



**Environmental
Protection
Agency**

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Operation Permit

Issued under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000

Reference No.:	20191025- GUYOD
Fee:	Large (C2) i.e. US\$ 2000 per year
Fee Paid:	US \$ 10,000 for Five (5) years (December 2020- November 2025)
Addressee:	The Guyana Oil Company Limited 191 Camp Street South Cummingsburg Georgetown
Activity:	Operation of a Petroleum Bulk Storage Facility – Gasoline, Diesel, Kerosene and Lubricants ONLY

The Guyana Oil Company Limited, hereinafter referred to as the “Permit Holder”, is hereby authorised in accordance with the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, to Store Bulk Petroleum Products at Lot X, Heathburn, East Bank Berbice, hereinafter referred to as the “Project”, in a manner indicated in the Application for Environmental Authorisation submitted on October 25, 2019, and subject to the terms and conditions set forth herein under the Environmental Protection Act, existing and/or forthcoming regulations made under the said Act, guidelines, best practices and standards relevant to this project.

Terms and Conditions for Operation to be adhered to by Permit Holder, His Servants, Agents and/ or Sub- Contractors:

1.0 OPERATION

- 1.1 Notify the Agency in writing and obtain its approval for **ANY** proposed changes in the Petroleum Bulk Storage operation **at least fourteen (14) days before making the change**. The notification shall contain a **description of the proposed change in operation**. It is not necessary to make such a notification if an **Application to vary** this permit has been made and the Application contains a description of the proposed change. In this condition ‘**change in operation**’ means a change in the nature or functioning, or an extension, of the installation, which may have consequences for the environment including but not limited to the following:

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- i. Changes in construction, structure, or layout of the facility and all associated buildings.
 - ii. Installation of new and/or changes to equipment, machine, apparatus, mechanism, system or technology serving the facility.
 - iii. Any technology used or installed at the facility from which effluent may be discharged.
 - iv. Any other circumstance or condition prescribed by Regulation 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 The Permit Holder is hereby required to submit to the EPA, Full Planning Permission from the Central Housing and Planning Authority (CH&PA) for the Petroleum Bulk Storage Facility, by **June 30, 2021**.
- 1.3 Adopt and comply with the National Standard "Guidance for the Design, Construction, Modification, and Maintenance of Petrol Filling Stations" and any forthcoming code of practice/guidelines pertaining to the operation of fuel storage.
- 1.4 An Operation and Maintenance Manual shall be developed and maintained. The Manual shall address all aspects of the on-going operation, including the required maintenance and inspection schedule, loss monitoring / investigation procedures, emergency response and requirements for review of the Manual.
- 1.5 The Operation and Maintenance Manual shall be submitted to the Agency for review and approval by **March 31, 2021**.
- 1.6 Employees shall be equipped with Personal Protective Equipment relevant to the occupational tasks during operation. These Personal Protective Equipment may include but not limited to:
1. Safety helmets;
 2. Protective respiratory devices
 3. Safety boots with ankle support
 4. Gloves with reinforced palms and fingers
 5. Eye protections such as tightly fitted safety goggles.
 6. Chemical resistant coveralls
- (Employees should at all times be well protected)***
- 1.7 Emergency spill cleanup kits shall be acquired by **January 31, 2021**, for all fuel storage sites for response to potential spills. Kits should contain absorbent materials, drain seals and other appropriate tools for clean-up.



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- 1.8 A register of the types and quantities of fuel and associated hazardous materials stored onsite shall be established and maintained. Summarised registered information shall be submitted to the Agency as a component of the **Annual Report** referred to within **condition 6.6**.
- 1.9 Fuel shall at all times be stored above-ground, in a cool, dry place and away from ignition sources. **'No Smoking'** signs shall be posted where fuel is handled or stored.
- 1.10 Protection measures such as painting and coating shall be maintained to minimise corrosion of the fuel tanks.
- 1.11 All fuel tanks shall be tested by competent persons to verify their integrity once every five years. All tests should be documented including a clear indication of the scope, type and results of the tests. The test methods and results shall be submitted to the Agency as part of the **Annual Report** referred to within **condition 6.6**.
- 1.12 Visual inspections of the fuel tanks shall be conducted in accordance with the specifications outlined below. These results shall be submitted to the Agency as part of the **Annual Report** referred to within **condition 6.6**.

