R. Larson

Mission Techniques Memo #30C

TO: Distribution
FROM: Malcolm W. Johnston
DATE: July 9, 1969
SUBJECT: "G" Lunar Surface Phase

1. Previously (MTM #30A and attached STG memo #1338) it has been stated that the X pipa bias may be difficult to determine. Perhaps the ground could compare PGNCS, AGS, and nominal lunar gravity indications. If the PGNCS looks suspicious, uplink a new refsmmat (rotated 90° from nominal) which places the X pipa in the local horizontal plane. Then determine the bias as previously done for the Y & Z pipas.

2. CDU transients fall into two categories.....Coarse system transients in the CDU may occur during an alignment if the PGNCS gimbal angles are exactly integer multiples of 45 degrees at the time of mark; Fine system transients occur once after turn-on at integer multiples of 2.8°. (The bottom of page 8 of the Lunar Surface Mission Techniques document should be changed to reflect the above).

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