



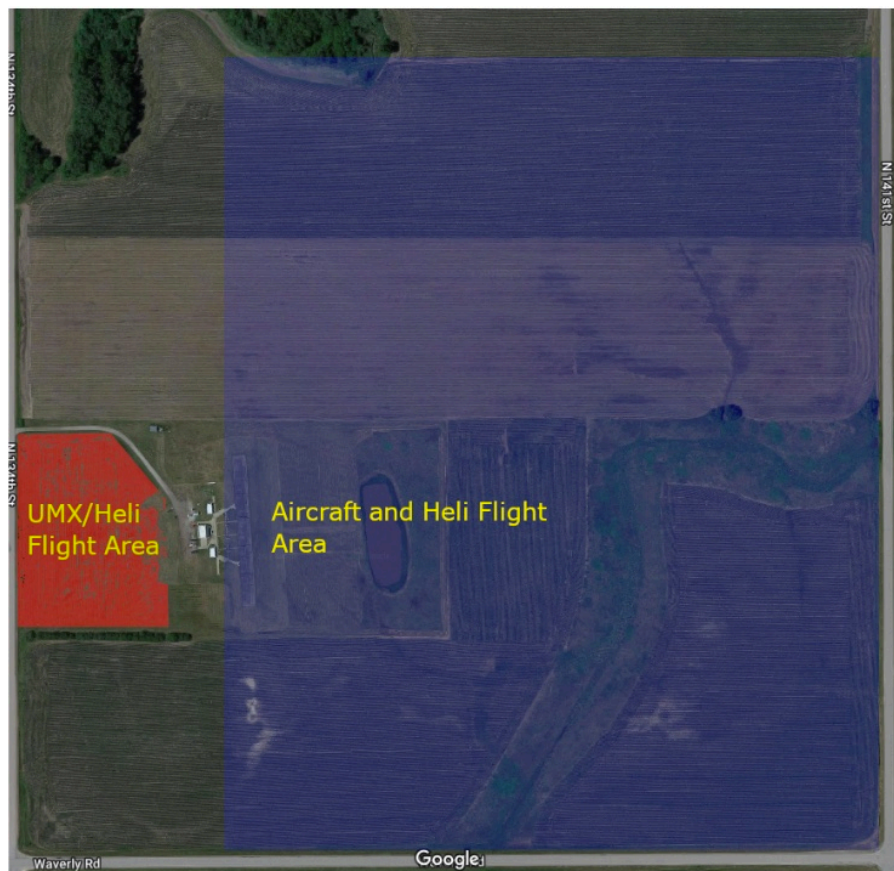
FIELD RULES

Revised June 2025

- 1. The AMA Safety Code must be followed at all times**
- 2. All pilots must be current members or approved guests of the Lincoln Sky Knights R/C Club and have a current AMA membership card.**
- 3. Membership cards must be visible when flying.**
- 4. Members must dispose of their own excess or damaged batteries of any kind offsite.**
- 5. Club members are required to report any injury, property damage or fire resulting from pilot or guest activities occurring on club or surrounding property to the safety officer as soon as the fire has been extinguished and people onsite are safe. Failure to report injury, property damage or fire to the safety officer can result in membership suspension or revocation.**
 - a. Any crash outside of defined club FRIA (see map item #9) while flying from the club field must be reported to the safety officer within a reasonable timeframe. Failure to report can result in membership suspension or revocation.**
- 6. Communication is key – please do not ignore calls from the club safety officer. Doing so can result in membership suspension until safety issues are addressed.**
- 7. Pilots are encouraged to use one of the six flying stations and remain behind the safety fence while flying. Pilots are allowed to stand behind the plane on the runway only during takeoff if**

they feel it is necessary. Notify other Pilots when you are taking-off, landing, going onto the runway, exiting the runway or if you are in a dead stick or other emergency.

