SAMAA Policy on General Rules and Guidelines for Operation of Model Aircraft

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GENERAL RULES AND GUIDELINES FOR THE OPERATION OF MODEL AIRCRAFT

1. PURPOSE

The purpose of this procedure is to provide all Members and Clubs of the SAMAA a ready reference to their obligations to the SACAA (The South African Civil Aviation Authority) and the SAMAA Rules, Regulations, Guidelines and Procedures for the Operation of Model Aircraft on all SAMAA Approved and Registered flying sites.

It should be noted that the order of precedence is, South African law, the SAMAA Rules and MOP’s, and lastly other or overseas Rules. It is up to every member to ensure that they are aware of the Rules and Regulation applicable to Model Aircraft Flying in the RSA, and the SAMAA can accept no responsibility for lack of knowledge of the Member in respect to the SAMAA Rules, Regulations and MOP’s, the latest copy of which can be found on the SAMAA website http://www.samaa.co.za.

2. DEFINITIONS

SAMAA  
The South African Model Aircraft Association is the organization authorized to administer and control all model aircraft activities in South Africa.

Manual of Operations  
This document has been produced by SAMAA and approved by CAA as being the controlling document for Model aircraft flying at Registered fields and approved venues in SA.

CAR  
Civil aviation Regulations, These are the regulations set down by the CAA for the control of All aircraft using the airspace over SA, and includes regulations for the control of Model Aircraft.

ARO  
Aviation Recreational Organisations are established by the CAA to assist them with the control of the Recreational sections of Aviation. SAMAA is the only approved and appointed body for the control of model aircraft activities in the RSA

Member  
Ordinary paid up Member of the Association.

Registered or Approved site  
A flying site or field approved by the CAA and SAMAA for Members to fly model aircraft. See the Application to Register an Approved Flying Area Procedure, PR05 in the SAMAA Manual of Procedures.

Regional Associations  
Presently SAMAA are trying to establish Regional Associations. The purpose of these associations is to involve and get Clubs and Club Members in other areas (regions) to get together and interact. This should lead to a more united group of flyers, and it should help to broaden the horizon for many Club flyers who do not participate in competitive flying.

C.A.A. / RAASA  
South African Civil Aviation Authority.

Commercial Activity  
Model aircraft flight is considered to be commercial if it is used for any purpose other than the sport of flying the model or learning or teaching the sport of flying. It is commercial if it is used for financial gain, ie aerial photography etc.
### Solo rated Pilot
A pilot who, has flown and passed a Solo test after being judged by authorized inspectors. And his/her name has been placed on the SAMAA central database.

### Definition of Model Aircraft
Fixed wing aircraft as well as Helicopters are included in the definition of model aircraft, as they fulfill the requirement of recreational models for sport or teaching the sport. For the definition of a model aircraft, its limitations and characteristics see Policy (PO 18) in the SAMAA Operations Manual.

### Radio Controlled Model Aircraft
See SAMAA Manual Section PO 18.

### Control-Line Model Aircraft
A model aircraft that is constrained to fly in a circle, and is controlled in attitude and altitude, by means of inextensible wires attached to a handle held by the person operating the model.

### Indoor Model Aircraft
A model aircraft flown in an area constrained by four walls and a roof.

### Turbine Powered Model Aircraft
A model aircraft powered by a gas turbine engine.

### Large Model Aircraft
Any model aircraft with an all up (including Fuel) weight of more than say 10kg but not exceeding a mass of 25kg.

### Giant Model Aircraft
Any unmanned, model aircraft with an all up Weight in excess of 25kg to a maximum of 50kg. *(Note In RSA the flying of this Giant size Model Aeroplane is not approved. The CAA and SAMAA are presently agreeing a procedure for a models, of this weight to be built and flown at SAMAA fields)*

### Permit to Fly
A document to be issued by an SAMAA Inspector, or nominated person, following inspection carried out, per MOP’s on Large, XLarge or non standard model aircraft. The certification will be applicable to both the model and the pilot flying this model.

### Inspector
A SAMAA member who has been appointed because he has the knowledge and is qualified to carry out inspections on behalf of the CAA and SAMAA for special or non standard Large model Aircraft.

### EAA or Homebuilders Association
Branch of the Aero Club of SA, who have the knowledge and experience to advise on, and approve the design and structural integrity of aircraft, and who have the approval of the CAA to perform this duty.

### UAV
Unmanned Aerial Vehicle. An aircraft used for commercial or military purposes *(Does not fall under SAMAA’s control)*

### FAI
Federation Aeronautique Internationale
The only International recognised sporting Body for all Aircraft competitions.
3. GENERAL

3.1) Any Model Aircraft in flight, using the airspace (excepting as noted in Paragraph 3.3) is subject to the regulations imposed by the Civil Aviation Authority. The CIVIL AVIATION REGULATIONS – CAR, and the Civil Aviation Technical Specifications CATS, covers all manned aircraft and unmanned aircraft operations, including model aircraft in the RSA.

3.2) This document is intended to give an overview of the parts of the existing CAA Regulations, applicable to model aircraft activities, as well as the SAMAA Regulations and Operating Procedures which are in place, and which control the modelers/pilots use of airspace when flying his model aircraft.

3.3) Models Exempt from CAR requirements, but not from SAMAA Rules or the requirements of the SAMAA Manual of Operations are;
   a) Models weighing less than 100 grams (3.5oz).
   b) Control Line models
   c) Any model flown indoors (contained by four walls and roof)

3.4) The CAA recognizes the South African Model Aircraft Association (SAMAA) as the sole approved and appointed Aviation Recreational Organization in South Africa, authorised to administer, coordinate and regulate the operation of Model aircraft flying. The CAA expects SAMAA to coordinate and control the flying of all Model aircraft to ensure that model aircraft, when in the air, are not a threat or risk to other users of the land or air space and that a high standard of safety is followed, at all times.

3.5) A model aircraft operated( whether it be a fixed wing, helicopter or glider ) by an member of the SAMAA, is subject to the requirements of the SAMAA Manual of Procedures as well as to CAA Regulations.

3.6) The operation of Unmanned Aerial Vehicles (UAV’s) is excluded from the SAMAA brief, as they are not considered recreational model aircraft. UAV’s are subject to specific sections of the CAA Regulations.

3.7) Operation of a model aircraft for financial reward or gain is excluded from the SAMAA control and these Model Aircraft are only permitted to operate under separate CAA Rules.

4. RESPONSIBILITIES

4.1) The individual operator of a model aircraft is responsible for his/her compliance, and his/her model’s compliance, with the CAA Regulations, and with all SAMAA Regulations as set out in the SAMAA Manual of Operations.

5. RULES FOR THE OPERATION OF ALL MODEL AIRCRAFT

The CAA are presently updating sections of their Regulations and Technical specifications and in the interim, until the revised regulations are available, the Regulations as they are, stand.

Below are the current CAA regulations covered in CAR Part 94.05/06. and Other SA CAR’s and CATS;

5.1) General prohibition on Endangering Safety CAR 91.01.10
   ‘No person shall through any act of omission-(a) endanger the safety of an aircraft or person therein; or (b) cause or permit an aircraft to endanger the safety of any person or property.’
   THIS REGULATION CLEARLY STATES THAT A MODEL AIRCRAFT MUST ALWAYS STAY CLEAR OF A MANNED OR FULL SIZE AIRCRAFT UNDER ALL CIRCUMSTANCES, AND FURTHER THAT MODEL AIRCRAFT MUST ONLY BE OPERATED IN A SAFE MANNER TO ENSURE NO INJURY TO PERSONS OR DAMAGE TO PROPERTY WILL OCCUR.

5.2) Visibility for operation of model aircraft
   A person may operate a model aircraft only if the visibility at the time is good enough for the person operating the model to be able to see the model continuously.

5.3) Operating a Model Aircraft at Night
   A person may not operate a model aircraft at night, unless CAA permission has been obtained, and then only if complying with the SAMAA Night Flying Procedure (PR18).

5.4) Operating a Model Aircraft from or above a Public Road
   A person may not operate a model aircraft over or from a public road without permission.
   No person may operate, take off or land a model aircraft from a public road.
5.5) Height Limits for Model Aircraft
The CAA Regulations limit the maximum height a model aircraft may fly in the RSA to 150 feet agl. BUT After representation to the CAA and the presentation of a working paper, requesting legalization of a 400 foot flying height for model aircraft, to CARCOM at a meeting the 10th February 2011, SAMAA as the ARO for Model Aircraft in the RSA was given approved, subject to the conditions set down in the approval, for model aircraft to fly up to 400 feet agl at SAMAA Registered Clubs or fields.
If greater heights are required, by clubs or members ie. for specific events, competitions and glider flying, the Procedure PR 12 must be followed and the applicable Forms F 12 is to be completed and submitted for an exemption to be authorized. NOTE: any person operating at a model field should realize that a model flying at 400 feet, is flying only 100 feet below the minimum approved height allowed for full size or manned aircraft, and therefore the Pilot flying a model has an obligation to get out of the way of any full size or manned aircraft which happens to fly in the area. The following will apply:
Model aircraft flying at all SAMAA Registered sites or fields, is limited To a maximum height of 400 feet AGL( see special conditions applicable for Clubs operating in Traffic Controlled Airspace MOP PR 19)
Should models require to fly at heights greater than 400 feet, an application must be submitted to SAMAA for transmission to RAASA for temporary approval.
Specific exemption, on an individual basis, may be applied for, in writing, from the CAA through SAMAA for competitions, displays or Events held at SAMAA Registered sites
Park flyers are limited to 150 feet.
5.6) Operation of model aircraft outside approved areas
The operation of model aircraft outside Approved areas will not be approved or sanctioned by SAMAA.

5.7) Operation in controlled airspace
A person may only operate a Model Aircraft above 150 feet in controlled airspace if:
i) Written clearance has been from the appropriate Traffic Control Authority has been obtained.

5.8) Operation near full size Aerodromes
CAA only permits operation of a model aircraft at an altitude above 150 feet AGL within 5 nautical miles of an aerodrome under the following conditions;
i) In the case of controlled Aerodrome, Authority for the operation has been obtained from the Air Traffic control.
(ii.) In the case of other than a controlled aerodrome, authority has been obtained from CAA Commissioner.
5.9) Dropping or discharging of things
It is prohibited to cause any ballast or any other heavy part to be dropped or discharged from an unmanned aircraft (model aircraft) in flight. Any ballast or material discharged may only be water or sand. This clause also prohibits the carrying of, or discharge of, pyrotechnics from a model aircraft in flight.
5.10) General Characteristics of Model Aircraft
This CAA specification sets out the limitations of what is classified as a Model aircraft. Both fixed wing and helicopter, it notes the FAI document ABR, part 4c as the originator of this information. This document is presently under review by RAASA
5.11) Free flying Aircraft
Free flying aircraft are limited to a maximum weight of 5Kgs
5.12) Noise limitations
The noise limit of Model aircraft is limited to 96db(A) at 3 meters. The test procedure is specified elsewhere.

6. SAMAA RULES, GUIDELINES AND PROCEDURES
Below are the balance of the Rules and guidelines applicable to model aircraft Flying;
6.1) Public Events, Displays, Airshows, Fly- in`s.
The CAA requires that all clubs and groups who intend to hold an Airshow, Displays, fly-ins or events is to apply to, and obtain permission from SAMAA, before such an event is held. The guidelines as how such a Event/Display fall under the SAMAA’S responsibilities.
For details, see the Events/Public Display Procedure PR02 in the SAMAA Manual of Procedures.

6.2) Registered flying fields

For a flying site or Club to Register, the Club must complete and submit the application forms, and following approval from the CAA, SAMAA will register the Club. The Registered club will then abide by and enforce the SAMAA Flying guidelines and Rules as set out in the MOP’s. (see SAMAA Procedure PR 05 for Registration details, and PR04 for flying info)

The following guidelines and Rules shall apply at a Registered flying field:

6.3) No Fly Areas or Zones

Flying sites should be arranged so that all flight operations are conducted in front of the flightline. The flightline shall be a line defined by the side of the runway nearest to the pilots, which shall be extended to both to the left and right extremes of the flying area. The area in front of this line shall be totally unobstructed. Pilot boxes or stations should be set out so that pilots shall have a clear and unobstructed view of the flying area, at all times. The area behind and above the flightline and the pilots are no fly zones, and will include the pit, club house, buildings, spectator any other public areas such as car parks. (see example in Operations manual under Safety)

5.4) Minimum Distances to spectators, persons vehicles or buildings.

Anyone operating a model aircraft, must ensure that, while the model aircraft is LANDING or TAKING OFF, it stays at least 30 meters horizontally away from spectators or any person or persons, occupied building or vehicle, not directly associated with the operation of model aircraft.

This requirement is not contravened if;

i.) The pilot stands behind the model aircraft while taking off.

ii.) If the model aircraft during take-off and landing, during a competition is within 30 meters of the official judges.

iii.) If the model aircraft lands or takes off within 30 meters of Pilots and their assistants operating aircraft from the same flightline,

iv.) If persons such as the Flight Line Director, Safety Officers, Instructors, and similar people who are directly involved with the operation of model aircraft at the time, remain within this distance.

v.) Pilots and their assistants with aircraft in the “pits”, provided that this area is not accessible to the public. Wherever possible the pits shall be located at least 20 meters behind the flightline, or if this is not possible as near to 20 meters as can be reasonably achieved.

All flying will conform to the above requirements.

NOTE:

a.) Model aircraft (weighing up to 10 Kgs) flying must fly at least 30 meters from spectators at all times.

b.) Model aircraft weighing more than 10 Kgs, and all Gas turbine powered

c.) Jets must fly at least 50 meters from spectators, except when landing or taking off, where a minimum of 30 meters is allowed.

d.) Pylon racers will only operate at a distance of more than 100 meters from spectators.

6.5) Radio Equipment use at a field

Frequency Control

All flying fields, where Radio controlled model aircraft are flown, will have an frequency control system installed, and a card, peg or marker on the board system of frequency control will be used. (see Operations Manual PO13)

Only ICASA “type approved” imported radio equipment will be used. Only Approved frequencies on the 27, 35, 53, and 54Mhz bands, as well as the now preferred 2.4 Ghz equipment may be used.

6.6) Safety Rules

The National SAMAA Safety code and Safety rules as set out in the SAMAA Manual Of Procedures shall be used, by all Members and persons flying model aircraft.

Clubs will add, and enforce their own supplementary or special field Rules to the above.

6.7) Incident reporting

It is the responsibility of each Member and Club to ensure that Accidents and incidents are recorded and sent to SAMAA. The purpose being that a record of the type of incident and the frequency of incidents can be established, and a warning, alerting system can be passed on to the Members with the intention of reducing model accidents.

The forms and details of this reporting system is set out in Procedure (PR 02)
6.8) **Insurance claims**
The use of the SAMAA Insurance policy is limited to paid up members of the Association.
Any incident, if it happens in the wrong place can become an accident. Fortunately for us, due to experience and guidelines and rules made over the years registered fields and registered flying sites have been set out to minimize the usual crashes to incidents.
Accidents which involve persons, or property, which occur at registered flying sites, and have a possible financial implication or potential claim potential, must be reported, firstly to the police and secondly to the SAMAA, who in turn will pass the report forms on to the Insurance company. Do note an excess is involved in any claim.
All details and information on the Insurance Claim is contained in Procedure (PR14)

6.9) **Drinking, Drugs or Performance affecting medication**
The use of the above by many Members, before or during model flying is becoming a major concern.
It is a well documented fact that alcohol affects a persons judgement in many ways, all negatively. And most of us are well aware of the effect of certain medication.
**MODEL AIRCRAFT** Clubs must stop Members who wish to fly, from drinking until after the pilot has finished flying, and packed away his equipment. This Policy is set out in policy (PO16)

6.10) **Flying Field Spacing**
The SAMAA requires a minimum spacing of radio-controlled model aircraft flying sites of 5kms. Operations at less than this distance shall be carried out in accordance with the Operation Procedure for fields in close proximity Policy (PR04) in the SAMAA Manual of Procedures.
The SAMAA requirement for spacing of fields, may be relaxed if an signed indemnity by the Club, limits the equipment to 2,4 Ghz only.

6.11) **Persons on the flightline**
This is not a well known requirement, or one which is often observed at Clubs, but one which if ignored, is a safety risk.
The requirement, which must to be enforced at all Clubs, and must be written into their Club Safety Rules, is that only one helper, instructor, caller or spotter is to be on the flight line with any one pilot. This rule must be enforced at all Fly ins, Airshows or Displays, except as noted.

6.12) **Etiquette**
This guideline for considerate behavior of pilots at clubs and competitions has been set down in two policies which are included in the Manual Of Operations. These guidelines together with any Club specific requirements should be included in or referred to in the individual Clubs Safety rules.
These etiquette guidelines can be found in the Manual Of Operations Under (PO 10) and (PO 11)

6.13) **Instruction of pupil pilots**
All Pupil pilots, learner or inexperienced pilots shall, while being taught to fly, be instructed on all relevant Safety, frequency and Operating requirements of the sport/hobby.
All persons flying at a Registered field, be he a pupil pilot, visitor or Club member will be a paid up SAMAA member.
The qualification of the Member or person suitable to teach a beginner has been set at the equivalent of a SAMAA silver proficiency.
The preferred and recommended method to teach beginners is set out in the “Fixed wing proficiency booklet” as the buddy box system in the SAMAA Operations Manual.

6.14) **Inspection of Aircraft**
It is recommended that prior to the first flight of any aircraft, or after any major repair an independent person or an appointed instructor does a safety inspection. For larger or specialist aircraft this is now a SAMAA requirement, in fact for any aircraft to fly in an Event/Display or Airshow, it is a requirement that both the pilot and model has been previously checked out, and that the model has flown.

6.15) **Operating a Model Aircraft at night**
The CAA Regulations Prohibit the flying of model aircraft at night. It was agreed that model aircraft could be flown at registered fields, provided:
i.) That application for permission has been submitted to SAMAA.
ii.) That the conditions set down in the Operations Manual under Procedure (PR 17) are followed

6.16) Flight Proficiency
SAMAA has produced a set of Proficiency tests for all types of Aircraft. These tests can be found in the Operations Manual. A “Solo” proficiency is the minimum requirement, for a pilot to fly safely and unattended, on the flightline at a Registered Club. All clubs are requested and encouraged to promote the use of the SAMAA Proficiency Scheme, to improve model flyers and pilots. The Proficiency requirements, to participate in Events are included in the SAMAA Manual of Operations.

6.17) Mobile phones
Mobile phones have been known to affect R/C Transmitter signals, And it is recommended that until all doubt is removed, that cell phones are not taken onto the flight line. (see Policy PO12)

6.18) Synthesized transmitters
The use of synthesized transmitters and receivers now days is common, and provided the pilot takes due care to ensure he reserves the correct frequency when flying, there should be no objections from fellow flyers.
Nevertheless it is advised that the relevant Policy (PO 15) be read.

6.19) Hearing Protection
It is recommended that hearing protection be worn by any person conducting noise testing, or where lengthy engine running or testing is required.
In many instances pit men at Pylon races and Control line races are required to use noise reducing ear protection.

6.20) Engine Starting
It is recommended that hand starting of model aircraft (ie, without chicken stick, glove or electric starter) be prohibited if the engines capacity is greater than 2.5cc.

6.21) Engine Adjustments
Run a slightly rich mixture, especially with new engines.

It is recommended that all adjustments to running engines be done from behind the engine and propeller.
It is also recommended that no person stands near the propeller when the motor is being run up to full throttle.

6.22) Propellers
Metal bladed propellers may not be used on any model aircraft. It is recommended that propellers fitted to engines of capacity greater than 2.5 cc are designed for the purpose and have the tips delineated with a contrasting colour. Beware, propellers designed for Electric motors are not suitable for Internal combustion engines.

6.23) Holding or restraining Model Aircraft on start up.
Although not a Rule for smaller Models, it is recommended that all model aircraft be restrained mechanically or physically by a helper other than the person starting the aircraft, during engine start-up.
In the case of model aircraft weighing more than 10Kg, the holding or restraining of a model aircraft during start up, is a mandatory requirement.

6.24) Internal Navigation Systems
The CAA does not allow the use of internal navigation systems in model aircraft.

6.25) Radio Equipment and frequencies

6.25.1) Radio Certification
The ICASA has a requirement that R/C Transmitters be “Type Approved” and certified by an approved testing authority, prior to use on a SAMAA Registered Flying site. See the SAMAA Radio Certification Policy in the SAMAA Manual of Operations, Policy (PO 13).

6.25.2) Transmitter Frequencies
Only approved frequencies will be used for the control of model aircraft. See the SAMAA Frequency Control Procedure (PR 13) in the SAMAA Manual of Operations.

6.25.3) Radio Equipment
See the following sections in the SAMAA Manual of Operations
i.) Radio Certification Policy, (PO13)
ii.) Frequency Synthesized Equipment Policy, (PO15)
iii.) Mobile Phones Policy, (PO12),
iv.) SAMAA Frequency Control. (PR08),
6.26) Large Model Aircraft

All model aircraft with a mass, with fuel, of greater than 10Kgs and less than 25kgs are subject to certain additional regulations, over and above those in use for lighter aircraft. The major additional requirements are as follows:

- Models are to be flown at least 50 meters from spectators, people, structures or car parks.
- Models will be fitted with heavy duty servos, batteries, switches, pushrods etc.
- Models are to be inspected, for both assembly integrity as well as equipment suitability by an the appointed SIG or SAMAA Approved inspector prior to its first flight.
- Models are to be physically or mechanically restrained during start up.
- Models are to be fitted with a remote radio controlled engine cutoff, and receivers are to have fail safe to throttle.
- Models to be fitted with approved 2.4 Ghz radio receivers or with 35 or 53 Mhz PCM receivers.
- A spotter or assistant be present on the flight line with the pilot when other aircraft are in the air at the same time.
- Models to conform to the noise restrictions set down for model aircraft.
- All pilots of Large Model aircraft should hold a silver rating, and should to be tested and approved by an instructor prior to flying that model at a public event.
- The use of multi receivers, dual power supplies and other safety features is recommended for all large model aircraft.
- See below for extra requirements for Gas powered models.

6.27) Gas Turbine Powered Model Aircraft

The SAMAA requires that all gas turbine powered model aircraft must be inspected by an SAMAA appointed Gas Turbine or the approved SIG Inspector prior to its first flight. Gas Turbine powered Model Aircraft must be operated at flying sites in accordance to the section of SAMAA Procedure PR21 on large gas Turbine Powered Model Aircraft. The Safety rules for Gas Turbine Model Aircraft must be followed at all times, especially during start-up. All pilots who fly Gas Turbined Models shall hold a Gold rating.

6.28) XLarge Model Aircraft

Models which exceed 25 Kgs are not presently classified by the CAA as being Model aircraft, and are therefore not permitted to fly on SAMAA Registered fields or sites in the RSA. The SAMAA has formulated a policy, produced Procedures, and submitted a Document to obtain CAA approval, to allow XLarge Model Aircraft of up to 50 Kgs to be flown at SAMAA Registered Sites. In the meanwhile the SAMAA cannot authorize the operation of any Model Weighing over 25kgs or exceeding the Dimensions and Specifications set out in the Policy (PO 18.) The flying of a XLarge Model Aircraft at any site in the RSA will not be approved by SAMAA or covered by the SAMAA Insurance policy.

6.29) SIG’s

The Special Interest Groups, or competitive flyers, fall under the International bodies of the FAI and CIAM, and have their own Competition Rules which are based on International class standards, these rules set out the specification for size and weights, for each class of model aircraft, and go further to set down the competition rules applicable to the particular class of model aircraft. The rules however do not in most cases cover the structural or equipment requirements. Nor can they override local Regulations, laws, or model regulations applicable to the use of airspace in a specific country. The SIG categories presently in use in SA are; Gliders, Aerobatic, Scale, Large scale, Control line, Pylon, Fun fly, Helicopters and Jets. Information on these groups can be found in the Manual Of Operations under the individual SIG’s.

6.30) Park Flyers

Park flyers are a fairly new group of model aircraft flyers, who fly small electric powered models at parks, school fields or any open piece of land. It is the intention of SAMAA to Register Clubs for these flyers, so that they can fly safely and enjoy the sport and hobby. A set of guidelines is available in the Operations Manual (PR17) for
6.31) Records
Presently there is no procedure for record attempts, nor files or documents for any records established in the RSA. Until such time as this matter has been fully researched, it is proposed that any record attempt follow the International procedure as set down in the FAI/CIAM documentation SC4-Vol ABR. 09.

K.FN