



U.S. Department
of Transportation
**Federal Aviation
Administration**

800 Independence Ave., S.W.
Washington, D.C. 20591

July 27, 2015

Exemption No. 12172
Regulatory Docket No. FAA-2015-1742

Mr. John Robert West II
44 Old Country Road
Westhampton, NY 11977

Dear Mr. West:

This letter is to inform you that we have granted your request for exemption. It transmits our decision, explains its basis, and gives you the conditions and limitations of the exemption, including the date it ends.

By letter dated May 28, 2015, you petitioned the Federal Aviation Administration (FAA) for an exemption. You requested to operate an unmanned aircraft system (UAS) to conduct aerial data collection.

See Appendix A for the petition submitted to the FAA describing the proposed operations and the regulations that the petitioner seeks an exemption.

The FAA has determined that good cause exists for not publishing a summary of the petition in the Federal Register because the requested exemption would not set a precedent, and any delay in acting on this petition would be detrimental to the petitioner.

Airworthiness Certification

The UAS proposed by the petitioner is a DJI Phantom 3 Professional.

The petitioner requested relief from 14 CFR part 21, *Certification procedures for products and parts, Subpart H—Airworthiness Certificates*. In accordance with the statutory criteria provided in Section 333 of Public Law 112-95 in reference to 49 U.S.C. § 44704, and in consideration of the size, weight, speed, and limited operating area associated with the aircraft and its operation, the Secretary of Transportation has determined that this aircraft meets the conditions of Section 333. Therefore, the FAA finds that the requested relief from

14 CFR part 21, *Certification procedures for products and parts, Subpart H—Airworthiness Certificates*, and any associated noise certification and testing requirements of part 36, is not necessary.

The Basis for Our Decision

You have requested to use a UAS for aerial data collection¹. The FAA has issued grants of exemption in circumstances similar in all material respects to those presented in your petition. In Grants of Exemption Nos. 11062 to Astraeus Aerial (*see* Docket No. FAA–2014–0352), 11109 to Clayco, Inc. (*see* Docket No. FAA–2014–0507), 11112 to VDOS Global, LLC (*see* Docket No. FAA–2014–0382), and 11213 to Aeryon Labs, Inc. (*see* Docket No. FAA–2014–0642), the FAA found that the enhanced safety achieved using an unmanned aircraft (UA) with the specifications described by the petitioner and carrying no passengers or crew, rather than a manned aircraft of significantly greater proportions, carrying crew in addition to flammable fuel, gives the FAA good cause to find that the UAS operation enabled by this exemption is in the public interest.

Having reviewed your reasons for requesting an exemption, I find that—

- They are similar in all material respects to relief previously requested in Grant of Exemption Nos. 11062, 11109, 11112, and 11213;
- The reasons stated by the FAA for granting Exemption Nos. 11062, 11109, 11112, and 11213 also apply to the situation you present; and
- A grant of exemption is in the public interest.

Our Decision

In consideration of the foregoing, I find that a grant of exemption is in the public interest. Therefore, pursuant to the authority contained in 49 U.S.C. 106(f), 40113, and 44701, delegated to me by the Administrator, Mr. John Robert West II is granted an exemption from 14 CFR §§ 61.23(a) and (c), 61.101(e)(4) and (5), 61.113(a), 61.315(a), 91.7(a), 91.119(c), 91.121, 91.151(a)(1), 91.405(a), 91.407(a)(1), 91.409(a)(1) and (2), and 91.417(a) and (b), to the extent necessary to allow the petitioner to operate a UAS to perform aerial data collection. This exemption is subject to the conditions and limitations listed below.

Conditions and Limitations

In this grant of exemption, Mr. John Robert West II is hereafter referred to as the operator.

¹ Aerial data collection includes any remote sensing and measuring by an instrument(s) aboard the UA. Examples include imagery (photography, video, infrared, etc.), electronic measurement (precision surveying, RF analysis, etc.), chemical measurement (particulate measurement, etc.), or any other gathering of data by instruments aboard the UA.

Failure to comply with any of the conditions and limitations of this grant of exemption will be grounds for the immediate suspension or rescission of this exemption.

1. Operations authorized by this grant of exemption are limited to the DJI Phantom 3 Professional when weighing less than 55 pounds including payload. Proposed operations of any other aircraft will require a new petition or a petition to amend this exemption.
2. Operations for the purpose of closed-set motion picture and television filming are not permitted.
3. The UA may not be operated at a speed exceeding 87 knots (100 miles per hour). The exemption holder may use either groundspeed or calibrated airspeed to determine compliance with the 87 knot speed restriction. In no case will the UA be operated at airspeeds greater than the maximum UA operating airspeed recommended by the aircraft manufacturer.
4. The UA must be operated at an altitude of no more than 400 feet above ground level (AGL). Altitude must be reported in feet AGL.
5. The UA must be operated within visual line of sight (VLOS) of the PIC at all times. This requires the PIC to be able to use human vision unaided by any device other than corrective lenses, as specified on the PIC's FAA-issued airman medical certificate or U.S. driver's license.
6. All operations must utilize a visual observer (VO). The UA must be operated within the visual line of sight (VLOS) of the PIC and VO at all times. The VO may be used to satisfy the VLOS requirement as long as the PIC always maintains VLOS capability. The VO and PIC must be able to communicate verbally at all times; electronic messaging or texting is not permitted during flight operations. The PIC must be designated before the flight and cannot transfer his or her designation for the duration of the flight. The PIC must ensure that the VO can perform the duties required of the VO.
7. This exemption and all documents needed to operate the UAS and conduct its operations in accordance with the conditions and limitations stated in this grant of exemption, are hereinafter referred to as the operating documents. The operating documents must be accessible during UAS operations and made available to the Administrator upon request. If a discrepancy exists between the conditions and limitations in this exemption and the procedures outlined in the operating documents, the conditions and limitations herein take precedence and must be followed. Otherwise, the operator must follow the procedures as outlined in its operating documents. The operator may update or revise its operating documents. It is the operator's responsibility to track such revisions and present updated and revised

documents to the Administrator or any law enforcement official upon request. The operator must also present updated and revised documents if it petitions for extension or amendment to this grant of exemption. If the operator determines that any update or revision would affect the basis upon which the FAA granted this exemption, then the operator must petition for an amendment to its grant of exemption. The FAA's UAS Integration Office (AFS-80) may be contacted if questions arise regarding updates or revisions to the operating documents.

8. Any UAS that has undergone maintenance or alterations that affect the UAS operation or flight characteristics, e.g., replacement of a flight critical component, must undergo a functional test flight prior to conducting further operations under this exemption. Functional test flights may only be conducted by a PIC with a VO and must remain at least 500 feet from other people. The functional test flight must be conducted in such a manner so as to not pose an undue hazard to persons and property.
9. The operator is responsible for maintaining and inspecting the UAS to ensure that it is in a condition for safe operation.
10. Prior to each flight, the PIC must conduct a pre-flight inspection and determine the UAS is in a condition for safe flight. The pre-flight inspection must account for all potential discrepancies, e.g., inoperable components, items, or equipment. If the inspection reveals a condition that affects the safe operation of the UAS, the aircraft is prohibited from operating until the necessary maintenance has been performed and the UAS is found to be in a condition for safe flight.
11. The operator must follow the UAS manufacturer's maintenance, overhaul, replacement, inspection, and life limit requirements for the aircraft and aircraft components.
12. Each UAS operated under this exemption must comply with all manufacturer safety bulletins.
13. Under this grant of exemption, a PIC must hold either an airline transport, commercial, private, recreational, or sport pilot certificate. The PIC must also hold a current FAA airman medical certificate or a valid U.S. driver's license issued by a state, the District of Columbia, Puerto Rico, a territory, a possession, or the Federal government. The PIC must also meet the flight review requirements specified in 14 CFR § 61.56 in an aircraft in which the PIC is rated on his or her pilot certificate.
14. The operator may not permit any PIC to operate unless the PIC demonstrates the ability to safely operate the UAS in a manner consistent with how the UAS will be operated under this exemption, including evasive and emergency maneuvers and maintaining appropriate distances from persons, vessels, vehicles and structures. PIC qualification flight hours and currency must be logged in a manner consistent with

14 CFR § 61.51(b). Flights for the purposes of training the operator's PICs and VOs (training, proficiency, and experience-building) and determining the PIC's ability to safely operate the UAS in a manner consistent with how the UAS will be operated under this exemption are permitted under the terms of this exemption. However, training operations may only be conducted during dedicated training sessions. During training, proficiency, and experience-building flights, all persons not essential for flight operations are considered nonparticipants, and the PIC must operate the UA with appropriate distance from nonparticipants in accordance with 14 CFR § 91.119.

