

UNITED STATES GOVERNMENT

# Memorandum

Jim: CB  
Here is our thinking on the bags, etc.  
I don't believe its quite as confusing as it sounded Thurs. the 12<sup>th</sup> we're scrubbin'!

DATE: November 10, 1970

TO : Memorandum for Record

FROM : CB/David R. Scott

SUBJECT: Apollo 15 Lunar Surface EMU/Equipment Interface

19/3 FLO  
gun (15)

- PA-MGR \_\_\_\_\_
- PA-M.CSM \_\_\_\_\_
- PA-M.LM \_\_\_\_\_
- PA-M.EXP \_\_\_\_\_
- PA-A.MgFLS \_\_\_\_\_
- PA-TecAst \_\_\_\_\_
- PA2 \_\_\_\_\_
- PE \_\_\_\_\_
- PF \_\_\_\_\_
- PG \_\_\_\_\_
- PP \_\_\_\_\_
- PT \_\_\_\_\_
- PLS ✓
- NA \_\_\_\_\_

To perform the J Mission extended lunar surface EVA operations, four basic crew/equipment (bags and tools) configurations must be provided. The crew must have the equipment available to:

1. Perform long duration (1 to 2 hour) lunar field geology excursions away from the LRV.
2. Perform short (15 minute) lunar field geology excursions near the LRV.
3. Complete lunar geology objectives in case of LRV failure.
4. Walk back to the LM from the most distant traverse point in case of LRV failure with all collected samples and exposed film.

PO7

To optimize the crew equipment configuration each of the following factors must be considered:

1. The equipment and procedures necessary to meet the above four requirements should be standardized.
2. The overhead necessary to perform a science stop with the LRV must be minimized.
3. The return from geologic operations must be maximized.
4. All samples and exposed film must be returned to the LM on a walk back at minimum crew workload.
5. The number of equipment/EMU/crew interfaces must be minimized.

A single basic equipment/EMU configuration meets all of the above requirements and is illustrated in the enclosure. This configuration is a result of several months of field testing and mock-up reviews and requires only the addition of several clips to the PLSS covers.

*David R. Scott*  
David R. Scott

Enclosure



cc:

CA/D. K. Slayton

CB/T. P. Stafford

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TN6/W. C. Phinney

CF7/R. G. Zedekar

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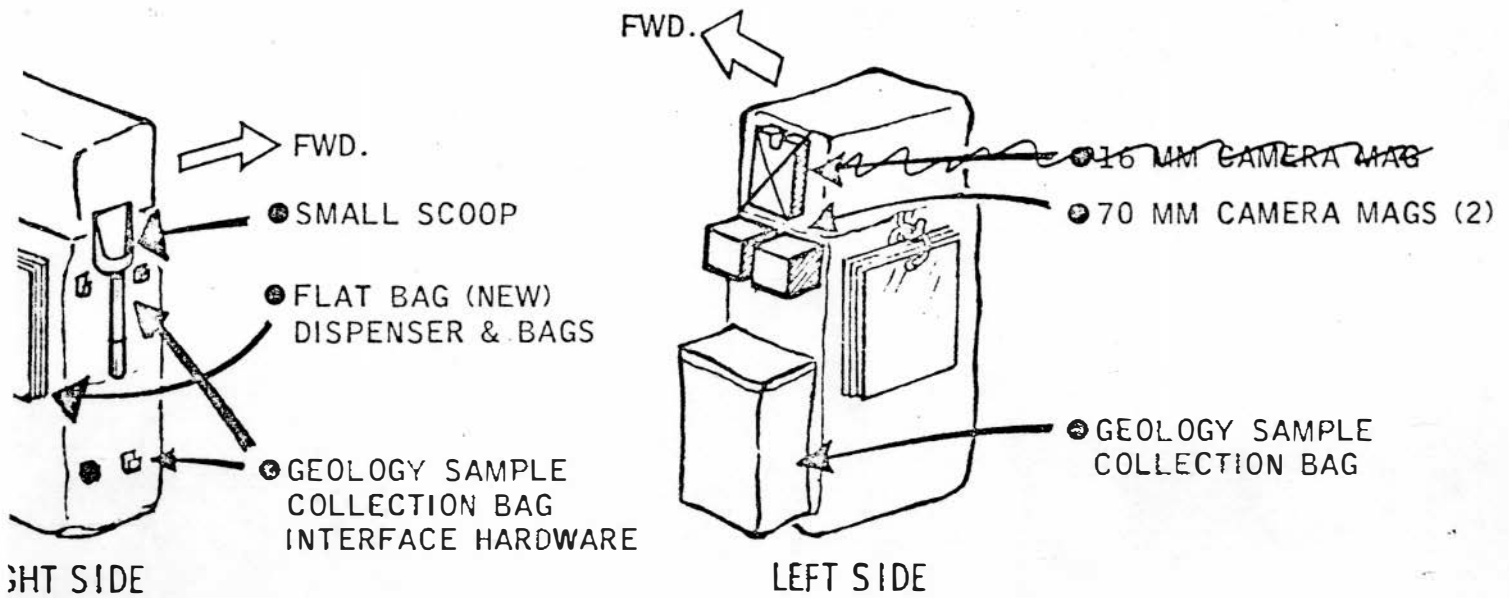
Gordon Swann

United States Geological Survey

Flagstaff, Arizona

# APOLLO 15 - LUNAR HANDTOOL STORAGE ON THE PLSS

## CDR PLSS:



## LMP PLSS:

