



**Environmental Protection Agency**

Ganges Street  
Sophia, Georgetown, Guyana

Att: The Executive Director

Date: 30/01/2025

Subject: **Request for the Approval for a License for the Storage, Transportation and distribution of fuel (bunkering) by vessels**

Reference: NA  
Our reference: 01-24-EPA-MG-001  
reference: n/a  
Contract No.: n/a  
Project: ExxonMobil Guyana Payara and Liza Ocean OBN 4D Seismic Survey

Dear Sirs,

*Shearwater GeoServices LTD UK* requires the services of a bunkering vessel to support our offshore Ocean Bottom Node Seismic survey in Guyana; *Shearwater GeoServices LTD UK* is therefore requesting a license for the storage, transportation, and distribution of fuel from the vessel, *Mariska G* to our offshore seismic fleet from the Guyana EPA. By way of background, please see a summary of planned project activities below.

**Project Description**

ExxonMobil Guyana Limited has contracted Shearwater GeoServices LTD UK to acquire an OBN seismic Survey in the Stabroek field. The seismic data collected will be used to extend the life of the field and to explore new areas for future Oil and Gas production.

The seismic survey is estimated to take 6 months. It involves the rolling placement of +7000 nodes on the ocean floor for the collection of seismic data.

The project will involve four vessels. The *Amazon Warrior* source; *Island Pride* ROV node laying; *Astra G* standby and the *Mariska G* support, resupply and crew change.

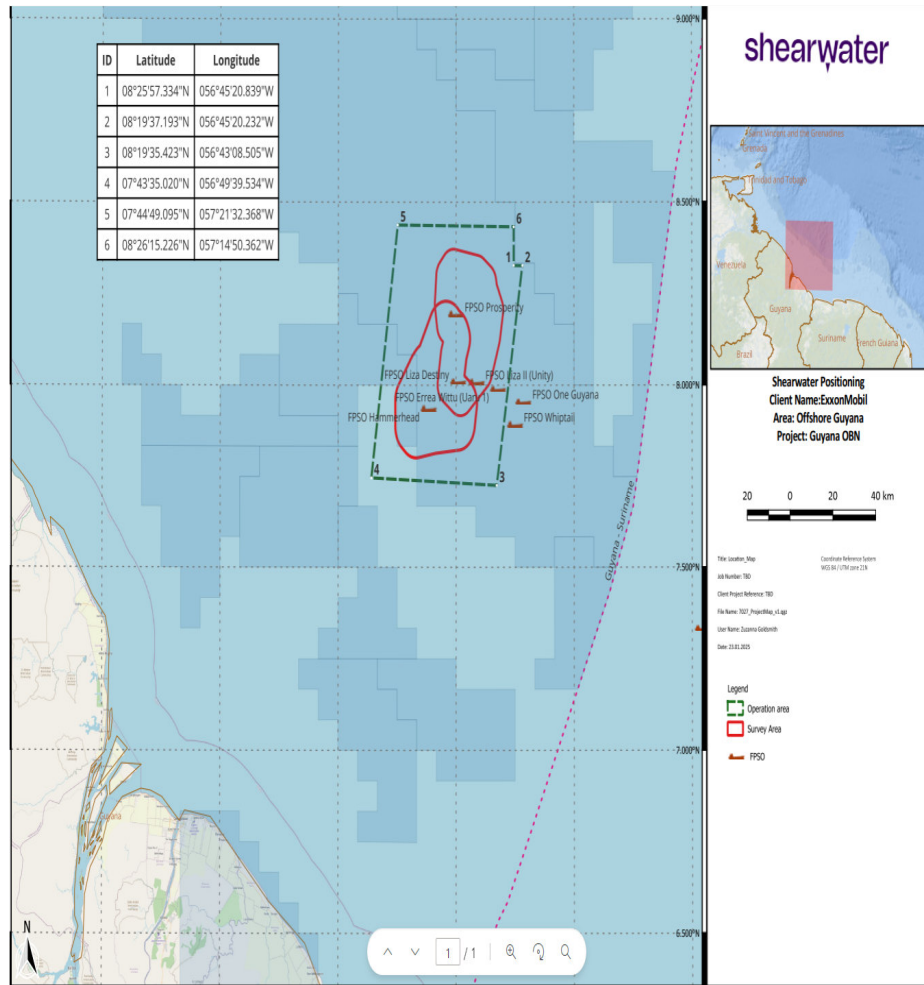


Figure 1 Project schematic

### **Bunkering constraints in Guyana**

Shearwater GeoServices will operate the following the vessels during the project:

- Amazon Warrior – Source vessel.
- Island Pride – ROV node laying vessel.
- Astra G – Standby vessel. Shallow draft able to enter port
- Mariska G – Supply and crew change vessel. Shallow draft able to enter port.

