

ABS Record Of APPROVED GMDSS RADIO INSTALLATION

To meet the provisions of the
INTERNATIONAL CONVENTION FOR THE SAFETY OF LIFE AT SEA, 1974, AND
AMENDMENTS THERETO

This form must be kept on board and be available for inspection by a nominated Surveyor or recognized organization at all times.

Name of Ship	Nationality/Port of Registry	Gross Tonnage	Date Keel Laid	IMO Number
GEOEXPLORER	Freeport, TX	541	DELIVERY DATE: <u>JAN - 1982</u> <small>ABS SURV 4 P. 1</small>	8107921
Builder	Class Register No	Type of ship ¹⁾	Class	
MISSISSIPPI MARINE TOWBOAT CORP.	8202335	Cargo Ship	8202335	

Signal letters and identification codes:

Call Sign: WDA6456

MMSI No. 369551000 Radiotelex (NBDP) No. 369551000

INMARSAT-C No. 436955110 INMARSAT-A²⁾ / B No. _____

INMARSAT-F77 No. _____ 2nd INMARSAT-C No. _____

Sea area in which vessel is certified to operate:

A1
 A1+A2
 A1+A2+A3 (INMARSAT)
 A1+A2+A3 (MF/HF)
 A1+A2+A3+A4

Maintenance Requirements (check all that apply):

Duplication of equipment
 Shore-based maintenance
 At-sea maintenance

Radio Station License (ITU RR Art. 18, App. 16):

Issuing by: FEDERAL COMMUNICATION COMMISSION

YES NO N/A

Exemptions relating to GMDSS installation YES NO N/A

No.

1. General requirements for the radio installation

1.1	Is an adequate illumination of the radio controls for operating the radio installation available and supplied by the reserve source of electrical power? (IV/6.2.4, 13.5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.2	Are the vessel's call sign, ship station identity and other codes, as applicable, for use of the radio station clearly marked? (IV/6.2.5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.3	Is the radio installation protected from adverse environmental conditions? (IV/6.2.3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.4	Is the radio installation so located that no harmful interference affects its proper use and so located to ensure the greatest possible degree of safety and operational availability? (IV/6.2.1, 6.2.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.5	Are radio logs and all documents prescribed in the radio regulations provided? (IV/17, ITU RR App.16)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.6	Are adequate spares and service/operation manuals for all radio equipment provided? (IV/15)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

1) Additionally, ITU symbols designating classes of ships may be inserted.
2) Service will be withdrawn on 31 December 2007.

YES NO N/A

1.7	Is control of VHF channels, required for navigational safety, immediately available at the workstation for navigating and maneuvering? (IV/6.3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.8	Are the equipment providing ship's position and heading, if necessary, supplied by the reserve source of electrical power? (IV/13.8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.9	Is it possible to activate the distress alerts and to receive incoming distress calls at the navigating bridge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.10	Is approved documentation on radio installation (antenna and radio arrangement drawings, electrical wiring diagrams, battery capacity calculation, proof of type approval) available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Sources of energy

2.1	Main source of electrical power (II-1/41, IV/13)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.2	Emergency source of electrical power available for (II-1/42, 43, IV/13): <input type="checkbox"/> 36 hours (Passenger ships) <input type="checkbox"/> 18 hours (Cargo ships)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2.3	Reserve source of electrical power available for (IV/13): <input type="checkbox"/> 1 hour <input checked="" type="checkbox"/> 6 hours	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.4	Reserve source is independent of the propelling power of the ship and the ship's electrical system (Reg. IV/13.3)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2.5 Battery (IV/13):

Type (e.g. Pb-Acid):	Voltage:	Capacity:	Location:
Pb-ACID	24 V	200AH Ah	IV/13.1 Bridge Deck STBD

2.6	Automatic charger (IV/13): Maker and type: NEWNAR P1-24-20CE Full charge current: 20A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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2.8	Audible and visual alarm indicating an interruption of the ship's supply as well as any failure of power supply units, charger and/or the UPS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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No.	Maker	Type	Approved by/ Cert. No./Serial No.
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3. Radio installation-Basic equipment (IV/7 and 8, 9, 10 or 11)

