GENERAL DATA	
Equipment / System name:	Magnetic Cleanliness Facility
Equipment / System number:	4740-K11
Alias:	K11
Location:	INTA Torrejón, K11 building
Picture(s):	 

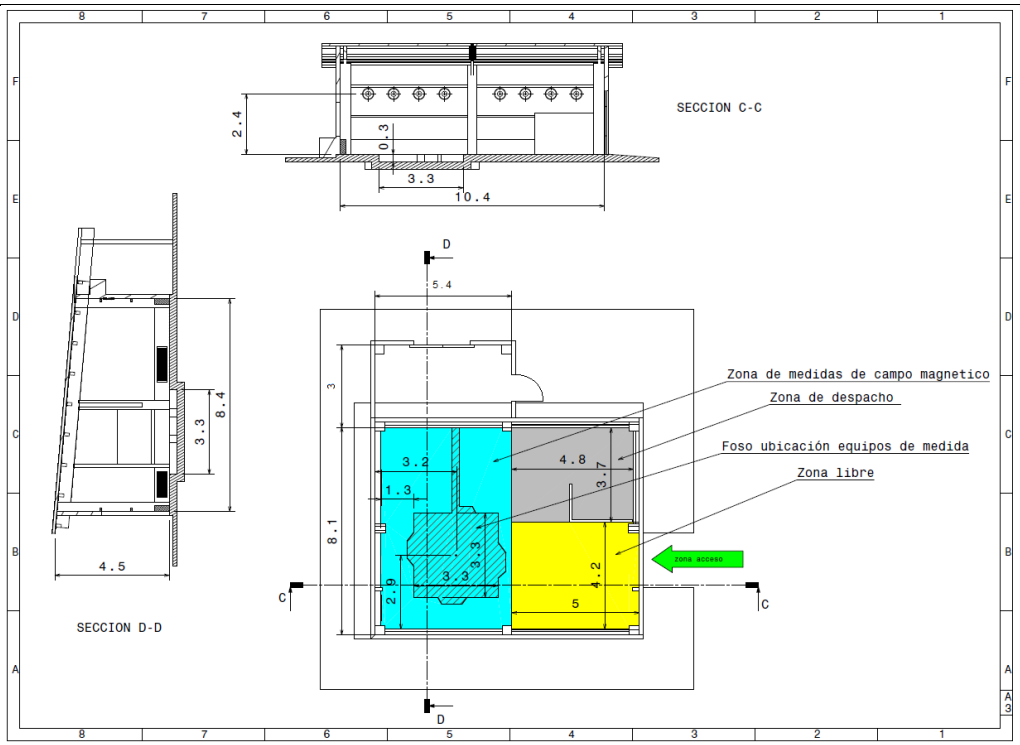
TESTING CAPABILITIES	
Types of tests that can be carried out in the Facility	1. Magnetic cleanliness of equipment and mechanical parts: DC / AC magnetic field measurements, determination of the remaining and induced magnetic moments. 2. Magnetization and demagnetization. 3. Magnetic field susceptibility tests: DC, low frequency magnetic fields up to 1 kHz. 4. Calibration of magnetometers. 5. Thermo-magnetic signature.
Maximum dimensions of the equipment under test	1m x 1m x 1m.
Restrictions / Limitations	EUT Weight < 300 kg
Remarks	- Built in an area of minimum magnetic field gradient using non-magnetic materials. - Temperature and humidity control is achieved by a system located 25 m away from the building and controlled remotely. - Provided with two systems of three axes coils. - The system is provided with a rotary table whose motor (with a precision better than minutes of arc) is placed at 6 m to avoid magnetic contamination. - Geomagnetic compensation < 5 nT. in a volume of approx. 1 meter in diameter. - The facility has specific mobile coils for demagnetization with programmable AC / DC power supply up to a peak of 10 mT.

TECHNICAL CHARACTERISTICS	
Frequency Range	DC – 1KHz.
Magnetization/Demagnetization Maximum level	500 µT

<table>
<tr><td>Maximum level of magnetic field intensity of the AC demagnetization system according to the waveform of the ECSS regulation</td><td>10 mT. peak</td></tr>
<tr><td>Magnetometers / Data Acquisition System</td><td>
<u>9 x Mag-03 FluxGates</u>:
• Bandwidth: 3 kHz
• Measurement range: from ±70μT to ±500μT
• Noise:
<table>
<tr><td>basic version</td><td>>10 a 20pTrms/√Hz a 1Hz</td></tr>
<tr><td>standard version</td><td>6 a ≤10pTrms/√Hz a 1Hz</td></tr>
<tr><td>low noise version</td><td><6pTrms/√Hz a 1Hz</td></tr>
</table>
<u>7 x Mag-13 FluxGates</u>:
• Bandwidth: 3 kHz
• Measurement range: from ±70μT to ±100μT
• Noise:
<table>
<tr><td>standard version</td><td>6 a ≤10pTrms/√Hz a 1Hz</td></tr>
<tr><td>low noise version</td><td><6pTrms/√Hz a 1Hz</td></tr>
</table>
DAS1-10 Data Acquisition System with simultaneous measurement capacity of up to 10 sensors.
</td></tr>
<tr><td>Temperature Testing</td><td>-100 ºC to 40 ºC</td></tr>
</table>

DRAWINGS / SCHEMES (if applicable)

Not applicable


SECCION C-C
2.4
0.3
3.3
10.4
SECCION D-D
4.5
3.3
8.4
D
5.4
3
8.1
3.2
1.3
3.3
3.3
2.9
4.8
3.7
4.2
5
C
C
D
Zona de medidas de campo magnetico
Zona de despacho
Foso ubicación equipos de medida
Zona libre
zona acceso