

Operational Guideline 12

Noise Levels



Objective:

The objective of this Guideline is:

1. Showing awareness of good neighbour practices and safety issues.
2. To establish a practical and workable standard of sound pressure noise levels for the operation of model aircraft.
3. To establish guidelines that are workable for both TMAC members, and visitors or members from other clubs operate at the TMAC field.

Guideline

1. For aircraft with engine capacity of 19cc and under, the maximum sound pressure level is 96dB at 3 metres.
2. For aircraft with engine capacity of 20cc and over, the maximum sound pressure level is 96dB at 7 metres.
3. All distances are to be measured from the centre of the propeller.
4. Noise measurement readings shall be taken with the aircraft tethered on the ground (grassed surface), and engine at full throttle.
5. Noise measurement readings are to be taken from 3 directions only. (directly behind the aircraft, and to the left and right)
6. It is the highest measured noise level from the 3 directions that is the recorded noise pressure level. (not the average)
7. All readings are taken on "A" weighted scale.

Aircraft suspected of being noisy

1. If a member has concerns in relation to the noise level of any particular model aircraft, the member may report the matter to the TMAC Secretary.
2. The Secretary is to raise the concern with the Management Committee, and if the Committee deems action is needed, the Secretary is to co-ordinate the testing of the aircraft with the Club's designated Noise Level Tester(s).

Note:

1. Noise levels taken from in front of the aircraft, have been shown to be the lowest or equal to the other 3 directions. For this and for safety reasons, taking noise levels in front of the model aircraft with a spinning propeller and motor at full noise, is not recommended.
2. Noise data was collected over a period of time from a various aircraft using various motors and propellers.
3. This criteria is only pertaining to the TMAC field and may differ form club to club and WILL definitely alter if models are entered in any National competition which are governed by the noise limitations as per the MAAA Rules book.