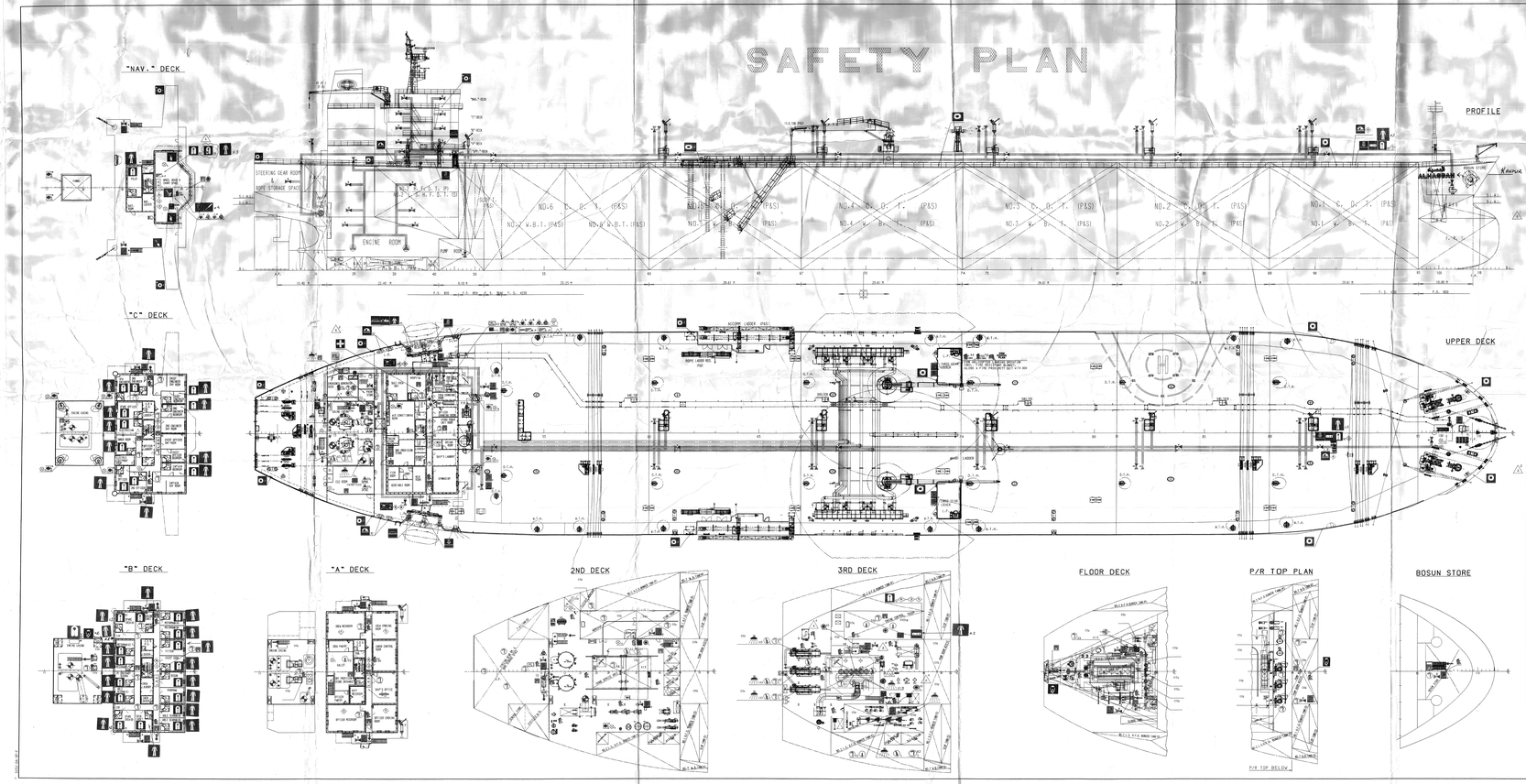
SAFETY PLAN



LIFE SAVING DEVICE

SYMBOL	DESCRIPTION	TYPE	QTY	LOCATION
(STBD)	LIFE BOAT	STBD:(4500X2200X1200)MM FOR SUPERS. CAPACITY 150 PERS. WITH WATER COOLED DIESEL ENGINE.	2	UPPER DECK (P & S) (AT SAME CHANNEL WITH MOULDED BOAT PORT SIDE)
(PORT)	BOAT (MOT)	MOULDED GRAVITY TYPE	2	
(STBD) (PORT)	DAVIT MOTOR	DRIVEN BY FIXED ELEC.MOTOR	2	
	LIFE RAFT	FOR (APERS): STOWED IN F.R.P. CONTAINER WITH HYDRAULIC RELEASE UNIT	A	UPPER DECK (P & S)
		FOR (APERS): STOWED IN F.R.P. CONTAINER WITH MANUAL QUICK RELEASE UNIT	1	UPPER DECK (FWD.
	EVACUATION SLIDER	FOR 16 PERS.(LIFE RAFT)	2	UPPER DECK (P & S)
		FOR 6 PERS.(LIFE RAFT)	1	UPPER DECK (FWD.
	LIFE BUOY	WITH SELF-IGNITING LIGHT AND SELF-ACTIVATING SMOKE SIGNAL WITH QUICK RELEASING DEVICE	2	(MAX.8M).WING (P & S)
		WITH SELF-IGNITING LIGHT	5	UPPER DECK
		WITH A LIFE LINE 30M	8	UPPER DECK
	LIFE JACKET	ADULT TYPE FOR ADULT PERSONNEL WITH SELF-IGNITING LIGHT	[illegible]	TO EACH ACCOMODATION, 2-WHEEL HOUSE, 2-UPPER DECK (FWD. 2-CHIEF ENGINEER ROOM
	LIFE JACKET FOR CHILDREN	LIFE JACKET (SUNDER SUPPLY) WITH LIGHT FOR CHILDREN ON EACH ADULT TYPE FOR CHILDREN	14	WHEEL HOUSE
	LIFEJACKET	FOR 6 PERSONS. PART'L STEEL	1	UPPER DECK (FWD.
