

## AVGAS BULK REFUELING PROCEDURES

### INTRODUCTION

1. AVGAS fuel storage by the RAAF Amberley Flying Club (RAFC) is currently managed by the use of 2 shipping containers. The committee manage fuel levels between the available fuel storage vessels.

### PURPOSE

2. The purpose of this document is to outline the operating procedures that apply when refuelling RAFC or private aircraft at Amberley.

3. Refer to Air Command Directive 02\_2016 for RAAF policy regarding fuel management which RAFC must comply with.

### INSTRUCTIONS

#### Access Control

4. Access to the two AVGAS containers is by pad locks. Keys are held in the RAFC key board inside the clubhouse Building 254. Personnel are only to be granted access to the facility on completion of the required training (see below).

#### Fuel Management

5. **Issuing of AVGAS.** RAFC supply AVGAS and as such the RAFC OIC is the authority for the issue of AVGAS. RAFC members may refuel RAFC aircraft and record the details on the fuel record sheet located inside the container. Copies of the sheet are provided at Annex 1. Private operators may utilise RAFC fuel supplies for private use and are individually responsible for completing payment with RAFC at the current fuel price.

6. **Other Users.** RAFC may be contacted to sell fuel to visiting aircraft, contact details are published at [www.rafc.net.au/about/contacts](http://www.rafc.net.au/about/contacts)

7. **Spill Plan.** Spill plan is IAW 23SQN MEOMS BLI 035 – *Aviation Fuel Spill Emergency Response Plan*, hard copy in the facility. A spill kit is provided at the facility.

8. **Decontamination Plan.** An eye wash station is provided at the RAFC AVGAS storage area and a full body deluge shower is available inside hangar 258. Whenever aircraft are being refuelled ensure Hangar 258 apron side main hangar doors are open to allow quick access to the shower. This shower is alarmed and will alert fire section in an emergency to provide additional assistance. Hard copies of the plan are visible inside the container.

9. **Earthing.** IAW CASA CAO 20.9, all aircraft being refuelled must be moved in front of the AVGAS storage containers and parked no less than 5m away. An earthing lead is available inside the container and must be connected between the bottom door locking lug of the container and the earthing point of the aircraft (typically exhaust or nose gear leg).

#### User Training

10. OIC RAFC is responsible for ensuring that all initial users of the AVGAS facility are appropriately trained. Prior to using the facility, the user must complete the operator training outlined in appendix 3. On successful completion of this training, a user is authorised to train other users.

11. Safety awareness briefings regarding use of this facility and Air Force Safety presentation on handling small quantities of fuel is to be presented at each RAFC safety day.

## Facility Layout

12. Each AVGAS storage container is labelled with appropriate external hazardous goods signage, and internally with appropriate spill and emergency plans. Each container contains a bunded AVGAS storage vessel equipped with a hand pump and hose, earth lead, PPE and protective mat to prevent scratching of aircraft wings around the refuelling cap.



**Figure 1:** AVGAS container internal layout

## Risk Assessment

13. CASA Pilot Training covers refuelling procedures for GA aircraft and all operators will receive training before use (ref CASA CAO 20.9).

14. Ref also RAFC/23SQN risk assessment on AVGAS refuelling with residual risk of Very Low.

## Appendices:

1. AVGAS Fuel Issue Sheet
2. AVGAS Refuelling PPE Requirements
3. AVGAS Refuelling Operator Training Syllabus
4. AVGAS Refuelling Procedures



## **AVGAS REFUELLING PPE REQUIREMENTS**

1. Refuelling operations from the AVGAS containers shall be carried out with the following minimum list of personal protective equipment:

- a. Protective goggles or full face shield
- b. Fuel resistant gloves
- c. GPU uniform or flying suit (sleeves down), or
- d. Civilian attire: 100% cotton.

## AVGAS REFUELLING TRAINING SYLLABUS

The below checklist publishes a list of points that operators are to be made familiar with before being authorised to refuel with AVGAS at Amberley.

- Location of key and requirement to put key back after use
- PPE requirements
- Use of refuelling equipment including taps, hoses, hand pumps and protective matting over the aircraft wing.
- Location of fire extinguishers
- Location of eye-wash station & hangar deluge shower (decontamination plan)
- Location of the fuel spill kit
- Location of tested fuel waste evaporation container (bucket)
- Location of relevant instructions, signs and warnings
- Location of fuel issue record sheets and instructions on what details are to be recorded
- Payment options (private aircraft use only)
- Location and operation of the earth lead
- Requirement to fully secure facility after use including
  - Retracting and leads and hoses
  - Closing and pad-locking the doors
  - Replacing the key on the RAFC key board
- Details of the operating checklist
- Location of RAFC spill kits and details of AMB 23SQN MEOMS BLI 035 – *Aviation Fuel Spill Emergency Response Plan*
- Defence Fuel Installation officer reporting requirements for all fuel spills (any quantity)
- Emergency contact numbers

Provide copy of PowerPoint presentation *Fuel – Small Quantities Safe Handling and Decanting* available at <https://www.rafc.net.au/aviation-safety/>

## AVGAS REFUELLING PROCEDURES

1. Ensure aircraft is at least 5m from container & 6m from other aircraft (CASA CAO 20.9)
2. Connect Earth lead between aircraft and container
3. Place protective mat over wing refuelling point
4. Utilise PPE:
  - Appropriate attire (GPU, Flying Suit, other 100% cotton)
  - Gloves
  - Goggles
5. Conduct refuelling. Open fuel tap only once equipment is in place ready to commence refuelling
6. Operate hand pump and dip tanks regularly to ensure required quantity is delivered and not over-filled
7. Ensure fuel used is recorded on AVGAS ISSUE RECORD
8. Conduct aircraft fuel/water test. Tested fuel in waste container
9. Disconnect earth lead
10. Return all equipment inside container & lock
11. **Ensure key is returned**

<b>FIRE</b>	<b>07 536 12333</b>	<b>EMERGENCY</b>	<b>000</b>
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Note locations of:

FIRE EXTINGUISHERS



EYE WASH STATION  
& SHOWER (HANGAR)



SPILL KIT

