HUMAN SPACEFLIGHT SYMPOSIUM (B3)
Commercial Human Spaceflight Programs (2)

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ABOUT THE POSSIBILITY OF USE ANTHROPOMORPHIC MANIPULATORS AND TRANSPORT ROBOTIC SYSTEMS TO CREATE THE COMMERCIAL SYSTEM FOR ENERGY, COMMUNICATIONS AND LOGISTICS SUPPORT ON THE MOON SURFACE

Abstract

The authors propose to consider the creation of energy, communication and transport system on the lunar surface on a commercial basis. At the heart of the system is proposed a combination of advanced technical solutions: anthropomorphic manipulators, locomotion system on the basis of the wheel (the rover) or on the basis of the jumping platforms, as well as multi-function cable car. The authors show that the proposed solution makes it possible to create on the surface of the Moon required network configuration for energy, transport and information support of various automatic and manned spacecraft. This network will be able to provide power supply services, communication (information) support and logistics for the objects on the Moon, on a commercial basis. Isolation of these services in complex business can significantly reduce the risks associated with targeted missions to the Moon.