1. Four (4) Gasoline Tanks

- Quarterly inspections internally by GUYOIL
- Formal External Inspection by a certified inspector quarterly

2. Five (5) Low Sulphur Diesel Tanks

- Quarterly inspections internally by GUYOIL
- Formal External Inspection by a certified inspector quarterly

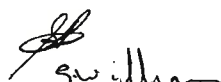
3. One (1) Ultra Low Sulphur Diesel Tanks

- Quarterly inspections internally by GUYOIL
- Formal External Inspection by a certified inspector bi- annually

4. Three (3) Kerosene Tanks

- Quarterly inspections internally by GUYOIL
- Formal External Inspection by a certified inspector bi- annually

- 1.13 Secondary containment in the form of concrete bunds or earthen berms shall be established around all **Horizontal Fuel tanks** by **February 28, 2021**. Concrete bunds shall provide containment sufficient to contain at least 110% of the contents of the largest storage tank while earthen berms or dikes shall be constructed with clay or other low permeability soil (at least 35% clay). A width to height ratio of 3:1 is required for the berm to ensure the dike strength and durability.
- 1.14 Existing secondary containment around all **Vertical Fuel tanks** shall be inspected monthly for cracks and breakage to ensure they are liquid tight to withstand hydrostatic pressure of any contained liquid when full. Inspection reports shall be submitted to the Agency as a component of the **Annual Report** referred to within


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condition 6.6.

- 1.15 Containment bunds shall remain sealed and all piping must enter or exit the bund over the wall. Bunds shall provide total containment, and no part of the tank infrastructure (e.g. dispenser, filling hoses and valves) shall protrude outside the bund.
- 1.16 Tanks and pipeline layout shall minimise the need for bends, joints and underground pipelines. Where underground piping is required, double contained systems shall be installed for new pipelines. All equipment shall be made from corrosion resistant material.
- 1.17 Maintenance and/ or repair of fittings, pipes and hoses shall be conducted monthly and in accordance to manufacturer's specifications. A summarised inspection report shall be compiled and submitted to the Agency as a component of the **Annual Report** referred to within **condition 6.6.**
- 1.18 Overfill protection shall be installed and maintained on all fuel tanks by **August 31, 2021.** This may include an automatic shut off device or an audible or visible overfill alarm.
- 1.19 The safe fill level shall be clearly identified on the gauge and set at 90% to prevent overfilling. In the event of overfilling, all discharges shall be released into the containment bund.
- 1.20 Dispensing equipment shall be designed with the Best Available Technology (BAT) to minimise spills e.g. suction, pressure or gravity systems.
- 1.21 Pressurized dispensing equipment shall be equipped with an automatic line leak detector and emergency shut-off valve at the base of each dispenser by **February 28, 2021.**
- 1.22 Leak detection systems shall be installed on all bulk storage fuel tanks. At least **two (2)** of the following measures should be implemented:
 1. Overflow alarms on tanks;
 2. Gauging system;
 3. Dipstick measurements;
 4. Sensors on walls of tanks or;
 5. Electric shut down buttons.
- 1.23 Vapour recovery systems shall be installed on all dispensing equipment by **November 30, 2021.** Vapour recovery systems prevent the emission of Volatile Organic Compounds (VOCs) displaced during filling or dispensing activities.
- 1.24 The Best Available Technology/ Technique (BAT) shall be employed to contain/ minimise spills at the jetty and into the waterways when vessels are delivering fuel to the Facility.



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- 1.25 The Best Available Technology (BAT) shall be implemented under the dispensers and at unloading areas to capture fuel loss during fuel transfer to vehicles and refuelling of equipment.
- 1.26 Secondary containment, drip trays or other overflow and drip containment measures shall be installed and maintained at connection points or other possible overflow points.
- 1.27 A Standard Operating Procedure (SOP) for fuel transfer operations including a checklist of measures to follow during filling operations shall be established and maintained. A copy of this SOP shall be submitted to the Agency as a component of the **Annual Report** referred to within **condition 6.6**.
- 1.28 All employees shall be trained on the SOP outlined in **condition 1.27**. An Annual training schedule shall be submitted to the Agency as a component of the **Annual Report** referred to within **condition 6.6**.
- 1.29 A minimum of three (3) groundwater monitoring wells shall be installed around the fuel storage facility. The groundwater monitoring wells shall be inspected to assess any potential leaks and impacts to groundwater. A groundwater monitoring plan including location and design of wells, shall be submitted to the Agency for review and approval by **March 31, 2021**.
- 1.30 The groundwater monitoring wells shall be installed by a licensed well driller company.
- 1.31 Guyana Fire Service Approval shall be maintained annually and shall be submitted as a component of the **Annual Report** referred to within **condition 6.6**
- 1.32 The Petroleum Bulk Storage Facility shall maintain fire prevention and control equipment in accordance with the Guyana Fire Service Approval. This may include a smoke detection and alarm system, fire extinguishers, fire hydrants or sprinkler systems as appropriate.