3.1	VHF -DSC controller -DSC watch receiver -Transmitter/receiver	FURUNO	FM-8500	FCC-ADB9ZWF8500/2597-6049
3.2	MF -DSC controller -DSC watch receiver -Transmitter/receiver			
3.3	MF/HF -DSC controller -DSC watch receiver -Transmitter/receiver -Direct-printing telegraphy	FURUNO	FM-2570	FCC-ADB9ZWF2570/2597-6046
3.4	Ship Earth Station (SES) <input type="checkbox"/> Inmarsat-C <input type="checkbox"/> Inmarsat-			

No.	Maker	Type	Approved by/ Cert. No./Serial No.
3.5 Secondary means of alerting (IV/8, 9, 10 or 11)			
3.5.1	VHF -DSC controller -Transmitter/receiver		
3.5.2	MF -DSC controller -Transmitter/receiver		
3.5.3	MF/HF -DSC controller -Transmitter/receiver		
3.5.4	Ship Earth Station (SES) <input type="checkbox"/> Inmarsat-C <input type="checkbox"/> Inmarsat-		
3.5.5	Satellite EPIRB: <input checked="" type="checkbox"/> Cospas/Sarsat <input type="checkbox"/> Inmarsat-E ³⁾	ACR RLB-32	FCC-B688C2ACR-RLB-32/ 43848
3.6 Facilities for reception of Maritime Safety Information, MSI (IV/7.1.4, 7.1.5)			
3.6.1	NAVTEX receiver	FURUNO NX-500	FCC-ADB9ZWNX500/8520-2356
3.6.2	EGC receiver	FURUNO FELCOM-12	ADBZWFELCOM12/3511-5438
3.6.3	HF direct-printing telegraphy receiver		
3.7 Satellite EPIRB			
3.7.1	Cospas/Sarsat Number: 1 Location: PORT WING BRIDGE WING	ACR RLB-32	FCC-B688C2ACR-32/43848
3.7.2	Inmarsat -E ³⁾ Number: Location:		
3.7.3	Hydrostatic release unit	NAMMER H-20	
3.7.4	<input type="checkbox"/> Satellite EPIRB described in 3.7.1/3.7.2 is used as secondary means of alerting, and has been installed close to, or by remote activation from, the position from which the ship is normally steered.		
3.7.5	When 3.7.4 in 'not selected' 2nd Satellite EPIRB <input type="checkbox"/> Cospas/Sarsat <input type="checkbox"/> Inmarsat-E ³⁾ Location:		

³⁾ Service will be closed from 1 December 2006.

3.8 9 GHz radar transponder

Location:

- This set is one of those required by Reg. III/6.2.2 for survival craft (see entries of item 6. below)

No.	YES	NO	N/A
3.9 Additional requirements for passenger ships (IV/6.4, 6.5, 6.6, 7.2)			<input checked="" type="checkbox"/>
3.9.1 Distress panel for initiating distress alert at conning position	<input type="checkbox"/>	<input type="checkbox"/>	
3.9.2 Distress alarm panel for indicating received distress alert at conning position	<input type="checkbox"/>	<input type="checkbox"/>	
3.9.3 3.9.1 and 3.9.2 substituted by location of all DSC encoder at conning position	<input type="checkbox"/>	<input type="checkbox"/>	
3.9.4 Continuous and automatic provision of ship's position to relevant radio equipment	<input type="checkbox"/>	<input type="checkbox"/>	
3.9.5 Satellite EPIRB of item 3.7 is used as secondary means of alerting	<input type="checkbox"/>	<input type="checkbox"/>	
3.9.6 When 3.9.5 is "YES"- Remote activation of satellite EPIRB of item 3.7	<input type="checkbox"/>	<input type="checkbox"/>	
3.9.7 When 3.9.6 is 'NO'- 2nd Satellite EPIRB <input type="checkbox"/> Cospas/Sarsat <input type="checkbox"/> Inmarsat-E ³⁾	<input type="checkbox"/>	<input type="checkbox"/>	

	Maker	Type	Approved by/ Cert. No./Serial No.
3.9.8 Two-way radiotelephone apparatus for aeronautical frequencies (121.5 MHz and 123.1 MHz)			

No.	Maker	Type	Approved by/ Cert. No./Serial No.
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4. Radio installation-Duplicated equipment (IV/15, IMO Resolution A.702(17))

