



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.:	20170418-NDMAF
Fee:	Small (C1)-US\$ 500(5 years), i.e. US\$100 per year
Fees Paid:	USD 500 (June, 2018 – May, 2023)
Addressee:	National Drainage and Irrigation Authority Ministry of Agriculture. Regent Street & Vlissengen Road, Georgetown.
Activity:	Fuel Storage

ENVIRONMENTAL PROTECTION AGENCY
Database Updated
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National Drainage and Irrigation Authority, hereinafter referred to as the "Permit Holder", is hereby authorized in accordance with the Environmental Protection Act, 1996, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, to store fuel at a Storage Facility located at Lusignan North, East Coast Demerara, hereinafter referred to as the "Project", in a manner indicated in the Application submitted on April 18, 2017, 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 Infrastructure

- 1.1 Notify the Agency in writing of any proposed changes in fuel storage facility 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:

- Changes in construction, structure, or layout of the facility and all associated buildings.

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- 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 Ensure all firefighting equipment are maintained and serviced regularly.
- 1.3 Obtain approval from the Guyana Fire Service and provide fire protection measures such as fire extinguishers and sand buckets in accordance with this approval.
- 1.4 Maintain a sump below the fuel dispenser to capture any spillage that may occur.
- 1.5 Ensure that pipe entries under the pump sumps are sealed to prevent fuel leakage into ground and surface water.
- 1.6 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 to the pipeline system for easy maintenance.
- 1.7 Maintain 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.
- 1.8 Maintain corrosion control measures to prevent the corroding of the underground steel tank and pipe work.

2 Water Quality Management

- 2.1 Maintain an interceptor drain around the bond wall, which must be adequately sloped to collect storm flow.
- 2.2 Maintain oil/water separators at the final discharge point of the interceptor drain, all storm water collected within the bond wall and other area around the fuel storage must pass through the separators before final discharge. Recovered oil must be stored and disposed of in a manner approved by the EPA.
- 2.3 Water Quality at the final discharges point into the surrounding drain/canal should be in accordance with the *Guyana National Bureau of Standards Interim Guidelines for Industrial Effluent Discharge into the Environment*. The following are the allowable limits for a Petroleum Gas Station and should not be exceeded: Total Suspended Solids (TSS) < 100 mg/l; Oil and Grease < 20 mg/l.

3 Noise Management

- 3.1 Comply with the Guyana National Bureau of Standards (GNBS) *Guidelines for Noise Emissions into the Environment* for *Guidelines for Noise Emissions into the Environment*, not exceeding the residential 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)]

4 Waste Management

- 4.1 Promote good sanitation and solid waste disposal practices on-site. Covered garbage receptacles must be placed at strategic locations at the facility. Wastes must be collected and disposed of at an approved waste disposal facility. **Burning of Waste is strictly prohibited.**
- 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.*

5.0 Hazardous Waste /Materials Management

- 5.1 Adhere to the provisions of the Environmental Protection (Hazardous Wastes Management) Regulations, 2000.
- 5.2 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:
- 5.2.1 The accident prevention procedures;
 - 5.2.2 First person response;
 - 5.2.3 Notification procedures;
 - 5.2.4 Location of clean-up equipment;
 - 5.2.5 An analysis of potential accidents and responses; and
 - 5.2.6 Safety Data Sheets for all materials which could be spilled.
- 5.3 Store waste oil in a covered, bonded area to minimize adverse impacts to the environment in the event of spillage. The bonded area must be able to provide containment for the maximum volume of waste oil on site.
- 5.4 During transfer of hazardous materials (e.g. Gasoline & Diesel) drip pans and oil absorbent must be placed at connecting points.
- 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 an appropriate spill containment kit is located at the Fuel Storage Facility. The kit should contain absorbent material drain seals, disposal containers and other appropriate tools to absorb spilt oil and other spilt liquids.

- 5.7 Maintain an impervious secondary containment bund which should have at least 110% containment capacity around all fuel storage tanks, creating a temporary holding area in the event of spillage.
- 5.8 A leakage detector such as (Dipstick, etc), should be place on the storage tanks.

