOR REPAIR

STUDY ON GAS-FIRED AUXILIARY BOILERS FOR LNG TANKERS
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OPERATIONAL RESEARCH AND/OR ECONOMIC FEASIBILITY STUDIES

OPTIMIZATION STUDY ON VARIOUS LNG CONTAINMENT SYSTEMS
FOR VARIOUS CLIENTS

LNG TRANSPORTATION STUDY FOR THE TRADE ALGERIA TO THE U.S. EAST COAST,
TRINIDAD TO THE U.S. EAST COAST AND VENEZUELA TO THE U.S. EAST COAST
FOR PHILADELPHIA GAS WORKS, U.S.A.

LNG TRANSPORTATION STUDY SKIKDA / ARZEW TO BOSTON AND NEW YORK
FOR EASCO GAS, U.S.A.

LNG DISTRIBUTION STUDY AND SHIPPING SCHEDULE ALGERIA TO U.S.A.
FOR EASCO GAS, U.S.A.

TRANSPORTATION STUDY FOR CRUDE OIL, REFINED PRODUCTS, CHEMICALS, LPG, NH AND
ETHYLENE
FOR ALGERIA TO EUROPE AND U.S.A.
FOR COMPAGNIE NATIONALE ALGERIENNE DE NAVIGATION / C.N.A.N., ALGERIA

TRANSPORTATION STUDY AND BASIC PROJECT EVALUATION FOR TRANSPORTATION OF LNG
FROM ALGERIA TO FRANCE, BELGIUM AND GERMANY
FOR S.A.G.A.P.E., EUROPEAN CONSORTIUM

TRANSPORTATION STUDY, MARKET EVALUATION AND FEASIBILITY STUDY ON LPG
TRANSPORTATION FROM ARABIAN GULF AND RED SEA TO JAPAN, U.S. WEST COAST, U.S. EAST
COAST AND GULF
FOR PETROMIN - GENERAL PETROLEUM AND MINERAL ORGANIZATION, SAUDI ARABIA

LNG TRANSPORTATION STUDY FOR TRANSPORTATION TO U.S.A., JAPAN AND EUROPE
FOR PETROMIN - GENERAL PETROLEUM AND MINERAL ORGANIZATION, SAUDI ARABIA

TRANSPORTATION AND FEASIBILITY STUDIES
FOR HAMBURGER GASWERKE, GERMANY

MANAGEMENT STUDY FOR THE OPERATION OF THE LNG CARRIER FLEET
FOR COMPAGNIE NATIONALE ALGERIENNE DE NAVIGATION / C.N.A.N., ALGERIA

OPERATIONS RESEARCH AND FEASIBILITY STUDY ON CONCRETE LNG CARRIERS
FOR TAMPIMEX

ANALYSIS OF LNG PURCHASE AND TRANSPORTATION AGREEMENT
FOR GERMAN GAS GROUP

OPERATIONS RESEARCH AND LNG TRANSPORT OPTIMIZATION STUDY
FOR GERMAN GAS GROUP

LNG SHIPYARD MARKET EVALUATION
FOR GERMAN GAS GROUP

OPERATIONS RESEARCH AND OPTIMIZATION STUDY ON LNG CARRIERS
FOR BELGIAN CLIENTS

ECONOMIC FEASIBILITY AND CONTAINMENT OPTIMIZATION STUDIES
FOR VARIOUS LNG AND LPG CONTAINMENT MANUFACTURERS AND LICENSORS

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Telephone +49 (0)40 36 903-0 / Telefax +49 (0)40 36 903 264
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**OPERATIONAL RESEARCH AND/OR
ECONOMIC FEASIBILITY STUDIES**

CUPRO - NICKEL MATERIAL STUDY, AN ECONOMIC FEASIBILITY STUDY FOR THE USE OF CU/NI-CLAD STEEL MATERIAL FOR THE WETTED HULL SURFACE OF LARGE SEA-GOING VESSELS

ECONOMIC FEASIBILITY STUDY AND LNG TRANSPORT RISK ANALYSIS
FOR WOODSIDE PETROLEUM, AUSTRALIA

COMPARATIVE EVALUATION OF COMMERCIAL LNG CONTAINMENT FEATURES
FOR MC.DONNELL DOUGLAS

TECHNICAL FEATURES AND TESTING OF PV FOAM USED AS INSULANT IN LNG AND LPG
CONTAINMENT SYSTEMS
FOR INDONESIA / WESTERN LNG

