



**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.:	20180821-LWPVE
Fees :	Small (C1) US\$500 (5 years) i.e. US\$ 100 per year

Address
Sol Guyana Incorporated
Lot BB Rome Agricola,
East Bank Demerara
Guyana



Activity: Operation of a Fuel Storage Facility

Sol Guyana Incorporated, hereinafter referred to as the "Permit Holder", is hereby authorised in accordance with the Environmental Protection Act, Cap.20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, to operate a Fuel Storage Facility:(Whole Sale Of Petroleum Products) at Vilvoorden Essequibo Coast hereinafter referred to as the "Project", in a manner indicated in the Application submitted August 10, 2018, and subject to the terms and conditions set forth herein and any forthcoming regulations, best practices, guidelines and standards relevant to this project.

Terms and Conditions for Operation by Permit Holder:

1.0 OPERATION

Notify the Agency in writing and obtain its approval for ANY proposed changes in the Fuel Storage operation **at least 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:

- i. Changes in construction, structure, or layout of the facility.

- ii. Installation of new and/or changes to equipment, machine, apparatus, mechanism, system or technology serving the facility or operation.
 - iii. Any technology used or installed at the facility from which effluent may be discharged.
- 1.2 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.
 - 1.3 Maintain an impervious secondary containment wall around fuel storage tanks, creating a temporary holding area in the event of accidental spillage. The containment wall for areas with multiple tanks should have the capacity to provide at least 110% containment of the largest tank. The containment wall for areas with solitary tank should have the capacity to provide 110% containment of the fuel tank.
 - 1.4 Install leak detection mechanisms. **At least two (2)** of the following measures should be taken: overflow alarms on tanks; gauging system; dipstick measurements; sensors on walls of tank and electric shut down buttons.
 - 1.5 Ensure that corrosion control measures are in place to prevent the corrosion of steel tanks and pipe work.
 - 1.6 Maintain an interceptor drain, which must be adequately sloped to collect storm flow.
 - 1.7 Ensure all employees are trained in good environmental management practices and of their obligations under the Permit.

2.0 WATER QUALITY

- 2.1 Comply and adhere to the provisions of the Environmental Protection (Water Quality) Regulation 2000.
- 2.2 Maintain an oil-water separator through which all effluent must pass before final discharge.
- 2.3 Monitor the parameters listed in condition 2.2 on an annual basis at the point of discharge after the oil water separator etc.
- 2.4 Not discharge waste water effluent directly into receiving waters without prior treatment. Discharges from the oil water separator into the environment should be in accordance with the Guyana National Bureau of Standards (GNBS) *Interim Guidelines for Industrial Effluent Discharge into the Environment*. The following are the allowable limits for a Service Station and should not be exceeded:

- pH 5.0-9.0;
- Temperature < 40 °C;

- Total Suspended Solid (TSS) < 100 mg/L;
- Oil and Grease < 10 mg/L;
- Total Dissolved Solid (TDS) < 40 mg/L;

- 2.5 Maintain an interceptor drain, which must be adequately sloped to collect storm flow.
- 2.6 Ensure that drains are cleared of debris on a regular basis to promote free flow of water.

3.0 AIR QUALITY AND NOISE MANAGEMENT

- 3.1 Comply and adhere to the provisions of the Environmental Protection (Air Quality) Regulations 2000 and the Environmental Protection (Noise Management) Regulations, 2000.
- 3.2 Handle and store liquid fuel in such a manner so as to prevent the emission of offensive odors to the air outside the property boundary.
- 3.3 Monitor any malfunction or breakdown leading to abnormal emissions promptly and adjust process operations until normal operations can be restored.
- 3.4 Comply with the Guyana National Bureau of Standards (GNBS) *Guidelines for Noise Emissions into the Environment*, not exceeding the institutional limits at a distance of 15 metres (50 ft) from the source or property boundary, whichever is closer.
- Residential Limits **75 dB** [Day-time (06:00 h -18:00 h)]
60 dB [Night-time (18:00 h - 06:00 h)]
- 3.5 Equip all sound-making devices, e.g. generators, planers, etc. with silencers or mufflers to reduce the noise level and/or enclose all sound making devices in structures constructed with materials of good insulation properties (e.g. hollow concrete blocks, insulation boards, solid clay bricks).
- 3.6 Ensure that the exhaust stacks of generator's are at least 2 meters above the generator's house or the tallest building nearby, to minimize adverse fumes/soot impacts to the contiguous areas.
- 3.7 Conduct scheduled maintenance of generator's, pump's, and machines/equipment on a regular basis to avoid inefficiencies and noxious emissions.