2.0 WATER QUALITY

- 2.1 Adhere to the provisions of the **Environmental Protection (Water Quality) Regulation, 2000**.
- 2.2 An oil- water separator shall be installed at the point of final discharge from the secondary containment and/ or earthen berms for the fuel storage facility by **February 28, 2021**.
- 2.3 The separator must be designed with the capacity to handle maximum effluent discharged from the facility and shall be in accordance with the EPA's requirements.



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- 2.4 Effluent from the secondary containment for the fuel storage facility shall flow through the oil- water separator(s) and should be in accordance with the Guyana National Bureau of Standards (GNBS) Interim Guidelines for Industrial Effluent Discharge into the Environment. The following allowable limits should not be exceeded:

Parameter	Daily Maximum Concentration	Units	Sample type	Frequency of Analysis
• pH	(pH 5.0-9.0)	mg/L	Grab	Bi- annually
• Temperature	<40	°C	Grab	
• Total Suspended Solids (TSS)	< 100	mg/L	Grab	
• Oil and Grease	< 10	mg/L	Grab	
• Total Petroleum Hydrocarbon (TPH)	< 40	mg/L	Grab	
• Diesel Range Organics	<100	mg/L	Grab	

- 2.5 Grab samples of effluent shall be collected bi- annually at the final discharge point from the oil- water separator. GPS Coordinates for this final discharge point shall be submitted to the Agency by **February 28, 2021**.
- 2.6 Grab samples shall be collected and processed by a certified laboratory.
- 2.7 Upon installation of the groundwater monitoring wells, groundwater monitoring shall be conducted annually and samples collected shall be analysed for the following parameters:
- Total Arsenic
 - Total Copper
 - Total Lead
 - Total Manganese
 - Total Iron
 - Total Zinc
 - Diesel Range Organics

Results of the analysis shall be submitted to the Agency as a component of the **Annual Report** referred to within **condition 6.6**.

- 2.8 Fuel/lubricants including waste oils shall not be drained from equipment onto the ground or into waterways.
- 2.9 Additional interceptor drains shall be constructed on site. These must be adequately sloped to collect storm flow.



3.0 AIR QUALITY AND NOISE MANAGEMENT

- 3.1 Adhere to the provisions of the **Environmental Protection (Air Quality) Regulations, 2000** and the **Environmental Protection (Noise Management) Regulations, 2000**.
- 3.2 All significant noise-producing equipment, such as generators, shall be equipped with silencers or mufflers and/or be enclosed in suitable acoustic enclosures where necessary, to reduce noise levels impacting the surrounding environment to achieve compliance with Guyana National Bureau of Standards (GNBS) requirement.
- 3.3 All generators and machines/equipment shall be serviced in accordance to manufacturer's specification to ensure efficiency and reduce the level of noise produced. A summarised maintenance report shall be submitted as a component of the **Annual Report** required in **condition 6.6**.
- 3.4 Comply with the Guyana National Bureau of Standards (GNBS) Guidelines for Noise Emission into the Environment at a distance of 15 m (50 ft) from the source or at the property boundary, whichever is closer.

Commercial Limits: 80 dB (Day-time (06:00 h -18:00 h))
65 dB (Night- time (18:00 h - 06:00 h))

- 3.5 The height of the Generator's exhaust stack from the base to the point of emission shall not be less than 2.5 metres above the tallest building within an 800 metres radius of the Generator's house.

4.0 WASTE MANAGEMENT

- 4.1 In accordance with the **Environmental Protection (Litter Enforcement) Regulations, 2013**, promote good sanitation and solid waste disposal practices on site; covered garbage receptacles must be placed at strategic locations at the facility.
- 4.2 Waste materials shall not be burnt on site. All solid waste shall be disposed at an approved Solid Waste Disposal Site, by an EPA Authorised Waste Disposal Company.
- 4.3 Good house-keeping, sanitary, and hygienic practices shall be maintained at all times. The facility's drains and surroundings shall be kept free of vegetation and litter.
- 4.4 Solid waste receptacles shall be secured when not in use.