		FOR 2 PERSONS. PART'L WOODEN	1	ENGINE CONTROL ROOM
	IMMERSION SUIT	WITH LIGHT AND WHISTLE	24	[illegible]
	PORTABLE VHF TRANSCEIVER	MAKER = JRC TYPE = JHS-7	2	WHEEL HOUSE
	E.P.I.R.B	MAKER = JRC TYPE = 1R3A 406	2	NAV.DECK (STBD)
	RADAR TRANSPONDER	MAKER = JRC TYPE = JCI-304	2	IN WHEEL HOUSE
	SIGNAL	ROCKET PARACHUTE FLARES (10EA)+(2EA)	12	IN WHEEL HOUSE
	LINE THROWING APPLIANCE	FOUR(4) PROJECTILE AND LIFE LINE (MIN 230M LENGTH)	4	IN WHEEL HOUSE
		LIFE BOAT DAVIT WINCH (MAX.150 PASSENGER)	2	UPPER DECK (P & S)
	INSTRUCTION PLATE	LIFE RAFT LAUNCHING PROCEDURE	3	1-UPPER DECK (FWD. 2-UPPER DECK (P & S)
		MUSTER LIST	6	4-MAIN DECK, 1-WHEEL HOUSE 1-C.E. RM.
		CONTAINS INSTRUCTION FOR LIFE JACKET	3	4-MAIN DECK, 1-WHEEL HOUSE 1-C.E. RM., 1-UPPER DECK (FWD.
	TRAINING MANUAL	COMPLYING WITH THE REQUIREMENTS OF CHAPTER III-RULES OF THE SOLAS 1974 AND AMENDMENT UP TO 2000.	5	4-CREW MESS, 1-C.E RM. 1-MAIN SMOKING ROOM, 1-CREW MESSROOM, 1-CHIEF OFFICER'S ROOM 1-C.E RM INTERCOM
(L.S.A)	LIFE SAVING LOCKER	COATED BY ACRYL	5	4-MAIN DECK, 1-WHEEL HOUSE
	MUSTER STATION		1	UPPER DECK (PORT)
			1	UPPER DECK (STBD)
	MEDICAL LOCKER	CHIEF'S SUPPLY	1	UPPER DECK (IN HOSPITAL)