The *Amazon Warrior* and *Island Pride* are not able enter Georgetown port due to draft restrictions. In addition to their deep draft both vessels need to remain on the survey site to carry out the work.

The *Mariska G* will be used to fuel the *Amazon Warrior* and *Island Pride* while in the Stabroek field or in the Georgetown anchorage.

Having the ability to fuel these vessels at sea or at anchorage area is due to:

- Draft restrictions
- Limited port refuelling facilities
- Long sailing times for offshore vessels
  - Additional time for project activities
  - Higher fuel consumption, more greenhouse gases
- Additional traffic to the local port activities

## **"Mariska G"**

For the above stated reasons Shearwater GeoServices proposes to use the support vessel as a bunkering vessel which will provide services exclusively to the Shearwater seismic vessels during the project.

"Mariska G" (IMO 9690250) is a purpose-built seismic supply vessel. Built in 2013 and sailing under the Panama flag. Her length overall (LAO) is 64 meters and her width is 16 meters. The vessel is equipped with a certified fuelling station in order to bunker other vessels.

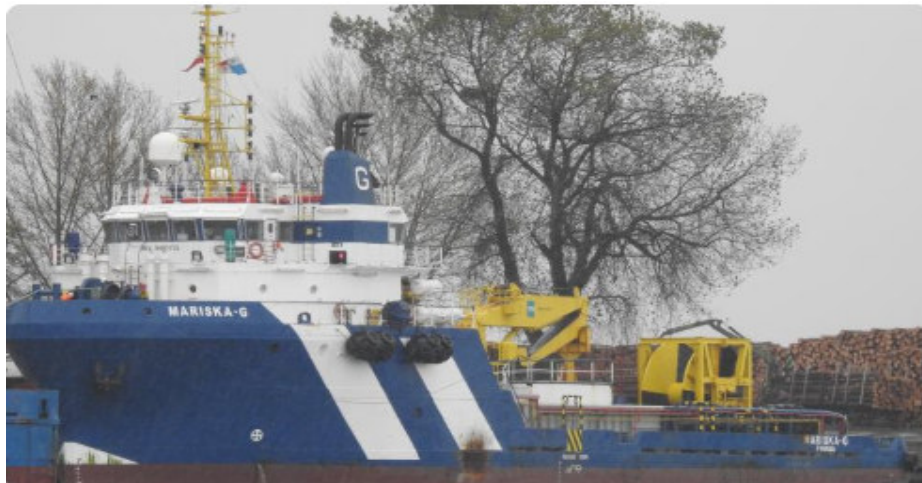


Figure 2 Mariska G

<b>Main Particulars</b>		<b>Communication Equipment</b>	
Builder:	Wuhu Xinlan Shipbuilding	GMDSS:	A1+A2+A3
Year built:	2013	Radio Station Inmarsat C:	2 sets (Furuno)
Flag:	Panama	Sound Powered telephone:	1 set (Furuno)
IMO Number:	9690250	PA/Talkback:	1 set
MMSI:	353121000	Portable VHF:	3 sets
Call Sign:	3EZX8	Sat Comm.:	VSAT / Iridium
Minimum Safe Manning:	9	Internet Broadband:	Starlink System
Classification:	Bureau Veritas		
Notation:	☼ HULL ☼MACH. ☼AULT-LIMS. Supply vessel, Fire fighting ship, LHNS SP58, Unrestricted navigation	<b>Navigation Equipment</b>	
<b>Dimensions</b>		Radars:	1x Furuno X-band, S-band & Slave
LOA:	64.0m	Gyro Compass Repeaters:	6 units
Breadth:	16.0m	Magnetic Compass:	1x Tokyo Keiki
Depth:	6.50m	Echo Sounder:	1x Furuno FE-700
Draught (Summer):	5.40m	GPS Navigation:	1x Furuno RD-20 (repeater) 1x Furuno GP-150; 1x Furuno GP-170
Net Tonnage:	701t	Doppler Log	1x Furuno DS-60
Gross Tonnage:	2339t	Auto Pilot:	1x Furuno RD-20 (repeater)
<b>Performance</b>		Navtex:	1x NautoPilot NP60
Max speed:	13 knots	EPIRB:	1x Furuno NX-700
Eco speed:	10 knots	SART:	1x Jotron
Type(s) and Grade(s) of Fuel Used:	MGO Low Sulphur	AIS:	2x Tron SART20
<b>Machinery</b>		BNWAS:	1x Furuno FA-150
Main engine:	2x Yanmar 6EY26 1920kW	<b>Bunker/Storage capacity</b>	
Azimuth:	2x Schottel SRP 1515 CP	MGO:	520.20 m <sup>3</sup>
Bow Thruster:	2x 10 Ton Schotell STT3CP	Cargo Fuel Cap:	808.41 m <sup>3</sup>
Diesel Gen Set:	3x 450kW Caterpillar C18	Fresh Water:	320.24 m <sup>3</sup>
Shaft Generator:	2x 1012kW Stamford	Ballast Permanent FW:	617.08 m <sup>3</sup>
Emergency Gen Set:	1x 118kW Caterpillar C6.6	Dirty Oil:	11.81m <sup>3</sup>
<b>Deck Equipment</b>		Dirty Oil Cargo:	17.47m <sup>3</sup>
Anchor Windlass:	2x 10t@9m/min	Lube Storage:	19.68m <sup>3</sup>