4.0. WASTE MANAGEMENT

- 4.0 At all times utilise the best practicable means of handling, storing and disposing of all waste materials.
- 4.1 In accordance to 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.

Waste must be collected and disposed of at an approved waste disposal facility.

- 4.2 Maintain good house-keeping, sanitary, and hygienic practices and improvement in the aesthetic quality of your surroundings at all times. Regular cleaning of the surroundings and drains should be clean of vegetation and litter.
- 4.3 Maintain a septic tank system on site. The septic tank should not be located within 1.5 m of a building or property boundary and should be accessible for cleaning and de-sludging. Any modification to the Septic tanks must be in accordance with the Guyana National Bureau of Standards (GNBS) *Code of Practice for the Design and Construction of Septic Tanks and Associated Secondary Treatment and Disposal Systems*.

5.0. FUEL, WASTE OIL AND HAZARDOUS WASTE/MATERIALS MANAGEMENT

- 5.1 Comply and adhere to the provisions of the Environmental Protection (Hazardous Waste Management) Regulation 2000.
- 5.2 Prepare and submit to the Agency no later than **forty-five (45)** days after the end of the operating year, a report relating to the activities for the previous year (please see attached form). The report shall include:
 - a) the name, location and type of facility;
 - b) types and quantities (in metric units) of hazardous waste generated;
 - c) manner of storage, use, any applied treatment standards/methods and disposal of these substances;
 - d) data concerning off-site shipments of waste, i.e. local disposal facility utilized, country to which hazardous waste is shipped, purpose of shipment and amount of waste shipped;
 - e) a summary of any accidents that may have occurred and any action taken;
 - f) any waste minimisation efforts undertaken by your facility for hazardous material/waste; and
 - g) Any other matter the Agency may require.

The Agency considers all materials listed in Schedule I and II of the Environmental Protection (Hazardous Waste Management) Regulations, 2000, to be hazardous. (Please see attached list.)

- 5.3 In the event that waste oil (recovered from oil-water separator or from servicing of generators) is stored on site, it should be stored in a covered, bunded area to minimize adverse impacts to the environment in the event of spillage. The bunded area must be labeled and must be able to provide containment for the maximum volume of waste oil on site.
- 5.4 Dispose of all waste oil in accordance with the Environmental Guidelines, 2011 for the 'Removal, Treatment and Disposal of Oily Sludge' (attached) or reuse waste oil as

lubricant for chainsaw or other equipment\machinery.

- 5.5 Store all fuel away from ignition sources and have '**No Smoking**' signs posted where fuel is handled or stored.
- 5.6 Ensure that oil/fuel contaminated adsorbent materials are appropriately stored and disposed of by double wrapping in heavy duty garbage bags and dispose of at an approved waste disposal facility. Hazardous contaminated absorbent pads can be disposed of by an authorised Hazardous Waste Disposal company.
- 5.7 Refrain from draining fuel/lubricants including waste oils of any quantity from equipment onto the ground or into waterways.

6.0. ENVIRONMENTAL EMERGENCY RESPONSE

- 6.1 Notify the Environmental Protection Agency **within 24 hours** of the occurrence of any environmental emergencies.
- 6.2 Provide adequate fire protection measures such as maintaining and placing firefighting equipment such as fire extinguisher, sand bucket, at a visible location on site, in accordance with guidelines established by the Guyana Fire Service.
- 6.3 Maintain a supply of oil-absorbent materials such as absorbent pads, sand, etc at the site for the clean-up of spills.
- 6.4 Treat and contain all spills even those which are minor with said oil absorbent materials.
- 6.5 Ensure that appropriate clean-up equipment such as spill trays, oil spill clean-up recover pump, oil spill dispersant spray system or sorbent pads are readily accessible during refueling exercises.

