



**Environmental  
Protection  
Agency**

Ganges Street, Sophia,  
Georgetown, GUYANA  
Tel.: (592)-225-2062 / 1218 /  
0506 / 6917  
Fax: (592) 225-5481  
Email: [epa@epaguyana.org](mailto:epa@epaguyana.org)

## **Environmental 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**

<b>Reference No.:</b>	<b>20211001-FUELF</b>
<b>Fee:</b>	<b>Medium (C2) i.e., US\$ 800 per year</b>
<b>Fee Paid:</b>	<b>US \$ 4000 for 5 year(s) (December 2021 – November 2026)</b>
<b>Addressee:</b>	<b>Ms. Maleeka Ally Finance Manager Air Services Limited Eugene F. Correia International Airport Ogle, East Coast Demerara. Guyana.</b>
<b>Activity:</b>	<b>Operation of Fuel Farm Facility- Jet A1 Fuel &amp; Aviation Gas 100 LL</b>

Air Services Limited, hereinafter referred to as the “Permit Holder”, is hereby authorized 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 fuel at Eugene F. Correia International Airport, Ogle, East Coast Demerara, hereinafter referred to as the “Project”, in a manner indicated in the Application for Operation Permit for Existing Operations submitted on September 29, 2021, and subject to the terms and conditions set forth herein under the said Environmental Protection Act, Cap. 20:05, Laws of Guyana, existing and/or forthcoming regulations made under the said Act, and/or any applicable laws, guidelines, best practices and standards relevant to this project.

**Terms and Conditions for the operation to be adhered by the Permit Holder, his servant(s), agent(s) and/or sub-contractor(s):**

### **1.0 OPERATION**

- 1.1 Make an application to the Agency to vary this Environmental Permit in instances where it becomes necessary to:
  - i. Change the construction, operation, structure, or layout of the facility and all associated buildings;
  - ii. Change equipment, machine, apparatus, mechanism, system or technology serving the facility;

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- iii. Change the position and design of any outlet at the point or points of discharge of effluents; or
  - iv. Affect any other change outlined in 20(3) of the Environmental Protection (Authorisations) Regulations.
- 1.2 Adopt and comply with the Guyana National Bureau of Standards "*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 Submit to the Agency **within three (3) months** of receipt of the Permit, an **Emergency Response Plan (EMP)** for approval. This Plan shall be communicated to employees, and third parties under your direction and include, but not be limited to:
- 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;
  - vi. Material safety data sheets for all materials which could be spilled; and
  - vii. An Incident Clean-up Plan.
- 1.4 A clear sign outlining spill clean-up procedures and emergency contact numbers shall be prominently displayed at the fuel farm at all times.
- 1.5 An Operation and Maintenance Manual shall be 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.
- 1.6 The Operation and Maintenance Manual shall be submitted to the Agency upon request.
- 1.7 Make all employees, and third parties under your direction, aware of the conditions of the Environmental Authorisation and provide training on good environmental practices. Annual training schedule shall be kept and submitted to the EPA upon request.
- 1.8 Obtain and maintain Guyana Fire Service approval and submit a copy to the EPA.
- 1.8.1 Fire prevention and control equipment shall be maintained in accordance with the Guyana Fire Service approval.
- 1.9 Store all fuel away from ignition sources and have '**No Smoking**' signs posted where fuel is handled or stored.



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- 1.10 Protection measures such as painting and coating shall be employed to minimize corrosion of the fuel tanks.
- 1.11 All tanks shall be properly tested by competent persons to verify its integrity. All tests shall be documented including a clear indication of the scope, type and results of the tests. Results shall be kept and submitted to the Agency upon request.
- 1.12 Visual inspections of the fuel tanks shall be conducted in accordance with the specifications outlined below:

- 1. Jet A1 Fuel storage tanks (Two (2) 40, 000 gallons)**

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

- 2. Aviation Gas 100 LL (Two (2) 20, 000 gallons)**

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

The results shall be kept and submitted to the Agency upon request.

- 1.13 Secondary containment wall shall be inspected monthly for cracks and breakage to ensure it is liquid tight to withstand hydrostatic pressure of any contained liquid when full. Inspection reports shall be kept and submitted to the Agency upon request.
- 1.14 All secondary containment shall be 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 containment.
- 1.15 Tanks and pipeline layout shall minimize 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.
- 1.16 Overfill protection shall be installed and maintained on all fuel tanks. This may include an automatic shut off device or an audible or visible overfill alarm.
- 1.17 In an emergency switch off all pumps using the automatic pump cut-off. Switches shall be readily accessible to the console attendant and be clearly marked 'Emergency Shut-off Switch'.
- 1.18 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.



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- 1.19 Install at least two (2) of the following leak detection mechanism:
- I. An overflow alarm on tanks;
  - II. A gauging system;
  - III. Dipstick measurements; or
  - IV. Sensors installed on walls of tanks.
- 1.20 The Best Available Technology/Technique (BAT) shall be employed to capture fuel lost during the unloading of fuel to storage tanks, transfer of fuel to browser trucks and refueling of equipment.
- 1.21 All storage infrastructures shall be fitted with protection against collision damage such as barricades.
- 1.22 Adhere to the requirements of the **Occupational Safety and Health Act, Cap. 99:01, Laws, of Guyana.**
- 1.22.1 Employees shall be equipped with Personal Protective Equipment relevant to the occupational tasks during operation.