15. UAS operations may not be conducted during night, as defined in 14 CFR § 1.1. All operations must be conducted under visual meteorological conditions (VMC). Flights under special visual flight rules (SVFR) are not authorized.
16. The UA may not operate within 5 nautical miles of an airport reference point (ARP) as denoted in the current FAA Airport/Facility Directory (AFD) or for airports not denoted with an ARP, the center of the airport symbol as denoted on the current FAA-published aeronautical chart, unless a letter of agreement with that airport's management is obtained or otherwise permitted by a COA issued to the exemption holder. The letter of agreement with the airport management must be made available to the Administrator or any law enforcement official upon request.
17. The UA may not be operated less than 500 feet below or less than 2,000 feet horizontally from a cloud or when visibility is less than 3 statute miles from the PIC.
18. If the UAS loses communications or loses its GPS signal, the UA must return to a pre-determined location within the private or controlled-access property.
19. The PIC must abort the flight in the event of unpredicted obstacles or emergencies.
20. The PIC is prohibited from beginning a flight unless (considering wind and forecast weather conditions) there is enough available power for the UA to conduct the intended operation and to operate after that for at least five minutes or with the reserve power recommended by the manufacturer if greater.
21. Air Traffic Organization (ATO) Certificate of Waiver or Authorization (COA). All operations shall be conducted in accordance with an ATO-issued COA. The exemption holder may apply for a new or amended COA if it intends to conduct operations that cannot be conducted under the terms of the attached COA.
22. All aircraft operated in accordance with this exemption must be identified by serial number, registered in accordance with 14 CFR part 47, and have identification (N-Number) markings in accordance with 14 CFR part 45, Subpart C. Markings must be as large as practicable.

23. Documents used by the operator to ensure the safe operation and flight of the UAS and any documents required under 14 CFR §§ 91.9 and 91.203 must be available to the PIC at the Ground Control Station of the UAS any time the aircraft is operating. These documents must be made available to the Administrator or any law enforcement official upon request.
24. The UA must remain clear and give way to all manned aviation operations and activities at all times.
25. The UAS may not be operated by the PIC from any moving device or vehicle.
26. All Flight operations must be conducted at least 500 feet from all nonparticipating persons, vessels, vehicles, and structures unless:
 - a. Barriers or structures are present that sufficiently protect nonparticipating persons from the UA and/or debris in the event of an accident. The operator must ensure that nonparticipating persons remain under such protection. If a situation arises where nonparticipating persons leave such protection and are within 500 feet of the UA, flight operations must cease immediately in a manner ensuring the safety of nonparticipating persons; and
 - b. The owner/controller of any vessels, vehicles or structures has granted permission for operating closer to those objects and the PIC has made a safety assessment of the risk of operating closer to those objects and determined that it does not present an undue hazard.

The PIC, VO, operator trainees or essential persons are not considered nonparticipating persons under this exemption.

27. All operations shall be conducted over private or controlled-access property with permission from the property owner/controller or authorized representative. Permission from property owner/controller or authorized representative will be obtained for each flight to be conducted.
28. Any incident, accident, or flight operation that transgresses the lateral or vertical boundaries of the operational area as defined by the applicable COA must be reported to the FAA's UAS Integration Office (AFS-80) within 24 hours. Accidents must be reported to the National Transportation Safety Board (NTSB) per instructions contained on the NTSB Web site: www.nts.gov.

If this exemption permits operations for the purpose of closed-set motion picture and television filming and production, the following additional conditions and limitations apply.

29. The operator must have a motion picture and television operations manual (MPTOM) as documented in this grant of exemption.

30. At least 3 days before aerial filming, the operator of the UAS affected by this exemption must submit a written Plan of Activities to the local Flight Standards District Office (FSDO) with jurisdiction over the area of proposed filming. The 3-day notification may be waived with the concurrence of the FSDO. The plan of activities must include at least the following:
- a. Dates and times for all flights;
 - b. Name and phone number of the operator for the UAS aerial filming conducted under this grant of exemption;
 - c. Name and phone number of the person responsible for the on-scene operation of the UAS;
 - d. Make, model, and serial or N-Number of UAS to be used;
 - e. Name and certificate number of UAS PICs involved in the aerial filming;
 - f. A statement that the operator has obtained permission from property owners and/or local officials to conduct the filming production event; the list of those who gave permission must be made available to the inspector upon request;
 - g. Signature of exemption holder or representative; and
 - h. A description of the flight activity, including maps or diagrams of any area, city, town, county, and/or state over which filming will be conducted and the altitudes essential to accomplish the operation.
31. Flight operations may be conducted closer than 500 feet from participating persons consenting to be involved and necessary for the filming production, as specified in the exemption holder's MPTOM.

Unless otherwise specified in this grant of exemption, the UAS, the UAS PIC, and the UAS operations must comply with all applicable parts of 14 CFR including, but not limited to, parts 45, 47, 61, and 91.

This exemption terminates on July 31, 2017, unless sooner superseded or rescinded.

Sincerely,

/s/

John S. Duncan

Director, Flight Standards Service

Enclosures

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
WASHINGTON, DC

**IN THE MATTER OF THE PETITION FOR EXEMPTION OF:
John Robert West II
FOR AN EXEMPTION SEEKING RELIEF FROM THE REQUIREMENTS OF
TITLE 14 OF THE CODE OF FEDERAL REGULATIONS
SECTIONS 61.113(a) & (b), 91.7(a), 91.121, 91.151(b), 91.405(a), 91.407(a)(1),
91.409(a)(1) & (a)(2), AND 91.417(a) & (b) CONCERNING COMMERCIAL OPERATION
OF CARBON CORE OCTOCOPTER/DJI PHANTOM 3 PROFESSIONAL QC
UNMANNED AIRCRAFT SYSTEMS
PURSUANT TO SECTION 333 OF
THEFAAMODERNIZATIONANDREFORMACTOF2012
(PUBLICLAW112-95)**

Submitted on May 28, 2015

John Robert West II
44 Old Country Road
Westhampton NY, 11977

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GLOSSARY OF ABBREVIATIONS

AGL	Above Ground Level
AOI	Area of Interest
ATC	Air Traffic Control
ATO	Air Traffic Organization
AV	Aerial Vehicle
CFR	Code of Federal Regulations
COA	Certificate Of Authorization
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulation
GCS	Ground Control Station
GPS	Global Positioning System
HH	Horizon Hobby Blade 350QX2AP
LOL	Loss Of Link
NAS	National Airspace System
NOTAM	Notice To Airman
PIC	Pilot In Command
Section 333	FAA Modernization and Reform Act of 2012 (FMRA) Section 333
SO	Safety Observer
SOP	Standard Operating Procedures
UA	Unmanned Aircraft
UAS	Unmanned Aircraft System
VFR	Visual Flight Rules
VLOS	Visual Line Of Site
VMC	Visual Meteorological Conditions
VTOL	Vertical Take-Off and Landing

SUMMARY

John Robert West seeks exemption from the requirements of 14 C.F.R §§ 61.113(a) & (b), 91.7(a), 91.121, 91.151(b), 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), and 91.417(a) & (b), to operate an Unmanned Aircraft System pursuant to Section 333 of the FAA Modernization and Reform Act of 2012 (FMRA). This exemption will permit to operate an Unmanned Aircraft System (UAS) for the commercial purpose of conducting aerial video and photography of construction sites, real estate and landscape over certain areas of the United States.

INTRODUCTION AND INTERESTS OF THE PETITIONER

John Robert West II provides his clients with a unique perspective on the services that they provide and knowledge in drone safety in advanced photography and video solutions to increase efficiency, productivity and effectiveness.

John Robert West II has over 4 years of experience in Photographic and Video Technology. He has over 4 years recreational and hobby experience in all aspects of aerial video and photography. The objective of John Robert West II 's aerial video and Photography operations is to provide high quality imaging for a variety of commercial, public, and residential uses, specifically targeting:

Construction sites before, after and during

Appraisals

Real-estate marketing

Aerial acquisitions used for inspections of public and private structures.

Search and Rescue operations

BACKG **ROUND**

Unmanned Aircraft Systems: , DJI Phantom 3 Professional QC UAS's

John Robert West II seeks an exemption to operate DJI Phantom 3 Professional QC for compensation or hire within the NAS. The DJI Phantom 3 Professional QC is a vertical takeoff and landing (VTOL) Unmanned Aircraft (UA) Utilizing a 2.4ghz Remote Control system. The DJI Phantom 3 Professional has a maximum gross weight of approximately 1280 g, while having a diagonal size of 590mm, and a maximum speed of approximately 16 knots.

The DJI Phantom 3 Professional QC UAS's that will be operated by John Robert West II will be registered in accordance with 49 U.S.C. 44103, *Registration of Aircraft*, as well as 14 C.F.R Part 47, *Aircraft Registration*, and marked in accordance with 14 C.F.R. Part 45, *Identification and Registration Marking*.

