



STATE UNITARY ENTERPRISE «TAJIKAIRNAVIGATION»

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In 2018, Systemsinterface was directly involved in Republic of Tajikistan and successfully completed the project of installation of DME with a purpose:

- To create ground infrastructure backup of global navigation satellite system (GNSS) - for aircraft equipped with board multilateration.
- Compensation of main shortage of GNSS- intentional or unintentional effect on characteristics of GNSS systems, meaning jamming and change of false radio signal of GPS Spoofing in airspace of Republic of Tajikistan.

As a result of implemented complex work by Systemsinterface in Republic of Tajikistan, the system has been put into operation. This system consists of 6 (six) DME ground transponder system manufactured by MOOG and is located in International Airports of Dushanbe, Khujand, Kulob and Bokhtar. It can be controlled from the single place, also control and monitoring have been implemented via local network of SUE “TAN” and GSM channels of mobile communication. Omnidirectional antennas type dBs 5100 have been installed in order to insure uniform radio navigation coverage for all beacons as antennas.

The peculiarity of the project is DME installed in Shar-Shar, the height of the mast where dBs 5100 heated antenna is installed is 60 meters, and the terrain is located at altitude of 2300 meters above sea level.

DME Istarafshon has been installed to improve radio navigation coverage in airport of Khujand.

Based on data of flight check the precise identifying slant range distance in all routes is 60-70 meters.

Having ensured the commissioning of the DME-type radio beacon network, our company has fulfilled the most important condition for the implementation of basic navigation on performance (PBN- performance based navigation) and, on this basis, expects to increase the airspace capacity.

General Director

L.B. Ashurov