4.1 VHF -DSC controller -Transmitter/receiver	FURUNO	FM-8500	FCC-ADBZWFFM8500/2597-6046
4.2 MF -DSC controller -Transmitter/receiver			
4.3 MF/HF -DSC controller -Transmitter/receiver -Direct-printing telegraphy			
4.4 Ship Earth Station (SES) <input checked="" type="checkbox"/> Inmarsat-C <input type="checkbox"/> Inmarsat-	FURUNO	FS-2570	ADB9ZWFELCOM12/3511-5438

5. Position updating (IV/18, V/19.2.1.6)

5.1 Receiver (e.g. GPS, GLONASS)	FURUNO	GP-31	
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No.	Maker	Type	Approved by/ Cert. No./Serial No.
6. Radio life-saving appliances (III/6.2 and 26.2.5)			
6.1	9 GHz radar transponder Number: 2 Location: WHEEL-HOUSE	PAINS WESEX SOS-SART	1) USA/FCC-KLSRT9-RT9L/26126 2) RT-9-01-51487
6.2	Two-way VHF radiotelephone Number: 3 Location: WHEEL-HOUSE	PAINS WESEX SOS	1) FCC-GL7AX1930 RE-114-85VBXG 2) FCC-GL7AX1930 RE-114-83VBXG 3) FCC-GL7AX1930 RE-114-91VBXG

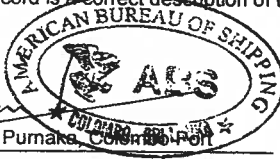
7. Radio equipment (V/19.2.3, 19.2.7, 19.2.8)			
7.1	<input checked="" type="checkbox"/> X-band <input type="checkbox"/> S-band Radar <input type="checkbox"/> ARPA <input type="checkbox"/> ATA <input type="checkbox"/> EPA	FURUNO MODEL 1954C	FCC-ADB9ZW1954C/8046-2875
7.2	<input type="checkbox"/> S-band <input checked="" type="checkbox"/> X-band Radar <input type="checkbox"/> ARPA <input type="checkbox"/> ATA <input type="checkbox"/> EPA	FURUNO MODEL-1954C	FCC-ADB9ZW1954C/4326-6106

No.	Maker	Type	Approved by/ Cert. No./Serial No.	Reserve Source
8. Additional radio equipment				
8.1	GPS	FURUNO GP-31	1) 3426-2361 2) 3443-2304	<input type="checkbox"/>
8.2	GPS	GARMIN GPS-180		<input type="checkbox"/>
8.3	AIS	FURUNO FA-150	USCG165155/ EC0735/0068/3551-7598	<input type="checkbox"/>
8.4	SSAS	FURUNO FELCOM-16	BSH/46162/013114/09/3534-5665	<input type="checkbox"/>
8.5				<input type="checkbox"/>
8.6				<input type="checkbox"/>
8.7				<input type="checkbox"/>
8.8				<input type="checkbox"/>
8.9				<input type="checkbox"/>

No.	YES	NO	N/A
9. The inspection showed that the ship complies with the requirements 4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Deficiencies/Remarks	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The information contained in this record is a correct description of the Radio Equipment on board.

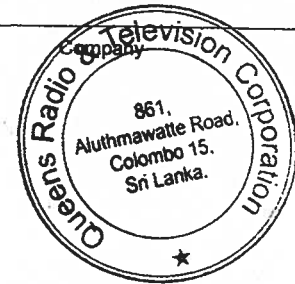

Jayasinha, Bellanvidanilage Purnaka, Colombo Port
Surveyor




J.J. RABINDRA PILLAI
Radio Technician

Colombo, Sri Lanka
Place of issuance

18 May 2009
Date



4) SOLAS 1974, as amended, as well as national requirements, if applicable.
SLR REC GMDSS

No.	
11.	Equipment renewals, alterations and/or additions effected since the Record was prepared.
Item Number	
11.1	
	Signed, Surveyor, American Bureau of Shipping
	Place:
	Date:
11.2	
	Signed, Surveyor, American Bureau of Shipping
	Place:
	Date:
11.3	
	Signed, Surveyor, American Bureau of Shipping
	Place:
	Date:
11.4	
	Signed, Surveyor, American Bureau of Shipping
	Place:
	Date:
11.5	
	Signed, Surveyor, American Bureau of Shipping
	Place:
	Date:
11.6	
	Signed, Surveyor, American Bureau of Shipping
	Place:
	Date:
11.7	
	Signed, Surveyor, American Bureau of Shipping
	Place:
	Date: