

SPIE Win Cleanroom Design & Install Contract for Thales Alenia Space

3 years ago



SPIE UK has been appointed by Thales Alenia Space in the UK to carry out the design and installation of a new cleanroom that will be used as an optical laboratory.

The new cleanroom will be used for critical manufacturing activities. The team will provide mechanical & electrical services and architectural finishes to ensure that the completed room meets the requirements of ISO Class 5 certification.

Under the contract, SPIE UK will be responsible for a complete office strip-out before completing the installation works, validation, commissioning and handover of the cleanroom and optical laboratory located in Bristol. The new facility is set for completion by autumn 2022 and will be used for critical manufacturing and assembly of optical instruments on satellites to monitor climate change, feeding valuable data into computer climate models run by institutions across the globe.

As part of the scheme, the facility will be designed to meet both the ISO 14644 and ECSS suite of standards along with UK Building Control and CIBSE design and installation best practice. The optics cleanroom suite is to consist of the cleanroom which will be accessed from a changing room via an air shower. Additionally, there is to be an adjacent control room from which the activity within the cleanroom can be monitored.

As the cleanroom suite is to be built within an operational facility that includes office space and an existing cleanroom, the development plan is such that it mitigates the impact of structural/building activities on the normal operation of the site, especially regarding noise and dust. This will be carefully organised and coordinated with Thales Alenia Space to minimise any downtime for the cleanroom and limit any loss of

productivity.

Steven Farmer, a Divisional Managing Director at SPIE UK, said “We are excited to embark on this new relationship with Thales Alenia Space and it is a great opportunity for us to use our expertise to establish a positive working relationship with a market-leading business in the fast-growing commercial space sector. Drawing in from our cleanroom and close control ventilation capabilities within electrical engineering and maintenance services, we’re confident in delivering against the requirements that are essential for the continued safe manufacturing and assembly of optical instruments.”

Image credit: SPIE UK