

The Outline of Proposed Amendment to Ministerial Ordinance

1 Item

Partial amendment of Regulations for Enforcement of the Radio Law, etc.

2 Amendment to Ministerial Ordinance

Ordinance for Enforcement of the Radio Act;

Regulations for Procedure for Obtaining a Radio Station License;

Regulations for Operating Radio Stations;

Regulations for Radio Equipment;and,

Ordinance on Technical Standards Conformity Certification of Specified Radio Equipment.

Relevant notices.

3 Reasons for amendment

Recently, small artificial satellites come to be used practically, and it makes available to use a satellite constellation which links and operates a large number of small satellites launched in medium and low orbits with minimum communication latency. Therefore, it has become possible to provide various services, such as high-speed, large-capacity communications services.

Based on these circumstances, a new communication service is scheduled to start. The service uses the Ku-band non-geostationary satellite communication system with the satellite constellation using the polar orbit at around 1200 km altitude.

In respond to above new needs, Japan will institutionalize the technical requirements for implementing this Ku-band non-geostationary satellite communications systems by the satellite constellation at around 1200km altitude.

4 Outline of the amendment

Technical requirements of Ku-band non-geostationary satellite communications systems by the satellite constellation at around 1200km altitude.

Item	Technical requirements
Name	Ku-band non-geostationary satellite communications systems by the satellite constellation at around 1200km
Frequency Band	Uplink: 14.0 – 14.5GHz Downlink: 10.7 – 12.7GHz

General condition	Appropriate measures shall be taken to prevent inappropriate use for promoting security, and to satisfy the Radio-radiation protection guidelines in order to countermeasure effects on the human body, etc.
Frequency tolerance	100×10^{-6}
Antenna power tolerance	Upper limit 50%, Lower limit 50%
Minimum elevation angle of transmitting antenna	To keep at least 3 degrees from the horizontal plane

5 Proposed date of entry into force

May, 2022