5.0 HAZARDOUS WASTE MANAGEMENT

- 5.1 Adhere to the provisions of the **Environmental Protection (Hazardous Waste Management) Regulations, 2000**.

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5.2 All hazardous waste shall be stored in containers appropriate for the waste stream. That is:

a) Plastic Containers

- i. Water- based wastes
- ii. Fountain Solutions, Pre- Press

b) Metal Containers

- i. Solvents and Petroleum- based products
- ii. Waste ink, Presswash, Oil and Oily Absorbents

5.3 All hazardous waste containers shall be labelled with the following:

- i. The words **“Hazardous Waste”**
- ii. The type of waste
- iii. Beginning accumulation date- Date when the container was first placed in the Hazardous Waste Storage Area. Should the hazardous waste container be reused, the date hazardous waste was first placed in the container shall be recorded on the container.

5.4 All waste oil containers shall be labelled with the following:

- i. The words **“Waste Oil or “Used oil”**
- ii. Beginning accumulation date

5.5 All hazardous waste shall be stored in a covered, bunded area. This area shall include the following:

- i. Signage- **“Hazardous Waste Storage Area”**
- ii. Low traffic
- iii. No floor drains
- iv. Secondary containment capable of containing 110% of the largest volume therein.

5.6 All hazardous waste shall be disposed of by an EPA authorised Hazardous Waste Disposal Facility. All hazardous waste treatment and disposal shall be documented on a Waste Manifest Form which must be submitted to the EPA as a component of the **Annual Report** in condition 6.6.

6.0 COMPLIANCE MONITORING AND REPORTING

6.1 Notify the Environmental Protection Agency **within one (1) hour** of the occurrence of any environmental emergencies (e.g. oil spills, hazardous materials/wastes spills, sudden onset disaster, natural, technological or human-induced factors that cause or threaten to cause severe environmental damage as well as harm to human health or livelihood).

6.2 Make all employees, and third parties under your direction, aware of the conditions of the Environmental Authorisation and provide training on good environmental



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practices. Annual training schedule shall be submitted in the **Annual Report** referred to within **condition 6.6**.

- 6.3 Notify the Agency in writing of any change of name or ownership of the Permit Holder's facility within **thirty (30) days** after the change occurs.
- 6.4 Notify the Agency **within twenty-one (21) days** in event of death, bankruptcy, liquidation or receivership of the Permit Holder or if the Company becomes a party to an amalgamation.
- 6.5 Maintain and submit to the Agency records of the type, composition and quantity of contaminant released (i.e. any solid, liquid, gas, odor, sound, vibration, radiation, heat or combination of any of them).
- 6.6 Submit **Annual Reports** to the EPA on the progress of the operation and compliance with the conditions under which this Permit was granted on or before **March 31** each year.
- 6.7 Report to the Agency any non-compliance(s) with the Operation Permit:
- I. Within **twenty-four (24) hours** of the time the Holder of the Environmental Authorization for Operation becomes aware of the non-compliance(s), the anticipated manner in which it may endanger human health or the environment.
 - II. Within **seventy-two (72) hours**, submit to the Agency a written report containing a description of the non-compliance(s), its cause and the period of non-compliance including exact dates and time.
 - III. Submit a report to the Agency indicating the reasons and the anticipated time it is expected to continue if the non-compliance has not been corrected.
- 6.8 Comply with any lawful directions given by the EPA from time-to-time in furtherance of the implementation of any international or other obligation for the environmental protection of Guyana.
- 6.9 It is the responsibility of the Permit Holder to ensure the permitted activity and premises are secured and that all practicable steps necessary to prevent fires, explosions, leaks or suspected leaks and spills at the permitted premises are taken.
- 7.0 INSTITUTIONAL AUTHORITY/ LIABILITIES**
- 7.1 The EPA reserves the right to conduct regular inspections of the Permit Holder's operation as part of its monitoring and enforcement requirements under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection Regulations, 2000.