ECONOMIC FEASIBILITY STUDY - LNG TRANSPORTATION
FOR NATIONAL ENERGY CORPORATION / N.E.C., TRINIDAD & TOBAGO

LNG SHIPPING MARKET ANALYSIS
FOR DOW CHEMICAL EUROPE

OPTIMIZATION STUDY FOR THE OPERATION OF COASTAL VESSELS ON CHARTER
FOR NNPC, NIGERIA

ECONOMIC FEASIBILITY STUDY - METHANOL TRANSPORTATION
FOR NATIONAL ENERGY CORPORATION / N.E.C., TRINIDAD & TOBAGO

ECONOMIC FEASIBILITY STUDY - LNG TRANSPORTATION
FOR WINTERSHALL A.G., GERMANY

ECONOMIC FEASIBILITY STUDY - LNG TRANSPORTATION
FOR B.E.B. - THYSSENGAS, GERMANY

TRANSPORTATION STUDY FOR FEEDSTOCK AND CHEMICAL PRODUCTS
FOR SUBENTRA, INDONESIA

TRANSPORTATION STUDY FOR VARIOUS CHEMICALS
FOR SAUDI PETROCHEMICAL COMP. / SADAF, SAUDI ARABIA

LNG TRANSPORTATION STUDY
FOR ADNATCO, U.A.E.

LNG TRANSPORTATION STUDY
FOR DEPA, GREECE

LNG SHIPPING STRUCTURE STUDY
FOR ABU DHABI NATIONAL OIL COMPANY (ADNOC), ABU DHABI

LNG SHIPPING STRUCTURE STUDY
FOR DEPA, GREECE

LNG TRANSPORTATION STUDIES
FOR HANJIN HEAVY INDUSTRIES, KOREA

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**OPERATIONAL RESEARCH AND/OR
ECONOMIC FEASIBILITY STUDIES**

INVESTIGATION INTO CURRENT LNG CARRIER WORLD MARKET PRICES
FOR YUKONG LINE LTD, KOREA

VERIFICATION OF MARINE TRANSPORT
FOR RAS LAFFAN LNG PROJECTS FOR GROUP OF PROJECT LANDING BANKS

LNG CARRIER MARKET STUDY: SITUATION UP TO YEAR 2010

STUDY OF MARKET VALUE
FOR CALTRAM, ALGERIA

ECONOMIC STUDIES FOR ALTERNATIVE PROPULSION SYSTEMS FOR LNG CARRIERS
FOR VARIOUS CLIENTS

TRANSPORTATION STUDY CONCERNING THE LNG IMPORT SCHEME INTO SPAIN FOR LNG
SOURCES LOCATED IN ALGERIA, EGYPT, NIGERIA AND TRINIDAD AND ASSISTANCE AND ADVISE
FOR THEIR TRANSPORT ARRANGEMENTS WITH SPANISH COMPANIES
FOR UNION FENOSA, SPAIN

MARINE CONSULTANCY (DUE DILIGENCE ACTIVITIES) FOR THE RASGAS LNG PROJECT IN QATAR
FOR THE GROUP OF LENDING BANKS OF TRAINS 1 & 2, QATAR

FEASIBILITY AND MARKET STUDY FOR THE ACQUISITION OF LPG CARRIERS
FOR QATAR SHIPPING CO., QATAR

TECHNICAL AND ECONOMICAL COMPARISON OF ALTERNATIVE PROPULSION SYSTEMS FOR
STANDARD (140,000 m³) LNG CARRIERS
FOR GAZTRANSPORT & TECHNIGAZ, FRANCE

BRASS LNG MARKETING & COMPETITIVE ANALYSIS / BRASS LNG TRANSPORTATION STUDY FOR
PHILLIPS PETROLEUM COMPANY; TERMINAL LOCATION STUDY
USA (CO-OPERATION WITH GAS STRATEGIES, U.K.)