MECHANICAL VENTILATION FAN LIST

SYMBOL	CAPACITY	PURPOSE	LOCATION	QTY.
(S)	600 M^3/HOUR	NO.1 E/R SUPPLY(NON-HEAVERSIBLE)	2-DECK	1
(S)	930 M^3/HOUR	NO.2 E/R SUPPLY(NON-HEAVERSIBLE)	2-DECK	1
(S)	930 M^3/HOUR	NO.3 E/R SUPPLY(REVERSIBLE)	2-DECK	1
(S)	930 M^3/HOUR	NO.4 E/R SUPPLY(REVERSIBLE)	2-DECK	1
(S)	9 M^3/MIN	M/R WINDW DEFROSTING SUPPLY	NAV.-DECK	2
(E)	97 M^3/HOUR	SANITARY EXHAUST	2-DECK	1
(E)	50 M^3/HOUR	GALLEY EXHAUST	4-DECK	1
(S)	20 M^3/HOUR	GALLEY SUPPLY	UPPER-DECK	1
(E)	200 M^3/HOUR	PURIFIER ROOM EXHAUST	2ND-DECK	1
(E)	15 M^3/HOUR	WELDING SPACE EXHAUST	2ND-DECK	1
(E)	5 M^3/HOUR	ENGINE ROOM TOILET EXHAUST	2ND-DECK	1
(S)	250 M^3/HOUR	STEERING GEAR ROOM SUPPLY	UPPER DECK AFT	1
(E)	147 M^3/HOUR	BOSUN STORE SUPPLY	BOSUN STORE	1
(E)	19 M^3/HOUR	CO2 ROOM EXHAUST	UPPER-DECK	1
(E)	4 M^3/HOUR	GARBAGE LOCKER EXHAUST	UPPER-DECK	1
(E)	4 M^3/HOUR	PAINT STORE EXHAUST	UPPER-DECK	1
(E)	380 M^3/HOUR	NO.1 CARGO PUMP RM. EXHAUST(NON-REVERSIBLE)	UPPER DECK(STBD)	1
(E)	380 M^3/HOUR	NO.2 CARGO PUMP RM. EXHAUST(NON-REVERSIBLE)	UPPER DECK(PORT)	1

