

CAP 1395

Safety Standards Acknowledgement and Consent (SSAC)

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Contents

Contents	3
Revision history	7
Feedback	7
Terminology and definitions	8
Chapter 1	9
Introduction	9
General	9
Intended use	9
Chapter 2	10
Legal requirements	10
General	10
SSAC Exemption	10
Chapter 3	11
Types of SSAC operations	11
Classes of aviation activity	11
Maximum number of participants per class of aviation activity	11
Chapter 4	12
SSAC applications	12
Applications for SSAC	12
Initial SSAC applications	12
SSAC Operations Manual	12
Operators of CAP632 aircraft	12
SSAC Operations Manual amendments	13
Validity	13
SSAC Renewal applications	13
Charges	13
Chapter 5	14
Operational requirements	14

General	14
Organisational structure	14
SSAC Operations Manual	15
Operational requirements	15
Safety Management System	16
Records to be kept	17
Safety reporting	17
Chapter 6	18
Airworthiness requirements	18
General	18
Certificate of Airworthiness aircraft	18
Permit-to-Fly aircraft	18
Maximum aircraft occupancy	19
Airworthiness recommendation	19
Aircraft technical log	20
Continuing airworthiness coordinator	20
Chapter 7	21
Risk analysis and participant consent	21
General requirements	21
Risk analysis	21
Methods of delivering the risk information	23
Participant information packs	23
Minimum age of participants	23
Monitoring and improvement	23
Chapter 8	25
Licensing requirements for SSAC flights	25
General	25
Table for minimum licensing requirements (Class of Aviation Activity):	26
Chapter 9	27
CAA oversight	27
General	27
Scope of the audit	27

Procedure for suspension or revocation of an SSAC Exemption	27
Compilation checklist for SSAC Operations Manual	29
SSAC Operations Manual and Application Review Checklist	29
Guidance on compilation of an SSAC Operations Manual	33
Purpose	33
SSAC Operations Manual contents	33
PART A: General / Basic	33
Administration and control of operations manual	33
Organisation and responsibilities	34
Operational control and supervision	34
Compliance monitoring system	34
Safety Management System	35
Qualification requirements	35
Crew health precautions	35
Flight time limitations	36
Flight and duty time limitations and minimum rest requirements	36
Operating procedures	36
Maintenance procedures	37
Reporting, analysis and follow-up of occurrences	38
PART B: Aircraft Operating Matters — Type Related	39
General information and units of measurement	39
Approved SSAC aircraft	39
Operational control of flights and flight authorisation.	39
Operational performance policy	39
Crew composition and duties; pilot / crew qualification.	39
Normal procedures	39
Abnormal and emergency procedures	39
Performance	39
Flight planning	40
Mass and balance	40
Minimum equipment list	40
Aircraft specific information	40

Form templates	40
PART C: Route / Airfield Instructions and Information	41
Approved operating airfields	41
Recommended operating areas, routes and diversion airfields	41
Charts	41
Aeronautical information and weather	41
PART D: Training	41
Training, conversion and recurrent training	41
Currency	41
Form templates	42

Revision history

First edition**March 2015**

First edition published – initial issue.

Second edition**March 2016**

Revisions made where it was considered that the meaning of the text could be clarified.

Third edition**January 2021**

A significant restructuring of the layout which now incorporates SSAC guidance and requirements previously contained in [CAP632 “Operation of Permit-to-Fly ex-military aircraft on the UK register”](#).

Various minor amendments throughout the document. Removal and renumbering of various chapters and appendices.

All amendments are usually highlighted by red underlining. As this edition is a comprehensive rewrite, amendments are not shown in the usual manner and the whole document should be read.

Feedback

The CAA seeks to continually improve its regulation and guidance and your feedback is helpful to us in doing so. If you have any comments on or suggestions about CAP 1395 please send them to ga@caa.co.uk with subject line ‘**CAP 1395 SSAC Feedback**’.

Terminology and definitions

Throughout this publication the following terms and definitions are used:

Term	Abbreviation	Definition
Air Navigation Order	ANO	Air Navigation Order 2016 (as amended).
Airworthiness Approval Notes	AAN	An Airworthiness Approval Note is a document that records the basis of the approval upon which a Certificate of Airworthiness or Permit-to-Fly may be issued (or reinstated following modification).
Air Operator's Certificate	AOC	The Certificate issued to an operator to conduct Commercial Air Transport.
Continued Airworthiness Management Organisation (BCAR Section A, A8-25)	CAMO (A8-25)	An organisation having an approval for the management of the continuing airworthiness of non-EASA aircraft with a Certificate of Airworthiness or a Permit-to-Fly.
General Aviation Unit	GAU	General Aviation Unit, ga@caa.co.uk. The department within the CAA that deals solely with General Aviation.
Mandatory Permit Directive	MPD	Mandatory Permit Directives summarise the mandatory actions that are required to be complied with by UK Owners and Operators of Permit-to-Fly aircraft.
Operator		A person, organisation or enterprise engaged in or offering to engage in the operation of an ex-military aircraft. The Operator will also be the person who at the relevant time has the management of the aircraft as defined in Article 4 of the ANO.
Operating Staff		Any individual involved in the conduct and control of a SSAC operation, including pilots, whether paid or unpaid, fulltime or part-time.
Safety Standards Acknowledgement and Consent	SSAC	Allows a person to make an informed decision and pay to participate in a flight experience.
SSAC Operations Manual	SSAC OM	Operations Manual containing organisational structure, processes, procedures.

Chapter 1

Introduction

General

- 1.1 Whilst every effort is made to ensure that all information is correct at the time of publication, the CAA reserves the right to amend this document as required to accommodate changes to the law, to correct errors and omissions, or to reflect changes in national policy and best practise.
- 1.2 Throughout this document the following definitions **shall** apply:
- **'Shall' / 'Shall not'** and **'Must' / 'Must not'** are used to indicate a mandatory requirement.
 - **'Should'** is used to indicate strong obligation.
 - **'May'** is used to indicate discretion.
- 1.3 The use of 'should' **must** be taken to mean that further action needs to be considered. If the operator's response is deemed by the CAA to be inadequate, a specific requirement **may** be applied as a condition.

Intended use

- 1.4 Safety Standards Acknowledgement and Consent (SSAC) is used for remunerated flights that are solely for recreational benefit and which could otherwise be conducted if they were private flights but with no money changing hands. It is not intended to provide a cheaper alternative for operators engaged in the transport of passengers or as a means of normalising extreme risk-taking. SSAC is not intended to be a replacement for AOC operations with Certificate of Airworthiness (C of A) aircraft.
- 1.5 SSAC is a means of setting out, in simple terms, the risks involved in participating in paid recreational flights. Aircraft operators will be able to offer flights to paying participants without having to apply the very high safety standards normally applied to commercial flights provided that:
- a) The participants are informed of the key risks involved with participating in the activity.
 - b) The participants are willing to participate in the activity having been informed of the risks involved.
 - c) The expected high level of safety to the general public, including other airspace users and those not participating in the activity, is maintained.

Chapter 2

Legal requirements

General

- 2.1 SSAC flights shall be conducted where the CAA has issued an exemption under Article 266 of the ANO to the operator.
- 2.2 SSAC flights are not to be considered Public Transport flights for the purposes of Article 6(2)(b)(i) if the only valuable consideration given or promised is for Safety Standards Acknowledgment and Consent operations.
- 2.3 Such operations will not be deemed as Commercial Air Transport but are a form of Commercial Operation¹.

SSAC Exemption

- 2.4 The CAA will grant an SSAC Exemption once it is satisfied that the applicant operator is competent to safely operate the proposed aircraft types for the purposes specified.
- 2.5 Further information regarding the principles of SSAC can be found in the [CAP 1396 “Framework for the evaluation of aviation activities for payment based on Safety Standards and Consent”](#).

¹ Commercial Operation as defined in Article 7 of the ANO

Chapter 3

Types of SSAC operations

Classes of aviation activity

- 3.1 SSAC operations will be categorised into distinct classes of aviation activity, activities within each category are considered to have very similar levels of risk.
- 3.2 Established Classes of aviation activity include:
- **Class 1: Wing-walking**
 - **Class 2: Experience flight in an historic (single engine piston) warbird**
 - **Class 3: Experience flight in an historic ex-military helicopter**
 - **Class 4: Experience flight in an ex-military multi-engined (piston and turboprop) aeroplane**

Maximum number of participants per class of aviation activity

- 3.3 The following maximum occupancy limitation (excluding crew) for each aircraft² **must** not be exceeded:
- Class 1: One
 - Class 2: Two
 - Class 3: Six (with upto 3 crew)
 - Class 4: Six (with upto 3 crew)

² The maximum occupancy limitation stated on the aircraft's Permit-to-Fly **must** not be exceeded.

Chapter 4

SSAC applications

Applications for SSAC

- 4.1 Before the CAA issues an exemption for operations of aircraft that fall within the scope of this publication, it **must** be satisfied that the operational procedures, personnel, maintenance and airworthiness management provisions are sufficient to provide the operation with the required level of safety.

Initial SSAC applications

- 4.2 Initial applications **must** be submitted on form [SRG1323](#) to ga@caa.co.uk.
- 4.3 When the application, SSAC Operations Manual, Safety Management System and any supporting documentation has been received with the appropriate fee paid, the CAA will review and assess the application. When deemed acceptable by the CAA, an SSAC Exemption will be issued to allow SSAC flights, subject to any conditions the CAA deems appropriate.

SSAC Operations Manual

- 4.4 The SSAC Operations Manual shall contain all such information, procedures and instructions as **may** be necessary to enable the operating personnel and pilots to perform their duties in a safe manner.
- 4.5 The checklist in Appendix A **should** assist operators producing their SSAC Operations Manual and **must** be submitted with the initial application.
- 4.6 The SSAC Operations Manual **should** cover the content and format outlined in Appendix B although operators **may** choose a different document structure.
- 4.7 The CAA will conduct an initial on-site audit as part of the application process.

Operators of CAP632 aircraft

- 4.8 The SSAC Operations Manual **must** also include the operational, maintenance and continuing airworthiness requirements in [CAP 632](#) "Operation of Permit-to-Fly Ex-Military aircraft on the UK register".
- 4.9 Operators who conduct non-SSAC flights and/or operators with more than one aircraft **may** choose to operate with two separate manuals (an SSAC Operations Manual and an existing OCM). Alternatively, operators **may** decide to produce a combined operations manual to cover both CAP632 and SSAC operations. Operators should keep a record of the type of each flight - either SSAC or non-SSAC.

SSAC Operations Manual amendments

- 4.10 Applications for amendments **must** be submitted on form [SRG1323](#) to ga@caa.co.uk.
- 4.11 When an SSAC Operations Manual amendment has been received, reviewed and deemed acceptable by the CAA, an updated SSAC Exemption will be issued.
- 4.12 Only once the updated SSAC Exemption has been issued can those amendments take effect.

SSAC Operations Manual Notices

- 4.13 When immediate amendments or revisions in the interest of safety are deemed necessary by the operator, they **may** be published and applied immediately by the operator, provided that the following process is completed:
- (a) The operator produces an SSAC Operations Manual Notice (OMN) using the format SSAC OMN x-yy (for example, SSAC OMN 1-21 would be the first notice of 2021),
 - (b) The SSAC OMN should be submitted (to ga@caa.co.uk subject line “SSAC Operations Manual Notice – SSAC OMN x-yy”),
 - (c) A copy of each SSAC OMN **must** be kept in the front of the SSAC Operations Manual until incorporated into an SSAC Operations Manual amendment,
 - (d) The CAA will send an email acknowledgement.

Validity

- 4.14 SSAC Exemptions are normally issued for a maximum period of 12 months.

SSAC Renewal applications

- 4.15 Renewal applications **must** be submitted on form [SRG1323](#) to ga@caa.co.uk.
- 4.16 Renewal applications received within 3 months of the existing SSAC Exemption expiry date will be granted for a further 12 months period from the existing expiry date.
- 4.17 Where the CAA refuses to grant, amend or renew an exemption the operator will be informed of the reasons for the decision and of the process for seeking a review.

Charges

- 4.18 A charge is payable on initial and renewal applications for an SSAC Exemption. Refer to [CAA Scheme of Charges](#) under General Aviation.

Chapter 5

Operational requirements

General

- 5.1 The operator **shall** submit to the CAA an SSAC Operations Manual when sending an application for SSAC initial, amendment or renewal and **shall** make such amendments or additions to such manual as the CAA **may** require.
- 5.2 The operator **shall** conduct all operations in accordance with the SSAC Operations Manual once the SSAC Exemption has been issued.

Organisational structure

- 5.3 The operator **must** have an accountable manager, acceptable to the CAA, who is responsible for the management and supervision of the operation. Applications for the nomination of accountable managers **should** be supported by completing the form [AD458](#) "Biographical details for senior staff".
- 5.4 The following post holders **must** be nominated within the SSAC Operations Manual. The roles and responsibilities should be defined by the operator taking into account the size and scope of the operation:
- a) Accountable Manager - An appointed person who has the authority and responsibility for ensuring that all activities can be financed and carried out in accordance with the applicable requirements including a direct safety accountability.
 - b) Chief Pilot - The nominated person should hold a valid commercial flight crew licence and the associated ratings appropriate to the type operated and is responsible for air operations and the supporting ground operations. Responsible to the Accountable Manager.
 - c) Safety Manager - The Safety Manager is responsible for monitoring the performance and effectiveness of the Safety Management System to ensure that the hazard identification, risk assessment and mitigation process is being implemented effectively. Responsible to the Accountable Manager.
 - d) Continuing Airworthiness Coordinator - This person is responsible for fulfilling obligations of the Continuing Airworthiness Arrangement between the operator and the approved CAMO(A8-25). Responsible to the Accountable Manager.
 - e) Head of Training –The nominated person should be a current instructor on a type/class operated. The nominated person should have a thorough knowledge of the operator's crew training requirements and procedures. The Head of Training is responsible for all crew training. Responsible to the Chief Pilot or Accountable Manager.

- f) Ground Operations Manager – Monitors the day-to-day ground operations in accordance with the SSAC Operations Manual. Responsible to the Accountable Manager.

SSAC Operations Manual

- 5.5 The Accountable Manager **must** ensure that the SSAC Operations Manual is available to those persons carrying out SSAC duties. The Accountable Manager **must** ensure that the SSAC Operations Manual contains all such information and instructions as **may** be necessary to enable such employees or persons to perform their duties in a safe manner.
- 5.6 A CAA Flight Standards Officer (FSO) **may** suggest amendments where they appear to be necessary, but the CAA is not responsible for the detailed information provided in manuals. It is the operator's responsibility to ensure that the manual is correct.

Operational requirements

- 5.7 Any SSAC flight **must** be conducted to and from the same airfield as identified in the SSAC Exemption.

Run and Break³ arrivals for SSAC flights

- 5.8 Run and break arrivals for SSAC flights **must not** be flown at civilian airfields.
- 5.9 SSAC flights **must** conform with the pattern of traffic formed by other aircraft in operation unless a specific operational requirement exists to conduct a run and break arrival. Where a specific operational requirement exists, run and break arrivals for SSAC flights **must** not increase the risk to other airspace users. Operators **must** conduct a risk assessment and operational procedures that **must** be included in the SSAC Operations Manual. The airfield management and Air Traffic Control manager (not A/G or AFISO) **must** both give written agreement and pre-authorise each run and break arrival.

Enhancing awareness of impact resistant headgear in Class 2 SSAC aircraft

- 5.10 After some accidents to ex-military high-performance aircraft, references have been made to the participant's use of Impact Resistant Headgear. These references suggest that participants in SSAC Class 2 flights **should** wear suitable impact resistant headgear when flying in such aircraft.
- 5.11 It is appreciated that different marques and different modification standards affect the headroom clearance of the participant's cockpit, so in some cases, it will be impossible for the participant to wear some types of rigid helmet. In this

³ Run and break arrivals are an established procedure for military aircraft to join the circuit usually at military airfields.

case, the operator **must** conduct a risk assessment⁴ to determine the most appropriate type of impact resistant headgear to reduce the risk of head injury.

- 5.12 Any risks identified by the operator **should** be included in the operator's hazard log. The operator's mitigation **should** be included to reduce the risk to as low as reasonably practicable (ALARP). This **may** include an assessment of the likely head impact area to potentially reduce sharp edges etc.
- 5.13 The operator **should** also review the brace position to be adopted by the participant in the event of a rapid deceleration.
- 5.14 As this risk directly affects the survivability of the participant, the operator **must** provide quantifiable information for the type of headgear provided in the "Participant Information Pack" so that the participants can make an informed decision.

SSAC briefing areas

- 5.15 SSAC participants **must** be given a briefing prior to each SSAC flight⁵. The briefing **must** be conducted in a dedicated area within the operator's facility. This area **must** be a quiet area with restricted access to allow the briefings to take place without distraction.

Safety Management System

- 5.16 The use of a Safety Management System (SMS) is mandatory for SSAC operators. It is therefore recommended that they refer to [CAP 795 "SMS Guidance for Organisations"](#) and [CAP 1059 "SMS Guidance for small, non-complex organisations"](#) to fulfil this requirement. Further guidance is also available at www.caa.co.uk/sms.
- 5.17 Operators **must** conduct a risk assessment to determine the suitability for each airfield where SSAC flights are to be conducted. The risk assessment **must** be reviewed on an annual basis and when significant changes take place.

Emergency Response Plan checklist

- 5.18 As part of the Safety Management System the operator **must** have an Emergency Response Plan. The list of actions in the event of an accident or incident **should** be available to relevant ground staff. A checklist format is recommended, and staff **should** be trained accordingly.

⁴ Refer to Chapter 7 for the risk assessments.

⁵ Refer to Chapter 7 for details of participant briefings.

Records to be kept

- 5.19 To facilitate monitoring during CAA audits as referenced in Chapter 9, all records **must** be preserved for at least 2 years from the date of the last entry, or longer if required by Article 238 of the ANO. Records **may** be kept in electronic format.

Insurance

- 5.20 The operator **must** ensure that insurance cover meets the regulatory requirements contained within Articles 6 & 7 of Regulation (EC) No. 785/2004 (as amended).
- 5.21 The operator **should** include information regarding the level of insurance cover for the participant provided by the operator prior to the flight. A participant **may** wish to obtain additional cover from their own provider prior to participating in an SSAC flight.

Safety reporting

- 5.22 Operators **must** comply with the Mandatory Occurrence Reporting requirements set out in [CAP382 “Occurrence Reporting Scheme”](#) for any SSAC flight.

Chapter 6

Airworthiness requirements

General

- 6.1 The operator **must** be approved as a CAMO (A8-25) or have a contract⁶ (Continuing Airworthiness Arrangement) with such an Approved Organisation. It is the operator's responsibility to ensure any contracted organisation has the required scope of approval to manage the aircraft types in the SSAC Operations Manual.
- 6.2 Operators **must** consider any airworthiness risks applicable to the particular activity. These risks **should** be evaluated by the operator and the CAMO (A8-25).
- 6.3 An aircraft survey **may** be required. The survey might include assessing aircraft adaptations and provisions for occupants that might be necessary to mitigate certain risks associated with SSAC operations. These **may** include cladding of vertical posts if protective helmets are not worn, provision of appropriate seating and occupant restraint and, for intermediate category aircraft, the placing of one crew member in the cabin where participants are seated.

Certificate of Airworthiness aircraft

- 6.4 Where an aircraft has a Certificate of Airworthiness, any flights carrying fare paying passengers **must** be conducted under an AOC and not SSAC. An exception to this requirement is Wingwalking (SSAC Class 1). These flights can be conducted using a Certificate of Airworthiness aircraft when fitted with an approved wing-riding rig.
- 6.5 Aircraft types that could qualify for either a Certificate of Airworthiness or a Permit-to-Fly, e.g. de Havilland (DH.82) Tiger Moth, North American T6 Harvard or Consolidated PB5-5A, **must** possess a Certificate of Airworthiness and be operated under an AOC if passengers are to be carried for remuneration; these aircraft are therefore outside the scope of SSAC.

Permit-to-Fly aircraft

- 6.6 Operators **must** address the following points and submit this information as an attachment with the application form [SRG1323](#) for initial applications only:
- a) The anticipated utilisation of the aircraft in the SSAC role as compared with current utilisation. This includes assessment of the proposed

⁶ BCAR A8-25 Supplement 1 Continuing Airworthiness Arrangement can be used as a contract template

changes in operation such as increased circuit flying, shorter flights, more aerobatic flying etc.

- b) Proposed changes to the maintenance programme as a result of the change in usage for the aircraft based on the previous point above. This **may** involve changes to inspection/check intervals, routine maintenance intervals and health monitoring methods along with changes to the handling of defect reports.
- c) Results of a review of the modification and repair standards for the aircraft concerned, and the suitability of those standards for the intended SSAC role. Modifications fitted on a trial basis **should not** be considered for SSAC usage. SSAC flights **must** not be conducted on an aircraft where the Permit-to-Fly has been issued on a temporary basis.
- d) Results of a review of all applicable airworthiness directives, where the aircraft type has (or is of) a civil derivative, or MPDs for the aircraft to determine whether revisions to the methods of compliance or inspection intervals are justified, or any currently accepted alternative means of compliance remain applicable for SSAC operation.
- e) Proposed revisions to aircraft placarding. This could include placards to identify the means to operate emergency exits.
- f) Any further airworthiness guidance for SSAC as set out in [CAP 1640 “Ex-Military Aircraft: Design, restoration and continuing airworthiness approval”](#), particularly for intermediate aircraft types.

Maximum aircraft occupancy

- 6.7 Maximum aircraft occupancy levels are already specified for Certificate of Airworthiness and Permit-to-Fly aircraft.
- 6.8 Any proposal to increase the maximum occupancy specified on a Permit-to-Fly aircraft **will** require a major modification. The operator **must** make a separate application for approval of the modification by the CAA, with support from an appropriately approved design organisation.

Airworthiness recommendation

- 6.9 Final acceptance of the airworthiness case by the CAA under the current Certificate of Airworthiness⁷ or Permit-to-Fly along with any additional limitations, will be indicated by a letter to the approved person or organisation in support of the application.

⁷ Only applicable to Wingwalking (SSAC Class 1) flights that can be conducted using a Certificate of Airworthiness aircraft when fitted with an approved wing-riding rig

Aircraft technical log

- 6.10 The operator **must** record flights in an aircraft technical log. The aircraft technical log **must be** agreed with the aircraft's CAMO (A8-25). The use of electronic formats **may** be agreed with the CAA.
- 6.11 The aircraft technical log **must** have instructions for completion either in the technical log or the SSAC Operations Manual.
- 6.12 Pilots **must be** able to easily determine the operational status of the aircraft prior to each flight or series of flights.

Continuing airworthiness coordinator

- 6.13 The operator **must** ensure that the obligations of the operator as defined in the CAMO (A8-25) contract are fulfilled.
- 6.14 The continuing airworthiness coordinator is responsible for the transfer of operational data to the contracted CAMO (A8-25) in accordance with Continuing Airworthiness Arrangement. The frequency and content of this transfer **should** be agreed and stated in the SSAC Operations Manual.

Chapter 7

Risk analysis and participant consent

General requirements

- 7.1 Operators applying to conduct flights under SSAC principles will be required to show that they have analysed the risks to participants and third parties, established the likelihood and severity of them occurring and set out how these risks will be explained to participants.
- 7.2 Operators **must** conduct a risk assessment for the SSAC flights to identify the risks to participants and third parties. After conducting the risk assessment, the operator **must** apply any resultant mitigations and **may** decide to use enhanced operational procedures to further mitigate the identified risks associated with the activity, such as the selection of operating area(s).
- 7.3 Certain activities such as commercial air transport involve higher expectations of safety outcomes because they have become integrated into the pursuit of everyday economic or social activity. However, activities of an adventurous nature, such as SSAC flights, **may** justify a higher acceptance of personal risk by the participant as the purpose of the activity is primarily for their recreational value.
- 7.4 For the avoidance of any doubt, the operator **must** understand that they are responsible for the safety risks posed by the SSAC flights. The operator is responsible for the safe conduct of the flying activity carried out pursuant to the SSAC Exemption issued by the CAA. The operator **may** be held accountable by the CAA for a failure to comply with the applicable regulations, the conditions of the SSAC Exemption or the requirements set out in this CAP.
- 7.5 Pilots conducting SSAC flights are responsible for ensuring that they comply with the Rules of the Air Regulations and the ANO, the conditions of their licence(s), and the SSAC Operations Manual. They **may** be held accountable by the CAA and/or the operator for a failure to comply with any of the applicable regulations or conditions.
- 7.6 Any operator or pilot that is unsure about their safety responsibilities for conducting an SSAC flight **should** contact the CAA GA Unit to clarify the position.

Risk analysis

- 7.7 To enable a full understanding of the risks and the implementation of appropriate mitigations, attention **should** be paid to hazards that expose other airspace

users, third parties on the ground and the paying participants to greater risks than would be the case if the aircraft were being operated under an AOC.

- 7.8 Having established the hazards, operators **must** then assess the associated risks in terms of likelihood and severity. The tables and risk matrix⁸ in [CAP1396 Section 3](#) or [CAP795 “SMS: Guidance to organisations”](#) or [CAP1059 “SMS: Guidance for small, non-complex organisations”](#) **should** be used⁹ in the analysis and the SSAC Operations Manual **must** include the rationale behind the choice.
- 7.9 Once the risks have been assessed in terms of likelihood and severity, mitigating actions necessary to reduce the risk to As Low As Reasonably Practicable (ALARP) can be decided upon. Implemented mitigation measures **should** reduce the likelihood of the risk occurring and / or reduce the severity of the outcome if it does.
- 7.10 Human Factors issues **should** be considered alongside the risk analysis, acknowledging that these **may** not fit neatly into the likelihood / severity matrix. Human Factors for all involved in the activity **should** be considered, including pilots, maintenance staff, participants and observers. For further details refer to [CAP 719 “Fundamental Human Factor Concepts”](#) and [CAP 715 “An Introduction to Aircraft Maintenance Engineering Human Participant risk and consent”](#).
- 7.11 Having identified the hazards and established the risks to participants, the participants **must** be informed of the consequences of those risks. It **must be** explained to participants that the operation does not meet AOC safety standards and that the activity could result in serious injury or death.
- 7.12 Operators **must** show that in explaining the risk to participants they have considered a reasonable person's expectation for safety and calculated the additional risk they will be exposed to, compared to the same flight or a similar operation conducted under an AOC.
- 7.13 Participants **must** be given sufficient opportunity to consider their decision in a relaxed and unpressurised environment. Participants **must not** be financially committed in any way before making the decision, for example, they **must not** stand to lose a deposit or down payment if they decide not to fly. The decision to participate **should** be made ideally before the participant is about to board the aircraft.
- 7.14 Participants **must** give their written confirmation that they have had the risks explained to them and are willing to accept those risks and take part in the flight. Operators **must** have a process for retaining written permissions that also show

⁸ The tables used here are based on risk assessment criteria as set out in the ICAO Safety Management Manual (www.icao.int).

⁹ Operators **may** use other formats appropriate to the size and scope of their operation

that participants gave their consent freely and without any undue pressure to participate. Operators **should** retain these records either in paper format or as scanned electronic records.

Methods of delivering the risk information

- 7.15 Operators **must** demonstrate that they have developed a clear method of informing participants in a commonly understood format. Operators **should** consider using practical examples and comparisons that enable most people to relate the consequences of those risks to something with which they are familiar.
- 7.16 The content and method of delivery of this information to participants **must be** consistent.
- 7.17 Methods to be used might include:
- a) Information pamphlets
 - b) Audio briefings
 - c) Video briefings
 - d) Visual briefings in person by the operator
- 7.18 The amount of information provided and the level of engagement with the participant **must** be directly proportionate to the risk involved in the activity. Higher levels of risk will necessitate greater engagement between the operator and the participant.

Participant information packs

- 7.19 Each operator **must** develop a Participant Information Pack which includes all the risk information delivered to the participants. This could include information given at point of sale, prior to arrival at the airfield, and information given to the participant on the day as set out above.
- 7.20 The participant declaration form **should** be included as part of this pack.
- 7.21 Applicant operators **must** submit the Participant Information Pack with their SSAC application.

Minimum age of participants

- 7.22 The minimum age is 18 years old.

Monitoring and improvement

- 7.23 Risk assessments **should** be reviewed regularly (at least quarterly or when a significant change to operations is made) by the operator to ensure that there have been no significant changes and the hazards and risks have not changed. Consideration **should** be given to investigating whether improvements can still be made or whether further control measures have become available, there **may**

be lessons learnt from incidents or near misses for example. Risk assessments **should** be kept up-to-date and details of reviews recorded by the operator.

Chapter 8

Licensing requirements for SSAC flights

General

- 8.1 Following a consultation with industry in early 2019, the minimum licensing requirements were established. The table below sets out the minimum licensing requirements.
- 8.2 The Chief Pilot **must** hold a CPL or ATPL.
- 8.3 The privileges of a PPL do not allow the pilot to receive payment for their services.
- 8.4 The SSAC Operations Manual **must** detail requirements for pilot's licence, minimum experience, competency and recency requirements for each aircraft type.

Table for minimum licensing requirements (Class of Aviation Activity):

Class of Aviation Activity	Licence Requirements prior to 1 April 2019	Current Licence Requirements (After 1 April 2019)	Current Medical Requirements (After 1 April 2019)
Class 1: Wingwalking	CPL or ATPL with a Wingwalking DA <u>Transitional Arrangements prior to 1 April 2019:</u> PPL with Wingwalking DA and Chief Pilot (CPL or ATPL) oversight (see Para 8.3 & 8.4 above).	CPL or ATPL with a Wingwalking DA¹⁰. Existing SSAC pilots (prior to 1 April 2019) are grandfathered (see Para 8.3 & 8.4 above). No new pilots will be allowed unless they meet the new requirements	Class Two
Class 2: Experience flight in an historic (single engine piston) warbird	CPL or ATPL <u>Transitional Arrangements prior to 1 April 2019:</u> PPL with previous Military experience and qualification on appropriate types agreed on case by case basis. Retired / lapsed CPL or ATPL	CPL or ATPL Existing SSAC pilots (prior to 1 April 2019) are grandfathered. (see Para 8.3 & 8.4 above). No new pilots will be allowed unless they meet the new requirements.	Class Two
Class 3: Experience flight in an historic ex-military helicopter	CPL or ATPL <u>Single pilot aircraft operating with two pilots:</u> A two-crew operation may consist of CPL or ATPL (as PIC) and a PPL pilot provided both pilots hold a valid type rating, type rating exemption or class rating for the aircraft.	No change	Class Two
Class 4: Experience flight in an Ex-military Multi-Engined (piston and turboprop) aeroplanes	n/a	CPL or ATPL <u>Single pilot aircraft operating with two pilots:</u> A two-crew operation may consist of CPL or ATPL (as PIC) and a PPL pilot provided both pilots hold a valid type rating, type rating exemption or class rating for the aircraft.	Class Two

¹⁰ A current Wingwalking DA is required, except the chief pilot may propose to the CAA, on a case-by-case basis, a pilot who has previously held a Wingwalking DA with considerable wingwalking experience.

Chapter 9

CAA oversight

General

- 9.1 SSAC operations are subject to regulatory oversight by the CAA and will follow the same format as detailed in [CAP632 “Operation of Permit-to-Fly ex-military aircraft on the UK register”](#).
- 9.2 Audits will be scheduled using performance-based regulation, and intervals between audits **may** vary, typically between 12 – 24 months. Audits are normally agreed with the operator at a mutually acceptable date and time and the CAA **should** give sufficient notice for an inspection audit, however the CAA retains the right to visit at any time without prior notice.
- 9.3 The audit **may** be conducted at either the main operating base or one of the remote operating base(s) (if applicable).

Scope of the audit

- 9.4 In addition to the CAP632 audit scope, the audit will cover organisation management systems, SSAC operations manual and SSAC processes.
- 9.5 A check or proving flight **may** be undertaken by the CAA as part of the audit oversight programme.
- 9.6 Operators will be required to address any audit findings to rectify non-conformance(s) and to take actions to control any future repetition. Failure to take satisfactory action **shall** ultimately lead to the provisional suspension of the SSAC Exemption.

Procedure for suspension or revocation of an SSAC Exemption

- 9.7 Where a major or dangerous non-compliance (Level 1) with the SSAC Operations Manual is found during an audit, or where a significant breach of the SSAC Exemption is identified, the exemption **may** be provisionally suspended or revoked by the CAA. This **shall** result in operations being stopped with immediate effect.
- 9.8 The SSAC operator will be sent a letter by the CAA outlining the reasons for this action. The letter will also contain details of any remedial action required by the operator and details of the CAA’s internal review process.
- 9.9 In most circumstances, the SSAC operator concerned will be given the opportunity to rectify any deficiencies within an agreed timescale. The CAA **may**

reinstate the SSAC Exemption once the deficiencies have satisfactorily been rectified.

- 9.10 If an operator ceases SSAC operations, or if the SSAC Exemption is provisionally suspended or revoked, the operator will be removed from the CAA's centrally held list of approved SSAC operators.

APPENDIX A

Compilation checklist for SSAC Operations Manual

- A1 The content of the SSAC OM **shall** reflect the size and complexity of the organisation and the type(s) operated. In general terms, the more complex and demanding the aircraft, the more detail that will be required in the SSAC OM.
- A2 Completion of the checklist below will assist in identifying any areas of omission or areas that require expansion. The latest changes in both CAP1395 and CAP 632 (highlighted or underlined) **should** be specifically reviewed for applicability and the changes incorporated into the SSAC OM accordingly.

SSAC Operations Manual and Application Review Checklist			
PART A: General / Basic			
The following items should be covered within this section of the SSAC OM:	Yes	N/A	OM Reference:
▪ Pilot signature sheet			
▪ Administration and control of operations manual			
▪ System of amendment and revision			
▪ Organisation and responsibilities including the following nominated personnel – Accountable Manager, Chief Pilot, Head of Training, Safety Manager, Ground operations Manager, Continuing Airworthiness Coordinator.			
▪ Operational control and supervision			
▪ Compliance monitoring system			
▪ Safety Management System			
▪ Qualification requirements			
▪ Crew health precautions			
▪ Flight Time Limitations			
▪ Operating procedures			
▪ Procedure for informing Participants under the principles of SSAC and obtaining Participant's informed consent.			
Maintenance procedures. The following headings should be covered in the Maintenance considerations section:	Yes	N/A	OM Reference:

<ul style="list-style-type: none"> ▪ Details of BCAR A8-23/24 Maintenance Organisation and CAMO (A8-25) 			
<ul style="list-style-type: none"> ▪ Proposed maintenance procedures in accordance with CAP 553, BCAR A8-23 or A8-24 for maintenance and A8-25 for continuing airworthiness with details of the contractual arrangements. 			
<ul style="list-style-type: none"> ▪ Method by which maintenance and operational areas will interface with reference to interchange of relevant information on aircraft status i.e. notification of defects, technical log sector record pages, update of hours 			
<ul style="list-style-type: none"> ▪ Policy for maintenance away from base, particularly safety precautions for ejection seats or other live explosive devices. Refuelling unless straightforward. Responsibility for completion of technical logs. 			
<ul style="list-style-type: none"> ▪ Details of the operator's Continuing Airworthiness Coordinator and assigned tasks. 			
<ul style="list-style-type: none"> ▪ The aircraft Technical Log, formatting, Permit Maintenance Release, defect recording, deferred defects, control of hours, recording oil and hydraulic top ups, Fatigue Index monitoring, run down times, anti-deterioration engine runs and system checks 			
<ul style="list-style-type: none"> ▪ An aircraft observation log for minor defects that do not affect the airworthiness of the aircraft. 			
<ul style="list-style-type: none"> ▪ Aircraft maintenance programme (approval CAP 553 BCAR A3-7 refers) 			
<ul style="list-style-type: none"> ▪ Aircraft serviceability including notification details of when the next aircraft maintenance is due based upon hours, calendar date, cycles or landings (as appropriate) i.e. forecast of maintenance due (Out of Phase (OOPs)) 			
<ul style="list-style-type: none"> ▪ Policy towards allowable deficiencies with associated flight limitations. 			
<ul style="list-style-type: none"> ▪ Pilot maintenance items including certification and daily inspection, training and authorisation by the appropriate BCAR A8-23/24 Maintenance Organisation or CAMO (A8-25). 			
<ul style="list-style-type: none"> ▪ Handling, notifying and reporting occurrences. 			
<p>PART B: Aircraft Operating Matters – type related.</p> <p>The following items should be covered in this section of the SSAC OM:</p>	Yes	N/A	OM Reference:
<ul style="list-style-type: none"> ▪ General information and units of measurement 			

▪ A list of the aircraft to be operated including the registrations.			
▪ Operational control of flights and flight authorisation			
▪ Operational performance policy			
▪ Crew composition and duties; pilot / crew qualification			
▪ Normal procedures			
▪ Abnormal and emergency procedures			
▪ Minimum fuel states			
▪ Weather minima - at base and for diversions			
▪ Diversion criteria			
▪ In-flight emergencies - policy for handling			
▪ Performance			
▪ Flight planning			
▪ Mass and balance			
▪ Minimum equipment list			
▪ Aircraft type specific information not already covered			
▪ Examples of forms used e.g. Technical Log, etc			
PART C: Route / Airfield Instructions and Information. The following items should be covered within this section of the SSAC OM:	Yes	N/A	OM Reference:
▪ Approved operating airfields			
▪ Recommended operating areas, routes and diversion airfields			
▪ Charts			
▪ Aeronautical information and weather			
PART D: Training The following items should be covered within this section of the SSAC OM:	Yes	N/A	OM Reference:
▪ Periodic checks, including Human Factors			
▪ Pilot flight and technical/ground training records			
▪ Essential Training Requirements including Human Factors			
▪ Formation/aerobatic clearance			
▪ Authorisation and Self-authorisation approvals			
▪ Currency and policy to regain currency (if lapsed)			
▪ Form templates			
Participant Information Pack. The following items should be provided:	Yes	N/A	
▪ Participant Information			

▪ Risk Information relating to class of aviation activity			
▪ Participant declaration form			
Risk Assessments: The additional information is required.	Yes	N/A	OM Reference or Stand-alone document:
▪ Risk Assessment for SSAC Operations at main operating airfield and each remote base (if applicable).			
▪ Operational procedures required to mitigate any additional risk to third parties on the ground and in the air, such as keeping clear of congested areas or location of operating area.			

Name of Accountable Manager:	
Operator Name:	
SSAC reference (if known):	
SSAC Operations Manual version number:	
Signature:	
Date:	

APPENDIX B

Guidance on compilation of an SSAC Operations Manual

Purpose

- B1 The purpose of an SSAC Operations Manual is to provide to all persons involved, the necessary policy guidance and specific instructions for the carrying out of operations in a safe and proper manner and in accordance with the requirements.

SSAC Operations Manual contents

- B2 Although the layout of operations manuals **may** differ from operator to operator, the operator **shall** ensure that the SSAC Operations Manual contains as a minimum the following aspects:

PART A: General / Basic

Administration and control of operations manual

1. Pilots signature sheet or description of electronic alternative.
2. Introduction:
 - a) A statement that the manual complies with all applicable regulations and with the terms and conditions of the SSAC Exemption.
 - b) A statement that the manual contains operational instructions that are to be complied with by the relevant personnel.
 - c) A list and brief description of the various parts, their contents, applicability and use.
 - d) Explanations and definitions of terms and words needed for the use of the manual.
3. System of amendment and revision:
 - a) Details of the person(s) responsible for the issuance and insertion of amendments and revisions.
 - b) A record of amendments and revisions with insertion dates and effective dates.
 - c) Immediate amendment or revision in the interest of safety.
 - d) A description of the system for the annotation of pages and their effective dates.
 - e) A list of effective pages.
 - f) Annotation of changes (on text pages and, as far as practicable, on charts and diagrams).
 - g) Temporary revisions (e.g. OMN 1-20).
 - h) A description of the distribution system for the manuals, amendments and revisions.

Organisation and responsibilities

4. A description of the organisational structure including the general company organogram, subordination and reporting lines of all.
5. Nominated postholders. The name of each nominated postholder to include the Accountable Manager, Chief Pilot, Head of Training, Ground Operations Manager, Safety Manager, and Continuing Airworthiness Coordinator.
6. Responsibilities and duties of operations management personnel. A description of the duties, responsibilities and authority of operations management personnel pertaining to the safety of flight operations and the compliance with the applicable regulations.
7. Flight crew:
A statement defining the authority, duties and responsibilities of the pilot in command and other required crew.

Operational control and supervision

8. Supervision of the operation by the operator. This **must** show how the safety of flight operations and the qualifications of personnel are supervised. The procedures related to the following items **must** be described:
 - a) Licence and qualification validity;
 - b) Competence of operations personnel; and
 - c) Control, analysis and storage of records, flight documents, additional information and data.
9. System of promulgation of additional operational instructions and information. A description of any system for promulgating information which **may** be of an operational nature but is supplementary to that in the SSAC Operations Manual. The applicability of this information and the responsibilities for its promulgation **must** be included.
10. Accident prevention and flight safety programme. A description of the main aspects of the flight safety programme.
11. Powers of the Civil Aviation Authority. A description of the powers of the Authority and guidance to staff on how to facilitate inspections by Authority personnel.

Compliance monitoring system

12. A description of the Compliance Monitoring System adopted including at least:
 - a) Responsibilities,
 - b) Audit Procedures,
 - c) Compliance Monitoring Programme,
 - d) Compliance inspections and audits,
 - e) Reporting system and processing of reports,

- f) Reporting forms and recording system.

Safety Management System

13. A system stating safety policy and objectives:

- a) Management commitment and responsibilities,
- b) Safety accountabilities of managers,
- c) Appointment of key safety personnel,
- d) SMS implementation plan,
- e) Coordination of emergency response planning and production of the emergency response plan. Checklist format recommended for the emergency response plan key actions.

14. Safety Risk Management:

- a) Hazard identification process and hazard log,
- b) Risk assessment and mitigation process relevant to intended activity.

15. Safety assurance:

- a) Safety performance monitoring and measurement,
- b) The management of change,
- c) Continuous improvement of the SMS.

16. Safety promotion:

- a) Training and education,
- b) Safety communication.

Qualification requirements

17. A description of the required licence, rating(s), qualification/competency, experience, training, checking and recency for operations personnel to conduct their duties.

Crew health precautions

18. The relevant regulations and guidance to crew members concerning health including:

- a) Alcohol and other intoxicating liquor,
- b) Narcotics,
- c) Drugs,
- d) Sleeping tablets,
- e) Pharmaceutical preparations,
- f) Immunisation,
- g) Deep diving,
- h) Blood donation,
- i) Sleep and rest,
- j) Surgical operations.

Flight time limitations

19. Operators **must** include details of their proposed FTL scheme within the SSAC OM. The scheme can be based upon a maximum number of flights per day / maximum number of hours at the controls and a maximum flight duty period (FDP) per day.
20. The FTL scheme within the SSAC OM only applies to SSAC operators.
21. Whilst the duty period or maximum number of flights provides a maximum limitation, operators **must** be aware that pilot fatigue can be a result of cumulative factors. Operators **should** therefore include a policy for the avoidance of pilot fatigue.

Flight and duty time limitations and minimum rest requirements

22. The FTL prescribed in Article 177 of the ANO are applicable: 100 hours in any 28-day period and 900 hours in any one year.
23. A pilot who is engaged on SSAC operations **should** not fly more than 3 hours without a 30 minute break away from the aircraft and **should** not fly more than 7 hours in any one flying duty period. When positioning the aircraft, the pilot **may** spend up to an additional 2 hours at the controls for the sole purpose of completing this task.
24. A single FDP **shall not** exceed 10 hours, except that this **may** be extended by a maximum of 2 hours for the sole purpose of positioning the aircraft from/to the operator's base.
25. The minimum rest period before undertaking a flying duty **shall be** at least 12 hours.
26. The FTL scheme **must** include at least:
 - a) Maximum duty period,
 - b) Maximum number of flights permitted or maximum number of flight hours within a duty period,
 - c) Days off requirement and minimum rest periods,
 - d) Duty to inform other operators of duty and flight time.
27. Further information can be found in [CAP 371 "The Avoidance of Fatigue in Aircrews"](#).

Operating procedures

28. Procedures for:
 - a) Establishing the minimum altitudes/flight levels for VFR flights,
 - b) Criteria and responsibilities for the authorisation of the use of airfields,
 - c) En-route operating minima for VFR Flights,
 - d) Instructions for route selection with respect to the availability of surfaces which allow a safe forced landing,
 - e) Determination of the quantities of fuel and oil carried,

- f) Mass and centre of gravity. Methods, procedures and responsibilities for preparation and acceptance of mass and centre of gravity calculations,
 - g) Operator's aircraft technical log. The responsibilities and the use of the operator's aircraft technical log **must** be described, including samples of the format used,
 - h) Procedures aimed at achieving safety whilst the aircraft is on the ramp,
 - i) Recording of 250 KIAS exceedances¹¹ below FL 100.
29. Procedures for the refusal of embarkation:
- a) Procedures to ensure that persons who appear to be intoxicated or who are under the influence of drugs are refused embarkation,
 - b) Procedures to ensure that participants who due to their physical or mental condition **may** present a hazard to the safety of the flight or to themselves are refused embarkation.
30. Flight procedures:
- a) Policy and procedures for in-flight fuel management,
 - b) Adverse and potentially hazardous atmospheric conditions. Procedures for operating in, and/or avoiding adverse and potentially hazardous atmospheric conditions.
31. Participant briefing procedures:
- a) Method of briefing of participants advising them of the risks associated with the proposed activity,
 - b) Procedure for participants consenting to that risk and recording of acceptance of the risk,
 - c) Briefings regarding the use of safety equipment, normal and non-normal procedures associated with the intended activity.

