



**Environmental  
Protection  
Agency**

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## Operation Permit (Renewed & Varied)

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

Reference No.:	20070405-AASSO
Fee:	Small (C1) US\$ 100 per year ( Gas station)
Fee:	Medium (C1) US\$ 500 per year (Marine Gas Station)
Fee Paid:	US\$3000.00 ( 5 years: August 2019 - July 2024)
Addressee:	Mr. Andron Alphonso Proprietor Xenon Service Station 16, Mudlot Kingston Georgetown.  <i>Denzel 23rd Aug 2019</i>
Activity:	Gas Station & Marine Gas Station

Andron Alphonso, operating as Xenon Service Station, hereinafter referred to as the "Permit Holder", is hereby authorized in accordance with the Environmental Protection Act, Cap. 20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorizations) Regulations, 2000, to operate a Gas Station and Marine Gas Station, located at 95, Charity, Pomeroon, Essequibo Coast, hereinafter referred to as the "Project", in a manner indicated in the Application for Renewal and Variance submitted on March 04, 2019, and subject to the terms and conditions set forth herein and any forthcoming regulations and standards relevant to this project.

This is a Renewal and Variance of the Operation Permit, Reference# 20070405-AASSO, issued on September, 2014, which will be expired on August 31 , 2019. The Operation Permit-Renewed and Varied is issued pursuant to the Environmental Protection (Authorization) Regulations, 2000

**Terms and Conditions for Operation to be adhered by Permit Holder::**

### 1.0 OPERATION OF GAS STATION

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

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.
- 1.1 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 Service Stations.
  - 1.2 Maintain a sump below the fuel dispensers to capture any spillage that may occur.
  - 1.3 Ensure that pipe entries under the pump sumps are sealed to prevent fuel leakage into ground and surface water.
  - 1.4 Route pipelines from tanks to offset filling points, dispensing equipment and vent pipes below the ground surface. Pipelines should not be located under buildings. Ensure free access is maintained to the pipeline system for easy maintenance.
  - 1.5 Maintain an impervious secondary containment wall that should have the capacity to provide at least 110% containment around each fuel storage tank, creating a temporary holding area in the event of accidental spillage.
  - 1.6 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 or electric shut down buttons.
  - 1.7 Ensure that corrosion control measures are in place to prevent the corrosion of underground steel tanks and pipe work.
  - 1.8 Ensure all employees are trained in good environmental management practices and of their obligations under the Permit.
  - 1.9 Ensure all pumps and underground tanks are inspected regularly for leak detection.

## OPERATION OF MARINE GAS STATION

- 5.10 Ensure that the dispensing of fuel to boats/vessels is done under strict guidance and that a shut-off mechanism is installed and activated in the event of a spill.
- 5.11 All mixture of fuel must be conducted on an impervious base, such as concrete floor and stored inland.
- 5.12 Storing of fuel in 5 gal pails on a pontoon (s) is (are) **strictly prohibited**.
- 5.13 The fuel dispenser hose must at all time be situated on the dispenser handle.
- 5.14 Implement the use of drippans when transferring fuel from the dispenser to the vessel.

## 2.0 WATER QUALITY

- 2.1 Adhere to the provisions of the Environmental Protection (Water Quality) Regulations, 2000.
- 2.2 Maintain an oil-water separator on site, through which all effluent must pass before final discharge.
- 2.3 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; and
  - Total Dissolved Solid (TDS) < 40 mg/L;
  - Total Petroleum Hydrocarbon (TPH) < 40 mg/L.
- 2.4 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 7.6. Samples should be obtained when the Gas station is fully operational.
- 2.5 Maintain the drainage system on site, which must be adequately sloped to collect storm flow.



### **3.0 NOISE MANAGEMENT & AIR QUALITY**

- 3.1 Adhere to the provisions 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.