FIRE FIGHTING DEVICE

SYMBOL	DESCRIPTION	HULL PART: UPPER DECK	HULL PART: MAIN DECK	HULL PART: 2ND DECK	HULL PART: 3RD DECK	ENGINE ROOM ACCOMMODATION: CARGO CONTROL ROOM	ENGINE ROOM ACCOMMODATION: ENGINE CONTROL ROOM	ENGINE ROOM ACCOMMODATION: PUMP ROOM	ENGINE ROOM ACCOMMODATION: ENGINE ROOM	ENGINE ROOM ACCOMMODATION: A.C.ROOM	ENGINE ROOM ACCOMMODATION: WORKSHOP	ENGINE ROOM ACCOMMODATION: STORE	ENGINE ROOM ACCOMMODATION: TUNNEL	TOTAL
A.SEA WATER HYDRANT/FIXED FOAM FIRE EXTINGUISHING SYSTEM														
	BILGE/FIRE AND G/S PUMP (240Q=70 M^3/H x 35.00 M)H							2						2
	EMERGENCY FIRE PUMP (72 M^3/H x 80 M)H													1
	FIRE & FOAM MAIN													1
	FOAM MONITOR	5							2					7
	FIRE VALVE WITH HOSE COUPLING(150A)	15	1	1	1	2	2	2	2	2	2	2	2	22
	STOP VALVE FOR FIRE MAIN	8							3					11
	FOAM VALVE WITH HOSE COUPLING(50A)	12												12
	STOP VALVE FOR FOAM MAIN	12												12
	FOAM TANK (3000L)													1
	SPACES PROTECTED BY DRENCHING SYSTEM			2										2
	HOSE BOX-REEL WITH SPRAY/JET FIRE NOZZLE	FIRE HOSE BOX WITH SPRAY/JET FIRE NOZZLE (15m, 19m, 20m HOSE)								ACCOM.	1	1		2
										STORES	1	8		9
		FIRE HOSE REEL WITH SPRAY/JET FIRE NOZZLE (INCLUDING FIRE HOSE)				1	2	2	2	15m HOSE	1			8
										19m HOSE	1			1
	FOAM BOX WITH PORTABLE FOAM BRANCH PIPE (150L) AND (20L) HOSE	4												4
	INTERNATIONAL SHORE CONNECTION													1
B.FIRE EXTINGUISHER														
	PORTABLE FOAM FIRE EXTINGUISHER (6L)	1	1	1	1	2	6	6	1	2	2	2	2	28
	PORTABLE DRY POWDER FIRE EXTINGUISHER (12KG)	4												4
	PORTABLE CO2 FIRE EXTINGUISHER (5.5KG)	5				1			1	1	2		1	11
	WHEELED FIRE EXTINGUISHER (45L)												1	1
	WHEELED FIRE EXTINGUISHER (135L)						1							1
	PORTABLE FOAM APPLICATOR (5 INJECTOR TYPE WITH SPARE TANK (20L)	1							1					2
	SPARE CHARGE FOR ALL PORTABLE FIRE EXTINGUISHERS	1							1					2
C.FIREMAN'S OUTFITS														
FIREMAN'S OUTFIT LOCKER	SELF-CONTAINED COMPRESSED AIR BREATHING APPARATUS WITH FULL FACE MASK	*		1				2						3
	HEAT RESISTING PROTECTIVE SUIT, FIRE AXE	*		1				2						3
	NON CONDUCTIVE BOOTS, GLOVES, RIGID HELMET AND SAFETY LINE SAFETY LAMP	*		1				2						3
	EMERGENCY ESCAPE BREATHING DEVICE(INCLUDING 2-SPARES PURPOSE)	2				1	2	2	1	2		2		12
D.REMOTE CONTROL DEVICE														
	REMOTE SHUT-OFF FOR E/R VENTILATION(F/V FUEL OIL PUMP&PURIFIER AND ETC)							2						2
	REMOTE VENTILATION SHUT OFF (* = ACCOMMODATION , BLUE COLOR , PINK COLOR = MACHINERY SPACE , GREEN COLOR)							1						1
	START/STOP SWITCH FOR BILGE/FIRE AND G/S PUMP							1						1
	START/STOP SWITCH FOR EMERGENCY FIRE PUMP							1						1
	FIRE DAMPER IN VENT DUCT					1	1	2						4
E.ALARM BELL/HORN/BUTTON/DETECTOR														
	SPACES PROTECTED BY SMOKE DETECTOR	2	1	7	4	3	11	10	12	3	4	7	8	67
	SPACES PROTECTED BY FLAME DETECTOR					2								2
	MANUALLY OPERATED CALL POINT	3	1	1	1	2	3	3	6	4	4	4	4	36
	PUSH BUTTON FOR GENERAL & GENERAL EMCY ALARM							1		1				2
	SPACES PROTECTED BY THERMAL DETECTOR					1	3			2			1	7
F.CO2 FIRE EXTINGUISHING SYSTEM/OTHERS														
	CO2 BOTTLE UNIT(45KG)	187												187
	SPACES PROTECTED BY CO2			1		4	18	16	20					59
	CO2 RELEASE STATION	2							1					3
	FIRE CONTROL AND LIFE SAVING PLAN (FRAMED METAL PHOTO+1SET ONLY)	1							1					2
	FIRE ALARM CENTRAL PANEL								1					1
	FIRE ALARM REPEATER PANEL								1					1
	EMERGENCY GENERATOR								1					1
	EMERGENCY SWITCHBOARD								1					1
	SMART SAS INSTALLATION								1					1
G.FIXED WATER BASED LOCAL FIRE FIGHTING SYSTEM														
	WATER MIST INSTALLATION(PUMP CAPACITY=100L/M.x 70BAR)						1							1
	SMOKE DETECTOR					5	4	8						17
	FLAME DETECTOR					3	2	4						9
	MAIN CONTROL PANEL							1						1
	LOCAL CONTROL BOX						1	2	1	5				9
	WATER MIST NOZZLE					3		1	5					9
H.FIRE PROTECTION DIVISION/ESCAPE ROUTE														
	"A" CLASS DIVISION													
	"B" CLASS DIVISION													
	"A" CLASS FIRE DOOR													
	"A" CLASS FIRE DOOR(SELF-CLOSING)													
	"B" CLASS FIRE DOOR													
	"B" CLASS FIRE DOOR(SELF-CLOSING)													
	PRIMARY MEANS OF ESCAPE													
	SECONDARY MEANS OF ESCAPE								1					1

FIXED FIRE EXTINGUISHING SYSTEM (Gaseous Co2)
(FOR ENGINE ROOM AND MACHINERY SPACE)

CARBON DIOXIDE GAS IS TO BE USED AS A FIRE EXTINGUISHING MEDIUM FOR THE ENGINE ROOM(INCLUDING PURIFIER ROOM) AND PUMP ROOM. THE FIXED PIPING TO BE LED TO THE CO2 GAS CYLINDERS LOCATED IN THE CO2 ROOM. EACH TWO(2) SETS OF MASTER CONTROL BOX FOR ENGINE ROOM(INCLUDING PURIFIER ROOM) AND PUMP ROOM TO BE LOCATED IN CO2 ROOM AND PUMP ROOM & FIRE CONTROL STATION RESPECTIVELY.
CO2 DISCHARGE ALARMS TO BE INSTALLED IN THE MACHINERY SPACE AND PUMP ROOM TO WARN THAT PERSONNEL TO EVACUATE FROM SUCH SPACES PRIOR TO DISCHARGE OF CO2 GAS.