BASISFOR **PETITION**

Petitioner, John Robert West II, pursuant to the provisions of the Federal Aviation Regulations (14 C.F.R. § 11.61) and the FAA Modernization and Reform Act of 2012 (FMRA), Section 333, *Special Rules for Certain Unmanned Aircraft Systems*, hereby petitions the Administrator to commercially operate the And DJI Phantom 3 Professional QC UAS's in the National Airspace System (NAS), and for an exemption from the requirements of 14 C.F.R §§ 61.113(a) & (b), 91.7(a), 91.121, 91.151(b), 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), and 91.417(a) & (b).

In consideration of the speed, weight, size, and limited operating area associated with the unmanned aircraft and its operation, John Robert West II operation of and DJI Phantom 3 Professional QC UAS's meets the conditions of FMRA Section 333 and therefore, will not require an airworthiness certificate in ordnance with 14 C.F.R. Part 21, Subpart H.

Accordingly, John Robert West II requests relief from Sections 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), and 91.417(a) & (b), as these sections set forth requirements for maintenance that only apply to aircraft with an airworthiness certificate.

John Robert West II submits that the requested relief is proper since an equivalent level of safety will be ensured. John Robert West II will use experienced personnel or technicians to perform maintenance, alterations, or preventive maintenance on the UAS's using the methods, techniques, and practices prescribed in the operating documents (i.e., Monthly Maintenance Log, and DJI Phantom 3 Professional QC Instruction Manual). Furthermore, John Robert West II will document and maintain all maintenance records for the and DJI Phantom 3 Professional QC UAS's. Relief from certain requirements of Section 61.113(a) and (b), entitled *Private pilot privileges and limitations: Pilot in command*, is requested by John Robert West II to the extent necessary to allow a Pilot in Command (PIC) holding a private pilot or higher level certificate, as well as an airman medical certificate, and who has demonstrated, by meeting minimum flight- hour and current requirements, that the PIC is able to safely operate the DJI Phantom 3 Professional QC UAS's in a manner consistent with this exemption, including evasive and emergency maneuvers and maintaining appropriate distances from people, vessels, vehicles and structures.

John Robert West II seeks relief from Section 91.7(a), entitled *Civil aircraft airworthiness*, because the DJI Phantom 3 Professional QC UAS's do not require an airworthiness certificate in ordnance with 14 C.F.R. Part 21, Subpart H. As such, John Robert West II submits that he will ensure that the Phantom 3 UAS's is in an airworthy condition, prior to every flight, by determining that the UAS's are in compliance with the operating documents (i.e., Monthly Maintenance Log, and DJI Phantom 3 Professional QC Instruction Manual), and that the aircraft are in a condition for safe flight. John Robert West II also seeks an exemption from the requirements of Section 91.121, entitled *Altimeter Settings*, as the DJI Phantom 3 Professional QC UAS's will not have a typical barometric altimeter onboard. However, altitude information of the and DJI Phantom 3 Professional QC UAS's will be provided to the PIC via Global Positioning System (GPS) equipment and radio communications telemetry data link, which downlinks from the UAS to the GCS for active monitoring of the flight path. This altitude information, combined with John Robert West II's operation of the DJI Phantom 3 Professional QC UAS's within visual line of sight, at or below 400 feet AGL, will ensure a level of safety equivalent to Section 91.121.

Additionally, John Robert West II seeks an exemption from the requirements of Section 91.151(b), entitled *Fuel requirements for flight in VFR conditions*. John Robert West II's submits that safety will not be affected by operation of the and DJI Phantom 3 Professional QC UAS's during daylight hours in visual meteorological conditions (VMC) under visual flight rules (VFR), with enough battery power to fly for a total duration of approximately 10 minutes for the intended photo shoot and, assuming normal cruising speed, to fly after that for at least 2.5 minutes for recovery and landing. In accordance with

14 C.F.R. § 11.81, John Robert West II provides the following information in support of its petition for exemption:

A. Name And Address Of The Petitioner

The name and address of the Petitioner and point of contact is:

John Robert West II
44 Old Country Road
Westhampton NY 11977
Email: jrwpics1@gmail.com

B. The Specific Sections Of 14 C.F.R. From Which John Robert West II seeks Exemption

1. John Robert West II seeks Exemption From The Requirements Of Section 61.113(a) And (b).

Section 61.113, entitled Private pilot privileges and limitations: *Pilot in command*, subsections (a) and (b) prescribe the following, in relevant part:

- (a) No person who holds a private pilot certificate may act as a pilot in command (PIC) of an aircraft that is carrying passengers or property for compensation or hire; nor may that person, for compensation or hire, act as PIC of an aircraft.
- (b) A private pilot may, for compensation or hire, act as PIC of an aircraft in connection with any business or employment if—
 - (1) The flight is only incidental to that business or employment; and
 - (2) The aircraft does not carry passengers or property for compensation or hire.

2. John Robert West II seeks Exemption From The Requirements Of Section 91.7(a).

Section 91.7, entitled *Civil aircraft airworthiness*, subsection (a), states the following:

(a) No person may operate a civil aircraft unless it is in an airworthy condition.

3. John Robert West II seeks Exemption From The Requirements Of Section 91.121.

Section 91.121, entitled *Altimeter settings*, subsection (a), states the following, in part:

(a) Each person operating an aircraft shall maintain the cruising altitude or flight level of that aircraft, as the case may be, by reference to an altimeter that is set, when operating--

(1) Below 18,000 feet MSL, to--

(i) The current reported altimeter setting of a station along the route and within 100 nautical miles of the aircraft;

(ii) If there is no station within the area prescribed in paragraph (a)(1)(i) of this section, the current reported altimeter setting of an appropriate available station; or

(iii) In the case of an aircraft not equipped with a radio, the elevation of the departure airport or an appropriate altimeter setting available before departure.

4. John Robert West II seeks Exemption From The Requirements Of Section 91.151(b).

Section 91.151, entitled *Fuel requirements for flight in VFR conditions*, subsection (b), states the following:

(b) *No person may begin a flight in a rotorcraft under VFR conditions unless (considering wind and forecast weather conditions) there is enough fuel to fly to the first point of intended landing and, assuming normal cruising speed, to fly after that for at least 20 minutes.*

5. John Robert West II seeks Exemption From The Requirement Of Section 91.405(a).

Section 91.405, entitled *Maintenance required*, subsection (a), states the following:

Each owner or operator of an aircraft—

- (a) Shall have that aircraft inspected as prescribed in subpart E of this part and shall between required inspections, except as provided in paragraph (c) of this section, have discrepancies repaired as prescribed in part 43 of this chapter[.]

6. John Robert West II seeks Exemption From The Requirements Of Section 91.407(a)(1)

Section 91.407, entitled *Operation after maintenance, preventive maintenance, rebuilding, or alteration*, subsection (a)(1), states the following:

- (a) No person may operate any aircraft that has undergone maintenance, preventive maintenance, rebuilding, or alteration unless--
 - (1) It has been approved for return to service by a person authorized under § 43.7 of this chapter.

7. John Robert West II seeks Exemption From The Requirements Of Sections 91.409(a)(1) And 91.409(a)(2).

Section 91.409, entitled *Inspections*, subsection (a), states the following:

- (a) Except as provided in paragraph (c) of this section, no person may operate an aircraft unless, within the preceding 12 calendar months, it has had --
 - (1) An annual inspection in accordance with part 43 of this chapter and has been approved for return to service by a person authorized by § 43.7 of this chapter or
 - (2) An inspection for the issuance of an airworthiness certificate in accordance with part 21 of this chapter.

8. John Robert West II seeks Exemption From The Requirements Of Sections 91.417(a) And 91.417(b).

Section 91.417, entitled *Maintenance records*, subsections (a) and (b), state the following:

- (a) Except for work performed in accordance with §§ 91.411 and 91.413, each registered owner or operator shall keep the following records for the periods specified in paragraph (b) of this section:

- (1) Records of the maintenance, preventive maintenance, and alteration and records of the 100-hour, annual, progressive, and other required or approved inspections, as appropriate, for each aircraft (including the airframe) and each engine, propeller, rotor, and appliance of an aircraft. The records must include--
 - (i) A description (or reference to data acceptable to the Administrator) of the work performed; and
 - (ii) The date of completion of the work performed; and
 - (iii) The signature, and certificate number of the person approving the aircraft for return to service.
- (2) Records containing the following information:
 - (i) The total time in service of the airframe, each engine, each propeller, and each rotor.
 - (ii) The current status of life-limited parts of each airframe, engine, propeller, rotor, and appliance.
 - (iii) The time since last overhaul of all items installed on the aircraft which are required to be overhauled on a specified time basis.
 - (iv) The current inspection status of the aircraft, including the time since the last inspection required by the inspection program under which the aircraft and its appliances are maintained.
 - (v) The current status of applicable airworthiness directives (AD) and safety directives including, for each, the method of compliance, the AD or Safety directive number and revision date. If the AD or safety directive involves recurring action, the time and date when the next action is required.
 - (vi) Copies of the forms prescribed by § 43.9(d) of this chapter for each major alteration to the airframe and currently installed engines, rotors, propellers, and appliances.
- (b) The owner or operator shall retain the following records for the periods prescribed:
 - (1) The records specified in paragraph (a)(1) of this section shall be retained until the work is repeated or superseded by other work or for 1 year after the work is performed.

