

Drohne Namibia

Um in Namibia mit einer Drohne fliegen zu dürfen, bedarf es einer offiziellen Genehmigung der NCAA. Bei mir war folgendes Vorgehen erfolgreich:

1. Das Formular **FSS-OPS-FORM-612-01** komplett ausfüllen. Sollte eine Spalte nicht ausfüllbar sein, da euch die Daten fehlen unbedingt “ **not applicable**” eintragen.
2. Die Behörde möchte gerne vorher wissen wo ihr mit eurer Drohne starten wollt. Dazu müsst ihr das Formular **NCAA RPAS Map** ausfüllen. Es sind zwingend die Koordinaten, ein Google Maps Ausschnitt des Startpunktes und der Tag an dem ihr dort starten wollt erforderlich. Hier solltet ihr darauf achten das die Punkte ausserhalb von Nationalparks, privaten Reservat's oder Luft-Landeplätzen sind.
3. Ihr benötigte von eurer Versicherung eine Bestätigung in englischer Sprache, welche bestätigt, dass Schäden durch die Drohne im Urlaubszeitraum versichert sind. Unbedingt den Urlaubszeitraum in die Bestätigung mit aufnehmen lassen.
4. Für die Genehmigung ist eine Gebühr von **NAD/ZAR300** fällig. Diese müsst ihr auf das Konto der NCAA überweisen. Ich habe dazu <https://exchange4free.com/> benutzt.

Die ganzen Unterlagen, sofern ihr sie fertig ausgefüllt und alles beisammen habt schickt ihr dann an rpas@ncaa.na
Dann heißt es auf evtl. Rückfragen warten.



Private Bag 12003 Windhoek Namibia | (Tel) +264 83 235 2100 | (Web) <http://www.ncaa.com.na>

RE: REMOTE PILOTED AIRCRAFT LETTER OF APPROVAL (RLA) APPLICATION

Dear Sir/Madame,

At present the NCAA does not have a licensing system for Remote Piloted Aircraft Systems (RPAS), this system is in development and updates will be published on our website. At present to enable RPAS operators to fly legally, they are required to obtain an RPAS letter of approval (RLA) from the flight operations section of the Namibian Civil Aviation Authority.

To enable an RPAS operator to complete an RLA application, we provide the following documents to applicants:

- 1. Our **payment details**, please submit payment with the reference “applicant name – RPAS” the required fee is **NAD/ZAR300 for private and NAD/ZAR4500 for commercial**, and **N\$745 for registration** (local operators only) payment should reach us a minimum of 10 days before the required approval date, for international payments it is recommended to allow three weeks lead time for the transfer, note this is a non-refundable application fee as it is used to review your application;
- 2. And 2a. An **application form**, please ensure to fill in completely and sign, make sure at a minimum there is an address in section 1.1 and indicate category II for private or category III for commercial, serial number in section 2, dates and cruising altitude as well as emergency contacts in section 3.3, and emergency actions in section 4.4, please indicate N/A where items do not apply, see the example (2a) to assist where you are not sure;
- 2b. For commercial operators please additionally submit a **cover letter** detailing your intended operations;
- 3. A **sample file of map co-ordinates** submission requirements, please submit in word or exported pdf format to ensure text can be copied, and preferably with a KMZ accompanied, (note, for local operators applying for 12 month approvals this is not required),
- 3a. A copy of the **google earth file of restricted areas** for drone use (KMZ file), please note, please use this file for selection of co-ordinates, which should be outside the restricted areas unless you wish to submit an additional application for CAUA approval and/or for MEFT approval;
- 4. **Airworthiness Registration application form** (Locally based RPAS only)
- 5. A copy of the **drone application checklist** for your reference;
- 6. A copy of **drone rules** and reminders for your reference;
- 7. ANSSO CAUA Application form for flying in restricted airspace, if applicable;
- 8. ANSSO Risk assessment form for including with CAUA application if applicable.

Please email all your correctly filled in applications, forms, and documents to rpas@ncaa.na

Please note additionally:

- Any films that are to be displayed for public viewing require Namibian Film Commission (NFC) approval, contact them directly;
- Filming in national parks requires Ministry of Environment, Forestry, and Tourism (MEFT) approval, contact them directly (not available for private flights);
- Filming in restricted airspace or above 150ft requires CAUA approval from NCAA ANSSO department, please submit forms 7 and 8 with land owners permission.
- Public liability insurance is required which must be valid for the applicant, the dates of flight, for Namibia, and for drones, a copy of the proof of this should be submitted in English.
- No filming may be conducted on private property without the express permission of the property owner.