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- 7.2 The EPA reserves the right to review/amend the conditions attached to this Permit which also includes the review and/or amendment of permit fees in consideration of any changes in fee schedule as determined by the Agency for projects of this nature.
- 7.3 The Permit Holder, His Servants, Agents and/or Sub-Contractor(s) shall, at all times, allow entry to the permitted facility to any Officer designated by the EPA for the purposes of conducting inspections or any other legitimate business of the Agency. Pursuant to s.38 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana, it is an offence to assault, obstruct or hinder an authorized person in the execution of his/her duty under the said Act or its Regulations and the Permit Holder shall be liable to penalties prescribed under paragraph (c) of the Fifth Schedule for doing so.
- 7.4 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 7.5 The Permit Holder, his Servants, Agents and/or Sub-Contractors shall be strictly jointly and severally liable as follows:
- a. For any activity that causes, or is likely to cause pollution of the environment, unless the person takes all reasonable and practicable measures to prevent or minimise any resulting adverse effect, in accordance with Section 19(1)(a) of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
 - b. For any activity which results in the discharge, release or entry into the environment of any contaminant in any amount, concentration or level in excess of that prescribed by the regulations or stipulated by this Permit, in accordance with Section 19(1)(b) of the Environmental Protection Act, Cap. 20:05 Laws of Guyana.
 - c. The discharge or release of contaminants, such as hydraulic fluids, lubricants, fuel, or other industrial fluids relative to the Project, which are not stipulated herein, or by Regulations under the Environmental Protection Act, are strictly prohibited. Any such discharge or release shall be a violation of Section 19(1)(b) of the Environmental Protection Act.
 - d. For the compensation of any Party who suffers any loss or damage as a result of the project. (s.19(3)(e)) Environmental Protection Act, Cap. 20:05, Laws of Guyana.
 - e. For any material or serious environmental harm caused by pollution of the environment, whether intentionally or recklessly, in accordance with section 39 (1), (2), (3) and (4) of the Environmental Protection Act, 20:05, Laws of Guyana.



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- f. Any gross negligence or wilful misconduct resulting in serious risk, or adverse effects to the marine environment, biodiversity, protected species and natural habitat with respect to any release or discharge, spill, contaminant fluids, oil, or lubricants from any facilities permitted under this project.
 - g. For the payment of all costs and expenses related to the assessment of damage and investigations required, as result of any pollution incidents attributable to the activity for which this Permit has been issued.
- 7.6 The Agency (EPA) shall notify the Permit Holder immediately of any written claim or notice sent by any Complainant seeking loss or damage for negligence as a result of the Permit Holder's lack of due care and diligence.
- 7.7 Should the Permit Holder contravene or is likely to contravene any condition of this Permit, the Agency (EPA) may serve him an enforcement notice in accordance with s. 26 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 7.8 Where it appears to the Agency (EPA) that the Permit Holder is engaged in any activity that may pose serious threat to natural resources, serious pollution of the environment or any damage to public health, the EPA shall issue to the Permit Holder a Prohibition Notice, which may include an order to immediately cease the offending activity. [S. 27 Environmental Protection Act, Cap. 20:05.]
- 7.9 This Operation Permit is effective for the period stipulated herein **December, 2020 to November, 2025**.
- 7.10 This Operation Permit shall remain valid until **November 30, 2025, unless** otherwise suspended, cancelled, modified or varied in accordance with the provisions of this Permit or the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.
- 7.11 This Permit must be renewed by submitting 'an Application for Renewal of Environmental Authorisation to the Agency at least six (6) months before this Permit expires, that is, no later than **June 30, 2025**.
- 7.12 Any late submission of the application required by Condition 7.11 beyond the date specified therein, shall require the Permit Holder to pay, in addition to the application fee, a late penalty fee (accruing at the time such obligation was first owed for renewal) at a rate of **two thousand dollars (GY\$2,000.00) per day for every business day late**, until such application is submitted to the Agency, without prejudice to any other rights of the Permit Holder in connection therewith.



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- 7.13 Failure to comply with the requirements of this Permit or with applicable laws and regulations, whether existing or forthcoming, shall render the Permit Holder liable to prosecution and to penalties, inclusive of civil penalties, injunctive relief and imprisonment, as prescribed under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection Regulations and other applicable laws of Guyana.

Signed by



on behalf of the Environmental Protection Agency.

Date

2020.12.14

I hereby accept the above terms and conditions upon which this Operation Permit is granted and agree to abide by the Environmental Protection Act, Cap. 20:05, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, and any existing or forthcoming regulations, guidelines, best practices and standards made under this Act.

NAME	SITARANDA WILLIAMS
DATE	30 th December, 2020
SIGNATURE	<i>[Signature]</i>
DESIGNATION	Health, Safety & Environmental Officer



[Signature]