- (2) The records specified in paragraph (a)(2) of this section shall be retained and transferred with the aircraft at the time the aircraft is sold.
- (3) A list of defects furnished to a registered owner or operator under § 43.11 of this chapter shall be retained until the defects are repaired and the aircraft is approved for return to service.

C. The Extent Of Relief John Robert West II seeks And The Reason John Robert West II seeks The Relief.

1. Extent Of Relief John Robert West II seeks And The John Robert West II seeks Relief From Section 61.113(a) And (b).

Relief from Section 61.113(a) and (b) entitled *Private pilot privileges and limitations: Pilot in command*, is requested to the extent necessary to allow a PIC holding a private pilot or higher level certificate, as well as a current and valid airman medical certificate, and who has met certain flight-hour and currency requirements, to conduct the proposed UAS flight operations for compensation or hire.

This relief is requested since the limitations set forth in Section 61.113(a) and (b) state that a private pilot may, for compensation or hire, act as PIC of an aircraft in connection with any business or employment if: (1) The flight is only incidental to that business or employment; and (2) The aircraft does not carry passengers or property for compensation or hire.

As set forth more fully below, John Robert West II submits that an equivalent level of safety will be maintained because no PIC will be allowed to operate the DJI Phantom 3 Professional QC UAS's unless that PIC has met certain flight-hour and current requirements, demonstrating that the PIC is able to safely operate the DJI Phantom 3 Professional QC UAS's in a manner consistent with the operations specifications as described in this exemption, including evasive and emergency maneuvers, as well as maintaining appropriate distances from people, vessels, vehicles and structures.

Further, John Robert West II submits that all flights of the DJI Phantom 3 Professional QC UAS's, conducted by the PIC pursuant to the grant of this Petition: (1) will be incidental to John Robert West II business; and (2) will not carry passengers or property for compensation or hire.

2.Extent Of Relief John Robert West II seeks And The Reason John Robert West II seeks Relief From Section 91.7(a).

Relief from Section 91.7(a) entitled *Civil aircraft airworthiness*, is requested to the extent required to allow John Robert West II to determine that the DJI Phantom 3 Professional QC UAS's are in airworthy condition prior to every flight by ensuring that the UAS is in compliance with the operating documents (i.e., the Monthly Maintenance Log and DJI Phantom 3 Professional QC manuals.

John Robert West II seeks the requested relief because the DJI Phantom 3 Professional QC UAS's do not require an airworthiness certificate in accordance with 14 C.F.R. Part 21, Subpart H. Therefore, John Robert West II will ensure that the DJI Phantom 3 Professional QC UAS's are in airworthy condition based upon its compliance with the operating documents (i.e., Monthly Maintenance Log, and DJI Phantom 3 Professional QC Instruction Manual) prior to every flight, and further, determine that the aircraft are in condition for safe flight, as stated in the conditions and limitations below.

3. Extent Of Relief John Robert West II seeks And The Reason John Robert West II seeks Relief From Section 91.121.

Relief from Section 91.121, entitled Altimeter settings, may be required to allow flight operations of the DJI Phantom 3 Professional QC UAS's, which utilize a barometric pressure sensor, GPS equipment, and a radio communications telemetry data link to downlink altitude information from the UA to the PIC at the controller. Since the FAA requires that any altitude information concerning UAS operations be reported to air traffic control (ATC) in feet above ground level (AGL), John Robert West II seeks the requested relief because the DJI

Phantom 3 Professional QC UAS's altimeter may be set on the ground to zero feet AGL, rather than the local barometric pressure or field altitude, before each flight.

Considering the limited altitude of the proposed operations, relief from 14 CFR 91.121 is sought to the extent necessary to comply with the applicable conditions and limitations stated below. As more fully set forth herein, an equivalent level of safety will be maintained since the DJI Phantom 3 Professional QC UAS's are equipped with a barometric pressure sensor and GPS equipment, which automatically ensures that a ground level pressure setting will be established prior to each flight, and provides the PIC with altitude information of the UA on the heads-up display of the controller.

4. Extent Of Relief John Robert West II seeks And The Reason John Robert West II seeks Relief From Section 91.151(b).

Relief from Section 91.151(b) entitled Fuel requirements for flight in VFR conditions, is requested to the extent required to allow flights of the battery powered DJI Phantom 3 Professional QC UAS's during daylight hours in visual meteorological conditions (VMC), under visual flight rules (VFR), for a total duration of 10 minutes to the first point of intended landing and, assuming normal cruising speed, to fly after that for at least 2.5 minutes. John Robert West II seeks the requested relief because without an exemption from Section 91.151(b), the flight time duration of the battery powered and DJI Phantom 3 Professional QC UAS's will severely constrain the practicality of any aerial video or still photo flight operations that John Robert West II proposes to conduct pursuant to this Petition.

Significantly, as set forth below, the technical specifications of the DJI Phantom 3 Professional QC UAS's, and the DJI Phantom 3 Professional QC operating documents and John Robert West II proposed operating limitations, ensure that John Robert West II will safely operate the battery powered DJI Phantom 3 Professional QC UAS's during daylight hours in visual meteorological conditions (VMC), under visual flight rules (VFR), with enough battery power to fly

for a total duration of 10 minutes to the first point of intended landing and, assuming normal cruising speed, to fly after that for at least 2.5 minutes.

5.Extent Of Relief John Robert West II seeks And The Reason John Robert West II seeks Relief From Sections 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), And 91.417(a) & (b).

Since Sections 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), and 91.417(a) & (b) only apply to aircraft with an airworthiness certificate, John Robert West II requests relief from these Sections because the DJI Phantom 3 Professional QC UAS's do not require airworthiness certificates. As set forth more fully below, the DJI Phantom 3 Professional QC UAS's meet the conditions of FMRA Section 333 for operation without an airworthiness certificate. Accordingly, John Robert West II will use trained technicians to perform maintenance, alterations, or preventive maintenance on the UAS's using the methods, techniques, and practices prescribed in the UAS operating documents (i.e., the Aerial Operations Manual, Monthly Maintenance Log, and DJI Phantom 3 Professional QC Instruction Manual). Furthermore, John Robert West II will document and maintain all maintenance records for the DJI Phantom 3 Professional QC UAS's.

D. The Reasons Why Granting John Robert West II Request Would Be In The Interest; That Is, How It Would Benefit The Public As A Whole.

Granting the present Petition will further the public interest by allowing John Robert West II to safely, efficiently, and economically perform aerial video and photography of construction sites, real estate, and landscape over certain areas of the United States.

Additionally, use of the DJI Phantom 3 Professional QC UAS's will decrease congestion of the NAS, reduce pollution, and provide significant benefits to the economy. Notably, the benefits of John Robert West II's proposed operation of the DJI Phantom 3 Professional QC UAS's will be realized without implicating any privacy issues.

1. The Public Will Benefit From Decreased Congestion Of The NAS.

The DJI Phantom 3 Professional QC UAS's are battery powered and serve as a safe, efficient, and economical alternative to the manned aircraft traditionally utilized to obtain aerial imagery. By reducing the amount of manned aircraft needed to perform aerial acquisitions, an exemption allowing the use of the DJI Phantom 3 Professional QC UAS's would reduce the amount of manned aircraft in the NAS, reduce noise and air pollution, as well as increase the safety of life and property in the air and on the ground.

Furthermore, by reducing the number of manned aircraft operating in the NAS, congestion around airports caused by arriving and departing aircraft will be reduced. The DJI Phantom 3 Professional QC UAS's do not require an airport to takeoff or land. Likewise, a reduction of manned aircraft conducting aerial video and photography missions would result in fewer aircraft that must be handled by air traffic control during the ground, takeoff, departure, arrival, and landing phases of flight operations.

2. The Public Will Benefit From The Safety And Efficiency Of The DJI Phantom 3 Professional QC UAS's.

Conducting aerial acquisitions with the DJI Phantom 3 Professional QC UAS's instead of manned aircraft, will greatly benefit the public by drastically reducing the levels of air and noise pollution generated during traditional aerial video and still photography flight operations. By using battery power and electric motors, the DJI Phantom 3 Professional QC UAS's produce no air pollution, and is the most viable environmentally conscious alternative to the cabin class, six cylinder internal combustion engine aircraft that are typically utilized for aerial video and photography while burning approximately 20-30 gallons per hour of leaded aviation fuel. The DJI Phantom 3 Professional QC UAS's, while reducing the carbon footprint of aerial

acquisitions, also eliminates noise pollution, as the UA's are propelled by battery powered electric motors, rather than an internal combustion engine.