## **2.0 WATER QUALITY**

- 2.1 Strictly adhere to the provisions of the **Environmental Protection (Water Quality) Regulation 2000.**
- 2.2 All equipment refueling shall be conducted on an impervious surface.
- 2.3 All effluent from the secondary containment bunds shall be channeled through an oil-water separator before final discharge. The oil-water separator at the following final discharge points shall be maintained:
- **ASL Oil-Water Separator** - GPS Coordinates 21N 0377806  
UTM 0752390
- 2.4 Maintain the oil-water separator and keep a maintenance log to be submitted to the EPA upon request.
- 2.5 Do not discharge effluent directly into receiving waters without prior treatment. Effluent from the oil-water separator shall be in accordance with the Guyana National Bureau of Standards (GNBS) *Interim Guidelines for Industrial Effluent Discharge into the Environment*. The following allowable limits shall not be exceeded:
- Oil and Grease < 10 mg/L;
  - Total Dissolved Solid (TDS) < 40 mg/L; and
  - Total Petroleum Hydrocarbon (TPH) < 40mg/L

A water quality monitoring plan including but not limited to sampling point/s displayed on a map and frequency of sampling shall be submitted to the EPA for

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approval.

Monitoring of the parameters above shall be conducted at the approved sampling point/s and the results analysed at a GNBS certified laboratory or trained personnel using calibrated equipment. Analyses shall be submitted to the Agency as part of the Annual Report.

- 2.6 Emergency spill cleanup kits shall be maintained at all fuel storage sites for response to potential spills. Kits shall contain absorbent materials, drain seals and other appropriate tools for clean-up.
- 2.6.1 Oil spills shall be cleaned-up by the best practicable means, to prevent runoff into the waterways.

- 2.7 Fuel/lubricants including waste oils shall not be drained from equipment onto the ground or into waterways.
- 2.8 Maintain perimeter drains, which must be adequately sloped to collect storm water.

### **3.0 AIR QUALITY AND NOISE MANAGEMENT**

- 3.1 Strictly 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 Emission into the Environment at a distance of 15 m (50 ft) from the source or at the property boundary, whichever is closer.

Industrial Limits: **100 dB** during the daytime (06:00 h - 18:00 h)  
**80 dB** during the night-time (18:00 h - 06:00 h)

- 3.3 Enclose all sound-making devices such as generators, within structures made with materials of good insulation properties (e.g., hollow concrete blocks, insulation boards, solid clay bricks, etc.), and equip with silencers or mufflers to reduce the noise level.
- 3.4 Exhaust stacks of the generator shall be at least 2 meters above the generator room, to minimise adverse fumes/soot impacts to contiguous areas.
- 3.5 Operate and service all mechanical equipment in accordance with manufacturer's specifications to ensure efficiency. Mechanical equipment shall be regularly maintained, and operate at their optimal levels to minimise atmospheric emissions.
- 3.6 Implement a vapor recovery system for the offloading of bulk fuel on site. Measures to reduce emissions include selection of alternate loading methods and application of vapor recovery equipment.

#### **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 shall be placed at strategic locations at the facility, and waste shall be collected and disposed of at an approved waste disposal facility.
- 4.2 Utilise the best practicable means of handling, storing and disposing of all waste materials at all times.
- 4.3 Maintain a septic system on site at all times. The septic tank shall not be located within 1.5 m of a building or property boundary, and shall 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*.
- 4.4 Maintain good housekeeping, sanitary and hygienic practices and the aesthetic quality of your surroundings at all times.
- 4.5 Burning of garbage is **strictly prohibited** on site.

#### **5.0 FUEL, WASTE OIL AND HAZARDOUS WASTE/MATERIAL MANAGEMENT**

- 5.1 Strictly adhere to the provisions of the Environmental Protection (**Hazardous Waste Management**) **Regulation 2000**.
- 5.2 Waste oils recovered from oil-water separator or from servicing of generators shall be stored in covered bunded area to minimize adverse impacts to the environment in the event of a spillage. The bunded area shall be clearly labeled and have the capacity to provide 110% containment of the total volume of waste oils stored.
- 5.3 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, Press wash, Oil and Oily Absorbents.
- 5.4 All hazardous waste containers shall be labelled with the following:
  - i. The words "Hazardous Waste";
  - ii. The type of waste; and

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- iii. Beginning of accumulation date.
- 5.5 All waste oil containers shall be labelled with the following:
- i. The words "Waste Oil" or "Used Oil";
  - ii. Beginning of accumulation date.
- 5.6 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.
- 5.7 Store all fuel waste above ground level in a bunded area to allow easy maintenance and leak detection.
- 5.8 Oil/fuel contaminated absorbent materials shall be appropriately stored and disposed by double wrapping in heavy duty garbage bags.
- 5.9 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 shall be submitted to the EPA as a component of the **Annual Report**.
- 5.10 A register of the types and quantities of fuel and associated hazardous materials stored onsite shall be established and maintained. The registered information shall be submitted to the Agency as a component of the **Annual Environmental Report**.
- 5.11 Submit an Incident Report to the Agency **within seven (7) days** of an unplanned release or spill of fuel and/or chemicals, detailing the root cause of the spill, volume spilled, immediate action(s) taken, recommendation(s) to be implemented to avoid a similar event, location of all materials stored on site and notification and clean-up measure for each site of operation.