To obtain an approval, please submit proof of payment, your application form, a cover letter if required (commercial applications), maps or registration, a copy of your drone specific public liability insurance valid for your trip in Namibia, a government issued ID, and as applicable MEFT, NFC approvals, and CAUA applications.

Please apply 30 days prior to your flight to ensure your application is successful, and please be aware that international payment transfers can take on average three weeks to be received. Providing we have received all the correct documentation and payment the processing time is one week.

Please contact us if you have any further questions about the application, I look forward to hearing from you further,

NOTE please direct all your responses to rpas@ncaa.na, to ensure the entire team receives the message, which avoids any delays if someone is out on inspections, the assigned inspector will respond.

Regards

RPAS TEAM

NCAA Flight Operations Department
Namibian Civil Aviation Authority (NCAA)
(Tel) +264 832352466; email: rpas@ncaa.na
Web: <http://www.ncaa.com.na>
3ed floor, 4 Rudolph Hertzog Street (opposite Game carpark)
Private Bag 12003 Windhoek Namibia





Private Bag 12003 Windhoek Namibia | (Tel) +264 83 235 2100 | (Web) <http://www.ncaa.com.na>

Application Form for Remotely Piloted Aircraft Operations, NAMCARS, 2001 Part 101 FSS-OPS-FORM-612-01 <i>To be completed by the Owner or Operator</i> <i>(Also to be completed by a foreign operator for an approval to conduct operations in Namibia)</i>	
Issue <input type="checkbox"/> Renewal <input type="checkbox"/> Amendment <input type="checkbox"/>	
Section 1. Applicant information	
<p>1a. Owner, and/or if applicable operator, Company registered name and trading name if different. Address: mailing address; telephone; fax; and e-mail.</p> <p style="text-align: center;">APPLICANT OR COMPANT NAME</p> <p style="text-align: center;">Your street address, Your postal address if different Your town or city Your country</p> <p>Address: youremail@yourprovider.com Mobile phone: +### # ##</p>	<p>1b. Pilot(s) of remote aircraft. Address: mailing address; telephone; fax; and e-mail (if different from 1a).</p> <p style="text-align: center;">PILOT NAME IF DIFFERENT FROM 1a</p>
<p>2a. RPA operator certificate number (if applicable): not applicable</p>	<p>2b. Remote pilot(s) license number(s) or letter of authorization if applicable: not applicable</p>
<p>3 RPA Operating Category according to NAMCAR 101.02.1 Category I <input type="checkbox"/> ; Category II <input checked="" type="checkbox"/> ; Category III <input type="checkbox"/> Note: Mark Category II for private, Category III for commercial</p>	
<p>4. Insurance Information: Name of Insurer and address, including telephone: fax and e-mail. . (NAMCAR 101.06.2)</p>	
Section 2: RPA identification (NAMCAR 101.03.3)	
<ol style="list-style-type: none"> 1. Aircraft registration number, identifying marks, or serial numbers (as applicable): PLEASE INCLUDE a SERIAL NUMBER 2. Aircraft identification to be used in radiotelephony, if applicable: Not applicable 3. Aircraft type: DJI MAVIC AIR 4. Aircraft description (eg. Engines, propellers, wing span): Quadcopter 5. Aircraft controlled via <div style="margin-left: 20px;"> <input checked="" type="checkbox"/> Line of sight <input type="checkbox"/> Satellite <input type="checkbox"/> Computer program <input checked="" type="checkbox"/> Other Advanced Pilot Assistance System (APAS) </div> 6. Aircraft maximum flight altitude 5000 m ceiling 	