By using the DJI Phantom 3 Professional QC UAS's to perform aerial acquisitions, the substantial risk to life and property in the air and on the ground, which is usually associated with traditional manned aircraft flight operations, will be substantially reduced or completely eliminated. Aside from the lack of flight crew members located onboard the aircraft, the DJI Phantom 3 Professional QC UAS's (weighing approximately 1280g with Battery and Propellers respectively, at their maximum gross weights with respectively (and with no fuel on board) has less physical potential for collateral damage to life and property on the ground, and in the air, compared to the manned aircraft that typically conduct similar operations (weighing approximately 6,000 pounds, and a fuel capacity of 180 gallons.

3. Performing Aerial Video and Photography Operations With The DJI Phantom 3 Professional QC UAS's Will Benefit The Economy.

In addition to being safe and efficient, the DJI Phantom 3 Professional QC UAS's are also an economical alternative to using manned aircraft to conduct similar aerial operations. As such, operation of the DJI Phantom 3 Professional QC UAS's will allow United States based companies, like John Robert West II to remain competitive and contribute to growth of the U.S. economy. Specifically, with the rising cost of aviation fuel and the Environmental Protection Agency ("EPA") regulatory actions phasing out leaded aviation fuels, U.S. owned and operated companies must adopt new and alternative technology in order to remain competitive. Operating the battery powered DJI Phantom 3 Professional QC UAS's is one such technology that not only allows companies greater operational flexibility compared to manned aircraft, but provides such flexibility without the high operational cost of a traditional manned aircraft.

By operating the DJI Phantom 3 Professional QC UAS's, companies such as John Robert West II's can remain competitive and profitable and therefore, provide greater job stability to employees and contractors, which will ultimately contribute to growth of the U.S. economy. Improved financial performance of U.S. companies, through commercial use of the DJI Phantom 3 Professional QC UAS's, provides a stable workforce that increases consumer spending, improves local, state, and federal tax revenues and allows companies to invest in research and development in order to remain competitive both in the United States and abroad.

4. There Are No Privacy Issues.

Similar to the manned aerial acquisition flight operations that have been conducted for decades, John Robert West II's proposed operation of the DJI Phantom 3 Professional QC UAS's will not implicate any privacy issues. Specifically, the DJI Phantom 3 Professional QC UAS's will be operated only in compliance with operating documents (i.e. Aerial Operations Manual, Monthly Maintenance Log, and the DJI Phantom 3 Professional QC Instruction Manual's) which requires property owner involvement as well as local law enforcement notification, and in accordance with the Federal Aviation Regulations, including the minimum altitude requirements of 14 C.F. R. § 91.119.

E. The Reasons Why Granting The Exemption Would Not Adversely Affect Safety, Or How The Exemption Would Provide A Level Of Safety At Least Equal To That Provided By The Rule From Which John Robert West II Seeks Exemption.

1. Reasons Why The DJI Phantom 3 Professional QC UAS's Meet The Conditions Of The FAA Modernization and Reform Act of 2012 (FMRA) Section 333.

In consideration of the size, weight, speed, and limited operating area associated with the unmanned aircraft and its operation, John Robert West II's operation of the DJI Phantom 3 Professional QC UAS's meet the conditions of FMRA Section 333, and will not require an airworthiness certificate in accordance with 14 C.F.R. Part 21, Subpart H.

Section 333 provides authority for a UAS to operate without airworthiness certification and sets forth requirements for considering whether a UAS will create a hazard to users of the NAS or the public, or otherwise pose a threat to national security. Specifically, FMRA Section 333 states the following, in part:

(a) In General.--Notwithstanding any other requirement of this subtitle, and not later than 180 days after the date of enactment of this Act, the Secretary of Transportation shall determine if certain unmanned aircraft systems may operate safely in the national airspace system before completion of the plan and rulemaking required by section 332 of this Act or the guidance required by section 334 of this Act.

(b) Assessment of Unmanned Aircraft Systems.--In making the determination under subsection (a), the Secretary shall determine, at a minimum--

*(1) Which types of unmanned aircraft systems, if any, as a result of their size, weight, speed, operational capability, proximity to airports and populated areas, and operation within visual line of sight do not create
A hazard to users of the national airspace system or the public or pose a threat to national security; and*

(2) Whether a certificate of waiver, certificate of authorization, or airworthiness certification under section 44704 of title 49, United States Code, is required for the operation of unmanned aircraft systems identified under paragraph (1).

(c) Requirements for Safe Operation.--If the Secretary determines under this section that certain unmanned aircraft systems may operate safely in the national airspace system, the Secretary shall establish requirements for the safe operation of such aircraft systems in the national airspace system.

In seeking this exemption, John Robert West II submits that the DJI Phantom 3 Professional QC UAS's can operate safely in the NAS pursuant to FMRA Section 333, as demonstrated by: (a) the characteristics of the DJI Phantom 3 Professional QC UAS's; (b) the pilot certification requirement; and (c) the specific operating limitations.

a. The Specifications Of The DJI Phantom 3 Professional QC UAS's Demonstrate Its Safe Characteristics.

The DJI Phantom 3 Professional QC do not create a hazard to users of the NAS or the public, or otherwise pose a threat to national security considering its size, weight, speed, and operational capability.

ii. The DJI Phantom 3 Professional QC UAS's Autonomous Flight And Navigation Modes Enable The UAS's To Remain Within A Defined Operational Area.

The may be operated in both manual and fully autonomous flight modes. The DJI Phantom 3 Professional QC may be operated in manual flight mode only. A complete description of the flight and navigational modes of the DJI Phantom 3 Professional QC

UAS's is provided at pages 23-32 of the DJI and pages 8 & 11 of the DJI Phantom 3 Professional QC User Manuals, attached hereto as Exhibit C and D.

iii. The DJI Phantom 3 Professional QC UAS is Designed For Automatic Return To Home Point Or Hover In The Event Of Loss Of The Control Link Or Navigation.

When the Control Link is lost, the DJI Phantom 3 Professional QC will remain stationary in flight, for 3 seconds or more. If, after 3 seconds, the DJI Phantom 3 Professional QC does not reacquire control link data from the GCS, the UAS will assume that the Control Link is lost and the UAS will return to the home position (i.e., failsafe mode) via GPS, and will descend to the takeoff position and shutdown.

A complete description of the Failsafe Functions of the DJI Phantom 3 Professional QC AP UAS's are set forth at pages 23 through 32 and for the Blade 350QX2 AP at pages 8 and 11 of the DJI Phantom 3 Professional QC User Manuals, attached hereto as Exhibit C and D.

iv. The DJI Phantom 3 Professional QC GCS And Its Operation.

A complete description of the operation and specifications of the and DJI Phantom 3 Professional QC GCS and flight control software is provided at pages 23 through 32 of the DJI User Manual and pages 8 and 11 of the DJI Phantom 3 Professional QCAP User Manual. The DJI Phantom 3 Professional QC User Manuals are attached hereto as Exhibits C and D.

b. Flight Operations Of and DJI Phantom 3 Professional QC UAS's Are Limited To The Line Of Sight Of A Certificated Pilot in Command With A Safety Observer.

John Robert West II will only utilize certificated pilots who possess a current and valid airman medical certificate to act as a pilot in command (PIC) of the DJI Phantom 3

Professional QC UAS's. Additionally, a safety observer will assist all pilots during flight time.

c. Flights Of and DJI Phantom 3 Professional QC UAS's Will Be Conducted Pursuant To Specific Operating Limitations.

In seeking this exemption, John Robert West II proposes to commercially operate the DJI Phantom 3 Professional QC UAS's for the special purpose of conducting aerial video and photography over certain areas of United States, pursuant to the following specific operating limitations:

1. Operations authorized by this grant of exemption will be limited to the following aircraft described in the operating documents, rotorcraft UAS's weighing less than 55 pounds maximum gross weight: the DJI Phantom 3 Professional QC Unmanned Aircraft Systems. Proposed operations of any other aircraft will require a new petition or a petition to amend this grant.
2. UAS operations under this exemption will be limited to conducting operations for the purpose of aerial video and photography.
3. The UA may not be flown at an indicated airspeed exceeding 20 knots.
4. The UA must be operated at an altitude of no more than 400 feet above ground level (AGL), as indicated by the procedures specified in the operating documents unless a special request is made and approved by ATC. All altitudes reported to ATC must be in feet AGL.
5. The UA's must be operated within visual line of sight (VLOS) of the PIC at all times. This requires the PIC to be able to use human vision unaided by any device other than corrective lenses, as specified on the PIC's FAA-issued airman medical certificate.
6. The use of first person view (FPV) by the PIC or safety observer (SO) is not permitted.
7. All operations must utilize a safety observer (SO). The SO may be used to satisfy the VLOS requirement as long as the PIC always maintains VLOS capability. The SO and PIC must be able to communicate verbally at all times. Electronic messaging or texting is not permitted during flight operations. The PIC must be designated before the flight and cannot transfer his or her designation for the duration of the flight. The PIC must ensure that the SO can perform the functions prescribed in the operating documents.
8. The SO must not perform any other duties beyond assisting the PIC with seeing and avoiding other air traffic and other ground based obstacles/obstructions and is not permitted to operate the camera or other instruments.

