

HUMAN SPACE ENDEAVOURS SYMPOSIUM (B3)
Enablers for the Future Human Missions (7)

Author: Dr. Jury Bakhvalov

Khronichev State Research & Production Space Center, Russian Federation, mks@khronichev.com

Dr. Sergey Pougachenko

Khronichev State Research & Production Space Center, Russian Federation, mks@khronichev.com

Dr. Sergey K. Shaevich

Khronichev State Research & Production Space Center, Russian Federation,
Shaevich.S.K@khronichev.com

USAGE OF LOW EARTH STATIONS LOGISTICS EXPERIENCE FOR LUNAR INHABITED
SETTLEMENTS

Abstract

General description of low earth orbit infrastructure and lunar settlement with their main characteristics is given. Comparative assessment of cargo flow for orbital infrastructure and lunar settlement operation is considered. We've analyzed orbital infrastructure and lunar settlement hardware parameters from reliability point of view to minimize expenses for transport service. Orbital infrastructure model analysis results are correlated with statistic data about "Mir" station cargo supply and allow to determine transport vehicle payload mass lunar transport system flight frequency.