Mooring winch:	2x 6t@15m/min	Sewage Holding:	12.68m <sup>3</sup>
Capstan:	2x 5t@15m/min	Blige:	11.81m <sup>3</sup>
Tugger winch:	2x 10t@15m/min	Clear Deck:	500m <sup>2</sup>
Reefer container:	3x 20 feet, 415V/3ph/50Hz	Deck Strength:	7.5 tons/m <sup>2</sup>
Twin hose reel:	2x 200m 4" hose with 4" TODD	<b>Cargo Handling Equipment</b>	
Streamer reel:	1x 8000m	Cargo FO pump:	1x 150m <sup>3</sup> /h @75m
Towing hook:	65t SWL	Cargo FW pump:	1x 150m <sup>3</sup> /h @75m
Bollard pull:	59.4Tons (Maximum static pull)	<b>Accommodation</b>	
Deck Crane:	1x 3t@13m/5t@9m	Cabins:	6x 1 pers, 4x 2 pers 11x 4 pers
Workboat Davit:	Vestdavit SWL 15t	Total bunks:	58
Yoko Fenders:	2x Noreqlender 4m x 2.5m	Gym Room:	1
<b>Safety Equipment</b>		Mess Room:	1
Life rafts:	8x 25 persons	Recreation Room:	1
FRC water jet @ 20 knots with auto-tension davit:	1x 10 persons	Office:	1
		Changing Room:	1
		Hospital 2 bunks:	1

Figure 3 vessel specs

### **Potential effects on the Environment**

Offshore bunkering can pose a pollution risk to the marine environment in the unlikely event that a spill should occur. Based on thorough management and mitigation measures, supported by the inductions and training of crew with close monitoring during operations, Shearwater will strive to maintain preventative measures to reduce the likelihood of a spill occurring during bunkering offshore.

These measurements shall include but are not limited to the following:

- Project Spill Prevention Plan (provided in support of this application).
- Rigorous Hazard Identification and Risk Assessment (HIRA) for offshore bunkering.
- Bunkering procedure and checklist.
- Bunkering Manual (provided in support of this application).
- Induction and training of crew.

Shearwater's objective is to minimize and prevent risks to the environment; However, in the highly unlikely event of a spill the vessel Shipboard Oil Pollution Emergency Plan (SOPEP) provides spill response details and the *Mariska G* along with all vessels in the fleet shall be equipped with SOPEP spill kits and equipment. Training drills will be conducted with all vessel crews with respect to spill prevention and response.

### **Supporting Documentation**

In support of this application please see the following information package:

- **Vessel** Permit Application form
- Vessel particulars
- Certificate of Registry
- International Oil Pollution Prevention Certificate
- International Air Pollution Prevention Certificate
- In Water Authorization from the Maritime Administration (MARAD)
- International Energy Efficiency Certificate
- International Sewage Pollution Prevention Certificate
- Insurance Certificate
- Attestation regarding compliance with the Ballast Water Management Convention
- Statement of Compliance for Prevention of Pollution by Garbage
- SOPEP Manual
- Bunkering Manual
- Project Spill Prevention Plan

Yours Faithfully,

Donald Struckhoff



Shearwater GeoServices Project Manager  
C.C.

Encl: Attached Supporting Documentation