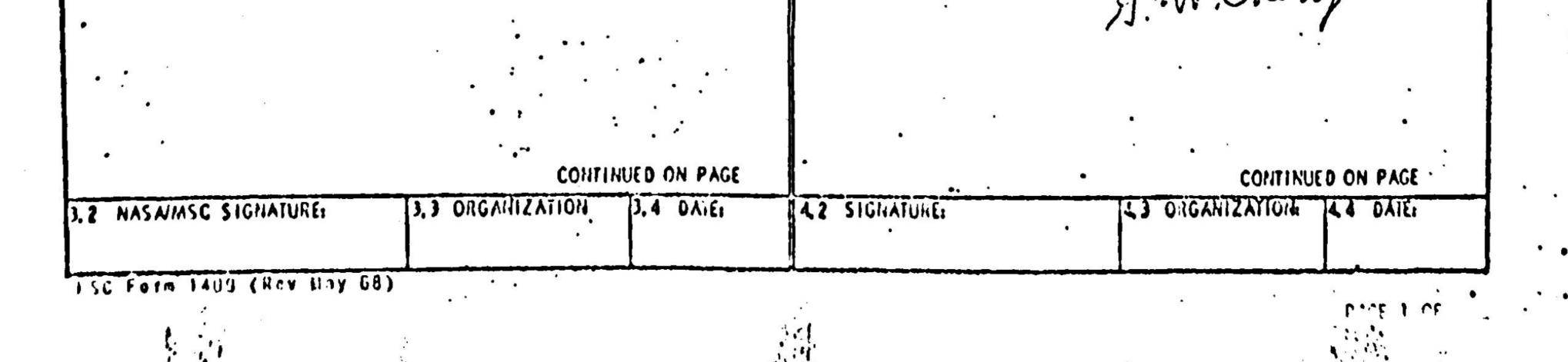
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P. Adle		MIT/IL	5/12/	<u>69</u>	PROGRAM REVISION 97
A) give ba	ad Velocity	Required or	ms, the LAMB B) continue ite bly unbounded,	rating, i.e.,	ne can either tie up the
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Anomaly in Lumina	pointed out ary 97 Listi	in TRŴ mem ng	o A-201: 4/23	3/69: Questio	•
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	•	x	- MIT ANALYSIS -		ber of iterations
	E G is off or	on) before	LAMBERT is o	alled. Inus	CONTINUED ON PAGE
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MIT/IL SOFTWARE ANOMALY REPORT

P. Adler	1.2 ORGANIZATION: MIT/IL	L3 DATE: 5/12/69	CONTROL NO.	PROGRAM LUMINARY PROGRAM REVISION 97

2.1: ITERCTR is left at its previous setting. For targeting programs this is the high-order part of the Y-component of the vehicle velocity as extrapolated to intercept time (VATT1 from INTEGRVS) (in reference coords. scaled B29 or B27 for Earth or Moon respectively). For the prethrust portion of burn programs (S40.1), the previous contents of ITERCTR is the same VATT1, only in this case the extrapolation has been done to TIG (time of ignition).

If LAMBERT does not converge (very rare), it will go on trying until ITERCTR is decremented to 0. If ITERCTR was initially less than or equal to 0 it will never reach 0 due to the method of decrementing. This gives case B. If ITERCTR is left as a small positive number, then LAMBERT may exit before a valid V_R is generated. This is case A.

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MSC LEFURT I.J.

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