



Environmental Protection Agency

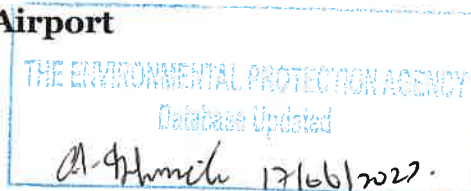
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Environmental Permit

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.

Reference No.:	20191101-CAMSL
Fee:	Medium (C1) - US\$ 500 per year
Fees Paid:	US\$ 2,500 for five (5) years – May, 2022 to April, 2027

Addressee: Caribbean Aviation Maintenance Services Ltd.
Eugene F. Correia International Airport
Ogle,
East Coast Demerara



Activity: Operation of a Fuel Farm

The Caribbean Aviation Maintenance Services Ltd., herein referred to as the "Permit Holder", is hereby authorised in accordance with the Environmental Protection Act, Cap. 20:05, Laws of Guyana, Environmental Protection (Amendment) Act, 2005, and the Environmental Protection (Authorisations) Regulations, 2000, the Operation of a Fuel Farm at Eugene F. Correia International Airport, Ogle, East Coast Demerara, Region 4, hereinafter referred to as "the Project", in the manner indicated in the Application submitted on November 01, 2019, subject to the terms and conditions set forth herein under the Environmental Protection Act, existing or forthcoming regulations made under the said Act and/or any other applicable Laws of Guyana, best practices, guidelines and standards relevant to this project.

Terms and Conditions for the operation to be adhered to by the Permit Holder, his servants, agents and sub-contractors:

1.0 GENERAL

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

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- serving the facility;
- 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 Adhere to requirements of the **Occupational Health and Safety Act, Cap 99:10, Laws of Guyana**.
- 1.3 Employ or designate an employee to the role of an **Occupational Health and Safety (OHS)/Environmental Officer** to be responsible for the implementation and coordination of all safety requirements and terms and conditions stipulated in this Permit, as well as compliance monitoring with the preparation of all required reports.
- 1.4 Make all employees, and third parties under your direction, aware of the conditions of the Environmental Authorisation and provide training on good environmental practices.
- 1.5 Obtain and maintain approval from the Guyana Fire Service and provide fire protection measures in accordance with this approval.
- 1.6 The Project shall be implemented in accordance to the approved Environmental Management Plan, Waste Management Plan, all plans, specifications of location, pathways, reserve and boundary lines must be adhered to, unless otherwise authorised; evidence of which must be provided to the Agency.
- 1.7 **The Permit Holder shall submit to the EPA upon receipt, the requisite approvals from the Central Housing and Planning Authority (CH&PA), the relevant Municipality or any other authority with jurisdiction and oversight over the Project.**
- 1.8 All equipment used shall be monitored and maintained in accordance with the manufacturer's specifications. A maintenance schedule shall be made available to the EPA upon request.
- 1.9 Fuel shall at all times be stored above-ground, in a cool, dry place and away from ignition sources. **'No Smoking'** signs shall be posted where fuel is handled or stored
- 1.10 Protection measures such as painting and coating shall be maintained to minimize corrosion of the fuel tanks.
- 1.11 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 upon request.

- 1.12 All tanks shall be tested by competent persons to verify their integrity annually. All tests shall be documented including a clear indication of the scope, type and results of the tests. The test methods and results shall be submitted to the Agency upon request.
- 1.13 Visual inspections of the fuel tanks shall be conducted in accordance with the specifications outlined below. These results shall be submitted to the Agency as part of the **Annual Report** referred to within condition 6.4.
- 1. Four (4) Av Jet A1 Tanks**
- Quarterly inspections internally by CAMS
 - Formal External Inspection by a certified inspector bi- annually
- 2. One (1) Av Gas Tank**
- Quarterly inspections internally by CAMS
 - Formal External Inspection by a certified inspector bi- annually
- 1.14 The secondary containment shall have the capacity to provide 110% containment of the total volume of fuel stored. Secondary containment walls shall be constructed of steel, reinforced concrete, reinforced masonry or other suitable material and shall be designed and constructed to be liquid tight as well as capable of withstanding the hydrostatic pressure of the contained liquid when full.
- 1.15 All secondary containment shall be sealed and all piping must enter or exit the containment over the wall. Secondary containment shall provide total containment, and no part of the tank infrastructure (e.g. dispenser, filling hoses and valves) shall protrude outside the containment.
- 1.16 Secondary containment/ impervious bases shall be established under all piping systems to and from the fuel storage systems
- 1.17 Tanks and pipeline layout shall minimise 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.
- 1.18 Existing secondary containment around the **three (3) Av Jet A1** tanks shall be inspected monthly for cracks and breakage to ensure they are liquid tight to withstand hydrostatic pressure of any contained liquid when full. Inspection reports shall be submitted to the Agency upon request.
- 1.19 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.
- 1.20 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.
- 1.21 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 refuelling of equipment.

