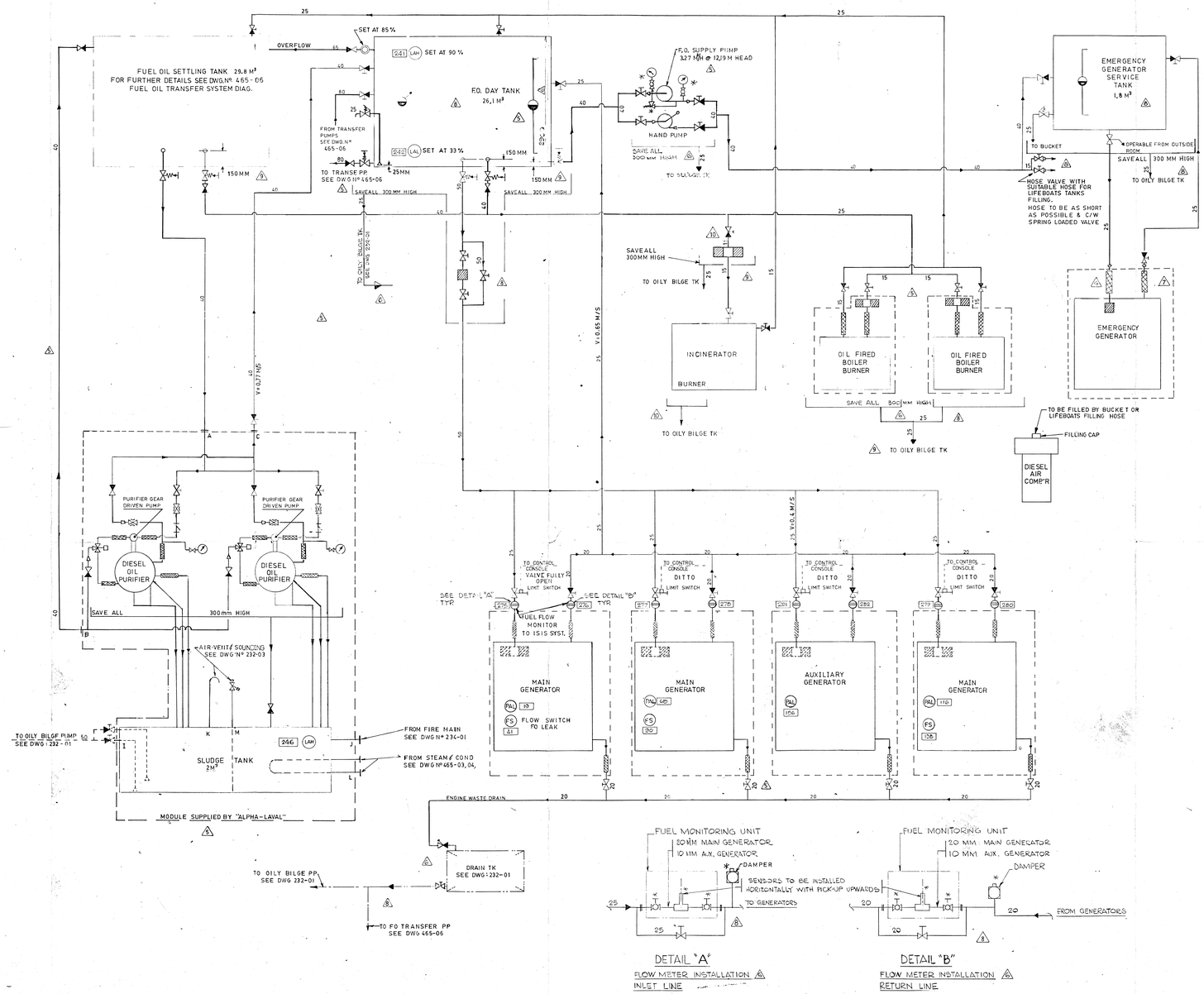

MATERIAL SPECIFICATION

PIPE

SYSTEM	WORK/TEST PRESSURE	DESIGN TEMP	SIZE	MATERIAL	TEST OR CERT.	FLANGE OR CONNECTION	GASKET
FUEL OIL SERVICE	3/6 BAR	35° C	→32MM	SEAMLESS STEEL ASTM A-53 GR B SCH 40 BLACK	LLOYDS CERT	SOCKET WELD GROUND JOINT UNION	
			40MM→			FLANGED 150# ASA	NEOPRENE OR EQUAL

VALVES

SYSTEM	TYPE	SIZE	BODY MATERIAL	TRIM MATERIAL	BONNET TYPE	CONN.
FUEL OIL SERVICE	ALL	→25MM	BRONZE	BRONZE	UNION	
		32MM→			BOLTED	FLANGED 150# ASA

ADDITIONAL REQUIREMENTS

1.)