9. The operating documents and the grant of exemption must be accessible during UAS operations and made available to the Administrator upon request. If a discrepancy exists between the conditions and limitations contained in the grant of exemption and the procedures outlined in the operating documents, the conditions and limitations contained in the grant of exemption take precedence and must be followed. Otherwise, the operator must follow the procedures as outlined in its operating documents. The operator may update or revise its operating documents. It is the operator's responsibility to track such revisions and present updated and revised documents to the Administrator upon request. The operator must also present updated and revised documents if it petitions for extension or amendment to the grant of exemption. If the operator determines that any update or revision would affect the basis upon which the FAA granted the exemption, then the operator must petition for amendment to its grant of exemption. The FAA's UAS Integration Office (AFS-80) may be contacted if questions arise regarding updates or revisions to the operating documents.
10. Prior to each flight the PIC must inspect the UAS to ensure that it is in a condition for safe flight. If the inspection reveals a condition that affects the safe operation of the UAS, the aircraft is prohibited from operating until the necessary maintenance has been performed and the UAS is found to be in a condition for safe flight. The Ground Control Station must be included in the preflight inspection. All maintenance and alterations must be properly documented in the aircraft records.
11. Any UAS that has undergone maintenance or alterations that affect the UAS operation or flight characteristics, e.g. replacement of a flight critical component, must undergo a functional test flight. The PIC who conducts the functional test flight must make an entry in the aircraft records.
12. The pre-flight inspection must account for all potential discrepancies, e.g. inoperable components, items, or equipment, not already covered in the relevant sections of the operating documents.
13. The operator must follow the UAS manufacturer's aircraft/component, maintenance, overhaul, replacement, inspection, and life limit requirements.
14. The operator must carry out its maintenance, inspections, and record keeping requirements, in accordance with the operating documents. Maintenance, inspection, alterations, and status of replacement/overhaul component parts must be noted in the aircraft records, including total time in service, description of work accomplished, and the signature of the authorized person returning the UAS to service.
15. Each UAS's operated under this exemption must comply with all manufacturer Safety Bulletins.
16. The authorized person must make an entry in the aircraft record of the corrective action taken against discrepancies discovered between inspections.

17. The PIC must possess at least a private pilot certificate and at least a current third-class medical certificate.
18. The operator may not permit any PIC to operate unless the PIC meets the operator's qualification criteria and demonstrates the ability to safely operate the UAS in a manner consistent with how the UAS will be operated under the exemption, including evasive and emergency maneuvers and maintaining appropriate distances from persons, vessels, vehicles and structures. PIC qualification flight hours must be logged in a manner consistent with 14 C.F.R. §61.51(b). Flights for the purposes of training the operator's PIC's are permitted under the terms of the exemption. However, training operations may only be conducted during dedicated training sessions. During training, proficiency, and experience-building flights, all persons not essential for flight operations are considered nonparticipants, and the PIC must operate the UA with appropriate distance from nonparticipants in accordance with 14 C.F.R. § 91.119.
19. UAS operations may not be conducted during night, as defined in 14 C.F.R. § 1.1. All operations must be conducted under visual meteorological conditions (VMC). If flight at night is required, a special request will be made at the FAA office closest to proposed area of operations. Flights under special visual flight rules (SVFR) are not authorized.
20. The UA may not operate within 5 nautical miles of an airport reference point as denoted on a current FAA published aeronautical chart unless a letter of agreement with that airport's management is obtained, and the operation is conducted in accordance with a NOTAM as required by the operator's COA. The letter of agreement with the airport management must be made available to the Administrator upon request.
21. The UA may not be operated less than 500 feet below or less than 2,000 feet horizontally from a cloud or when visibility is less than 3 statute miles from the PIC.
22. If the UA loses communications or loses its GPS signal, it must return to a pre-determined location within the planned operating area and land or be recovered in accordance with the operating documents.
23. The PIC must abort the flight in the event of unpredicted obstacles or emergencies in accordance with the operating documents.
24. The PIC is prohibited from beginning a flight unless (considering wind and forecast weather conditions) there is enough power to fly at normal cruising speed to the intended landing point and land the UAS with 25% battery power remaining.
25. The operator must obtain an Air Traffic Organization (ATO) issued Certificate of Waiver or Authorization (COA) prior to conducting any operations under the grant of exemption. This COA will also require the operator to request a Notice

to Airman (NOTAM) not more than 72 hours in advance, but not less than 48 hours prior to the operation. All operations shall be conducted in accordance with airspace requirements in the ATO issued COA including class of airspace, altitude level and potential transponder requirements.

26. All aircraft operated in accordance with the exemption must be identified by serial number, registered in accordance with 14 C.F.R. part 47, and have identification (N-Number) markings in accordance with 14 C.F.R. part 45, Subpart C. Markings must be as large as practicable.
27. Before conducting operations, the radio frequency spectrum used for operation and control of the UAS must comply with the Federal Communications Commission (FCC) or other appropriate government oversight agency requirements.
28. The documents required fewer than 14 C.F.R. 91.9 and 91.203 must be available to the PIC at the Ground Control Station of the UAS any time the UAS is operating. These documents must be made available to the Administrator or any law enforcement official upon request.
29. The UAS must remain clear and yield the right of way to all manned aviation operations and activities at all times.
30. The UAS may not be operated by the PIC from any moving device or vehicle.
31. Flight operations must be conducted at least 500 feet from all nonparticipating persons (persons other than the PIC, SO, operator trainees or essential persons), vessels, vehicles, and structures unless:
 - a. Barriers or structures are present that sufficiently protect nonparticipating persons from the UAS and/or debris in the event of an accident. The operator must ensure that nonparticipating persons remain under such protection. If a situation arises where nonparticipating persons leave such protection and are within 500 feet of the UA, flight operations must cease immediately and/or;
 - b. The aircraft is operated near vessels, vehicles or structures where the owner/controller of such vessels, vehicles or structures has granted permission and the PIC has made a safety assessment of the risk of operating closer to those objects and determined that it does not present an undue hazard, and;
 - c. Operations nearer to the PIC, SO, operator trainees or essential persons do not present an undue hazard to those persons per § 91.119(a).
32. All operations shall be conducted over private or controlled-access property with permission from the land owner/controller or authorized

representative. Permission from land owner/controller or authorized representative will be obtained for each flight to be conducted.

33. Any incident, accident, or flight operation that transgresses the lateral or vertical boundaries of the operational area as defined by the applicable COA must be reported to the FAA's UAS Integration Office (AFS-80) within 24 hours. Accidents must be reported to the National Transportation Safety Board (NTSB) per instructions contained on the NTSB Web site: www.nts.gov.

2. Reasons Why An Exemption From The Requirements Of Section 61.113(a) And (b) Would Not Adversely Affect Safety.

John Robert West II submits that the equivalent level of safety established by Section 61.113(a) and (b) will be maintained because no PIC will be allowed to operate the DJI Phantom 3 Professional QC UAS's unless that PIC has demonstrated, by meeting minimum flight-hour and currency requirements, that the PIC is able to safely operate the DJI Phantom 3 Professional QC UAS in a manner consistent with the exemption, including evasive and emergency maneuvers and maintaining appropriate distances from people, vessels, vehicles and structures.

Considering John Robert West II's proposed area of operations, and the operating limitations set forth-above; the parallel nature of private pilot aeronautical knowledge requirements to those of commercial pilot requirements (See Exemption No. 11062); and the airmanship skills necessary to safely operate the DJI Phantom 3 Professional QC AP UAS, John Robert West II submits that the additional manned airmanship experience of a commercially certificated pilot would not correlate to the airmanship skills necessary for John Robert West II's specific proposed flight operations.

The FAA has previously granted relief from Section 61.113(a) and (b) specific to UAS, in circumstances similar, in all material respects, to those presented herein (e.g.

Exemption Nos. 11062, 11063, 11064, 11065, 11066, 11067, 11080, 11109, 11110, 11112, 11136, 11138, 11150, 11153, 11156, 11158, 11159, 11160, 11161).

