Communication Radio Service

AEROTHAI's main mission is to provide air traffic control service and communication equipment to international airlines, air transport operators and other operators in airports within Thailand and currently to energy operators in remote areas.

Types of radio communication systems

1. Air-to-ground radio system is a VHF radio system used to communicate between the ground station and aircrafts within a radius of the airport to facilitate airlines operations such as exchange of passenger information or preparing tools, spare parts, oil and medical services.

1.1. Air-to-ground Base Station (A/G base station) is used for air-to-ground communications within a radius of 200 nautical miles around the station.

1.2. Remote control unit (RCU) is installed at the office of a base station to facilitate long range control and communication.

1.3. Air-to-ground handie-talkie (A/G handie-talkie) is a hand-held communication radio used for air-to-ground communications in a radius of 10 nautical miles.

1.4. Air-to-ground car radio (A/G mobile radio) is a communication radio installed in cars for mobility. It is used for air-to-ground communications within a radius of 50 nautical miles.

1.5. Air-to-ground mobile radio for desktop (A/G mobile radio for desktop) is a communication radio installed at the ground station, used for air-to-ground communications within a radius of 150 nautical miles.

▲ 2. Ground-to-ground radio system is a radio system used for communication between ground stations to coordinate between agencies in order to ensure execution of operations is convenient, quick and safe. This type of radio system can be separated into 2 categories which are:

2.1. Single channel radio service (Conventional radio) is a service provided to place with small perimeters that do not have many number or network users such as a small airport.

2.2. Trunked radio service is a service provided to place with large perimeters that have numerous numbers of network users in the coverage area. At present, the company uses TETRA standard digital trunked radio to provide services to major airports and energy agencies in various areas. The provided trunked radio services are as follows:

2.2.1. Non-intrinsically and intrinsically safe mobile communication radio for normal and emergency communication. These radios are made of IP67 level special durable materials according to Ingress Protection standards. The intrinsically safe model can prevent fire sparks according to ATEX/FM/UL standards. Therefore, it is suitable for operation in a field or area at risk of explosion. Sound quality is clear despite a noisy surrounding environment. Its display screen has high brightness and large font size, and the battery has long life and an alert system for low battery is included.

2.2.2. Communication radio station and automotive installation communication radio that are easy to use, work well in a noisy area and, are durable and mobile.

▲ 3. Transmitter and receiver (AMSS Terminal TX & RX) is the device used for transmitting and receiving flight information using a program called AEROTHAI User Agent (UA) through the Aeronautical Telecommunication Network (ATN). The flight information transmitted is as follows:

- Domestic and foreign notice of airmen (NOTAM)
- Flight approval and flight plans
- Aviation Meteorology (MET)
- Other security information

Groups of communications

radio rental service users

- Airlines, other aviation services operators and other operators in airports within the country
- Energy business operators such as PTT Public Company Limited's oil rig in the gulf of Thailand, Leam Chabang port and other industrial estates.

▲ Contact :

Technical and Customer Service

Telephone : 0 2131 3722   Fax : 0 2131 3670

Email: webdtrs@aerothai.co.th