TECHNICAL AND ECONOMICAL COMPARISON OF ALTERNATIVE PROPULSION SYSTEMS FOR
STANDARD (140,000 m³) LNG CARRIERS
FOR MAN B&W, GERMANY

LNG SHIPPING REVIEW –MARKETS & TRENDS- FROM 2002 ONWARDS
FOR KVAERNER WARNOW WERFT, GERMANY

CONSULTANCY FOR SOUTHWEST TRINIDAD INDUSTRIAL SITES DEVELOPMENT PROJECT
KENESJAY SYSTEMS, TRINIDAD & TOBAGO

LNG CARRIER FLEET CAPACITY ASSESSMENT FOR PACIFIC LNG PROJECT

TECHNICAL AND ECONOMICAL COMPARISON OF ALTERNATIVE PROPULSION SYSTEMS FOR
LARGE (200,000 – 250,000 m³) LNG CARRIERS
FOR MARINE SERVICE GROUP, GERMANY

LNG SHIPPING AND SHIP/SHORE INTERFACE STUDY FOR DFTG TERMINAL AT WILHELMSHAVEN
FOR DFTG (E.ON RUHRGAS), GERMANY

LNG SHIPPING STRUCTURE STUDY
FOR E.ON RUHRGAS, GERMANY

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**OPERATIONAL RESEARCH AND/OR
ECONOMIC FEASIBILITY STUDIES**

STUDY OF TERMINAL LOCATION, MARINE TRAFFIC CONDITIONS AND SHIP/ SHORE INTERFACING REQUIREMENTS FOR A CRUDE OIL EXPORT TERMINAL FOR E.ON ENGINEERING; GERMANY

LNG CONSULTANCY SERVICES IN CONNECTION WITH ENI'S LNG SHIPPING PROJECT FOR CARBOFIN ENERGIA TRASPORTI SPA, ITALY

ASSISTANCE IN LAYOUT OF A SPRAY COOLING SYSTEM FOR A SHORE BASED LNG SPHERICAL TANK FOR LINDE ENGINEERING, GERMANY

ASSISTANCE IN JETTY DESIGN AND CONSTRUCTION FOR AN LNG LOADING TERMINAL IN NORWAY FOR LINDE ENGINEERING, GERMANY

STUDY FOR LOCATION OF A LNG FLOATING STORAGE & REGASIFICATION UNIT (FSRU) FOR SAIPEM ENERGI INTERNATIONAL SPA, ITALY

ASSISTANCE FOR TECHNICAL PROPOSAL REGARDING MODIFICATION OF 150.000 m³ LNG CARRIER FOR DYNACOM/DYNAGAS, GREECE

ASSISTANCE IN REVIEW OF DUTCH LNG TERMINAL STUDY FOR EEMSHAVEN, NETHERLANDS FOR BUREAU VERITAS, GERMANY

MOORING CALCULATION AND SHIP-SHORE COMPETITION CHECK FOR SOME LNG VESSELS FOR SELECTED TERMINALS FOR HYPROC, ALGERIA

MARKET STUDY FOR OFFSHORE SERVICE VESSELS IN BRAZIL FOR MAN-FERROSTAAL, GERMANY

MARKET STUDY ON THE OIL AND GAS RELATED OFFSHORE INDUSTRY IN UAE AND QATAR FOR MAN-FERROSTAAL, GERMANY

TANKER MARKET SURVEY FOR CHARTERING A CRUDE OIL TANKER FOR VASTALUX SDN BHD / MURPHY OIL, MALAYSIA

STUDY FOR A NEWBUILDING AND REPAIR SHIPYARD IN IN BAKU REPUBLIC OF AZERBAIJAN FOR SOCAR, AIC AND STX, AZERBAIJAN AND KOREA

OFFSHORE REPORT VESSELS POTENTIAL STUDY FOR BRAZILIAN MARKET FOR FERROSTAAL; GERMANY

OVERVIEW STUDY ON THE POTENTIAL OF THE OIL AND GAS INDUSTRY IN UAE AND QATAR FOR FERROSTAAL; GERMANY

MARKET STUDY FOR THE MEDITERRANEAN Gas ED, GERMANY

FEASIBILITY STUDY ON THE COMMERCIAL OPERATION OF A LNG CARRIER FLEET; AROMA SHIPPING COMPANY LIMITED

LNG CARRIER FLEET ASSESSMENT & BUSINESS MODEL ASSESSMENT
N.N.