John Robert West II will not allow any PIC to operate the DJI Phantom 3 Professional QC UAS unless that PIC has demonstrated, by meeting minimum flight-hour requirements of the DJI Phantom 3 Professional QC UAS training and currency requirements, that the PIC is able to safely operate the DJI Phantom 3 Professional QC UAS in a manner consistent with this exemption, including evasive and emergency maneuvers and maintaining appropriate distances from people, vessels, vehicles and structures.

Specifically, the PIC must have accumulated and logged, in a manner consistent with 14 C.F.R. § 61.51(b), 25 hours of total time as a UAS rotorcraft pilot (with a minimum of 5 hours of those hours as a UAS pilot operating the same make and model of UAS to be used for operations under the exemption). In addition to the hour requirements, the PIC must accomplish 3 takeoffs and landings in the preceding 90 days (for currency purposes). As in Exemption Nos. 11062, 11138, and 11153, prior documented flight experience that was obtained in compliance with applicable regulations will ensure an equivalent level of safety during John Robert West II's proposed operations. The Administrator has held that prior documented flight experience that was obtained in compliance with applicable regulations would ensure safe operations, stating as follows:

In Exemption No. 11062, the FAA required that prior to conducting operations for the purpose of motion picture filming (or similar operations), the PIC must have accumulated and logged, in a manner consistent with 14 CFR 61.51(b), 25 hours of total time as a UAS rotorcraft pilot including at least 10 hours logged as a UAS pilot with a

multi-rotor UAS. Prior to operations under Exemption No. 11062, the PIC must also have accumulated and logged a minimum of 5 hours as a UAS pilot operating the same make and model of UAS to be used for operations under the exemption. For clarification, the FAA considers these minimum hour requirements to be inclusive rather than additive; i.e. 5 hours make and model time may be included in the 10 hours of multi-rotor time and the 10 hours may be included in the total 25 hours of UAS rotorcraft time. In addition to the hour requirements, the PIC must accomplish 3 takeoffs and landings in the preceding 90 days (for currency purposes). The FAA finds that at a minimum, the flight-hour requirements in Exemption No. 11062 are appropriate to practice and build proficiency in the skills necessary to safely conduct the petitioner's proposed operations. The FAA also finds that prior documented flight experience that was obtained in compliance with applicable regulations would satisfy this requirement. Training, proficiency, and experience-building flights can also be conducted under the grant of exemption to accomplish the required flight time. During training, proficiency, and experience-building flights the PIC is required to operate the UA with appropriate distances in accordance with 14 C.F.R 91.119. Exemption No. 11138 at page 15.

Accordingly, John Robert West II will ensure safe operations by not allowing any PIC to operate the DJI Phantom 3 Professional QC UAS unless that PIC has demonstrated, by meeting minimum flight-hour and currency requirements, that the PIC is able to safely operate the DJI Phantom 3 Professional QC UAS in a manner consistent with the exemption, including evasive and emergency maneuvers and maintaining appropriate distances from people, vessels, vehicles and structures.

3. Reasons Why An Exemption From The Requirements Of Section 91.7(a) Would Not Adversely Affect Safety.

The equivalent level of safety established by Section 91.7(a) will be maintained because prior to every flight, John Robert West II will ensure that the DJI Phantom 3 Professional QC UAS is in an airworthy condition based upon the UAS's compliance with its operating documents and as stated in the conditions and limitations herein. Additionally, the FAA has previously granted relief from Section 91.7(a) specific to UAS, in circumstances similar, in all material respects, to those presented herein (e.g. Exemption Nos. 11062, 11063, 11064, 11065, 11066, 11067, 11080, 11109, 11110, 11112, 11136, 11138, 11150, 11153, 11156, 11157, 11158, 11159, 11160, 11161).

4. Reasons Why An Exemption From The Requirements Of Section 91.121 Would Not Adversely Affect Safety.

The equivalent level of safety established by Section 91.121 will be maintained because the altitude information of the DJI Phantom 3 Professional QC UAS will be provided to the PIC via GPS equipment and a radio communications telemetry data link, which downlinks from the UA to the GCS for active monitoring of the flight path and altitude. This altitude information, combined with John Robert West II's operation of the DJI Phantom 3 Professional QC UA within visual line of sight, at or below 400 feet AGL, will ensure a level of safety equivalent to Section 91.121. The altitude information will be generated by GPS equipment installed on board the aircraft. Prior to each flight, a zero altitude initiation point is automatically established by the UAS's at ground level. The FAA has previously granted relief from Section 91.121 specific to UAS, in circumstances similar, in all material respects, to those presented herein (e.g. Exemption Nos. 11062, 11063, 11064, 11065, 11066, 11067, 11080, 11109, 11112, 11136, 11138, 11150, 11153, 11156, 11157, 11158, 11159, 11160, 11161).

5. Reasons Why An Exemption From The Requirements Of Section 91.151(b) Would Not Adversely Affect Safety.

A grant of this exemption would ensure an equivalent level of safety established by 14 C.F.R. Section 91.151(b) as a result of (1) the technical specifications of the DJI Phantom 3 Professional QC UAS's; (2) the limitations on the proposed flight operations; and (3) the location of the proposed flight operations. Accordingly, John Robert West II will ensure that he will safely operate the battery powered DJI Phantom 3 Professional QC UA's during daylight hours in VFR conditions, with enough battery power to fly for a total duration of 10 minutes to the first point of intended landing and, assuming normal cruising speed, to fly after that for at least 2.5 minutes.

Here, as in Exemption No. 11109, the technical specifications of the DJI Phantom 3 Professional QC UAS's the limitations on the proposed flight operations and the location of the proposed operations, will ensure an equivalent level of safety established by 14 C.F.R. Section 91.151(b). Furthermore, safety will be ensured as the DJI Phantom 3 Professional QC UAS's provide audible and visual warnings to the PIC at the controller when the UA's experiences low battery voltage, the first warning occurring at approximately 33% remaining battery power, and again at approximately 10% remaining battery power. At the critically low battery level, the DJI Phantom 3 Professional QC UAS's will descend and land automatically.

Significantly, previous exemptions granted by the FAA concerning Section 91.151 establish that safety is not adversely affected when the technical characteristics and operating limitations of the UAS are considered. Relief has been granted for manned aircraft to operate at less than the minimums prescribed in Section 91.151, including Exemption Nos. 2689, 5745, and 10650. Moreover, the FAA has previously granted relief

from Section 91.151 specific to UAS in circumstances similar in all material respects to those presented herein (e.g. Exemption Nos. 8811, 10808, 10673, 11042, 11062, 11063, 11064, 11065, 11066, 11067, 11080, 11109, 11110, 11136, 11138, 11150, 11153, 11156, 11157, 11158, 11159, 11160, 11161).

6. Reasons Why An Exemption From The Requirements Of Sections 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), And 91.417(a) & (b) Would Not Adversely Affect Safety.

In seeking this exemption, John Robert West II submits that the equivalent level of safety with regard to the regulatory maintenance and alteration requirements established by Sections 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), and 91.417(a) & (b) will be met because John Robert West II will use trained technicians to perform maintenance, alterations, or preventive maintenance on the UAS's using the methods, techniques, and practices prescribed in the operating documents i.e., the Operations Manual, Monthly Maintenance Log, and DJI Phantom 3 Professional QC Instruction Manual. Furthermore, John Robert West II will document and maintain all maintenance records for the DJI Phantom 3 Professional QC UAS's.

Since the DJI Phantom 3 Professional QC UAS will be inspected as prescribed by the operating documents, John Robert West II will maintain the equivalent level of safety established by Sections 91.405(a), 91.409(a)(1), and 91.409(a)(2). A copy of the DJI Phantom 3 Professional QC User Manuals are attached hereto as Exhibit C and D; a copy of the DJI Phantom 3 Professional QC UAS Maintenance LOG is attached hereto as Exhibit E.

Likewise, the exemption sought will not adversely affect safety because John Robert West II will use trained technicians to perform maintenance, alterations or preventive maintenance on the UAS using the methods, techniques, and practices prescribed by the operating documents.

Furthermore, the exemption sought would maintain an equivalent level of safety Established by Sections 91.407, 91.417(a) and 91.417(b), because all maintenance of the DJI Phantom 3 Professional QC UAS will be performed by trained technicians. Maintenance will be documented and maintained utilizing the monthly maintenance log.

Significantly, previous exemptions granted by the FAA concerning Sections 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), and 91.417(a) & (b) establish that safety is not adversely affected when the technical characteristics and operating limitations of the UAS are considered.

In consideration of John Robert West II's proposed operating limitations, the operating documents, and the technical aspects of the DJI Phantom 3 Professional QCAP UAS's, John Robert West II submits that safety will not be adversely affected by granting exemption from 14 C.F.R. Sections 91.405(a), 91.407(a)(1) and (a)(2), 91.409(a) (2), and 91.417(a) and (b). The FAA has previously granted relief specific to UAS in circumstances similar, in all material respects, to those presented herein (e.g. Exemption Nos. 11062, 11063, 11064, 11065, 11066, 11067, 11080, 11109, 11110, 11112, 11136, 11138, 11150, 11153, 11156, 11157, 11158, 11159, 11160, 11161).