Commercial Limits: **80 dB** (daytime (06:00 h - 18:00 h))  
**65 dB** (night-time (18:00 h - 06:00 h))

- 3.3 Ensure all sound-making devices, such as generators, are suitably enclosed within structures made with materials of good insulation properties (e.g. hollow concrete blocks, insulation boards, solid clay bricks, etc.) and equipped with silencers or mufflers to reduce the noise level.
- 3.4 Ensure that the exhaust stacks of the generator are 2 meters, above the generator room, to minimize adverse fumes/soot impacts to contiguous areas.
- 3.4 Ensure no recreational activities are conducted on site (i.e. bar-b-ques, limes, public gatherings, etc.).
- 3.5 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.
- 3.6 Comply with GEA guidelines for the design, constructions, modification and maintenance of petrol filling station.
- 3.7 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.

### **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 Maintain a septic system on site at all times. 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.
- 4.3 Maintain good house-keeping, sanitary and hygienic practices and the aesthetic quality of your surroundings at all times.
- 4.4 Maintain a good drainage system around the facility. The drainage system should be clean regularly and free of waste and vegetation.

## **5.0 HAZARDOUS WASTE MANAGEMENT**

- 5.1 Adhere to the provisions of the **Environmental Protection (Hazardous Wastes 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.
- 5.2 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 able to provide containment for the maximum volume of waste oil on site.
- 5.3 Dispose of all waste oil in accordance with the Environmental Protection Agency's, Environmental Guidelines on the 'Removal, Treatment and Disposal of Oily Sludge', 2011 (attached) or reuse waste oil as lubricant for chainsaw or other equipment\machinery.

- 5.4 Ensure that oil/fuel contaminated absorbent materials are appropriately stored and disposed; these material must be double wrapped in heavy duty garbage bags and disposed of at an approved waste disposal facility. Hazardous contaminated absorbent pads can be disposed of by an authorised Hazardous Waste Disposal company.
- 5.5 Refrain from draining fuel/lubricants including waste oils of any quantity from equipment onto the ground or into waterways.
- 5.6 Ensure that a spill containment kit is on site and easily accessible at the Gas Station at all times; which contains absorbent material, drain seals, disposal containers and absorbent spilt pads, etc.
- 5.8 Submit to the Agency within **three (3) months** of receipt of the Permit, an Emergency Preparedness Plan for approval. This Plan must be communicated to staff and contractor of the facility and shall include:
  - i. Accident Prevention Procedures;
  - ii. First Person Response;
  - iii. Notification Procedures;
  - iv. Location of clean-up equipment;
  - v. An analysis of potential accidents and response, and;
  - vi. Materials safety data sheet for all materials which could be spilled.
- 5.9 Submit to the Agency a notification and Clean-up Plan for the facility in the event of a spill. Clean-up Plan must include details of the location of all materials stored on site as well as notification and clean-up measures for each area of the operation in the event of a spill. This clean-up plan must be updated annually.

## **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; and obtain approval from said institution.
- 6.3 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**

- 7.2 Notify the Agency in writing of any change of name or ownership of the Permit

prescribed under paragraph (c) of the Fifth Schedule for doing so.

- 8.5 The EPA shall have the right to cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 8.6 The Permit Holder shall compensate any Party who suffers any loss or damage as a result of the attributed project. (s. 19 (3)(e)) Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 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 Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 8.10 Where it appears to the Agency 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, 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 Gas Station is permitted by all other relevant authorities.
- 8.12 This **Operation Permit (Renewed & Varied)** is effective for the period stipulated herein; **August 2019 to July 2024.**
- 8.13 This **Operation Permit (Renewed&Varied)** shall remain valid until **July 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 **February 29, 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)





**Environmental Permit (Renewed & Varied) Ref. No. 20070405-AASSO**

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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 including civil penalties and injunctive relief, as prescribed under the Environmental Protection Act, Cap. 20:05, Laws of Guyana and the Environmental Regulations, and any other existing or forthcoming applicable regulations and laws of Guyana.

Signed by  
Agency.

for




on behalf of the Environmental Protection

THE ENVIRONMENTAL PROTECTION AGENCY  
Database Updated

Date

2019.08.19

I hereby accept the above terms and conditions upon which this Operation Permit (Renewed & Varied) is granted and agree to abide by the Environmental Protection Act Cap.20:05, Laws of Guyana, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, and any existing or forthcoming regulations and standard made under this Act.

NAME:	
DESIGNATION:	
SIGNATURE:	
DATE:	