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FURTHER STUDIES

STUDY FOR OFFSHORE POLLUTION CONTROL
FOR A.R.T.E.C. - DAKAR, SENEGAL

ANTIPOLLUTION STUDY, BAY OF IZMIR
FOR THE GOVERNOR OF IZMIR, TURKEY

ANTIPOLLUTION STUDY, ISTANBUL / BOSPORUS AREA
FOR THE MUNICIPALITY OF ISTANBUL, TURKEY

RESEARCH STUDY - CONTROL OF SINKING AND SUNK DANGEROUS CHEMICALS
FOR MINISTRY OF RESEARCH AND TECHNOLOGY, GERMANY

RE - ORGANIZATION OF THE SHIPPING COMPANY
'CALTRAM', ALGERIA

STUDY ON THE CONDITION OF THE EXISTING P.A.D. FLEET
FOR PORT AUTONOME DOUALA; CAMEROUN

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**ASSISTANCE IN LNG PROJECTS
SALES AND PURCHASE AGREEMENTS
TRANSPORT ARRANGEMENTS**

EASCO GAS, U.S.A.
(SALES AND PURCHASE)

WOODSIDE PETROLEUM, AUSTRALIA
(SALES AND PURCHASE)

CHINESE PETROLEUM (CPC), TAIWAN
BADAK III
(SALES AND PURCHASE)

CHINESE PETROLEUM (CPC), TAIWAN
BADAK VI
(SELECTION OF TRANSPORTATION JV:PARTNER, ADVICE IN TIME CHARTER NEGOTIATIONS)

NIGERIAN NATIONAL PETROLEUM CORPORATION (NNPC), NIGERIA
(GENERAL LNG ASSISTANCE)

DEPA, GREECE
(SELECTION OF TONNAGE PROVIDER, ADVICE IN TIME CHARTER NEGOTIATIONS)

ADNOC, ABU DHABI
(SELECTION OF SHIP MANAGER)

UNION FENOSA, SPAIN
(ADVICE AND NEGOTIATIONS FOR TIME CHARTER AGREEMENTS)

NIGERIAN NATIONAL PETROLEUM CORPORATION (NNPC), NIGERIA
(GENERAL LNG ASSISTANCE)

LENDING BANKS FOR RAS GAS - TRAIN 1 + 2
(DUE DILIGENCE)

LATTICE GROUP; U.K.
(MARINE CONSULTANCY SERVICES REGARDING THE NEW LNG RECEIVING TERMINAL AT THE ISLE OF GRAIN)

OMAN LNG, OMAN
(COMMERCIAL SHIPPING ADVICE IN TIME CHARTER NEGOTIATIONS)

TOTAL; FRANCE
(EVALUATION OF SHIPYARD'S PROPOSAL FOR LNG CARRIERS)

CDA; FRANCE
(ASSISTANCE IN IMPROVEMENT AND IMPLEMENTATION OF QA-PROCEDURES)

EON; GERMANY
(ASSISTANCE IN SALES AND PURCHASE AGREEMENTS)

PETROCHINA; CHINA
(ASSISTANCE IN SALES AND PURCHASE AGREEMENTS)

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SOME OF OUR CLIENTS

ADNOC, U.A.E.
ADNATCO, U.A.E.
AGF-MAT, FRANCE
ALGONQUIN GAS TRANSMISSION COMPANY, USA
ARAB INTERNATIONAL GAS & TRANSPORTATION LTD., U.K.
A.R.T.E.C. - DAKAR, SENEGAL
A / S LABOREMUS, NORWAY
ASTILLEROS ALIANZA S.A., ARGENTINA
AMERICAN SUGAR COMPANY, USA

B.A.S.F., GERMANY
B.E.B. - THYSSENGAS, GERMANY
BETHLEHEM STEEL CORPORATION, USA
BLUESKY LNG CORP., TAIWAN
BOELWERF, BELGIUM
BOMBAY PORT AUTHORITY, INDIA
BONNY GAS LTD., NIGERIA
BP - BRITISH PETROLEUM, U.K.
BROSTROEMS LIJNEAGENTUR, SWEDEN
BUNDESMINISTERIUM FUER FORSCHUNG UND TECHNOLOGIE
BURMAH OIL TANKERS, USA

C.A.L.T.R.A.M. / COMPAGNIE ALGÉRO - LIBYENNE DE TRANSPORT MARITIME, ALGERIA
C.A. VENEZOLANA DE NAVIGATION / C.A.V.N., VENEZUELA
CANADIAN LOWELL / UNION GAS, CANADA
CARBOFIN ENERGIA TRANSPORTI SPA, ITALY
CHANTIERS DE L'ATLANTIQUE, FRANCE
CHEMICAL TANKERS OF AMERICA / C.T.A., USA
CHEMIKALIEN SEETRANSPORT GMBH, CST; GERMANY
CHEMTRANS OVERSEAS LTD., CYPRUS
CHINESE PETROLEUM CORP. / C.P.C., TAIWAN
COMPAGNIE MALIENNE DE NAVIGATION / C.M.N., MALI
COMPAGNIE NATIONALE ALGERIENNE DE NAVIGATION / C.N.A.N., ALGERIA
COMPAGNIE MAROCAINE DE NAVIGATION / C.O.M.A.N.A.V., MOROCCO
COMPAGNIE TUNESIAN DE NAVIGATION / C.O.T.U.N.A.V., TUNESIA
CONTIMAR SCHIFFFAHRTS GMBH, GERMANY
CONTINENTAL OIL CO., USA
COSMOPOLITAN SHIPPING, USA
C.S.A.V., CHILE

