## IAF SPACE EXPLORATION SYMPOSIUM (A3) Interactive Presentations - IAF SPACE EXPLORATION SYMPOSIUM (IP)

Author: Dr. Sergei Antonovich Lemeshevsky Lavochkin Association, Russian Federation, cms87@yandex.ru

## THE QUESTION OF LUNA-GLOB SC LANDING VERIFICATION

## Abstract

Co-authors: I.V. Moskatiniev, Lavochkin Association, Russia, miv@laspace.ru

I.V. Lomakin, Lavochkin Association, Russia ilya<sub>l</sub>omakin@laspace.ru

Lavochkin Association 24 Leningradskaya str., Khimki, Moscow region, 141402, Russia Tel.: +7 495 573 56 75, E-mail:npol@laspace.ru

The most critical and technically complicated phase of the missions related to the contact studies of the celestial objects is the landing phase. It is characterized by inconvertibility of the processes, complexity of the errors compensation and fast moving propagation of the emergency situations. In a view of the above the landing phase is subjected to the most careful study, and spacecraft components involved in the landing process are subject to detailed and complete ground experimental verification.

The presented materials overview the verification algorithm of Luna-Glob SC landing process comprising the following steps:

Selection of the verification level (SC, onboard system, unit) of the components involved in the landing phase; Determination of key parameters of the spacecraft, onboard system, unit, involved in the landing phase; Control of the availability of these parameters and correctness of their norming in the component specification; Control of completeness and representation of these parameters verification during ground experimental verification; Award of the status.

By results of the performance of the abovementioned actions a decision is made on award to the each of the considered parameters of the status "Verified" and acknowledgement of the landing verification procedure as successful.