8. NO FLYING over the pits, spectators, or parking area at any time. This rule is strictly enforced.
9. Pilots must not exceed the maximum ceiling of 1200 feet AGL when flying.
10. All pilots are to fly RC aircraft within one of two flight areas in the designated AMA approved FRIA zones – the larger zone defined as north of Waverly road, west of N 141st Street, to the immediate east of the pits area and south of the tree line to the north of the runway or a smaller zone defined as east of 134th street, south of the club entry driveway, north of the first tree line and west of the club parking area. See map:



11. NO SMOKING IN THE PIT AREA

12. All aircraft and field boxes (when not in use) must be kept in the pit area. No spectators, children or pets in the pit area without escort.

13. Gas/Glow powered aircraft must be restrained while starting and running. Taxing only to the East of Red Safety Line. Walkways between the runways and the Pilot's station must remain clear.

14. FREQUENCY CONTROL PROCEDURE for 72Mhz radio systems:

After determining that your frequency is not in use, take your transmitter from the impound and place your current AMA and LSK card (or photocopy of your current AMA and LSK card) on the frequency control board. Do this by raising the tag corresponding to your frequency number and pinning it to the cable above the pin. At completion of flight, remove your pin from tag, lower the tag, and place your transmitter back in the impound, making sure the switch is off.

15. Please remember to be courteous to both your fellow pilots and the club field!

16. Turbine Pilots are required to supply their own fire extinguisher(s). A minimum of one extinguisher needs to be present at fueling/start station per AMA Gas Turbine Program. If pilot has an incident that requires more than 1 extinguisher, please call 911 immediately. The pilot may also use LSK owned extinguishers but will be responsible for filling or replacing excess extinguishers.

17. Failure to follow these field rules can result in membership suspension or membership revocation.

Academy of Model Aeronautics National Model Aircraft Safety Code

Effective January 1, 2018

A model aircraft is a non-human-carrying device capable of sustained flight within visual line of sight of the pilot or spotter(s). It may not exceed limitations of this code and is intended exclusively for sport, recreation, education and/or competition. All model flights must be conducted in accordance with this safety code and related AMA guidelines, any additional rules specific to the flying site, as well as all applicable laws and regulations.

As an AMA member I agree:

- I will not fly a model aircraft in a careless or reckless manner.
- I will not interfere with and will yield the right of way to all human-carrying aircraft using AMA's See and Avoid Guidance and a spotter when appropriate.
- I will not operate any model aircraft while I am under the influence of alcohol or any drug that could adversely affect my ability to safely control the model.
- I will avoid flying directly over unprotected people, moving vehicles, and occupied structures.
- I will fly Free Flight (FF) and Control Line (CL) models in compliance with AMA's safety programming.
- I will maintain visual contact of an RC model aircraft without enhancement other than corrective lenses prescribed to me. When using an advanced flight system, such as an autopilot, or flying First-Person View (FPV), I will comply with AMA's Advanced Flight System programming.
- I will only fly models weighing more than 55 pounds, including fuel, if certified through AMA's Large Model Airplane Program.
- I will only fly a turbine-powered model aircraft in compliance with AMA's Gas Turbine Program.
- I will not fly a powered model outdoors closer than 25 feet to any individual, except for myself or my helper(s) located at the flightline, unless I am taking off and landing, or as otherwise provided in AMA's Competition Regulation.
- I will use an established safety line to separate all model aircraft operations from spectators and bystanders.

For a complete copy of AMA's Safety Handbook please visit:
modelaircraft.org/files/100.pdf

AMA Gas Turbine Program
Approved by AMA Executive Council (EC) on **October 26, 2024**

It's the flyers responsibility to comply with and the CD's responsibility to enforce these regulations! All regulations are applicable to all turbine model categories unless otherwise noted.

Airframe Requirements

Turbine-powered model aircraft may be equipped with:

- a. Production engine(s);
- b. Kit-built engine(s) built in compliance with AMA Regulations for Assembly and Operations of a Kit Built Turbine Engine for RC and CL Models (AMA document 510b); or
- c. Non-production engine(s) built in compliance with AMA Rules for Design, Construction, and Operation of Non-Production Gas Turbine Engines for RC and CL Models (AMA document 510c).

AMA retains the right to exclude any engine (individual or type) which is believed to exhibit a safety concern.