7. The FAA May Prescribe Any Other Conditions For Safe Operation.

In accordance with Section 333 of the FAA Modernization and Reform Act of 2012 (FMRA) and 14 C.F.R. § 21.16 entitled Special Conditions, John Robert West II requests that the FAA prescribe special conditions for the intended operation of the DJI Phantom 3 Professional QC UAS's, which contain such safety standards that the administrator finds necessary to establish a level of safety equivalent to that established by 14 C.F.R. Part 21, Subpart H, and 14 C.F.R §§ 61.113(a) & (b), 91.7 (a), 91.121,

91.151(b), 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), and 91.417(a) & (b). Such special conditions will permit safe operation of the UA's for the limited purpose of conducting aerial video and photography over certain areas of the United States for compensation or hire. FMRA Section 333 sets forth the requirements for considering whether a UAS will create a hazard to users of the NAS or the public, or otherwise pose a threat to national security and further, provides the authority for such UAS to operate without airworthiness certification in accordance with any requirements that must be established for the safe operation of the UAS in the NAS.

Likewise, the Administrator may prescribe special conditions pursuant to 14 C.F.R. §21.16, for operation of the DJI Phantom 3 Professional QC UAS's, since the airworthiness regulations of 14 C.F.R. Part 21 do not contain adequate or appropriate safety standards, due to the novel or unusual design features of the aircraft. Section 21.16, entitled Special Conditions, states the following: If the FAA finds that the airworthiness regulations of this subchapter do not contain adequate or appropriate safety standards for an aircraft, aircraft engine, or propeller because of a novel or unusual design feature of the aircraft, aircraft engine or propeller, it may prescribe special conditions and amendments thereto for the product. The special conditions are issued in accordance with Part 11 of this chapter and contain such safety standards for the aircraft, aircraft engine or propeller as the

FAA finds necessary to establish a level of safety equivalent to that established in the regulations. See 14 C.F.R. § 21.16.

Therefore, in accordance with FMRA Section 333 and 14 C.F.R. § 21.16, the FAA may prescribe special conditions for John Robert West II's intended operation of the DJI Phantom 3 Professional QC UAS, which contain such safety standards that the administrator finds necessary to establish a level of safety equivalent to that established by 14 C.F.R. Part 21,

Subpart H, and 14 C.F.R Sections 61.113(a) & (b), 91.7(a), 91.121, 91.151(b), 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), and 91.417(a) & (b).

F. A Summary That Can Be Published In The Federal Register stating: The Rules From Which John Robert West II Seeks Exemption:

John Robert West II seeks exemption from the requirements of 14 C.F.R Sections 61.113(a)&(b), 91.7(a), 91.121, 91.151(b), 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), and 91.417(a) & (b).

A Brief Description Of The Nature Of The Exemption John Robert West II Seeks:

This exemption will permit John Robert West II to commercially operate an Unmanned Aircraft System (UAS) for the purpose of conducting aerial video and photography over certain areas of the United States.

G. Any Additional Information, Views, Or Arguments Available To Support John Robert West II's Request.

This Petition is made pursuant to the FAA Modernization and Reform Act of 2012 (FMRA) Section 333, which directs the Secretary of Transportation to determine if certain UAS may operate safely in the NAS. As such, John Robert West II request for exemption may be granted pursuant to the authority of FMRA Section 333 and 14 C.F.R. Part 11, as set forth above.

FMRA Section 333 sets forth the requirements for considering whether a UAS will create a hazard to users of the NAS or the public, or otherwise pose a threat to national security and further, provides the authority for such UAS to operate without airworthiness certification.

As discussed in detail above, John Robert West II will operate the M and DJI Phantom 3 Professional QC UAS's safely in the NAS, without creating a hazard to users of the NAS, or the public, or otherwise pose a threat to national security.

CONCLUSION

As set forth herein, John Robert West II seeks an exemption pursuant to 14

C.F.R. § 11.61 and Section 333 of the FAA Modernization and Reform Act of 2012 (FMRA), which will permit safe operation of the DJI Phantom 3 Professional QC UAS commercially, without an airworthiness certificate, for the limited purpose of conducting aerial video and photography over certain areas of the United States. By granting this Petition, the FAA Administrator will be fulfilling the Congressional mandate of the FAA Modernization and Reform Act of 2012, while also advancing the interests of the public, by allowing John Robert West II to safely, efficiently, and economically operate the DJI Phantom 3 Professional QC UAS commercially within the NAS.

WHEREFORE, in accordance with the Federal Aviation Regulations and the FAA Modernization and Reform Act of 2012, Section 333, John Robert West II respectfully requests that the Administrator grant this Petition for an exemption from the requirements of 14 C.F.R Sections 61.113(a) & (b), 91.7(a), 91.121, 91.151(b), 91.405(a), 91.407(a)(1), 91.409(a)(1) & (a)(2), and 91.417(a) & (b), and permit John Robert West II to operate the DJI Phantom 3 Professional QC UAS commercially for the purpose of conducting aerial video and photography over certain areas of the United States.

Dated: May 28, 2015

Thank You for your Consideration,

John Robert West II

APPENDICES:

A - DJI Phantom 3 Professional QC Specifications

B – DJI Phantom 3 Professional QC User Manual

C - Monthly Maintenance Log

APPENDIX –A

DJI Phantom 3 Professional QC TECHNICAL SPECIFICATIONS

John Robert West II only utilizes safe and reliable UAS's. DJI is an industry leader in small UAS production. DJI UAS's are loaded with ground breaking software enabling the user to set parameters which will not allow flight into controlled airspace. Parameters can also be set to limit flight to no higher than a predetermined and set altitude as well as limit flight to a predetermined and set distance. In addition, DJI software provides real-time altitude and location information to the PIC.

1.1

1.1.1 Aircraft

- 1.1.1.1 Batteries –(4) Intelligent Flight Battery 4480 mAh
- 1.1.1.2 Weight, Flight – 1280 g
- 1.1.1.3 Hover Accuracy–Vertical: +/- .1 m; Horizontal: +/-2m
- 1.1.1.4 Max Tilt Angel -90° to +30°
- 1.1.1.5 Max Ascent/Descent Speed +5m/s -3m/s
- 1.1.1.6 Max Flight Speed – 16 m/s (ATTI mode, no wind)

1.1.2 Gimbal

- 1.1.2.1 Gimbal 3Axis (Pitch, Roll, Yaw)
- 1.1.2.2 Pitch - Controllable -90° to +30°

1.1.3 Transmitter FPV (CAMERA OPERATOR ONLY)

- 1.1.3.1 Controller 2.400 GHz-2.483 GHz
- 1.1.3.2 Power Out-put 600mW 28dBm +/- 1dBm
- 1.1.3.3 Frequencies 5740, 5760, 5780, 5800, 5820, 5840 and 5860MHz

1.1.4 Camera

- 1.1.4.1 Sony EXMOR 1/2.3" Effective pixels: 12.4 M (total pixels: 12.76 M)
- 1.1.4.2 FOV 94° 20 mm (35 mm format equivalent) f/2.8, focus at ∞
- 1.1.4.3 ISO Range - 100-3200 (video) 100-1600 (photo)
- 1.1.4.4 Operating Temperature Range 0°C to 40°C

1.1.5 Transmitter 1 Aircraft

- 1.1.5.1 Operating Frequency 2.400GHz – 2.4835GHz
- 1.1.5.2 Communication Distance 2000m (outdoors and unobstructed)
- 1.1.5.3 Transmitter Power FCC Compliance FCC: 20 dBm
- 1.1.5.4 Battery 6000 mAh LiPo 2S
- 1.1.5.5 Operating Temperature 0°C- 40°

APPENDIX – B

DJI Phantom 3 Professional – Manufacturer's User Manual

http://download.dji-innovations.com/downloads/phantom_3/en/Safety_Guidelines_Disclaimer_en.pdf
http://download.dji-innovations.com/downloads/phantom_3/en/Phantom_3_Professional_User_Manual_v1.0_en.pdf
http://download.dji-innovations.com/downloads/phantom_3/en/Phantom_3_Professional_In_the_Box_en.pdf
http://download.dji-innovations.com/downloads/phantom_3/en/Phantom_3_Professional_Quick_Start_Guide_en.pdf

APPENDIX - C

John Robert West II
Monthly Maintenance and Repair Log
Aircraft:
Hours:
Date:

	Date Issue Discovered	Date Issue Resolved	Issue Description/Maintenance Conducted	Repair/Maintenance Performed By
Airframe				
Motors				
Propellers				
Flight Control Update				
Gimbal				
Misc				