<p>7. Aircraft maximum range from remote pilot station 10km</p> <p>8. Aircraft equipment (eg. Sprayers, camera, type, live feed or photographs, aerial mapping equipment etc): Camera for live feed and photographs</p> <p>9. If camera equipped, aircraft camera transmission destination: <input type="checkbox"/> Operator/Company home base <input type="checkbox"/> Image transmission destination <input type="checkbox"/> Other (identify): applicable</p> <p>10. Frequency band to be used: 2.400 - 2.4835 GHz , 5.725 - 5.850 GHz</p> <p>11. Aircraft radio station licence number, if applicable: Not applicable</p>	Not
Section 3. Description of intended operation (NAMCAR 101.5)	
<p>1. Proposed type(s) of operation: <input type="checkbox"/> Aerial mapping; <input type="checkbox"/> Aerial surveying; <input type="checkbox"/> Aerial photography; <input type="checkbox"/> Aerial advertising <input type="checkbox"/> Aerial surveillance and inspection; <input type="checkbox"/> Forest fire management; <input type="checkbox"/> Meteorological service <input type="checkbox"/> Search and rescue; <input type="checkbox"/> Accident/incident investigation; <input type="checkbox"/> Cargo (payload), indicate type of cargo: _____ Is cargo classified as dangerous goods: <input type="checkbox"/> yes; <input type="checkbox"/> no Is payload internal <input type="checkbox"/> or external <input type="checkbox"/> <input checked="" type="checkbox"/> Other (specify): Recreational use only videos and photography</p>	
<p>2. Flight Rules: <input checked="" type="checkbox"/> VFR; <input type="checkbox"/> IFR; <input type="checkbox"/> IMC; <input checked="" type="checkbox"/> VLOS (Visual Line of Sight only); <input type="checkbox"/> BVLOS (Beyond Visual Line of Sight) – subject to special approval only</p>	
<p>3. Dates/Geographic areas/description of intended operations and proposed route structure:</p> <p>a. Date(s) of intended flight (dd/mm/yyyy): _from dd MMM YYYYto dd MMM YYYY</p> <p>b. Point of departure: see attached MAP</p> <p>c. Destination: see attached MAP</p> <p>d. Route to be followed: see attached MAP</p> <p>e. Cruising speeds(s): max 28 km/h</p> <p>f. Cruising level(s)/altitude: below 150 ft</p> <p>g. Duration/frequency of flight: 21 min max</p> <p>h. Emergency set down sites along proposed route: clear areas away from obstacles, property, or people</p> <p>i. For emergency landings: 1. responsible person for aircraft recovery: Operator/pilot 2. responsible person for clean up if impact occurs: Operator/pilot</p> <p>j. Emergency contact telephone numbers: Your cellphone</p>	
Section 4. RPA Characteristics	
<p>1. RPA Characteristics:</p> <p>a. Type of aircraft: DJI MAVIC AIR</p> <p>b. Maximum certificated take-off mass: 430 g</p> <p>c. Number of engines: 4</p> <p>d. Take-off and landing requirements: 50m</p> <p>e. Detect and avoid capabilities: None</p> <p>f. Number and location of remote pilot stations and handover procedures between remote pilot stations, if applicable: N.A.</p> <p>g. payload information/description: N.A.</p> <p>h. Visual control for takeoff and/or landing or takeoff and landing handled through camera on board: YES</p>	

2. Performance characteristics:

- a. Operating speeds:

0 to 28.8 km/h

- b. Typical and maximum climb rates:

2 -4 m/s

- c. Typical and maximum descent rates:

1 -3 m/s

- d. Typical and maximum turn rates:

Data not available

- e. Maximum aircraft endurance:

20 min

- f. Aircraft maximum flight altitude and maximum range from remote pilot station:

max altitude: 5000 meters, max range: 10km, but only to be used VLOS and below 150ft

- g. Other, such as limitations for wind, icing, precipitation e.t.c.

limitations for wind: 29 -38 km/h

- h. Number and location of RPA Stations and handover procedure (if applicable)

1, not applicable

3. Communications, Navigation and Surveillance capabilities (not applicable for VLOS below 150 feet)

- a. Aeronautical safety communications frequencies and equipment:

- i. ATC communications, including any alternate means of communication, as applicable:

not applicable

- ii. Command and control links (C2) including performance parameters and designated operational coverage area;

not applicable

- iii. Communications between remote pilot and RPA observer, if applicable;

not applicable

- b. Navigation equipment;

not applicable

- c. Surveillance equipment (e.g. SSR transponder, ADS-B out, as applicable).

not applicable

4. Emergency procedures:

- a. Communications failure with ATC (if applicable):

not applicable

- b. Remote pilot RPA observer communications failure, (if applicable):

not applicable

- c. command and control (C2) Link failure procedure:

automatic return to base function

- d. Recovery during unplanned landings:

By hand, and with use of GPS location software in RPS

- e. Communication procedure with local law enforcement in case of impact:

By phone, to police (10111) and NCAA (083 235 2466)

1. RPA Characteristics:

- a. Type of aircraft:

- b. Maximum certificated take-off mass:

- c. Number of engines:

- d. Take-off and landing requirements:

- e. Detect and avoid capabilities:

- f. Number and location of remote pilot stations and handover procedures between remote pilot stations, if applicable:

- g. payload information/description:

- h. Visual control for takeoff and/or landing or takeoff and landing handled through camera on board

2. Performance characteristics:

a. Operating speeds:

b. Typical and maximum climb rates:

c. Typical and maximum descent rates:

d. Typical and maximum turn rates:

e. Maximum aircraft endurance:

f. Aircraft maximum flight altitude and maximum range from remote pilot station:

g. Other, such as limitations for wind, icing, precipitation e.t.c

h. Number and location of RPA Stations and handover procedure (if applicable)

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a. Aeronautical safety communications frequencies and equipment:

i. ATC communications, including any alternate means of communication, as applicable:

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iii. Communications between remote pilot and RPA observer, if applicable;

b. Navigation equipment; and

c. Surveillance equipment (e.g. SSR transponder, ADS-B out, as applicable).

4. Emergency procedures:

a. Communications failure with ATC (if applicable):

b. Remote pilot RPA observer communications failure, (if applicable):

c. command and control (C2) Link failure procedure:

d. Recovery during unplanned landings:

e. Communication procedure with local law enforcement in case of impact:

Attach copies of the following, (in English translation if original documents are not in the English language):

☒ Proof of payment or receipt

☒ Liability Insurance certificate;

☒ Government issued ID;

☐ Certificate of registration (local operators); and

☒ Proposed maps (foreign operators)

☐ Remote aircraft operators and/or competency certificate (if applicable)

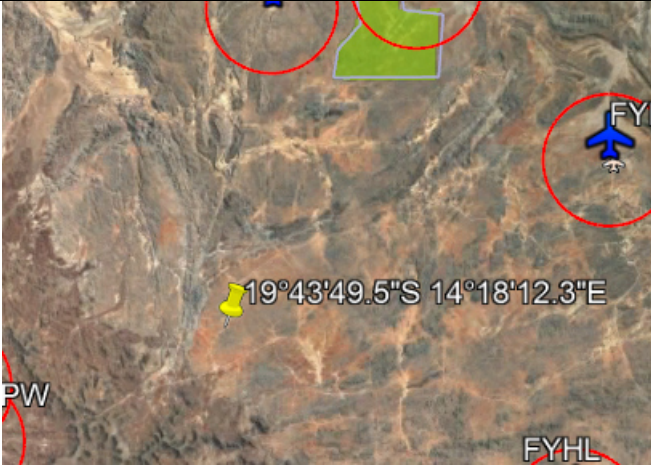

☐ Radio license (if applicable – flights in controlled airspace only)

☐ Noise certificate (if applicable)

☐ Certificate of registration as a surveyor (if applicable)

Signature of Applicant:	PLEASE SIGN OR PASTE A COPY OF YOUR SIGNATURE HERE!!!	Date (dd/mm/yyyy):	Name and title:
Section 5 to be completed by the NCAA			
FOPS Evaluated by (name and office): Sign:		NCAA decision: <input type="checkbox"/> Approval granted <input type="checkbox"/> Not approved Sign: Executive Director for Civil Aviation	

DRONE FLIGHT LOCATIONS – (FULL NAME), (DATE FROM-TO)

Spot Nr.	GPS- Co-ordinates	Map Screenshot	For Office Use		
			FUA	ATC	MET
1	<p>19°43'49"S 14° 18'12"E</p> <p>SAMPLE CO-ORDS MUST BE DEG, MIN, SEC</p> <p>Date : 4-5/6/2019</p> <p>The height of the flight will not be above 150ft</p>	 <p>SAMPLE MAP – PLEASE USE KMZ!</p>			
2	<p>20°39'14.2"S 14°34'00.8"E</p> <p>SAMPLE CO-ORDS MUST BE DEG, MIN, SEC</p> <p>Date : 5-6/6/2019</p> <p>The height of the flight will not be above 150ft</p>	 <p>SAMPLE MAP – PLEASE USE KMZ!</p>			

3					
4					
5					