The following categories of turbine-powered RC model aircraft and their category-specific requirements are:

a. Fixed-wing: The maximum velocity will be 200 mph. The total combined installed static thrust for all engine(s) shall not exceed 50 lbs. De-tuned engine thrust settings will be accepted (the pilot shall provide manufacturer documentation). With the exception of hand-launched aircraft which have no undercarriage and a flight weight under 7.5 pounds wet, the fixed-wing models shall:

- i. be able to come to a controlled stop on command with the engine at idle on a level hard surface; and
- ii. be equipped with controllable rudder(s);

Rotary-wing aircraft: The output power of the turbine shall be governed such that the rotor head speed does not exceed the manufacturer's recommended RPM for any rotor head component. The rotor head shall be able to be disengaged from the power source and remain stationary either from the use of a throttle kill mechanism or a clutch system;

Control-line: The model shall successfully perform a pull test of 55 pounds or more, as described in the current CL Scale Competition Rules. A restraining cable (minimum 0.035 stranded wire) shall be attached from the engine to the bellcrank mounting system. The gross weight limit is 20 pounds. The maximum aircraft velocity allowed is 100 mph; and

Fixed-wing Turboprop: Turboprop-equipped models shall:

- i. be able to come to a controlled stop on command with the engine at idle on a level hard surface; and
- ii. be equipped with controllable rudder(s);

Fuels are limited to kerosene, diesel and/or propane unless approved in writing by AMA.

b. c. d. 4. 5. The fuel tanks shall be of rigid construction with consideration given to burst and puncture resistance. Consideration shall be given that non-metallic fuel lines may not be able to contact hot parts of the engine as installed. Bag style fuel cells are permitted under the following conditions:

- a. is a multi-layer fuel cell that is purpose built for the application and designed to be resistant to rips, tears, hardening and cracking from kerosene/jet fuel exposure.
- b. is mounted in such a way as to ensure no contact with rough surfaces capable of causing abrasion between the tank and any aircraft surface.
- c. is mounted away from or protected from heat exposure from the engine(s) and pipe(s).
- d. is filled with a pressure sensing fueling system to ensure the cell isn't over pressurized during fueling.
- e. NO plasma/IV bags are permitted.

Gas Turbine Program Copyright © 1987 Academy of Model Aeronautics 5161 E. Memorial Dr. Muncie, IN 47302 (765) 287-1256 | safety@modelaircraft.org | modelaircraft.org Page | 16. The fuel system shall have two fuel shut-off provisions, one of which is manual, and the other one shall be remotely operated. An ECU-operated shutdown is compliant as a remote shut-off if it closes with loss of power.

7. All radios shall be equipped with fail-safe and ECUs shall be configured to shut down the engine within 2 seconds of fail-safe activation.

8. It is recommended that multiple engines equipped with propane start be segregated or partitioned to prevent cross-ignition of exhaust gases.

9. Enclosed engine installation shall be designed with attention to flow path ducting, integration of related equipment, and fire containment and suppression on startup.

10. Afterburners are prohibited. Other special controls such as water injection, thrust reversers, variable nozzles, etc.

are acceptable only if engine manufacturer provided and supported by development testing and user training.

11. Any engine involved in a crash where high G loads were probable shall be examined and certified as safe to operate

by a manufacturer approved service center before operating and flying again.

12. *Total weight, ready to fly with fuel, must not exceed 55 pounds.*

Flight Line Requirements

13. A "B/C"-rated or equivalent fire extinguisher shall be present for all engine starts. Water-based fire-fighting equipment shall be present on the field.

14. A phone shall be present at the site, along with the phone number of the closest fire department or 911, whichever

has been determined to be most effective for emergency response.

15. For all organized events dedicated to turbine-powered models, a safety barrier shall be in place.

16. The pilot will exercise caution during ground operation such that the exhaust gases from the engine do not impinge

on any flammable object. The use of blast deflectors in the startup area is recommended.

17. No turbine-powered fixed wing model will be flown after dark or in poor visibility conditions. A rotary-wing model

may be flown after dark or in poor visibility conditions provided the model is equipped with an onboard illumination

system providing the pilot with a continuous and clearly illuminated view of the model's attitude and orientation at

all times.

18. Turbine powered aircraft will not be allowed in any speed or racing events.

19. All hand-launching of aircraft, with a flight weight under 7.5 pounds wet, will be no closer than 25 feet from any

individual except for the pilot and the pilot's helper. It is recommended that the pilot utilizes the assistance of a helper to launch the model.

20. Turbine waiver qualification flights, maiden flights, or test flights following a major repair of the aircraft structure,

propulsion system, or control system may not be performed during an event. These flights may be performed before

or after the official event hours. Major repairs are those which substantially modify or repair portions of the model such that the result differs from the original form and/or installation. Replacement of parts with the same or equivalent parts is not considered a major repair.

Pilot Requirements

21. Any operation of a fixed-wing, turboprop, rotary-wing, or control-line aircraft powered by a turbine engine requires that the pilot of said aircraft has obtained an AMA turbine waiver specifically for that category of aircraft.

22. Any turbine pilot under the age of 14 must have a spotter who is a turbine waiver holder and at least 18 years of age present throughout the entire flight process, including startup and cooldown.

23. An AMA member is permitted to fly a turbine-powered model using the **student** transmitter of a buddy box as long

as the **primary** transmitter is operated by an experienced turbine pilot.

24. An experienced turbine pilot is defined as a pilot who has completed 20 or more turbine flights during the preceding

24 months and who has a turbine waiver issued by AMA. For confirmation purposes, the pilot is required to keep a written log of all flights and will provide copies to AMA upon request. Experienced turbine pilots may:

- a. Provide turbine-powered model flight instruction (using a buddy box) to non-waiver holder AMA pilots;
- b. Conduct turbine waiver qualification flights and sign the turbine waiver application (AMA document 510d)
- c. Supervise the first five solo turbine flights of a newly-waivered turbine pilot.

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(765) 287-1256 | safety@modelaircraft.org | modelaircraft.org Page | 228. 31. 25. Waivered pilots who do not

meet this experience requirement can obtain/regain experienced status by performing

the 20 or more turbine flights in the current 24-month continuous period; it is not necessary to reapply for a turbine

waiver or re-perform a turbine waiver qualification flight.

26. All turbine waiver applicants should have accomplished at least 50 flights on a high-performance model as follows:

- a. b. Fixed wing and Turboprop: model should be capable of sustained speeds of 100 mph or higher;
- Rotary wing: model should have a 0.60 cubic inch displacement or larger, capable of 50 mph forward flight speeds and advanced aerobatics.

27. The applicant shall first have flown the turbine powered model on a buddy box with an experienced turbine pilot in

control of the master transmitter. The experienced turbine pilot will assist the applicant with as many flights as necessary until satisfied that the applicant is prepared for the qualification flight (which is performed flying solo without buddy box assistance).

Turbine Waiver Qualification Flight Requirements

The applying pilot will successfully perform a turbine waiver qualification flight(s) consisting of all ground operation and flight skills as specified in AMA Turbine Waiver Application (AMA document 510d) under the supervision of two experienced turbine pilots, one of whom is a contest director. A designated helicopter contest director is required

for rotary-wing applicants.

29. The qualification process may consist of multiple flights, all made on the same day. The final flight shall contain all of the flight skills specified in Section 2 (Flight Skills) of the AMA Turbine Waiver Application (AMA document 510d).

30. Prior to the qualification flight(s), the applicant must have completed a buddy box flight, of the model to be used in

the qualification flight(s), under the supervision of one the experienced turbine pilots who will supervise the qualification flight(s).

The qualification flight(s) will be performed using a single-engine model meeting the category-specific requirements

as follows:

- a. Fixed-wing: turbine-powered model equipped with:
 - i. a controllable rudder(s); and
 - ii. a steerable undercarriage suitable for a rolling takeoff and landing; and
 - iii. either flaps/flaperons or a speed brake; and
 - iv. be able to come to a controlled stop on command with the engine at idle on a level hard surface.

