

Lunar Exploration (3)
Lunar Mission updates (1A)

Author: Mr. Ma Jinan

Beijing Institute of Spacecraft System Engineering, China Academy of Space Technology (CAST), China,
majinandoit@163.com

Prof. Zhang He

China Academy of Space Technology (CAST), China, zhanghe_maoqiu@163.com

Mr. Xue Ying Wu

China Academy of Space Technology (CAST), China, wuxueying@sohu.com

Mr. fei li

Beijing Institute of Spacecraft System Engineering China Academy of Space Technology (CAST), China,
kuokuolee@163.com

Dr. Ke Wu

Beijing Institute of Spacecraft Environment Engineering, China, joykewu@163.com

MISSION ANALYSIS OF A LUNAR POLAR LANDING EXPLORATION

Abstract

In this paper, the mission characteristics and engineering difficulties of Lunar polar landing probe are introduced. And the mission analysis of lunar polar exploration is explained, including the aspects of landing site selection, special environments on the lunar polar surface, effective scientific detection for lunar polar, and long-term working well. The proposal of technical approach is shown as well. It was useful to the design of lunar polar landing mission.