- 1.22 Leak detection systems shall be installed on all bulk storage fuel tanks. At least two (2) of the following measures should be implemented:
1. Overflow alarms on tanks;
 2. Gauging system;
 3. Dipstick measurements;
 4. Sensors on walls of tanks or;
 5. Electric shut down buttons.

2.0 WATER AND SOIL QUALITY MANAGEMENT

- 2.1 Strictly comply with the provisions of the **Environmental Protection (Water Quality) Regulations 2000**.
- 2.2 All equipment refuelling shall be conducted on an impervious surface.
- 2.3 All effluent from the secondary containment bunds shall be channeled through the oil-water separator before final discharge. The GPS coordinate for this final discharge point shall also be submitted as a component of the **Annual Report** at condition 6.4.
- 2.4 Maintain the integrity of the existing waterways at all times. Discharges into the environment shall 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 this type of project and should not be exceeded:
- I. Total Suspended Solid (TSS) < 50 mg/L;
 - II. Oil and Grease < 10 mg/L.
 - III. Total Petroleum Hydrocarbon (TPH) < 40mg/L
- A water quality monitoring plan shall be submitted to the EPA for approval by **September 30, 2022**.
- Monitoring shall be conducted in accordance to the approved plan and the results 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. Oil spills should 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 Perimeter drains shall be maintained on site. These must be adequately sloped to collect storm flow.

3.0 AIR QUALITY MANAGEMENT AND NOISE ABATEMENT

- 3.1 Strictly comply with the **Environmental Protection (Air Quality) Regulations, 2000** and the **Environmental Protection (Noise Management) Regulations 2000**.

- 3.2 Monitor noise emissions in accordance with the approved ESMP to determine compliance with the **Guyana National Bureau of Standards (GNBS) Guidelines for Noise Emissions into the Environment**. Sound levels from noise-making devices shall 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 during the daytime (06:00 h - 18:00 h)
65 dB during the night-time (18:00 h - 06:00 h)

- 3.3 Enclose all sound-making devices, such as generators, in structures constructed with materials of good insulation properties (e.g. hollow concrete blocks, insulation boards, solid clay bricks, etc.), equip with silencers/mufflers to reduce noise level, and place on properly designed foundations to ensure effective damping of vibrations.

- 3.4 Exhaust stacks of generators shall be at least 2 metres above the tallest building nearby, so as to minimize adverse fumes/soot impacts to the contiguous areas.

- 3.5 All generators and machines/equipment shall be serviced in accordance to manufacturer specification to ensure efficiency and reduce the level of noise produced. Maintenance report shall be kept and submitted to the EPA upon request.

4.0 HAZARDOUS WASTE MANAGEMENT

- 4.1 Adhere to the provisions of the **Environmental Protection (Hazardous Waste Management) Regulations, 2000**.

- 4.2 Waste oil, recovered from servicing machinery, shall be in a covered, bunded area to minimise adverse impacts to the environment in the event of spillage. The bunded area should be extended to provide **at least 110%** containment of the largest container/volume of fuel/waste oil stored on site.

- 4.3 An Occupational Safety, Health and Environmental Management Training Schedule for staff involved in the collection, storage and handling of hazardous waste shall be established. The training report(s) shall be kept and submitted to the EPA upon request.
- 4.4 All hazardous waste shall be stored in containers appropriate for the waste stream. That is:
- A. Plastic Containers**
- Water- based wastes
 - Fountain Solutions, Pre- Press
- B. Metal Containers**
- Solvents and Petroleum- based products
 - Waste ink, Presswash, Oil and Oily Absorbents
- 4.5 All hazardous waste containers shall be labelled with the following:
- A. The words “**Hazardous Waste**”
 - B. The type of waste
 - C. Beginning accumulation date-
- 4.6 All waste oil containers shall be labelled with the following:
- A. The words “**Waste Oil**” or “**Used oil**”
 - B. Beginning accumulation date
- 4.7 All hazardous waste shall be stored in a covered, bunded area. This area shall include the following:
- A. Signage- “**Hazardous Waste Storage Area**”
 - B. Low traffic
 - C. No floor drains
- 4.8 All hazardous waste shall be disposed and or treated by an EPA authorised Hazardous Waste Disposal Facility. All hazardous waste treatment and disposal shall be documented on a Waste Manifest Form which must submitted to the EPA as a component of the **Annual Report** referred to within condition 6.4.

5.0 WASTE MANAGEMENT

- 5.1 Strictly adhere to the provisions of the **Environmental Protection (Litter Enforcement) Regulations 2013** and the **Environmental Protection (Hazardous Waste Management) Regulations, 2000**.

- 5.2 Maintain good housekeeping, sanitary and hygienic practices and the aesthetic quality of the surroundings at all times.
- 5.3 Promote proper solid waste management and disposal practices at the site, place covered garbage receptacles at strategic locations around the site.
- 5.4 Burning and Dumping of waste into the surrounding environment is **strictly prohibited**. Waste, inclusive of waste oil and/or fuel, shall not be stored within 10 meters of any waterways.
- 5.5 Hazardous waste shall be treated and/or disposed 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** as in condition 6.4. Details must include:
 - A. Type of waste produced, and;
 - B. Quantity of waste.

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 spill, 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 Monitor the implementation of the conditions of this Permit, insofar as they involve adherence by your employees and all third parties under your direction.
- 6.3 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.
- 6.4 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.
- 6.5 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).
- 6.6 Submit an **Annual Report** to the EPA on your compliance with this Environmental Permit on or before **March 31, each year**.
- 6.7 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 Permit 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.
- 6.8 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.
- 6.9 It is the responsibility of the Permit Holder to ensure the permitted activity and premises are secured and that all practicable steps necessary to prevent fires, explosions, leaks or suspected leaks and spills at the permitted premises are taken.
- 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 damage as a result of contravening conditions 7.3 and 7.4 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

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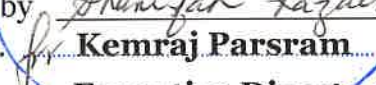
- to prosecution and to penalties prescribed under the Environmental Protection Act and Regulations.
- 7.7 The Permit Holder shall be liable of any gross negligence or willful misconduct caused by the Permit Holder, his Servants and/or Agents, to the environment, biodiversity, protected species and natural habitat with respect to any release, discharge, or spill, of contaminant fluids, oil or lubricants.
- 7.8 Should 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 EPA reserves the right to conduct regular inspections of the Permit Holder's activities as part of its monitoring and enforcement requirements under the **Environmental Protection Act, Cap. 20:05**, the **Environmental Protection (Amendment) Act, 2005**, and **Environmental Protection (Authorisations) Regulations, 2000**.
- 7.11 The 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 This Environmental Permit is not the final consent; all relevant Permissions should be obtained from other regulatory bodies for continued operation.
- 7.14 This **Environmental Permit** is effective for the period stipulated herein **May, 2022 to April, 2027**.
- 7.15 This Environmental Permit shall remain valid until **April 30, 2027**, unless otherwise suspended, cancelled, modified or varied, in accordance with the **Environmental Protection Act, Cap. 20:05, Laws of Guyana**, e.s

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- 7.16 This Environmental Permit shall be renewed by submitting "an Application for Renewal of Environmental Authorisation to the Agency at least six (6) months before this Permit expires, that is, no later than **October 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 renewal fee, a late penalty fee (accruing at the time such obligation was first owed for renewal) at a rate of **two thousand dollars (GY\$2000.00) 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

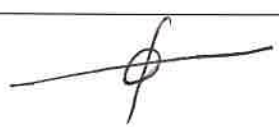
Signed by  on behalf of the Environmental Protection Agency. 
Executive Director

Date 2022-05-25

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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, the Environmental Protection (Amendment) Act, 2005, the Environmental Protection (Authorisations) Regulations, 2000, and any forthcoming regulations, best practices, guidelines and standards made under this Act.

NAME:	COMPTON, Sample
SIGNATURE:	
DESIGNATION:	Director
DATE:	27/05/22



