



**Environmental
Protection
Agency**

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Operation Permit (Renewed)

(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.:	20080502-FSSIO
Fee:	Small (C1) US\$500 (5 years) i.e. US\$ 100 per year
Fee Paid:	US\$500 (April 2019- March 2024)
Retro- fee Paid	US\$200 (March 2017- September 2018)
Addressee:	David Shurland Manager Francis Shurland & Sons Inc. Essequibo Coast. <div data-bbox="1039 730 1474 892" style="border: 1px solid blue; padding: 5px; margin-top: 10px;">ENVIRONMENTAL PROTECTION AGENCY Database Updated K. Valenzuela 10 Apr, 19.</div>
Activity:	Operation of a Gas Station

David Shurland, 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 Gas Station located at 14, Section 'E', Adventure, Essequibo Coast, hereinafter referred to as the "Project", in a manner indicated in the Application for Renewal of Environmental Authorisation, submitted on September 24, 2018, and subject to the terms and conditions set forth herein and any forthcoming regulations, best practices, guidelines and standards relevant to this project.

This is a renewal of the Environmental Permit, Reference # 20080502-FSSIO, issued on March 12, 2014, which expired on February 28, 2017 and is deemed an Operation Permit - Renewed and issued pursuant to the Environmental Protection (Authorisations) Regulations, 2000.

Terms and Conditions for Operation by Permit Holder.

1.0 OPERATION

- 1.1 Notify the Agency in writing and obtain its approval for **ANY** proposed changes in the Gas Station 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:

- 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 Maintain compliance 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 Gas Stations.
 - 1.3 Maintain a sump below the fuel dispensers to capture any spillage that may occur.
 - 1.4 Ensure that pipe entries under pump sumps are sealed to prevent fuel leakage into ground and surface water.
 - 1.5 Ensure free access is maintained to the pipeline system for easy maintenance.
 - 1.6 Maintain an impervious secondary containment wall around the above-ground 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.
 - 1.7 Maintain an impervious secondary containment walls that should have the capacity to provide at least 110% containment around each above-ground fuel storage tank, creating a temporary holding area in the event of accidental spillage.
 - 1.8 Install leak detection mechanisms. At least two (2) of the following measures should be taken into consideration:
 1. Overflow alarms on tanks
 2. Dip stick method
 3. Gauging system
 4. Sensors on walls of tank
 5. Electric shut down buttons
 - 1.9 Ensure that corrosion control measures are in place to prevent the corrosion of underground steel tanks and pipe work.

- 1.10 Use water-based or biodegradable strippers, cleaners and degreases whenever possible.
- 1.11 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) Regulations 2000.
- 2.2 Not discharge 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;
- 2.3 Monitor the parameters listed in condition 2.2 on an annual basis at the point of discharge from the Gas Station into the receiving drain (after the effluent has passed through the oil/water separator) and submit the results to the Agency as a component of the Annual Report required in condition 7.10. Samples should be obtained when the Gas Station is fully operational.
- 2.4 Maintain an oil-water separator on site, through which all effluent must pass before final discharge.
- 2.5 Maintain the drainage system on site, which must be adequately sloped to collect storm flow. The drainage system should be cleaned regularly and free of waste and vegetation.

3 AIR QUALITY AND NOISE MANAGEMENT

- 3.1 Comply and adhere to the provision of the Environmental Protection (Air Quality) Regulations 2000 and the Environmental Protection (Noise Management) Regulations, 2000.
- 3.2 Comply with the Guyana National Bureau of Standards (GNBS) *Guidelines for Noise Emissions into the Environment*. Sound levels from noise-making devices

should not exceed the limits below, at a distance of 15 metres (50 ft) from the source or property boundary, whichever is closer.

Commerical Limits: **80 dB** [Day-time (06:00 h -18:00 h)]

65 dB [Night-time (18:00 h - 06:00 h)]

- 3.3 Ensure all significant noise-producing equipment, e.g. generators are equipped with appropriate silencers or mufflers and/or are enclosed in suitable acoustic enclosures where necessary to reduce noise levels impacting the surrounding environment to achieve compliance with GNBS requirement.
- 3.4 Continue to operate and service all mechanical equipment in accordance with manufacturer's specifications at all times. Additionally, ensure that mechanical equipment is regularly maintained and work at their optimal levels to minimize atmospheric emissions.
- 3.5 Implement a vapor recovery system for the offloading of bulk fuel, on site. Measures to reduce loading off loading emissions include selection of alternate loading methods and application of vapor recovery equipment.
- 3.6 Ensure no recreational activities are conducted on site (i.e. bar-b-ques, limes, public gatherings etc.).
- 3.7 Ensure that the exhaust stacks of the generator are atleast 2 meters above the generator house or the tallest building nearby, to minimize adverse fumes/soot impact to the mitigations area.

