

Notification of The National Broadcasting and Telecommunications Commission
Re: Spectrum Licensing Criteria and Conditions for Operation of Unmanned Aircraft
Intended for General Use

Whereas it is expedient to revise the spectrum licensing criteria and conditions for operation of unmanned aircraft intended for general use to facilitate the use of unmanned aircraft for general purposes including hobby, entertainment, sports, incidents or traffic reporting, photography, movie/ television production, research and development, or other purposes to be in compliance with the regulations to control and launch unmanned aircraft under the law on air navigation.

By virtue of Section 27 (4) of the Act on the Organization to Assign Radio Frequency and to Regulate the Broadcasting and Telecommunications Services B.E. 2553 (2010), as amended by the Act on Organization to Assign Radio Frequency and to Regulate the Broadcasting and Telecommunications Services (No. 2) B.E. 2560 (2017) and Section 27 (5) and (24) of the Act on the Organization to Assign Radio Frequency and to Regulate the Broadcasting and Telecommunications Services B.E. 2553 (2010) in conjunction with Section 6 Section 11 of the Radiocommunication Act B.E. 2498 (1955), as amended by the Radiocommunication Act (No. 3) B.E. 2535 (1992), and Section 29 (5) of the Radiocommunication Act B.E. 2498 (1955), the National Broadcasting and Telecommunications Commission hereby issues a Notification as follows:

Clause 1 This Notification shall come into force after ninety days as from the date of its publication in the Government Gazette.

Clause 2 The Notification of The National Broadcasting and Telecommunications Commission on Spectrum Licensing Criteria and Conditions for Operation of Unmanned Aircraft Intended for General Use dated 12 January B.E. 2561 (2018) shall be repealed.

Clause 3 All notifications, rules, regulations or any other orders for which their provisions have been prescribed herein, or in contrary hereto or inconsistent herewith, shall be superseded by the provisions of this Notification.

Clause 4 In this Notification,

“unmanned aircraft” means an aircraft where the flying pilot is not onboard the aircraft and uses the remotely-piloted aircraft control system, but not include a small airplane using as a toy pursuant to the Ministry of Transport’s Regulations on non-aircraft objects B.E.2548 (2005) or an unmanned aircraft using as a toy as prescribed by the Office of the NBTC.

Clause 5 Unmanned aircraft shall use the frequency band and shall have the output power (Equivalent Isotropically Radiated Power: e.i.r.p.), according to its use, as follows:

(1) For transmission of control signals and the transmission of data (Payload) between unmanned aircrafts or between unmanned aircraft and aircraft control system.

Frequency band (MHz)	Maximum output power e.i.r.p. (mW)
433.05-434.79	10
2400-2500	100
5725-5850	1000

(2) For radar system installed on an unmanned aircraft

Frequency band (GHz)	Maximum output power e.i.r.p. (mW)
24.05-24.25	100

In the case where an unmanned aircraft uses frequency band(s) in accordance with other Notifications of The National Broadcasting and Telecommunications Commission for Unmanned Aircraft but not in compliance with the provisions prescribed herein, and such unmanned aircraft has been registered pursuant to the Order of The National Broadcasting and Telecommunications Commission on the Registration of Radiocommunication Equipment for Unmanned Aircraft in the Category of Remotely Piloted Aircraft (Drone) dated 11th October B.E. 2560 (2017); the aforementioned frequency band(s) may continue to be used throughout the lifespan of the radiocommunication equipment unless prescribed otherwise by the NBTC.

The NBTC may consider allowing the use of frequency band and output power that do not meet the aforementioned limits as deemed appropriate on a case-by-case basis.

Clause 6 Person who wishes to make, import or trade the radiocommunication equipment for unmanned aircraft shall obtain license under relevant laws and Notification(s) of The National Broadcasting and Telecommunications Commission

Clause 7 Person who is in possession of radiocommunication equipment for unmanned aircraft shall have the duty to register such radiocommunication equipment pursuant to the form as specified by the Office of the NBTC, within thirty days from the date of possession.

Person already registered with the Office of the NBTC, as stated in paragraph one, is exempted from obtaining a license to possess, use and export of radiocommunication equipment and a license to install a radio station.

Clause 8 Person who imports radiocommunication equipment for unmanned aircraft temporarily as personal effect with no intention for direct commercial use and intends to export such radiocommunication equipment out of the kingdom when no longer in use, shall have the duty to register the radiocommunication equipment, pursuant to the form as specified by the Office of the NBTC, within thirty days from the date of bringing the radiocommunication equipment into the kingdom.