Disposal

- 5.9 Ensure that oil/fuel containment adsorbent materials are appropriately stored and disposed of by double wrapping in heavy duty garbage bags and disposed of at an approved waste disposal facility such as Tiger Tank (TTL). Hazardous contaminated absorbent pads can be disposed of an incineration operation such as Tiger Tank (TTL).
- 5.10 All waste oil must be label, store in a bonded area, or disposed by an approved waste oil disposal facility, such as Tiger tanks; or given to chainsaw operators.

6.0 Compliance Monitoring and Reporting

- 6.1 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.
- 6.2 Notify the Environmental Protection Agency within 24 hours of the occurrence of any environmental emergencies (e.g. oil spills, accidental discharge of hazardous materials/wastes, chemicals, etc.)
- 6.3 Make all employees, and third parties under your direction, aware of the conditions of the Permit and provide training on good environmental practices.
- 6.4 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 combination of any of them).
- 6.5 Report to the Agency of non-compliance with the Operation Permit:
- I. Within twenty-four (24) hours of the time the Holder of the Operation Permit 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.
 - 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.
- 6.6 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** of each year. Please see attached, *Guidelines for the Preparation of Environmental Annual Reports*.

- 6.7 Notify the Agency in writing of any change of name or ownership of the Permit Holders' facility within thirty days after the change occurs.
- 6.8 Notify the Agency within **21 days** in event of death, bankruptcy, liquidation or receivership of the Permit Holders or if the Company becomes a party to an amalgamation.
- 6.9 Conform to all terms and conditions under which this Permit is granted, and be liable for any loss or damage which arises from the Project as a result of the Permit Holders' activities or breach of any terms and conditions of this Permit.
- 6.10 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees and all third parties under your direction.
- 7.0 Institutional Authority/Liabilities**
 - 7.1 The EPA reserves the right to conduct regular inspections of the Permit Holders' operation as part of its monitoring and enforcement requirements under the Environmental Protection Act, 1996, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection Regulations, 2000.
 - 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 structure as determined by the Agency for projects of this nature.
 - 7.3 The Permit Holders 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.
 - 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 shall be strictly liable for any losses or damage to the environment through any act cause intentionally or recklessly, through the adverse effect of any discharge or release, or cause or permit the entry of pollution, contaminant in any amount, concentration or level in excess of that prescribed by the regulations or stipulated by any environmental authorisation which are attributed to the Project.S.19 (1) EP Act, Cap. 20:05.
 - 7.6 In accordance with the polluter pays principle, the Permit Holder shall bear the cost of measures to reduce pollution decided upon by the Agency or any other public authorities, to ensure that the environment is in an acceptable state, and should compensate citizens for any harm suffered from the pollution.

- 7.7 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.
- 7.8 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 lack of due care and diligence.
- 7.9 Should the Permit Holder contravene or is likely to contravene any condition of this Permit, the Agency (EPA) may serve on him an enforcement notice in accordance with s.26 of the EP Act Cap. 20:05.
- 7.10 Where it appears to the Agency (EPA) that the Permit Holder is engaged in any activity that may pose a 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
- 7.11 The Permit Holders shall be liable to compensate for any loss or damage to the environment that arises from the implementation of this project.
- 7.12 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, 1996, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection Regulations, 2000.
- 7.13 The Permit Holders are obligated to ensure that the Fuel Storage Facility and Storage Bond are permitted by other relevant authorities.
- 7.14 The Permit is effective for the period stipulated herein **(June, 2018 to May, 2023)**.
- 7.15 This Operation Permit shall remain valid until **May 31, 2023**, unless otherwise suspended or revoked in accordance with the provisions of this Permit or the Environmental Protection Act, 1996, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection Regulations, 2000.
- 7.9 This Permit must be renewed by submitting a completed *Application Form for Renewal of Environmental Authorisation* to the Agency at least six months before this Permit expires, that is, no later than **November 30, 2022**.

Signed by Shanifah Razack on behalf of the Environmental Protection Agency.
for Kemraj Parsram
Executive Director (Ag)
Environmental Protection Agency

Date 2018.06.06

I hereby accept the above terms and conditions upon which this Operation Permit is granted and agree to abide by the Environmental Protection Act, 1996, the Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, and any forthcoming regulations, best practices, guidelines and standards made under this Act.

NAME	<i>Fredrick Flatts</i>
DESIGNATION	<i>Chief Executive Officer, NDIA</i>
SIGNATURE	<i>F. Flatts</i>
DATE	<i>July 16, 2018</i>