Additionally, the model shall:

- v. vi. have a minimum weight of at least 12 pounds (dry); OR

be an ARF specifically designed and produced by the manufacturer for turbine power or converted to turbine power using a conversion kit (including tailpipe) produced by the model's manufacturer. The model shall also comply with items i) through iv) above

Note: A waiver for the fixed wing category automatically qualifies the waiver holder to fly turboprop aircraft.

b. Rotary-wing: helicopter powered by a turbine or by a 0.60 cubic inch displacement (or larger) engine. Aircraft shall be capable of 50 mph forward flight speed.

c. Fixed-wing Turboprop: turboprop-powered model capable of sustained speeds of 75 mph or higher. Pilots holding only the turboprop category waiver shall qualify separately for the fixed-wing waiver.

d. Control line: model requiring a pull test of 55 pounds or more, as described in the current CL Scale Competition Rules.

32. As part of the qualification process, the applicant will demonstrate general knowledge of turbine operation and

maintenance such as ECU configuration, fail-safe set-up, fire-fighting equipment, turbine lag management, etc. See AMA document 510d for a detailed list of qualification flight requirements.

33. Following the successful completion of the qualification test flight, the newly-waivered turbine pilot shall submit

the completed/signed Turbine Waiver Application (AMA document 510d) to AMA Headquarters as proof of compliance with the above requirements.

Gas Turbine Program Copyright © 1987 Academy of Model Aeronautics 5161 E. Memorial Dr. Muncie, IN 47302 (765) 287-1256 | safety@modelaircraft.org | modelaircraft.org Page | 3a. 34. The first five solo turbine flights following a successful turbine waiver qualification flight:

Shall be supervised by an experienced turbine pilot who shall be instructed on how to perform an emergency shutdown of the turbine in flight from the pilot's transmitter and be empowered to shut the turbine down in flight in the event of a loss-of-control emergency.

b. Airspeed shall be maintained under 175 mph.

c. Turbine flights shall be limited to single turbine engine aircraft.

35. In case of extenuating circumstances preventing compliance with the current waiver application requirements, the

applicant should submit a detailed written explanation to AMA Headquarters. The AMA Safety Committee will review the information supplied by the applicant. Any deviation from the current application process will require the majority vote of the AMA Safety Committee.

Waiver Suspension

36. The AMA, through action by the Executive Director or its President, may suspend an individual's turbine waiver at

any time. The waiver holder shall be notified of the suspension in writing, including a summary of the basis of the suspension. A waiver suspension can be predicated on a written complaint by two AMA members.

37. Where a Contest Director at a sanctioned event believes a turbine waiver holder is operating in a reckless or dangerous manner, the CD shall supply a written report to the AMA describing the infraction(s) and shall disqualify the participant from further flights during the event.

38. A suspension shall be for periods in multiples of 30 days, up to one year. During the suspension period, a waiver

holder may operate a turbine aircraft under the supervision of an experienced turbine pilot on a buddy box to improve skill level. Upon completion of the suspension period, the waiver holder will submit a letter, co-signed by an experienced turbine pilot, regarding reinstatement. Repeated suspensions may result in the removal of the waiver.

Waiver Removal

39. The turbine waiver holder who has had their waiver removed may appeal the removal within thirty (30) days of receipt

of the removal. The appeal shall be accompanied by all documentation that the appellant believes supports his/her position.

40. The AMA Safety Committee will consider the appeal, including the written documentation supplied by the appellant,

and conduct any investigation or hold any hearing it deems appropriate, although it need not hold any formal hearing.

41. The majority decision of the AMA Safety Committee is final and binding.

42. If there is no appeal or the appeal is denied, there will be a one-year waiting period required before applying for

recertification. Recertification requires requalifying for the turbine waiver through the requirements listed herein.

NOTE

Since the majority of foreign contestants attending AMA sanction events would find it difficult to comply with the requirements of obtaining an AMA turbine waiver, the AMA Executive Council has approved the following provision

effective January 1, 1997:

"AMA will accept a letter from the National Aero Club stating that the pilot is qualified and experienced in operating a model powered by a turbine engine."

While foreign contestants don't have to obtain a turbine waiver they are still required to comply with the AMA Gas Turbine Program, except for items 20-32.

Any AMA member who resides in the United States and operates a turbine engine is required to obtain a waiver.