Person already registered with the Office of the NBTC, as stated in paragraph one, is exempted from obtaining a license to import radiocommunication equipment.

Clause 9 Person who imports radiocommunication equipment for unmanned aircraft for temporary missions with no intention for direct commercial use and intends to export such radiocommunication equipment out of the kingdom when no longer in use, shall obtain a license to import radiocommunication equipment prior to bringing such equipment into the kingdom and shall register the equipment pursuant to the form as specified by the Office of the NBTC, within thirty days from the date of bringing the radiocommunication equipment into the kingdom.

Clause 10 State agency under section 5 of the Radiocommunication Act B.E. 2498 (1955), as amended, that is in possession of radiocommunication equipment for unmanned aircraft not subject to the spectrum licensing criteria and conditions for operation of unmanned aircraft for state security purpose, shall register the radiocommunication equipment, pursuant to the form as specified by the Office of the NBTC. The request shall be signed by the head or top executive of that agency, as the case may be.

Other state agencies not included in paragraph one, that are in possession of radiocommunication equipment for unmanned aircraft not subject to the spectrum licensing criteria and conditions for operation of unmanned aircraft for state security purpose, shall have the duty to register the radiocommunication equipment, pursuant to the form as specified by the Office of the NBTC, within thirty days from the date of possession of the radiocommunication equipment. The request shall be signed by the head or top executive of that agency, as the case may be.

Clause 11 Declaration of conformity to technical requirements

(1) Manufacturer or importer of radiocommunication equipment for unmanned aircraft using frequency bands as stated in Clause 5 (1) shall demonstrate the conformity to the technical requirements prescribed herein, based on the principle of self declaration (Supplier's Declaration of Conformity (SDoC)).

(2) Importer of radiocommunication equipment for unmanned aircraft temporarily as personal effect with no intention for direct commercial use and intending to export such radiocommunication equipment out of the kingdom when no longer in use, shall demonstrate the conformity based on the principle of self declaration (Owner's Declaration of Conformity: ODoC) pursuant to the form as specified by the Office of the NBTC.

(3) Importer of radiocommunication equipment for unmanned aircraft for temporary missions with no intention for direct commercial use and intending to export such radiocommunication equipment out of the kingdom when no longer in use, shall demonstrate the conformity based on principle of self declaration (Owner's Declaration of Conformity: ODoC) pursuant to the form as specified by the Office of the NBTC.

Clause 12 Radiocommunication equipment for unmanned aircraft capable of using frequency band stated in Clause 5 (2), shall be in conformity to the technical standard prescribed by the NBTC and shall pass conformity assessment as per the Notification of The National Broadcasting and Telecommunications Commission on conformity assessment of telecommunication equipment dated 2nd July B.E. 2559 (2016).

Clause 13 Person who wishes to register radiocommunication equipment for unmanned aircraft may submit the application(s) at the Office of the NBTC or electronically as specified by the Office of the NBTC.

Once the application is submitted with complete and correct documents, the Office of the NBTC shall notify the applicants to pay a fee of two hundred baht per device and issue evidence of registration pursuant to the form as specified by the Office of the NBTC, in paper or electronic form, as the case may be. The fee is non-refundable in any circumstance.

Clause 14 In the case where the radiocommunication equipment for unmanned aircraft is lost, damaged or irrecoverable or change of ownership; the registered person shall have the duty to notify the Office of the NBTC to cancel the Registration with details as per the requirement specified by the Office of the NBTC.

Clause 15 The use of frequency bands for unmanned aircraft under this Notification shall not claim protection from interference; and if such use causes harmful interference to other communication networks in any area, the user shall suspend the use of such radiocommunication equipment in that area immediately.

Clause 16 Other conditions shall be in accordance with the Announcement of the Ministry of Transport on Rules to Apply for Permission and Conditions to Control and Launch Unmanned Aircraft, and its amendment.

Clause 17 Person who registered radiocommunication equipment for unmanned aircraft, in accordance with the Notification of The National Broadcasting and Telecommunications Commission on Spectrum Licensing Criteria and Conditions for Operation of Unmanned Aircraft Intended for General Use dated 12th January B.E. 2561 (2018), prior to the coming into force of this Notification, shall be deemed as having registered under this Notification.

Announced on 10th June B.E. 2563 (2022)
General Sukit Khamasoonthorn
Commissioner, The National Broadcasting
and Telecommunications Commission
Acting for Chairman, The National Broadcasting and
Telecommunications Commission

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