DAEWOO HEAVY INDUSTRIES LTD., SOUTH KOREA
DEPA, PUBLIC GAS CORPORATION, GREECE
DEUTSCHE SCHACHTBAU, GERMANY
DIERSCH & SCHROEDER, GERMANY
DOW CHEMICAL CO., USA / EUROPE
DYNACOM TANKERS MANAGEMENT LTD, GREECE
DYNA GAS LTD, GREECE

EASCO GAS, USA
ENAGAS, SPAIN
ENELLENGEE LTD., NIGERIA
E.ON RUHRGAS AG, GERMANY
ETHIOPIAN SHIPPING LINE, ETHIOPIA
EUROCHEM SHIPPING N.V., NETHERLANDS
EXMAR N.V., BELGIUM

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SOME OF OUR CLIENTS

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FLOTTA PETROLERA - MEXICANA / F.P.M., MEXICO

GAS STRATEGIES, U.K.
GASVERSORGUNG SUEDEDEUTSCHLAND, GERMANY
GAS NATURAL, SPAIN
GAZ TRANSPORT, FRANCE
GEBR. BROERE B.V., NETHERLANDS
GEO. GIBSON / BIBBY LINE, U.K.
GLOBAL TRANSPORTE OCEANICO, BRASIL
GOTAAS-LARSEN INTERNATIONAL LIMITED, LIBERIA
GAZTRANSPORT & TECHNIGAZ (GTT), FRANCE

HALUL OFFSHORE SERVICES, QATAR
HAMBURGER GASWERKE, GERMANY
HANJIN HEAVY INDUSTRIES LTD., SOUTH KOREA

HUNTING & SON, U.K.
HYUNDAI HEAVY INDUSTRIES LTD., SOUTH KOREA
HUDONG ZHONGHUA SHIPYARD, P.R.o. CHINA
INCO EUROPE LTD., U.K.
INDONESIAN GOVERNMENT, INDONESIA
INGALLS - TAIWAN, TAIWAN
INSTITUTO NACIONAL DE CANALIZACIONES / I.N.C., VENEZUELA
ISLAMIC DEVELOPMENT BANK, SAUDI ARABIA

KOCKUMS, SWEDEN
KRISTIAN JEBSENS REDERI, NORWAY
KRISTEN NAVIGATION, GREECE
K.S.E.C., SOUTH KOREA
KVAERNER - MOSS SHIPYARD, NORWAY
KVAERNER WARNOW WERFT, GERMANY

LATTICE LNG HOLDINGS LTD; U:K:
LINDENAU SHIPYARD, GERMANY
LABOREMUS, NORWAY
LAEISZ, F., GERMANY
LAHMEYER INTERNATIONAL, GERMANY
LINDE ENGINEERING, GERMANY
LIVESTOCK TRANSPORT & TRADING CO. K.S.C. (KLTT), KUWAIT

MAHART HUNGARIAN SHIPPING CO., HUNGARIA
MALAYSIAN INTERNATIONAL SHIPPING CORP. / M.I.S.C., MALAYSIA
MALMROS REDERI A/B, SWEDEN
MAN, GERMANY
MARAN GAS; GREECE
MARAVEN S.A., VENEZUELA
MARITIME ADMINISTRATION / MARAD, USA
MC DONNELL DOUGLAS, USA
MEDTAINER LINE, U.K.
MEYER, P., NORWAY
MINISTRY OF DEFENCE, KUWAIT
MINISTRY OF PLANNING, KUWAIT
MØLLER, A.P., DENMARK
MOWINKEL, NORWAY
MULTINATIONAL GAS AND PETROCHEMICAL SERVICE LTD., U.K.