2.) ALL QUICK CLOSING VALVES TO BE OPERABLE FROM A SAFE POSITION OUTSIDE OF MACHINERY SPACE & PROVIDED WITH OPEN/SHUT INDICATORS.

3.) ALL PURIFIERS, FILTERS, VALVE MANIFOLDS, ETC. TO BE FITTED WITH STEEL DRIP PANS, PORTABLE WHERE POSSIBLE.

4.) FUEL OIL PURIFIERS TO BE CAPABLE OF BEING STOPPED OUTSIDE OF THE MACHINERY SPACE

5.) FLEXIBLE PIPES TO BE LLOYDS TYPE APPROVED.

6.) NUMBERS INDICATED IN RECTANGLES [ ] REFER TO LIST OF CHANNELS ISSUED BY ELECTRICAL ENGINEERING DEPARTMENT.

8.) A COMPLETE SPARE MAIN ENGINE FUEL PUMP TO BE PROVIDED.

9.) HIGH PRESSURE FUEL INJECTION PIPE TO BE SHIELDED AS PER CLASSIFICATION SOCIETY RULES.

7) ALL SERVICE TANKS TO BE FITTED WITH "SEE THRU" LEVEL GAUGES, FITTED WITH SELF-CLOSING VALVES AND TO COMPLY LLOYD'S REG. PART 5, CHAP 13, SEC. 10.11.5

8) ITEMS MARKED THUS # ARE SUPPLIED WITH EQUIPMENTS

9) SENSORS FOR MONITORING AND ALARMS ON THE EQUIPMENT TO BE PROVIDED BY SUPPLIERS IN ACCORDANCE WITH SHIP SPECIFICATION

PURIFIER DATA

Nº OFF	TYPE	CAPACITY	DISCHARGE PRESSURE
2	CENTRIFUGAL, SELF SLUDGING.	2900 L/H	

REV	DATE
REVISIONS	
LLOYDS .22/7/82	
APPROVAL	

SAINT JOHN MARINE CONSULTANTS LIMITED
NAVAL ARCHITECTS MARINE ENGINEERS

"TYPE 1100 NAVAIDS TENDER / LIGHT ICEBREAKER

FUEL OIL SERVICE SYSTEM DIAGRAM

FOR— CANADIAN COAST GUARD

DRAWN BY LEROY VINCENT	DATE MAY 1982	CHECKED BY
SCALE N.T.S		REV. Nº 0
PROJECT Nº 8162		DWG.Nº 503-000 SHT.2

GR	IT	DESCRIPTION

REFERENCES

NO.	TITRE/TITLE	DESSIN/DWG	F/SH
1	BILGE AND BALLAST DIAGRAM	ASSOC: 232-01	1
2	AIR VENT AND SOUNDING DIAGRAM	" 232-03	1
3	FIRE SYSTEM DIAGRAM	" 234-01	1
4	STEAM SYSTEM DIAGRAM	" 465-03	1
5	CONDENSATE & FEED SYSTEM DIAGRAM	" 465-04	1
6	FUEL OIL TRANSFER DIAGRAM	" 465-06	1

