



ASSEMBLY — 39TH SESSION

TECHNICAL COMMISSION

Agenda Item 33: Aviation safety and air navigation monitoring and analysis

**REMOTELY PILOTED AIRCRAFT SYSTEMS (RPAS) IN
INDONESIAN AIRSPACE**

(Presented by Indonesia)

EXECUTIVE SUMMARY	
<p>This paper presents an overview of the development of the approval process for Remotely Piloted Aircraft Systems (RPAS) in Indonesia Airspace</p>	
<i>Strategic Objectives:</i>	<p>This working paper relates to Strategic Objectives of safety and monitoring.</p>
<i>Financial implications:</i>	
<i>References:</i>	<p>Annex 2 — <i>Rules of the Air</i> Circ 328, <i>Unmanned Aircraft Systems (UAS)</i> Ministerial Decree number PM 47 Year 2016, the Controlling Operation of Unmanned Aircraft/ Remotely Piloted Aircraft System (RPAS) in Indonesia Airspace (http://hubud.dephub.go.id/?id/kepmen/download/930) Ministerial Decree number PM 180 Year 2015, the Controlling Operation of Unmanned Aircraft/ Remotely Piloted Aircraft System (RPAS) in Indonesia Airspace (https://www.google.co.id/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0ahUKEwiNspiNwbvOAhWHRY8KHYeLD10QFggcMAA&url=http%3A%2F%2Fjdih.dephub.go.id%2Fassets%2Fuudocs%2Fpermen%2F2015%2FPM_180_Tahun_2015.pdf&usq=AFQjCNF1kgETBXa5t2YmfJEm0ZvO74z6tg&sig2=sVPLETftKChZdxOzJQVjw) Civil Aviation Safety Regulation (CASR) Part 107 (https://www.google.co.id/url?sa=t&rct=j&q=&esrc=s&source=web&cd=3&cad=rja&uact=8&ved=0ahUKEwilvZulwbvOAhXHtY8KHV_OBMoQFggMAI&url=http%3A%2F%2Fjdih.dephub.go.id%2Fassets%2Fuudocs%2Fpermen%2F2015%2FPM_163_Tahun_2015.pdf&usq=AFQjCNHzZTyQIToohojtU2-ly4y3txeb1Q&sig2=sC3VnGIA7ux_K-Z6eX_9YQ)</p>

1. INTRODUCTION

1.1 The possibility of aviation safety degradation caused by unmanned aircraft/ Remotely Piloted Aircraft Systems (RPAS) has been identified as a potential hazard in airspace utilization.

1.2 With reference to the *Unmanned Aircraft Systems (UAS)* (Circ 328) , Indonesia regulates RPAS under Ministerial Decree No. PM 47 of 2016 “Controlled Operation of Unmanned Aircraft/ Remotely Piloted Aircraft Systems (RPAS) in Indonesian Airspace” amending the previous decrees PM 90 and PM 180 of 2015.

1.3 The general requirements for the operation of RPAS are:

a) RPAS should not be operated in areas as follows:

- Prohibited Area;
- Restricted Area;
- Obstacle Limitation Surface.

b) RPAS should not be operated in the airspace as follows:

- Controlled airspace;
- Uncontrolled airspace at 500 ft above.

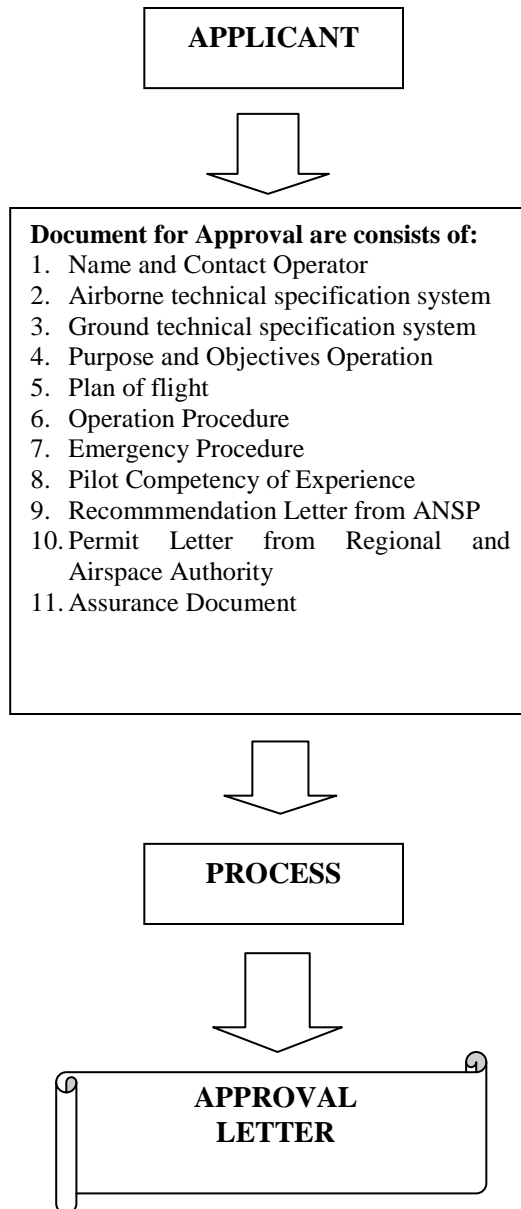
1.4 Special requirements for the operation of RPAS are:

a) RPAS weighing not more than 55 lbs must comply with Civil Aviation Safety Regulation (CASR) Part 107;

b) operating RPAS used for hobby or recreation must comply with sub.part 107.2 CASR Part 107; and

c) RPAS with weight exceeding 55 lbs used for research and development, crew training and market surveys must have an experimental certificate according to subpart 91.319 CASR and the other related CASR.

2. MECHANISM OF APPROVAL APPLICATION



3. SURVEILLANCE AND ENFORCEMENT ACTION

3.1 Surveillance and enforcement is fully conducted by Director General of Civil Aviation, and will be expanded to involve the national security and defense authority.

3.2 Some tools are required to control and monitor all of RPAS operation, such as limits to the frequencies allocation and managing the concern organizations (association, federation).