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NEPTUNE ORIENT LINES, SINGAPORE
NIGERIAN LNG CO. LTD. / NLNG
NIGERIAN NATIONAL PETROLEUM CORP. / N.N.P.C., NIGERIA
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NORMED, FRANCE
NORSK HYDRO A.S., NORWAY
NORTHERN SHIP AGENCIES, USA
NORWEGIAN GAS CARRIER, NORWAY

OCEAN STEAM SHIPPING CO., U.K.
ODENSE STAALSKIBSVAERFT, DENMARK
OFFICE D'EXPLOITATION DES PORTS / O.D.E.P., MOROCCO
OFFICE NATIONAL DES PORTS DU CAMEROUN, CAMEROON
OFFICE NATIONAL DES PORTS / O.N.P., ALGERIA
OSG - OVERSEAS SHIPHOLDING GROUP, USA
OWENS - CORNING, USA
OESTERVOLD, BJOERN, NORWAY
OLSEN & UGELSTAD, NORWAY

PACIFIC GAS AND OIL (RGMI), INDONESIA/SINGAPORE
PACIFIC MARINE ASSOCIATES, USA
PACIFIC INDONESIA, USA
P. & O. STEAM NAV. CO., U.K.
PETROCHINA INTERNATIONAL COMPANY LTD.
PETROLEOS MEXICANOS / PEMEX, MEXICO
PETROMIN - GENERAL PETROLEUM AND MINERAL ORGANIZATION, SAUDI ARABIA
PETRONAS CARIGALI SDN. BHD., MALAYSIA
PETRONET LNG LIMITED, INDIA
PHILADELPHIA GAS WORKS, USA
PHILIPS PETROLEUM COMPANY, USA
P.S.A., THAILAND
P.T. HUMPUSS, INDONESIA
PUBLIC SERVICE ELECTRIC AND GAS CO., USA
PT GRAHA CENTERMINE, INDONESIA

QATAR NATIONAL NAVIGATION AND TRANSPORT CO., QATAR
QATAR SHIPPING CO., QATAR

RASGAS, QATAR
RHEINSTAHL NORDSEEWERKE SHIPYARD, GERMANY
RIJN - SCHELDE - VEROLME, NETHERLANDS
ROSHIPPING / IDI, USA
RUHRGAS A.G. AND SALZGITTER FERNGAS GMBH, GERMANY
RWE-DEA, GERMANY

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S.A.G.A.P.E., EUROPEAN CONSORTIUM
SAIPEM ENERGI INTERNATIONAL SPA, ITALY
SAUDI PETROCHEMICAL COMP. / SADAF, SAUDI ARABIA
SEA PORT AUTHORITY, MINA ZAYED, UAE
SHIPPING CORPORATION OF TRINIDAD & TOBAGO / SCOTT; TRINIDAD & TOBAGO
SILVER LINE LTD., U.K.
SINCLAIR REFINING CO., USA
SIEMENS AG, GERMANY
SNTM HYPROC, ALGERIA
SOCIETE NATIONALE DES CHEMINS DE FER ZAIROIS, S.N.C.Z., ZAIRE
SONATRACH, ALGERIA
SOUTER, W.A. & CO., LTD., U.K.
STEUBER, P.C., USA
STOOMVAAET MIJ. 'NEDERLAND', NETHERLANDS
SUBENTRA, INDONESIA
SUEZ CANAL AUTHORITY
SUMMIT MARINE POPERATION INC., USA
SUNAMAM, BRASIL
SVEA LINE, SWEDEN

TAMPIMEX
TANKER PACIFIC MANAGEMENT / TPM, SINGAPORE
TECHNIGAZ, FRANCE
TENNET OFFSHORE GMBH; GERMANY
THYSSEN KRUPP, BLOHM & VOSS REPAIR, GERMANY
TMS TANKERS LTD., GREECE
TMT / BLUESKY LNG CO., TAIWAN
TRANSKIM OVERSEAS LTD., U.K.
TRANSPORTACION MARITIMA MEXICANA, S.A. DE C.V. / TMM, MEXICO
TRANSWORLD GAS COMPANY, USA
TRIDENT TANKERS CO. (P. & O. GROUP), U.K.
TOTAL, FRANCE

UNION FENOSA, SPAIN
UNITED TANKER CORPORATION, USA

VALMET OY SHIPYARD, FINLAND
VAN OMMEREN, NETHERLANDS

WESTERN LNG ASSOCIATES, USA
WESTDFAL LARSEN, NORWAY
WINTERSHALL A.G., GERMANY
WOODSIDE PETROLEUM, AUSTRALIA
WORLD TRAMPING AGENCY, USA

YUKONG LINE LTD., SOUTH KOREA

ZENIT SHIPPING A.B., SWEDEN
ZORIA COMPAGNIE DI NAVIGAZIONE, ITALY

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MEMBERSHIPS

LNG-INITIATIVE NORDWEST – NETWORK OF INNOVATIONS FOR PROMOTING SHIPPING VIA LIQUEFIED NATURAL GAS

MARITIME CLUSTER NORTHERN GERMANY (MCN)

MARITIME LNG PLATTFORM E. V.

SCHIFFBAUTECHNISCHE GESELLSCHAFT E.V. (STG) – GERMAN SOCIETY FOR MARITIME TECHNOLOGY

SOCIETY FOR GAS AS A MARINE FUEL (SGMF)

VERBAND BERATENDER INGENIEURE (VBI) – GERMAN ASSOCIATION OF CONSULTING ENGINEERS

VERBAND FÜR SCHIFFBAU UND MEERESTECHNIK E.V. (VSM) – GERMAN SHIPBUILDING AND OCEAN INDUSTRIES ASSOCIATION

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Ports & Terminals

Year	Client	Project	Tasks performed
1974 - 1977	EASCO GAS, USA	Newbuilding Planning of an LNG Receiving Terminal	Study on LNG Receiving Terminals and Interface Systems
	Dow Chemicals, Europe	LNG/LPG Receiving Terminal compatibility	Investigation of LNG/LPG Receiving Terminals for compatibility of 125,000 m ³ LNG/LPG Carriers
	Philips Petroleum Co., USA	LNG Receiving Terminal, USA	LNG Receiving Terminal location study
1987 /1990	CPC, Taiwan	LNG Receiving Terminal Yung-An, Taiwan	All ship-shore aspects for design & layout (electric, cargo piping to shore, communication, navigation, mooring, safety), LNG shore piping layout (liquid & vapour)
1990	NLNG, Nigeria	LNG Receiving Terminals Everett (Boston) & Cove Point, USA	Complete Technical Inspection & Technical Due Diligence Survey and Study
1998 / 1999	RasGas, Qatar	LNG Export Project	Due diligence surveys of Qatari LNG Export Project for Lending Banks
1998 / 1999 & 2005	DEPA, Greece	LNG Receiving Terminal Revithoussa, Greece	Advice for terminal location and layout , ship-shore compatibility aspects, mooring arrangements and calculations
2000 / 2001	Union Fenosa, Spain		Evaluation (technical & commercial) of shipping and terminal alternatives
2001	Petronet PLL, India	Dahej LNG Receiving Terminal	Study on safe navigation/operation for terminal departure and approach
2003	LATTICE Group, UK	LNG Receiving Terminal Isle of Grain, UK	Marine Consultancy & Engineering Support Services
2003 / 2004 & 2006	PEC, Indonesia & P.R.China	LNG Receiving Terminal Rudong, P.R.China	Terminal Study on Investigation and determination of terminal and jetty location selection, Layout of jetty, terminal platform and plant, Capacity planning of shore tanks, Evaluation of safe navigation, Ship size assessment, Determination of mooring conditions, Performance of mooring calculations, Operational Feasibility Investigation
2004 / 2005	BMT Asia & CLP, Hong Kong, P.R.China	LNG Receiving Terminal Hong Kong	HAZID & HAZOP studies for navigation approach to terminal locations
2004 to present	RasGas, Qatar	LNG Discharge Surveys	LNG cargo discharge operation surveys in various countries worldwide (e.g. throughout Europe: UK, Belgium, France, Spain, Italy and USA, Mexico, India, Taiwan, South Korea, Japan) (more than 22 LNG receiving terminals)
2005	RWE, Germany	LNG Loading Terminal Damietta & Idku, Egypt	Comparison of LNG Loading Terminals, Study for safe navigation to/from terminals, HAZID/HAZOP, Operational Feasibility Investigation
2005	DFTG / E.On Ruhrgas, Germany	LNG Receiving Terminal Wilhelmshaven, Germany	Marine Studies for DFTG LNG Import Terminal Project Shipping Structure Study, Terminal Layout and Operation Study (availability of terminal and ships, determination of acceptable ship sizes, location and arrangement of jetty, layout of piping systems, ship shore communication systems, marine and operational safety, mooring calculations, HAZID study, review of Risk Assessment Documents) Evaluation of Terminal Proposal Feasibility, Optimization of Terminal Design, Definition of Requirements, Performance of Marine Risk Study, Estimation of Terminal Capacity and Downtime, Development of Strategy for Authority Approval
2005	RasGas, Qatar	LNG Loading Surveys	Operational advisor to loading masters in LNG loading terminal Ras Laffan (Qatar)
2006	BMT Asia & CLP, Hong Kong, P.R.China	LNG Receiving Terminal Hong Kong	Assistance in the Review of LNG operations and Security Issues
2006	RWE, Germany	Re-gasified LNG Receiving Terminals	Feasibility Study on terminal locations for re-gasified LNG in Northern Europe Investigation of accessibility, Risk assessment, Operational and navigational assessment of terminal approaches, Evaluation of safety, etc.
2006	PETROCHINA, P.R.China	LNG import, China; PETROCHINA	Assistance in commercial evaluations and investigations regarding ship and terminal arrangements

