

66th International Astronautical Congress 2015

SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM (D2)
Launch Services, Missions, Operations, and Facilities (2)

Author: Mr. Bernard Chemoul
Centre National d'Etudes Spatiales (CNES), French Guiana, bernard.chemoul@cnes.fr

STAKES AND PERSPECTIVES OF THE GUIANA SPACE CENTRE, THE EUROPEAN SPACEPORT

Abstract

CSG is the reference launch range of Europe of the policy of independent access to space. During the past years, a lot of efforts and investments have been achieved to improve the capabilities of the launch range in order to manage three launch systems ARIANE 5, SOYOUZ and VEGA with a high launch rate. At the present time, 11 launches and more per year are possible with duration between two launches of 12 days. To obtain these results, the technical means have been adapted, simplification in operations have been implemented and a dedicated organization has been settled for the management of the general planning of the operations of the base taking into account a day by day management of the resources in agreement with the work laws. The performance of CSG has been improved with the operational costs under control, by keeping the safety at high level and being still environmental friendly. Indeed, CSG take part of the competitiveness of the European launch sector. So the stakes for the future years are to adapt the CSG in order to be more and more competitive. Three kinds of stakes are to take into account: •

•

Operational stakes: modernization of technical means offering standardization in launch campaign for space operators, automation of some processes, improvement of working environment for the space operator with high capabilities numerical networks, keeping of high availability of CSG's technical means, keeping high level of safety in operation. •

•

Economical stakes: increasing the launch rate, decreasing of operational cost of the launch range, prepare the future with the implementation of the new launch System ARIANE 6 •

•

Regional stakes: improvement the integration of the Launch range in the eco system of French Guiana, using the economic and social fabric of the region, Keeping the high level on environment integration with objectives to reduce the energy consumption particularly the energy producing greenhouse gases.

After a short description of CSG and its main features, the paper will give an overview of the main perspectives of the CSG for the next years.