



Government & Regulatory Affairs

AMA-JPO sUAS Rulemaking
Update
12/15/2010





FAA Order 1110.150

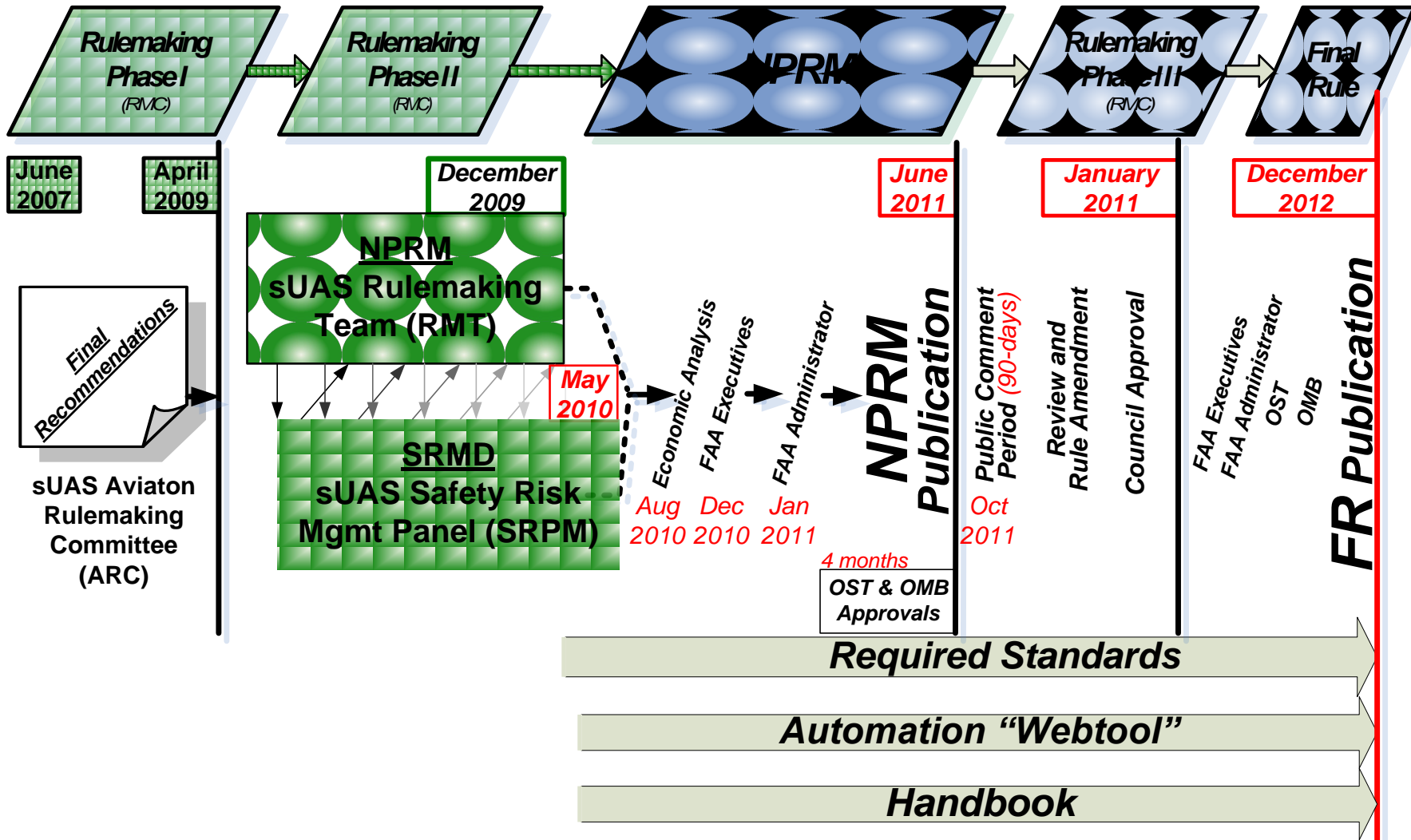
1. Purpose of this Order. This order creates the Small Unmanned Aircraft System (UAS) Aviation Rulemaking Committee (ARC) according to the Federal Aviation Administration (FAA) Administrator's authority under Title 49 of the United States Code (49 U.S.C.) § 106(p) (5). In it, we also outline committee organization, responsibilities and tasks.

4. New Analysis of Small UAS is Needed.

a. Based on the relatively low initial cost of small UAS, plus their low operating expense, versatility for aerial photography, and other sensing applications, we expect that small UAS will experience the largest near-term growth in civil/commercial UAS. Another catalyst for growth is the interest of local law enforcement agencies in acquiring small UAS to either establish or augment their aviation capabilities.

c. Recommendations from the Small UAS ARC will be important to us as we establish the regulatory basis allowing small UAS to operate in the National Airspace System (NAS) for compensation or hire, and clarify the definition of model aircraft.

sUAS Rulemaking – Milestones





AMA Premise

- Model Aviation is a recognized, valuable and worthwhile recreational activity. Our aim is to keep the modeling activity intact and to allow the modeling enthusiasts to continue to enjoy their hobby much the same way as they have in the past.
- AMA guidelines as they exist today have guided the modeling community for many years and have served effectively in ensuring the safe and enjoyable conduct of the aeromodeling activity. The effectiveness of the AMA guidelines and programs has achieved an exemplary safety record. We will first look to AMA guidelines, policies and procedures in developing our standards for the recreational component of the sUAS equation.



sUAS Rule Conceptual Approach

Model Aviation

Model Aircraft operations that are conducted in accordance with an FAA accepted set of standards established and administered by a community based association, shall effectively be exempt from the requirements of the sUAS Regulation... Manufacturers which are flight testing aircraft intended to be operated for the sole purpose of sport, recreation, and/or competition can likewise be exempt...

Off the Shelf Modeling
(Non Participating)

sUAS Rule

Community Based
Organization (AMA)

MA Standards
AMA Safety Code +



Safety Concerns / Hazards

- * Fly Away
- * Loss of control
- * Lost Visual Contact with MA
- * Pilot/Observer Error
- * *Loss of Voice Communication with ATC*
- * *Loss of Voice Comm (pilot/observer)*
 - ✓ High Performance A/C (Turbine)
 - ✓ Altitude Excursions/Operations (Soaring)
 - ✓ Large / Complex A/C (> 55 lbs)
 - ✓ Flying Site Location / Operations



AMA Approach

If it Ain't Broke...

Don't Fix IT!!

- Present a set of guidelines to the FAA for adoption...
- Develop a comprehensive MA program document starting with AMA's Safety Code. Include AMA's Turbine Waiver Program, Experimental A/C Program and all supporting safety documents.
- Consider the implementation of a Flight Training / Pilot Qual Prgm.
- Create the MA Program Document and Inclusive Standards Addressing:
 - ✓ Flying Site Location, Operation and Airspace Utilization
 - ✓ Altitude Excursions and Extended Operations
 - ✓ Operation of Hi-Performance / Hi-Speed Model Aircraft
 - ✓ Operations of Large Model Aircraft (> 55 lbs) [Experimental]
 - ✓ Operation of Turbine Powered Model Aircraft



Work Product Components

Cover / Transmittal Letter

- Media - DVD
- PR Promotion/Presentation
- AMA MA Safety Guidelines (PDF Document)
- Attachments/Appendices, i.e.
 - Safety Code
 - Membership Manual
 - Competition Rulebook
 - Turbine Waiver Safety Program
 - Experimental Aircraft Program
 - Associated AMA Documents (PDFs), etc.



Overall Timeline

June 2008	Aviation Rulemaking Committee (ARC) commenced
March 2009	Aviation Rulemaking Committee (ARC) submitted its report to the FAA
April 2009	FAA began its internal rule development and review process (Ongoing)
May 2009	AMA formed its MA Standards Development Workgroup and initiated its standards development process (Ongoing, WG meets weekly)
January 2011	AMA MA Standards Development WG completion of its initial draft
Jan – Mar 2011	AMA draft standards to be vetted through the EC and modeling community
April 2011	AMA to present its MA standards to the FAA for preliminary acceptance
June 2011	FAA to publish its sUAS Notice of Proposed Rulemaking (NPRM)
Jun – Aug/Oct 2011	60 to 120 day public comment period
Aug/Oct 2011 – Mid 2012	Public comment review and resolution period (time period variable based upon the quantity, complexity and response to the comments submitted)
Fall 2011	Finalization of the MA standards and submittal to the FAA for official acceptance as an alternative means of complying with the sUAS rule.
Mid 2011 thru 2012	MA Standards Development WG and AMA staff to review, develop and/or restructure AMA's MA support material as needed in preparation for implementation of the AMA MA Standards
Mid to Late 2012	FAA to publish its Final sUAS Rule and response to the public comments
1st Quarter 2013	sUAS Rule and AMA MA Standards implementation.



Timeline Looking Forward

- **1/5 – 1/6/2011** 2-Day MA Stds WG Face-to-Face Mtg
- **1/7 – 1/9** AMA Expo / FAA Forum / EC Mtg
- **Jan – Mar 2011** AMA MA Stds Document Vetting (SIGs, Hobby Ind, Ldr Clubs / Mems)
- **Apr 2011** FAA Preliminary MA Stds Review
- **June 2011** sUAS NPRM Publication
- **Jun – Aug/Oct** 60 to 120 Day Public Comment
- **2011 – Mid 2012** Public Comment Review/Resolution
- **Fall 2011** Finalization/Submittal of the MA Stds
- **2011 thru 2012** Develop/Restructure MA Sppt Material
- **Mid - Late 2012** Final sUAS Rule / Response
- **1st Quarter 2013** sUAS Rule / MA Stds implementation