



MTG. AOCS SCOE Instantiation



SENER AEROSPACE & DEFENSE / SPACE / ELECTROMECHANICAL SYSTEMS / SPAIN

MTG. AOCS SCOE INSTANTIATION

Cliente: OHB Systems

País: Spain

The verification of avionics and especially of the AOCS (Attitude and Orbit Control System) or GNC subsystem (Guidance, Navigation and Control) is a vital operation during the flight segment of all space systems.

Until now, most test benches have been designed specifically for each project. However, SENER now has a reusable, flexible and scalable system, that can be adjusted quickly and incorporated in any verification campaign. The generic AOCS SCOE (Special Check Out Equipment) offers a real-time simulator with the features and capabilities required for proper verification of the AOCS.

INSTANTIATION OF THE AOCS SCOE FOR THE METEOSAT THIRD GENERATION (MTG)

Sener has developed, integrated and supplied five AOCS SCOE systems for six Meteosat Third Generation (MTG) satellites.

The main aim of the AOCS SCOE it is to conduct open-loop and closed-loop testing of the AOCS in each stage of development of MTG. For this purpose, it provides interfaces both for the simulation and stimulation of the sensors and actuators incorporated in the AOCS. In addition, it reproduces in real time the dynamic and kinematic conditions and the effects produced by the physical environment on the satellites.