POUR MATERIEL VOIR/FOR MATERIAL REFER TO

NOTES

NO	ZN	CODE	DESCRIPTION	PAR/BY	DATE
11			AS FITTED UP TO 450	A.L	86.06.27
10			VALVE BEFORE INCINERATOR DUPLEX FILTER NOW SDNR INSTEAD OF S.L. BURNER INCINERATOR SAVE ALL DRAIN TO OILY BILGE TANK	A.L	86.06.27
9			SAVEALL UNDER BOILER BURNER DRAIN TO OILY BILGE TK INSTEAD OF SLUDGE SAVE ALL ADDED UNDER INCINERATOR DUPLEX FILTER, SUCTION HIGH DIMENSION FROM BOTTOM OF F.O. TANKS ADDED.	A.L	86.02.18
8			SIMPLEX FILTER BY PASS LINE ADDED ON F.O. SUPPLY LINE TO MAIN & AUX GENERATOR SAVE ALL ADDED FOR EMERGENCY GENERATOR SERVICE TANK, CAPACITY OF TANKS ADDED, ADDITIONAL FILLING HOSE VALVE FOR LIFE BOAT ADDED SAVE ALL FOR BOILER MODIFIED AND SIZE OF DRAIN ADDED. FLOW METER INLET & OUTLET VALVE BALL TYPE INSTEAD OF GLOBE DAMPER FOR FLOW METER INLET PIPING TO GENERATOR ADDED REFERENCES LIST COMPLETED.	A.L	85.08.28
7			FLEXIBLE ADDED AT EMCY GENTR F.O. RETURN LINE	A.L	85.07.8
6			FLEXIBLE ADDED AT EMERGENCY GEN HIGH OF F.O. DAY TK ADDED FLOW METER INSTALLATION DETAIL A & B ADDED REFERENCE ADDED ON DRAIN TK, DRAIN FROM F.O. DAY TK SAVE ALL WAS TO DRAIN TK. SAVE ALLS ADDED AT BOILER BURNERS & EMERG. GEN. F.O. SUPPLY AND HAND PUMPS. NOTE. REQUIREMENTS "6 ADDED. ALARM SENSORS NUMBERS ADDED.	PDM	86.06.02
5			SUPPLY LINE TO OIL FIRED BOILER BURNER MODIFIED. LEVEL INDICATOR ADDED IN FUEL OIL DAY TANK. SENSORS FOR MONITORING AND ALARMS ADDED. F.O. DAY TANK CONN. HEIGHT ADDED PURIFIER DISCH LINE TO EMCY GENTR SERVICE TK DELETED. INCINERATOR F.O. INLET AND OUTLET MODIFIED DRAW OFF SELF CLOSING VALVE ADDED ON F.O. DAY TK. F.O. SUPPLY PUMP DISCH LINE TO EMCY GENTR. SERVICE TK ADDED PIPING FOR EMPTYING F.O. DAY TK ADDED. D.O. PURIFIER DISCH LINE TO F.O. SETTLING TK ADDED. PURIFIER MODULE PIPING MODIFIED. NOTE 8, 9 ADDED	A.L	18-6-84
4			REVISED AS PER LLOYD'S LETTER FROM JAN. 24/84	D.B	25-4-84
3			RETURN LINE FROM INCINERATOR ADDED DISCHARGE LINE FROM PURIFIERS TO F.O. SETTLING TANK DELETED SUPPLY LINE FROM SETTLING & DAY TANKS TO INCINERATOR & BOILER BURNERS ADDED R/O SELENOID VALVES ON PURIFIERS SUCTION LINES DELETED INCINERATOR & BOILER F.O. TANKS DELETED & PIPING RE-ARRANGED COALESCER FILTERS DELETED AIR VENT & SOUNDINGS DELETED & SHOWN ON SEPARATED DIAGRAM	D.B	20-12-83
2			NOTE 7 CHANGED. VALVES' CONNECTIONS CHANGED TO FLANGED AS PER LLOYD'S LETTER FROM OCT. 19/83	D.B	27-10-83
1			* ADDITIONAL REQUIREMENT Nº 10 ADDED AS PER C.C.G. LETTER FROM 14/09/83	N.P.	83/10/04
A			M.I.L. DWG 4601/465-03 SH 1 SUPERSEDES SUBMC DWG 503-000 SH 2 PROJET 8162	JPC	83/11/16

REVISIONS

APPROBATIONS/APPROVALS

	SOU SUB	APP	REV 3	REV 4	REV	REV	REV
CLASSING HDS	15-09-83	13-10-83	2-11-84				
DCC/CCG	11-10-83	25-10-83	30-11-84				
PROP-OWN	1-02-84			9.01.85			

MARINE INDUSTRIE LIMITEE
SOREL, P.Q. CANADA

TYPE 1100 NAVAIDS TENDER/LIGHT ICEBREAKER

FUEL OIL SERVICE SYSTEM DIAGRAM

FAB BY	APPR	CONT NO	DESSIN DWG	REV
VERICK	RENISC	450 / 451	465-07	11
	DATE 83.09.14			F/SH 1/1

FORMAT ISO A0/15

SJMCL 101