COMISIÓN NACIONAL DE ENERGÍA ATÓMICA (CNEA)

FACILITIES FOR SPACE TECHNOLOGY

CNEA’s Composite Materials Technology and Solar Energy Departments

CAPACITIES

Coarse Sun Sensor: fabrication and integration.

Space qualified complex structures design, manufacturing and testing.

Solar panel Integration (180m² ISO 7 clean room).

PCB assemblies soldering and thermal control coating application.

Composite material: Manufacturing processes (*CFRP-faced honeycomb-cored sandwich structures *CFRP cylindrical Tubes).

Environmental Testing: vibration analysis, thermal and vacuum cycling, radiation damage.

Deployment mechanisms: design, mounting and testing.

ACTIVITIES FOR SAOCOM 1A AND 1B MISSIONS (CONAE)

- Radar antenna and deployment mechanisms structural design.
- Radar antenna manufacturing and assembly Technology development.
- Structural analysis through numerical method and testing.
- Mechanical ground support equipment design and manufacturing to simulate space conditions in Deployment testing.

ARGENTINE SOLAR ARRAY AND COARSE SUN SENSORS INTEGRATED IN SATELLITE MISSIONS

- SAC-A
- SAC-D
- SAOCOM 1B
- VS-30
- AMAZONIA 1 (BRAZIL)
- BUG SAT 1
- CUBEBUG 1 y 2

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