

Project Description

The Yellowtail and Uaru projects in Guyana are offshore developments located at the Starbroek Block offshore, Guyana operated by Exxon Mobil that will provide crude oil from the existing and future offshore developments to the FPSOs. This will enable the Government of Guyana (GoG) to continue to earn substantial earnings on behalf of the people of Guyana.

The project will connect the various wells with the existing Floating Production, Storage, and Offloading Vessels (FPSOs), to be transported to refineries overseas.

In this respect Esso Exploration and Production Guyana Limited (EEPGL) and their Contractor Saipem Guyana Inc has requested Bourbon Guyana Inc to provide Offshore Support Vessels to support their Construction Projects ongoing at the projects.



Figure 1 Project Schematic - Georgetown

Project Operations Overview

Bourbon Guyana Inc operates a fleet of up to 10 vessels in the Starbroek Block field that will include the following:

- Pipe supply vessels
- Anchor handlers
- Supply vessel (Chemical)

All of the above are vessels that can sail on their own keel. In this regard it is anticipated that Bourbon Guyana Inc will encounter the following constraints associated with bunkering Ship to Ship (STS) to these offshore Vessels;

- **Saipem Stationary Project vessels:**
These types of vessels (Construction vessels) are required to remain offshore, and therefore need an offshore bunkering solution.
- **Sailing vessels (on their own keel):**
Do have the ability to sail into one of the ports in Georgetown however will encounter:
 - Limited port refueling facilities
 - Long sailing times for offshore vessels
 - Additional traffic to the local port activities

For the above stated reasons Bourbon Guyana Inc proposes to use it's fleet of support vessels as bunkering vessels which will provide services exclusively to the Exxon Mobil FPSO's and Saipem construction fleet during the project.

Specs of these individual vessels has been provided to EPA in our applications.



Figure 3 – Bourbon Sapphire

Reception and Storage

Fuel Source: Diesel fuels will be received from fuel terminals in Georgetown, in the Demerara River, Guyana.

Storage: Fuel will be temporarily stored in dedicated tanks aboard the **Bourbon Sapphire**, adhering to international maritime safety standards.

Transportation

Vessel: The **Bourbon Sapphire** (a certified Offshore Support Vessel) will transport fuel from Georgetown to offshore locations in the Stabroek Block.

Routing: Transit via the Demerara River and Guyanese territorial waters from Georgetown to the project sites at Starbroek Block.

Transfer to Saipem Construction Vessels

Method: Offshore bunkering operations will use ship-to-ship (STS) transfers, ensuring compliance with MARPOL Convention and Guyana's EPA guidelines.

Exclusive Service: Operations will focus on Saipem's stationary construction vessels and Exxon's FPSOs, while minimizing port and river congestion and delays.

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, Bourbon Guyana 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:

- Safety Procedures (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.

Bourbon Guyana Inc's objective is to minimize and prevent risks to the environment; However, in the highly unlikely event of a spill the vessel's Shipboard Oil Pollution Emergency Plan (SOPEP) provides spill response details and the Bourbon Fleet, along with all vessels in the fleet shall be equipped with SOPEP spill kits and equipment. Training drills are conducted regularly, and at minimum quarterly with all vessel crews with respect to spill prevention and response.

Environmental Risks and Spill Mitigation

Potential Risks:

Marine Pollution: Unintentional fuel spills during bunkering, transfer, or storage.

Operational Hazards: Equipment failure, human error, or adverse weather conditions.

Mitigation Measures

Bourbon Guyana Inc. prioritizes spill prevention and rapid response through:

Preventive Protocols:

Spill Prevention Plans: Detailed procedures for bunkering, including pre-transfer inspections and real-time monitoring.

Hazard Identification and Risk Assessment (HIRA): Proactive risk analysis for all offshore operations.

Bunkering Manual and Checklists: Standardized workflows to ensure safe transfers.

Response Preparedness:

Shipboard Oil Pollution Emergency Plan (SOPEP): Onboard spill kits, containment booms, and skimmers.

Crew Training: Quarterly spill response drills and certifications in oil spill management.

Collaboration with Authorities: Immediate reporting to the EPA and coordination with Guyana's National Oil Spill Response Team.

Insurance coverage for Environmental Pollutions.

Supporting Documentation

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

- Bourbon Guyana Inc's Bunkering Permit Application forms for all vessels
- Vessel particulars
- Certificates of Registry
- International Oil Pollution Prevention Certificates

- International Air Pollution Prevention Certificates
- In Water Authorizations from the Maritime Administration (MARAD)
- International Energy Efficiency Certificates
- International Sewage Pollution Prevention Certificates
- Insurance Certificates
- Attestations regarding compliance with the Ballast Water Management Convention
- Statements of Compliance for Prevention of Pollution by Garbage
- SOPEP Manuals
- Bunkering Manuals
- Project Spill Prevention Plan