**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 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.
- 6.3 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.

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- 6.4 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, heat or combination of any of them).
- 6.5 Submit **Annual Reports** to the EPA on your compliance with this Permit on or before **March 31**, each year.
- 6.6 Report to the Agency any non-compliance(s) with the Environmental Permit:
- I. **Within twenty-four (24) hours** of the time the Holder of the Environmental Authorisation for operation becomes aware of the non-compliance outlining the anticipated manner in which human health or the environment may be impacted.
  - II. **Within seventy-two (72) hours** of the time the Holder of the Environmental Permit becomes aware of the non-compliance, submit to the Agency a written report containing a description of the non-compliance, its cause, the period of non-compliance including exact dates and time and the anticipated time it is expected to continue if the non-compliance(s) has not been corrected.
- 6.7 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.

**7.0 INSTITUTIONAL AUTHORITY/ LIABILITIES**

- 7.1 The Permit Holder shall be liable for any material environmental harm caused by polluting the environment, pursuant to s. 39 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 7.2 The Permit Holder shall be liable for any serious environmental harm caused by polluting the environment, pursuant to s. 39 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 7.3 The Permit Holder shall be liable for any activity that causes or is likely to cause pollution of the environment unless all reasonable and practicable measures are taken to prevent or minimize any resulting adverse effect, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 7.4 The Permit Holder shall be liable for discharging, causing or permitting the entry into the environment, of any contaminant in any amount, concentration or level excess of that prescribed by the regulations or stipulated by this Environmental Permit, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 7.5 The Permit Holder shall be liable to compensate any person who suffers any loss or

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damage as a result of contravening conditions 8.3 and 8.4 of this Environmental Permit, pursuant to s. 19 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.

- 7.6 The Permit Holder shall not be indemnified by the Agency for any activity that causes or is likely to cause pollution to the environment, resulting from adverse effects through the discharge, any contaminant in any amount, concentration, ultra-hazardous substances, chemicals or otherwise, and shall be rendered liable to prosecution and to penalties prescribed under the Environmental Protection Act and Regulations.
- 7.7 The Permit Holder shall be liable to 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, discharge, or spill, of contaminant fluids, oil or lubricants.
- 7.8 Shall the Permit Holder contravene or be likely to contravene any condition of this Permit, the Agency (EPA) may serve on him an Enforcement Notice in accordance with Section 26 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 7.9 Where it appears to the Agency that the Permit Holder is engaged in any activity that may pose a serious threat to natural resources or the environment, or a risk of serious pollution of the environment or any damage to public health, the EPA may issue to the Permit Holder a Prohibition Notice, which may order him to immediately cease the offending activity, in accordance with Section 27 of the Environmental Protection Act, Cap. 20:05, Laws of Guyana.
- 7.10 The Agency (EPA) reserves the right to conduct regular inspections of the Permit Holder's construction activities as part of its monitoring and enforcement requirements under the Environmental Protection Act, Cap 20:05, and the Environmental Protection (Amendment) Act, 2005, and Environmental Protection (Authorisations) Regulations, 2000.
- 7.11 This Permit Holder, His Servants and/or Agents 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 Section 38 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.
- 7.12 The EPA has the right to modify, cancel or suspend this Permit for breach of any of the terms and conditions contained herein.
- 7.13 **The Environmental Permit is not the final consent; all relevant Permissions shall be obtained from other regulatory bodies for continued operation.**

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- 7.14 This Environmental Permit is effective for the period stipulated herein (**December, 2021 to November, 2026**).
- 7.15 This Environmental Permit shall remain valid until, **November 30, 2026**, unless otherwise cancelled, suspended, 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.
- 7.16 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 **May 31, 2026**.
- 7.17 Any late submission of renewal application(s) after the specified date as stated above, may 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 business day late, until such renewal application is submitted to the Agency, without prejudice to any other rights of the Permit Holder in connection therewith.
- 7.18 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 Sharifah Razack on behalf of the Environmental Protection Agency.  
Kemraj Parsram  
Executive Director

Date

2021. 12.08

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I hereby accept the above Terms and Conditions upon which this Environmental 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 (Authorisations) Regulations, 2000, and any existing or forthcoming regulations, standards and best practices made under this Act.

NAME	Totaram Mangroo
DESIGNATION	Driver / Expeditor
DATE	2021 - 12 - 24
SIGNATURE	