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Ports & Terminals

Year	Client	Project	Tasks performed
2006	E.On Engineering, Germany	Crude Oil Export Terminal, Germany	Location selection study for a Crude Oil Export Terminal , ship/shore interface investigations, marine traffic and safety evaluation
2006 / 2007	DFTG / E.On Ruhrgas, Germany	LNG Receiving Terminal Wilhelmshaven, Germany	Assistance during FEED project phase - Review of FEED documents - Review of all marine operation related documents and drawings prepared during FEED phase, Performance of mooring and ship motion calculations, Investigation of environmental impact (dredging, emissions, weather conditions, tide restrictions, marine traffic conditions, etc.), Assistance in Authority Approval of LNG Terminal, Optimisation of marine related terminal layout and shore/shore interfacing.
2007	E.On Ruhrgas, Germany	Krk- Adria LNG Receiving Terminal, Croatia	Study on marine operation aspects of an LNG Import Terminal Performance of site selection investigating alternative locations, assessment of safe navigation, terminal design and jetty layout, performance of mooring calculations ship/shore interface study.
2007	WSD Aurich, Germany & BV Germany	Eemshaven LNG Receiving Terminal, Netherlands	Assessment and Review of Dutch LNG Import Terminal Study including Elaboration and Comparison on safe navigation to port
2007	SAIPEM, Italy	LNG FSRU (Floating Receiving and Regas Terminal) – Adria	Marine Study on safe navigation to/from FSRU, site selection, safe operation, marine risks, operational conditions, safety zones and procedures.
2007 / 2008	DFTG / E.On Ruhrgas, Germany	LNG Receiving Terminal Wilhelmshaven, Germany	Assistance during ITT project phase and Support in establishing application documents for national authorities Preparation of Tender documents, Negotiation of technical offers,
2007 / 2008	Dynagas, Greece	LNG Regas Project	Design and Conversion assistance of an LNG-Carriers into Regas vessels for Brazilian Floating Terminal Projects
2008	LINDE, Germany LYSE GAS, Norway	Stavanger LNG Production and Distribution Terminal, Norway	Jetty design & layout of LNG Export Terminal: Performance of mooring calculations, Preparation of Tender Documents, Selection of equipment including safety & navigational equipment and ship-shore communication equipment, Layout out loading arms and operating ranges, HAZOP for ship/shore operations, Review of Manufacturer documentation.
2005 - 2008		Various Ship-Shore studies	Ship-shore compatibility studies for e.g. HYPROC, DEPA, CST, TMT
2008 / present	Offshore LNG Toscany, Italy	LNG Import/Regas Project (FSRU)	Design and Conversion assistance of and building supervision for an LNG-Carrier converted into a Regas vessels for the Livorno LNG Floating Terminal in Italy
2005 - 2009	PETRONET; RASGAS; DYNACOM/DYNA GAS; HYPROC; DEPA; CST; TMT	Various Ship-Shore interfacing/compatibility studies	Ship-shore interfacing and compatibility studies for terminals at e.g. - Higashi Ogishima, Japan; - Incheon 1+2, Korea; - Tobata, Japan; - Tong Yeong, Korea; - Chita, Japan; - Gwang Yang, Korea; - Futtsu 1+2, Japan; - Guandong Dapeng, PR China; - Hazira, India; - Isle of Grain, UK, - Daheij, India; - Reganosa, Spain; - Dabhol, India; - Revithousa, Greece; - Yung An, Taiwan; - Panagalia, Italy;