

## **CURRENT STATUS OF COMS GROUND SYSTEM AT NATIONAL METEOROLOGICAL SATELLITE CENTER OF KMA**

This paper summarises the current status of COMS Ground Segment at National Meteorological Satellite Center of KMA. The COMS ground system at NMSC has been fully installed and is on the final test phase.

## **Current Status of COMS Ground System at National Meteorological Satellite Center of KMA**

The COMS ground system at National Meteorological Satellite Center (NMSC) has been constructed and is on the final test phase before the launch. The final test, operational qualification test system validation in routine mode, will be performed at November 2009.

The COMS Ground Segment (GS) verification is performed by bottom up approach from unit/component level to GS level. The verification activities are incrementally performed at different hardware and software assembly levels (unit/component, subsystem, system, element, ground segment, and overall COMS system) in different phases (development, qualification, pre-launch, and IOT), utilizing a suitable combination of verification methods (inspection, analysis, demonstration, similarity, and test).

After complete the GS level validation at January 2009, currently NMSC performs the COMS GS verification activities of the overall COMS system level as the Pre-launch phase. The system verification test at overall system level is composed of three parts: RF compatibility test, technical qualification, and operational qualification.

- **RF compatibility test** is finished at May 2009: to verify S- and L-band RF interface between GS and COMS.
- **Technical qualification test** is finished at July 2009: to validate that all segments involved in the system are working according the system requirements.
- **Operational qualification test**, the final test before the launch, will be performed at November 2009: to verify the operational configuration of the different segments and to train the staff involved in the operational phases (normal and anomaly mode)