



Document 510-F

NOTE: Application fee is \$25. Call AMA at 765-287-1256 ext 230 to make payment via credit card. Please plan accordingly

Form 510-F: Rotary Wing - Turbine Waiver Application

I _____, state as follows:

Name of Applicant

1. I am currently a member in good standing of the Academy of Model Aeronautics.
2. I have successfully completed the qualification test flight for turbine-powered model helicopters under the supervision of two experienced turbine pilots, one of whom is a Designated Helicopter Contest Director.
3. I have successfully completed the requirements listed on page two of this document as proof of compliance with the turbine-powered model helicopter pilot requirements.

Signature	AMA Number	Date
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Current turbine waiver holder:

I, _____, am currently an experienced turbine-powered model aircraft pilot and have a turbine waiver/affidavit on file with the Academy of Model Aeronautics.

I hereby attest that _____ has successfully performed the turbine qualification flight outlined on page two of this document.

Signature	AMA Number	Date
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Designated Helicopter CD:

I, _____, am currently a Designated Helicopter Contest Director and also an experienced turbine-powered model aircraft pilot and have a turbine waiver/affidavit on file with the Academy of Model Aeronautics.

I hereby attest that _____ has successfully performed the turbine qualification flight outlined on page two of this document.

Signature	AMA Number	Date
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Submit completed application via mail to AMA, Attn. Turbine Waiver, 5161 E. Memorial Dr., Muncie IN 47302, or email it to turbines@modelaircraft.org.

Questions? Call AMA at (765) 287-1256, ext. 291 or 251.

Turbine Applicant Flight Demonstration

Objective: The purpose of the flight test for the turbine applicant to demonstrate their skills, knowledge, and understanding of how to safely operate and fly a turbine model helicopter.

1. Preflight

- a. Pilot demonstrates knowledge of helicopter specific systems
- b. Pilot demonstrates proper inspection of aircraft

2. Turbine Starting

- a. Pilot demonstrates knowledge of ground support equipment
- b. Pilot demonstrates knowledge of abort procedures
- c. Pilot demonstrates knowledge of and performs safe engine start

3. Precision Hovering

- a. Smoothly lift off and perform tail-in hover out of ground effect
- b. Perform right or left pirouette to side position
- c. Continue pirouette to nose in position
- d. Complete with pirouette to opposite side and back to tail-in for landing
- e. All positions must be held a minimum of 10 seconds

4. Forward Flight

- a. Smoothly lift off and perform stable tail-in hover out of ground effect
- b. Perform pirouette to either direction and begin climb-out
- c. Continue climb-out demonstration smooth transition to forward flight
- d. Demonstrate transition from forward flight to stable tail-in hover

5. Horizontal Figure 8

- a. From forward flight begin turn from either direction to initiate horizontal 8
- b. Complete 8 with approximating crossings, and symmetrical ovals
- c. Perform smooth transition from forward flight to landing

6. High Performance Turns

- a. Perform two high performance turns from both directions
- b. Demonstrate ability to perform high speed positional flight

7. Auto-Rotation

- a. Perform two successful auto-rotations from a minimum 30ft altitude
- b. Primary auto performed at the time and direction of pilot's choosing
- c. Secondary auto performed at the discretion of the Turbine CD