



SATELLITE GROUND SEGMENT ANTENNA ON THE HIGHWAY

- 6m diameter Limited Motion Antenna shipment across Luxembourg -

Luxembourg, 16th March 2010. A large 6m diameter limited motion antenna, which has been in operation for many years at another site in Luxembourg, has been transported to the Antenna Park of the technical facilities of SES ASTRA in Betzdorf, Luxembourg.

SES ENGINEERING, the operations and procurement division of the SES Group, has selected HITEC Luxembourg for the planning, retrofitting, commissioning and transport management of the antenna across Luxembourg as well as the subsequent on-site installation.

This antenna project follows multiple successful collaborations between companies of the SES Group and HITEC Luxembourg in the design, conception, manufacturing and on-site installations of high end ground antenna systems for uplink, telemetry, tracking and control missions.

The shipment of an existing, mounted antenna reflector is an exceptional undertaking in Luxembourg. The reason for this relocation method was to move the antenna without having to adjust the antenna reflector in Betzdorf after the transport. Through this innovative approach, developed by HITEC Luxembourg, and the special transport organized by AMECO, a Luxembourg Company, two to three weeks of efforts could be gained and a new level of effectiveness was reached. The transportation of a complete antenna reflector was an engineering and management challenge.

The antenna was not conceived to be relocated and likewise special lifting support had to be developed by HITEC Luxembourg to allow this kind of handling in respect to the reflector stiffness.

HITEC Luxembourg has already and will contribute successfully to this project in the antenna commissioning, handling management, refurbishment, setup and installation on site. To achieve the planned results and deliver first-class quality, HITEC Luxembourg leveraged its industrial expertise in its involvement in national and international procurement programmes of high end antenna ground systems and other infrastructure projects with public and private sector entities in- and outside of Luxembourg.

The contract award by SES ENGINEERING to HITEC Luxembourg is recognition of a worldwide leading satellite company of the know-how available in Luxembourg which is being developed by the emerging Luxembourg space cluster since the adhesion to ESA in 2005.

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About HITEC Luxembourg

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HITEC Luxembourg S.A., a 100% owned Luxembourg company, was incepted in 1986 and has developed its business activities in the field of innovative and quality products and services. The company is ISO 9001:2000 certified for engineering, analyses, consulting, manufacturing and sales of systems in mechanics, electronics, physical measuring techniques, microprocessors and data processing. HITEC Luxembourg offers high technology solutions covering different business areas: satellite ground segment technology; customer specific and standard equipment for testing and measuring of physical properties; engineering; consulting; software & ICT development and project management. HITEC Luxembourg S.A. serves private and public sector customers at a national and international level. Its business objectives, as a specialized high technology provider are to achieve a strong sustainable market position; to expand its activities at an international level as well as to promote the Luxembourg site through the realization of innovative high quality value-added products and services.

About the antenna

The antenna system consists of a 6m limited motion, geostationary Ku- / Ka-Band antenna system intended for use as hub station for an interactive satellite network.

Details	
Weight of reflector:	approx. 6 tons
Reflector diameter:	6 meter
Height of satellite ground station:	8.7 meter
Height of pedestal:	2.7 meter
Material:	Backup structure: Steel Reflector panels: Aluminium
Specifics:	De-Icing System
Elevation (screw jack):	0-90°
Azimuth:	+/- 40°