Maintenance procedures

32. Details of the BCAR A8-23/24 Maintenance Organisation(s) and CAMO (A8-25).
33. Proposed maintenance procedures in accordance with BCAR A8-23 or A8-24 for maintenance and A8-25 for continuing airworthiness with details of the contractual arrangements.
34. Method by which maintenance and operational areas will interface with reference to interchange of relevant information on aircraft status i.e. notification of defects, technical log sector record pages, update of hours.
35. Policy for maintenance away from base particularly safety precautions for ejection seats or other live explosive devices. Refuelling, unless straightforward. Responsibility for completion of technical logs. Process for recording and rectifying defects.

¹¹ A permission to exceed 250 knots below FL 100 is required

36. Policy for the maintenance of carry-on equipment such as parachutes, life-vests etc. that are not included in the aircraft maintenance programme.
37. Operator's Continuing Airworthiness Coordinator responsibilities including maintenance liaison coordination on behalf of the operator.
38. The aircraft Technical Log, formatting, Permit Maintenance Release, defect recording, deferred defects, control of hours, recording oil and hydraulic top ups, Fatigue Index monitoring, run down times, anti-deterioration engine runs and system checks.
39. Aircraft observation log (defects not affecting the airworthiness of the aircraft) recording and rectification/deferral.
40. Aircraft maintenance programme (approval CAP 553 BCAR A3-7 refers) including details of the maintenance programme/schedule for higher utilisation and continuing aircraft airworthiness oversight.
41. Aircraft serviceability including notification details of when the next aircraft maintenance is due based upon hours, calendar date, cycles or landings (as appropriate) i.e. forecast of maintenance due (Out of Phase (OOPs)).
42. Policy towards allowable deficiencies with associated flight limitations.
43. Pilot maintenance items including certification and daily inspection, training and authorisation by the appropriate BCAR A8-23/24 Maintenance Organisation or CAMO (A8/25).

Reporting, analysis and follow-up of occurrences

44. Reportable occurrences **must** be submitted using the MOR scheme for all SSAC flights.
45. Procedures for the reporting, analysis and follow-up of occurrences. This section **must** include:
 - a) Definitions of occurrences and of the relevant responsibilities of all persons involved,
 - b) Reference to forms used for reporting all types of occurrences, instructions on how they are to be completed, the addresses to which they **should** be sent, and the time allowed for this to be done,
 - c) In the event of an accident, descriptions of which company departments, Authorities and other organisations that **must** be notified, how this will be done and in what sequence.

PART B: Aircraft Operating Matters – Type Related

General information and units of measurement

46. General technical information on the aircraft type to be operated. Identification of the reference documents to be utilised by crews for operational information and limitations.

Approved SSAC aircraft

47. List of aircraft registrations approved to conduct SSAC operations.

Operational control of flights and flight authorisation.

48. Procedures for the operational control of flights.

Operational performance policy

49. Statement of operational performance policy for each aircraft type.

Crew composition and duties; pilot / crew qualification.

50. Composition and duties of pilot(s) and additional crew.

Normal procedures

51. The normal procedures and duties assigned to the crew, the appropriate checklists, and the system for use of the checklists.

Abnormal and emergency procedures

52. The abnormal and emergency procedures, the appropriate checklists, the system for use of the checklists.
53. Minimum fuel states.
54. Weather minima - at base and for diversions.
55. Diversion criteria.
56. In-flight emergencies including:
 - a) Engine failure,
 - b) Fire drills,
 - c) System failures,
 - d) Emergency landing/ditching,
 - e) Aircraft abandonment,
 - f) Distress communications and alerting ATC to emergencies.

Performance

57. Take-off performance, including minimum take off field length.

58. Landing performance, including minimum field length.
59. Considerations affecting landing distance including surface condition and system failures.
60. Application of applicable performance factors.

Flight planning

61. The method for calculating fuel needed for the various stages of flight including minimum fuel states.

Mass and balance

62. Instructions and data for the calculation of the mass and balance including:
 - a) Information and instructions for completion of mass and balance documentation, including manual and computer, if required,
 - b) Limiting masses and centre of gravity for the individual aircraft used by the operator,
 - c) Dry operating mass and corresponding centre of gravity or index.

Minimum equipment list

63. The establishment of a Minimum Equipment List and the process for authorising flight in accordance with the approved list. The Minimum Equipment List **must** be agreed with the CAMO (A8-25). The Minimum Equipment List includes any relevant operational and maintenance procedures and the maximum deferral period.
64. This Minimum Equipment List will be part of the SSAC Operations Manual and will not require a separate approval. This is not an EASA style Minimum Equipment List which would require a CAA approval.
65. The Minimum Equipment List **should** be available to the operator, the BCAR A8-23/24 Maintenance Organisation and CAMO (A8-25).

Aircraft specific information

66. A copy of the aircraft's Permit-to-Fly limitations.
67. State the current versions of the aircraft's flight manual, pilot's notes and checklists / flight reference cards.

Form templates

68. Examples of forms used e.g. Technical Log sector record pages.

PART C: Route / Airfield Instructions and Information

Approved operating airfields

69. A list of approved operating airfields.

Recommended operating areas, routes and diversion airfields

70. A description of the recommended local operating areas for each approved airfield.

71. Operators **may** include a preferred standard routing.

72. A list of recommended diversion airfields for each approved operating airfield.

Charts

73. A description of the aeronautical charts that **must** be carried on board in relation to the type of flight and the route to be flown.

Aeronautical information and weather

74. Recommended sources (or applications) to access aeronautical information and weather information services.

PART D: Training

Training, conversion and recurrent training

75. Training syllabi and checking programmes for all operations personnel assigned to operational duties in connection with the preparation and/or conduct of a flight. This **must** include training for ground operations personnel who deliver SSAC briefings and fit safety equipment.

76. Training syllabi and checking programmes **must** include:

- a) Procedures for training and checking,
- b) A program of ground and periodic flight training and checking,
- c) Essential Training Requirements including Human Factors,
- d) Pilot flight and technical training records,
- e) Formation and aerobatic clearance (if applicable),
- f) Authorisation approvals.

Currency

77. Type currency.

78. Operational currency.

79. Process to regain currency if this has lapsed.

Form templates

80. Examples of forms used.