

Project Summary

Name of Operation

A. Julieta II (Bunkering)

Name of Developer/Company

Burnadett Pierre

Contact details

686-1001

Image of Operation



Address of Operation

Kumaka Waterfront, Region 1.

Date

18th September, 2024

Prepared by: Ms. Burnadett Pierre

Section 1: Introduction (Project Overview)

This operation entails Fuel Bunkering, the procedure of transferring fuel specifically gasoline and diesel from a vessel to land for commercial distribution. This operation has been active since 2021, initiated as a financial endeavor to sustain daily living through a small cargo vessel named A. Julieta II, registered under the number 011546.

A. Julieta II is owned by Ms. Bernadett Pierre of Mabaruma Township, Barima Waini, Region 1, Guyana, who is responsible for operations, sales, and marketing functions.

Section 2: Description of Project Location

The project is reachable via the Kumaka waterfront river wharf. The area surrounding the operation encompasses the Kumaka waterfront access road, which incorporates both riverine and commercial zoning.

- **Environmental Considerations:**

Taking into account environmental factors, this project has the potential to have an effect on the quality of the soil, the air and noise, the water (both ground and surface water), and the biodiversity available. Therefore, it is essential that our fuel be stored in the appropriate manner in order to guarantee safety, protect the environment, and maximize the efficiency of our operations. Due to the unique characteristics and hazards associated with different fuels, such as gasoline and diesel, our operation will entail:

- the use of approved containers, the assurance of proper storage and ventilation, and compliance with specific fueling protocols.
- Perform regular inspections to verify that the emergency equipment is functioning properly.
- Personnel tasked with fuel management must undergo continuous training.
- To avert gasoline spillage, ensure that containers are securely sealed.

Section 3: Description of Project,

The resale of diesel and gasoline using a small cargo vessel A. Julieta II at Kumaka Waterfront wharf to customers. The resale of diesel and gasoline will be done during the hours of 6Am to 6PM daily. The vessel has the capacity to hold 100 plastic barrels with each having the capacity to hold 50 gallons of fuel. However, the vessel usually has 60 to 70 barrels onboard amounting to about 3000 gal to 3500-gal diesel. The vessel discharges fuel using fuel pump attached to 2-inch hose. The vessel uses solar panels which is the main source of electricity and 2 outboard Yamaha engine (40 HP and 75 HP).

Safety and Security: A weekly meeting is held with staff to discuss safety procedures and protocols in case of an incident.

Fire prevention strategies: There are 2 fire buckets, 3 fire extinguishers, 5 life jackets, 2 life buoys, 2 water pumps and safety signage indicating no smoking, highly flammable materials, and an accessible first aid kit.

Table 1: Emissions for Air

No.	Type	Sources
1	Gaseous pollutants (combustion gases) -	N/A
2	Particulate Emissions	N/A

Table 2: Solid Waste

No.	Type	Treatment/Disposal Methods
1	Domestic Waste: plastics, food items, etc	Placed in garbage bin and will be disposed by the NDC tractor on a weekly basis.
2	Construction Waste (if any)	N/A

Table 3: Liquid Waste

No.	Type	Treatment/Disposal Methods
1	Domestic Wastewater (Grey Water) –	N/A
2	Sewage	N/A

Table 4: Hazardous Waste

No.	Type	Treatment/Disposal Methods
	Off Specification Fuel -	N/A
	Waste Oil -	Stored in 1 litre plastic bottles and given to sawmillers
	Oily Rags – from cleaning the fuel pump	Stored in a bucket on the vessel
	Waste from spills or leaks -	Prompt cleanup and proper disposal
	Used batteries -	N/A

Section 4: Project size

- **Capacity:** Approximately **3500 gallons** of diesel.
- **Storage:** Utilizing **60 - 70 drums**, each with a capacity size of **50 gallons**.
- **Workforce:** The business operates with a team of **3 employees**.

- **Investment Capital:** The estimated investment capital for this venture is approximately **\$4 million** with a monthly turn-over of **\$300,000**.

Section 5: A non-technical summary of the project

- **Activity Type:** The main operation involves fuel bunkering from ship to shore for resale.
- **Method of Conduct:** Fuel will be purchase and sold near the Kamuka waterfront wharf.
- **Storage:** The fuel is stored in 50gal capacity plastic drums.
- **Distribution:** Fuel is transfer from the vessel using a fuel pump attached to 2-inch hose.
- **Operation hours:** The bunkering operates from 6 AM to 6 PM.

Section 6: Potential Impacts and Management

Environmental Impacts

1. List of impacts

Mitigation Measures

Aspect	Mitigation Measures
Emission to Air: Dust/Particulates	N/A
Emission to Air: Gaseous Emissions	N/A
Noise and Vibration -	N/A
Discharge to surface water	Implement measure that would encourage safety and environmental protection like inspect hose, connections and fittings for any sign of damage or wear and tear. Ensure that vessel is securely moored before fuel dispensing
Potential release to land/soil	Use of spill containment measures like drip pans adsorbent materials to contain accidental spills.
Generation, Storage and Disposal of Hazardous Waste	N/A
Health and Safety Risk	Referred Kaituma Hospital which is 10 mins by driving

Images of the facility:



Mv. A. Julieta II vessel



50 gal -Plastic drums used for fuel storage



Fire Extinguisher



Fuel Pumps