4.0 WASTE MANAGEMENT

- 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 Promote proper solid waste management and disposal practices at your facility. In particular, dispose of waste at the nearest designated waste management site or contract a Disposal Service that services the area to dispose of waste at a designated site. Place covered garbage receptacles at strategic locations around the operation.
- 4.3 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.

- 4.4 Ensure that a well maintained septic system is constructed on site. Septic tanks should be installed with a sand and charcoal filter bed, or other appropriate design for further treatment. This must be in accordance with the Guyana National Bureau of Standards Code of Practice for the Design and Construction of Septic Tanks and Associated Secondary Treatment and Disposal Systems. If Portable toilets are utilized, ensure regular emptying of its content to avoid mal-odour or overflow.

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) Regulations 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 minimization 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 Wastes 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 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 Protection Agency's 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.
- 5.8 Ensure all pumps and underground tanks are inspected regularly for leak detection.

6.0 ENVIRONMENTAL EMERGENCY RESPONSE

- 6.1 Notify the Environmental Protection Agency within **24 hours** of the occurrence of any environmental emergencies (e.g. oil spill, accidental discharge of hazardous materials/waste, fire, explosions etc).
- 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 spills of even a minor nature with 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 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.
- 7.2 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 Prepare and submit to the Agency an **Emergency Preparedness Plan** for approval by the Agency **three (3) months** after issuance of the Permit. The plan shall include:

- 5.1.1 The accident prevention procedures;
- 5.1.2 First person response;

- 5.1.3 Notification procedures;
 - 5.1.4 Location of clean-up equipment;
 - 5.1.5 An analysis of potential accidents and responses; and
 - 5.1.6 Safety Data Sheets for all materials which could be spilled.
- 7.5 Where applicable, maintain and submit to the Agency, records of the type, composition and quantity of contaminant released (i.e. any solid, liquid, gas, odour, sound, vibration, radiation, heat or a combination of any of them).
- 7.6 Where applicable, notify the Agency in writing of any change of name or ownership of the Permit Holder's facility within thirty days after the change occurs.
- 7.7 Where applicable, notify the Agency within **21 days** in event of death, bankruptcy, liquidation or receivership of the Permit Holder or if the Company becomes a party to an amalgamation.
- 7.8 Report to the Agency of any non-compliance with the Environmental Authorisation:
- I. Within **twenty-four (24)** hours of the time the Holder of the Environmental Authorisation becomes aware of the non-compliance, 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, its cause and the period of non-compliance including exact dates and time; and
 - 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.
- 7.9 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 **31 March** each year (please see attached, Annual Report form).

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 and/or amend the conditions and fees attached to this Permit, which also includes the review and/or amendment of Permit Fees in consideration of any changes in fee structure as determined by the Agency for projects of this nature.
- 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. Pursuant to s.37 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana, it is an offence to assault, obstruct or hinder an authorised 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.
- 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. (s. 19(3)(e)) EP Act Cap. 20:05.
- 8.6 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.
- 8.7 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 Gas Station.
- 8.8 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.
- 8.9 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.
- 8.10 The Permit Holder is obligated to ensure that the Gas Station is permitted by all other relevant authorities.
- 8.11 This Operation Permit (Renewed) is effective for the period stipulated herein; **April, 2019 to March, 2024.**
- 8.12 This **Operation Permit (Renewed)** shall remain valid until **March 31, 2024**, unless otherwise suspended, cancelled, modified or varied in accordance with the provisions of this Permit or the Environmental Protection

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- 8.13 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 **August 31, 2023**.
- 8.14 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.
- 8.15 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

Environmental Protection Agency



on behalf of the

Dr. Vincent Adams
Executive Director
Environmental Protection Agency

Date

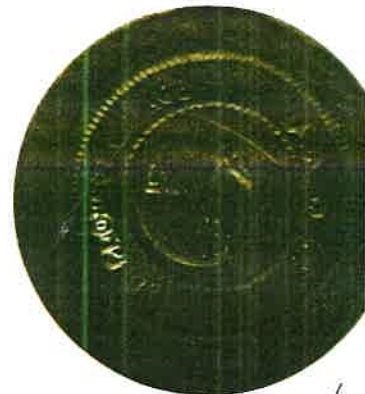
5/4/19

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, Laws of Guyana, Environmental Protection (Amendment) Act, 2005, the Environmental Protection (Authorizations) Regulations, 2000, and any existing or forthcoming regulations and standards made under this Act.

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NAME	DAVID SHORLAND
DESIGNATION	Manager
SIGNATURE	David Shorland
DATE	10-04-19



Handwritten initials or signature in blue ink.