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LUMINARY Memo # 228

To: Distribution  
From: D. Moore, P. Volante  
Date: 21 July 1971  
Subject: Using P99 LM Deorbit Erasable Program in Earth Orbit  
(with full DPS/APS configuration)

The LM Deorbit Erasable Program, P99 (described in LUMINARY Memo #211 Rev. 1), does not perform properly in earth orbit with full descent stage, because the program assumes ascent configuration.

To remedy this, one location in the program must be changed (to bypass setting the APSFLAG); N46 in R03 must be loaded to indicate descent stage (i. e. digit A = 2); also the crew should perform ENG GMBL-OFF so that the autopilot will not attempt to drive the gimbals. The location which must be changed is: 3405

	OCTAL	SYMBOLIC
Original Content:	12324	TCF WANTAPS
New Content:	12327	TCF ULLGNOT