7.0 COMPLIANCE, MONITORING AND REPORTING

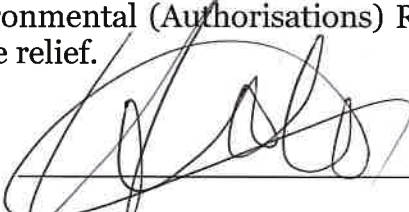
- 7.1 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees.
- 7.2 Make all employees, and third parties under your direction, aware of the conditions of the Permit and provide training on good environmental practices.
- 7.3 Submit annual reports 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** of each year.
- 7.4 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.

- 7.5 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.
- 7.6 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.
- 7.7 Submit to the Agency, a copy of the proof of land ownership within **one (1) week** of receipt.

8.0 INSTITUTIONAL AUTHORITY/LIABILITIES

- 8.1 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 (Authorisations) Regulations, 2000.
- 8.2 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 structures as determine by the Agency.
- 8.3 The Permit Holder 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.
- 8.4 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 8.5 The Permit Holder shall compensate any Party who suffers any loss or damage as a result of the attributed project. (Part V, s. 19(3)(e)) EP Act Cap. 20:05.
- 8.6 The Permit Holder shall be responsible for the payment of all costs related to the assessment of damage and costs for the independent assessor (s).
- 8.7 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.
- 8.8 The Permit Holder shall be liable of any gross negligence or willful misconduct caused by the Permit Holder, his Servants and / or Agents, to the environment, biodiversity, protected species and natural habitat with respect to any release or discharge, spill, contaminant fluids, oil or lubricants from the fuel storage.
- 8.9 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 EP Act Cap. 20:05.

- 8.10 Where it appears to the Agency (EPA) that the Permit Holder is engaged in any activity that may pose serious threat to natural resources or serious pollution of the Environment or any damage to public health, the (EPA) shall issue to the Permit Holder a Prohibition Notice Order to immediately cease the offending activity. S. 27 EP Act, Cap. 20:05.
- 8.11 The Permit Holder is obligated to ensure that the Fuel Storage Facility is permitted by other relevant authorities.
- 8.12 This Operation Permit is effective for the period stipulated herein; **February 28, 2019 to January 31, 2024.**
- 8.13 This Operation Permit shall remain valid until **January 31, 2024** unless otherwise suspended, cancelled, modified or varied in accordance with the provisions of this Permit or the Environmental Protection Act, Cap 20:05, Laws of Guyana, Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000.
- 8.14 This Permit must be renewed by submitting a completed *Application Form for Environmental Authorisation* (Operation Permit) to the Agency at least six months before this Permit expires, that is, no later than **December 31, 2024.**
- 8.15 Any late submission of renewal application(s) after the specified date as stated above, shall require the Permit Holder to pay, in addition to the renewal fee, a late penalty fee (accruing at the time such obligation was first owed for renewal) at a rate of **two thousand dollars (\$2,000.00) per day for every day late**, until such renewal application is submitted to the Agency, without prejudice to any other rights of the Permit Holder in connection therewith.
- 8.16 Failure to comply with the requirements of this Permit shall render the Permit Holder liable to prosecution and to penalties prescribed under the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental (Amendment) Act, 2005, and the Environmental (Authorisations) Regulations, 2000, including civil penalties and injunctive relief.

Signed by  on behalf of the Environmental Protection Agency

Dr. Vincent Adams
Executive Director

Date

15/3/19

I hereby accept the above Terms and Conditions upon which this Operation Permit is

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granted and agree to abide by the Environmental Protection Act, Cap, 20:05, Laws of Guyana, Environmental Protection (Amendment) Act, 2005, the Environmental Protection (Authorisations) Regulations, 2000, and any forthcoming regulations and standards made under this Act.

NAME	GAVIN GREENIE-MARSHALL
DATE	2 nd April, 2019
SIGNATURE	