

Executive Summary

Date Prepared: September 6, 2007

Presenter's Name: John E. Gruener

Presenter's Title: Lunar Outpost Site Selection: A Review

Presenter's Organization/Company: NASA Johnson Space Center

Presentation Title

Lunar Outpost Site Selection: A Review of the Past 20 Years

Key Ideas

This presentation will review efforts by the space exploration community over the past 20 years in regards to site selection for lunar outposts. Operational, science, resource utilization, and international/commercial interests will in lunar outpost site selection be discussed. The presentation will begin with work conducted in the mid-1980's in association with a symposium on Lunar Bases and Space Activities of the 21st Century, and then will proceed through the Space Exploration Initiative (SEI) and First Lunar Outpost (FLO) design study in the early 1990s, the Exploration Systems Architecture Study (ESAS) in 2005, and will end with the current lunar exploration architectures being studied within NASA's Exploration Systems Mission Directorate (ESMD).

Supporting Information

The primary documents that will be referenced during the presentation are: Lunar Bases and Space Activities of the 21st Century, Lunar and Planetary Institute, 1985; Geoscience and a Lunar Base: A Comprehensive Plan for Lunar Exploration, NASA Conference Publication 3070; A Site Selection Strategy for a Lunar Outpost: Science and Operational Parameters, NASA workshop report; and Exploration Systems Architecture Study (ESAS) Final Report, NASA. All of these reports can be found on the internet at http://www.lpi.usra.edu/lunar_resources/documents.shtml.