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Allowable Maritime and Surveillance Radar Devices in Indonesia Based on the Indonesian Ministry of Communication and Informatics Regulation Number 31, 2013

Technical Requirements of Maritime Radar and Surveillance Radar

1. Operational Requirements

a. General Operational Requirements

i. Operation Frequency

Maritime Radar and Surveillance Radar should only able to operate in the following Radio Frequency

2 700 – 2 900*	MHz
2 900 – 3 100	MHz
3 100 – 3 300	MHz
8 550 – 8 650	MHz
8 650 - 8 750	MHz
8 750 - 8 850	MHz
9,000 – 9,200*	MHz
9,200 – 9,300	MHz
9,300 – 9,500*	MHz

*) above frequency allocation is included to the secondary category



- ii. Protection System
 - The device should have the protection system as followed;
 - 1. Over current protection; and
 - 2. Overvoltage Protection.
- iii. Alarm Indicator
 - The device should have the alarm system that indicates:
 - 1. Disruption in the power supply unit;
 - 2. Indicator for activity or disruption in each interface
- b. Special Operation Requirements
 - i. Maritime Radar
 - 1. General Characteristic
 - a. Power : ≤ 30 Kw
 - b. Spurious Emission : -13 dBm if the PEP ≤ 50 W
 - c. $10 \log$ PEP-30 if PEP > 50 W
(Reference R-REC-SM-, 329-12)
 - 2. Frequency Stability : 1250 ppm
 - 3. Power Supply : Single Phase 220 volt or triple phase
380 volt
 - 4. Environment Condition
 - a. Temperature
The device should be able to operate in the temperature range between 0°C and 45°C .
 - b. Humidity : $\leq 95\%$
 - ii. Surveillance Radar
 - 1. General Characteristic
 - a. Power : ≤ 100 KW
 - b. Spurious Emission : Absolute Level (dBm from PEP in bandwidth reference) or attenuation (dB) below the power (PEP) (which one is higher): -30 dBm or 100 Db (reference R-REC-SM.329-12)
 - 2. Frequency Stability : 1250 ppm
 - 3. Power Supply : single phase 220 volt or triple phase 380 volt. It is mandatory to have redundancy system.



4. Environmental Condition

- a. Temperature : should be able to operate in the temperature range between 0°C and 45°C
- b. Humidity : ≤ 98%

2. Electricity, health, and EMC Safety Requirements

Maritime and Surveillance Radar is mandatory to fulfill:

- a. Electricity and health safety requirements complied with the International standard IEC 69050-1 or other equal standard; and
- b. Electromagnetic Compatibility requirements complied with SNI CISPR 22:2012 and SNI CISPR 24:2012.