PLAN HISTORY

DATE	REV.NO	DESCRIPTION	DRAWN	CHKD
2003-10.30	A	ORIGINALLY APPROVED BY SHOP MOD. SECTION & DNV(PRELIMINARY)		
2003-11-10	B	REVISED TO COMPLY & COMMENTS BY DNV. 1. ADDED STANDS OF LIFE JACKET FOR CHILDREN IN ACCOMODATION AS CLASS COMMENT BY DNV(NO. 2) 2. ADDED STANDS OF MEDICAL LOCKER IN HOSPITAL OF ACCOMODATION AS CLASS COMMENT BY DNV(NO. 3) 3. ADDED STANDS OF FOAM CONTROL PANEL FOR WATER BASED LOCAL FIRE FIGHTING SYSTEM IN ENGINE ROOM AS CLASS COMMENT BY DNV(NO. 4) 4. ADDED STANDS OF LOCAL CONTROL PANEL FOR WATER BASED LOCAL FIRE FIGHTING SYSTEM IN STORES AND WORKSHOP AS CLASS COMMENT BY DNV(NO. 5)	C.Y.JUNG	S.H.CHOI
2004-11-26	C	REVISED FOR DNV & NKK	C.Y.JUNG	S.H.CHOI
2005-07-12	D	REVISED TO COMPLY WITH IMO RESOLUTION MSC.98(73) 1. ADDED 2 SETS OF WATER MIST NOZZLES ON THE MACHINERY SPACE & MOTOR ROOM AND ONLY ONE FOR ENGINE ROOM IN ACCORDANCE WITH MSC.98(73) & MSC.1/CIRC.1165 2. ADDED 2 SETS OF MANUAL CONTROL BOX FOR WATER MIST SYSTEM IN ENGINE ROOM 3. ADDED 2 SETS OF SMOKE DETECTOR FOR EACH 50 M(TYPE 2) IN ACCOMODATION & W/SHOP. 4. ADDED 2 SETS OF MANUAL CONTROL BOX FOR WATER MIST SYSTEM IN ACCOMODATION & W/SHOP. 5. ADDED 2 SETS OF FIRE DETECTOR FOR ENGINE ROOM & ACCOMODATION. 6. ADDED 2 SETS OF FIRE DETECTOR FOR ENGINE ROOM & ACCOMODATION. 7. ADDED 2 SETS OF WATER MIST NOZZLE FOR ENGINE ROOM & ACCOMODATION. 8. ADDED 2 SETS OF WATER MIST NOZZLE FOR ENGINE ROOM & ACCOMODATION.	C.Y.JUNG / J.B.YOON	S.H.CHOI / H.S.CHOI
2005-11-28	E	REVISED FOR FINISHED PLAN.	C.Y.JUNG / J.B.YOON	S.H.CHOI / H.S.CHOI

1. PRINCIPAL DIMENSION
   - LENGTH. O. A. ---------- 244.0 M
   - LENGTH. B. P. ---------- 234.0 M
   - BREADTH MLD. ---------- 42.00 M
   - DEPTH MLD. ---------- 21.0 M
   - DRAUGHT MLD. (DESIGN) ---------- 13.6 M
   - DRAUGHT MLD. (SCANTLING) ---------- 14.9 M
2. CLASSIFICATION : DNV
3. NATIONALITY: QATAR
4. COMPLEMENT OF LIFE SAVING APPLIANCE: 30 PERSONS

APPROVED
Det Norske Veritas
[redacted]

LLOYD'S REGISTER
APPROVED
2005.11.11
CLASS
FOR APPROVAL

IMO 9290771

SHIP NO.	S252
DESIGNER	SHIP DESIGN OFFICE
CL. NO.	HULL OUTFITTING DESIGN DEP'T
APPROVED BY	K. S. LEE
	J. H. CHUN
DWG BY	J.B.YOON / H.M.CHO
CHKD BY	C.Y.JUNG / S.H.CHOI
	H.S.CHOI / J.S.BAE

TYPE: 250,000 DWT CLASS CRUDE OIL CARRIER
SHIP NAME: BOURGUM CIRCUIT
EX-ALHASNAM
TITLE: GENERAL ARRANGEMENT
SAFETY PLAN
SCALE: 1/200
DWG NO: 30-7000-100
DATE: 2005.10.14
CONSOLIDATED NO: 0-16

SAMSUNG HEAVY INDUSTRIES CO., LTD.
GEOJE SHIPBUILDING DIVISION, KOREA