			and a series			
	MIT/IL SOFTWARE AND	MALY REPOR				
1, 1	ORIGINATOR: 1.2 ORGANIZATION: 1.	3 DATE: 1.4 ORIGINAT				
1,5	K. W. KRAUSE TRW (MPAD A-200) DESCRIPTION OF ANOMALY:	6-20-69 MPAD	NO. -2 PROGRAM REVISION 99			
	Crossplane vehicle oscillations duri part of the visibility phase (P64) a cent/phase (P65), a crossplane pertu designation or 3 6 landing radar vel to oscillate from side to side with deg; These perturbations were obser	nd throughout rbation such a ocity noise wi an amplitude o	the vertical des- s a lateral re- ll cause the LM n the order of 10			
1.6	6 DESCRIPTION OF RUN:		x 94			
	TRW 6-D Apollo Reference Mission Program descent runs for L Analysis Branch (FM-2) under TRW Task A-200.					
			CONTINUED ON PAGE			
	- MIT ANAL	YSIS -	•			
2.1	The attitude oscillations are mainly shoot (see AG letter No. 347-69).	caused by a D. However, the o	AP deadband over- scillations dyse 2.			
2.2	2 RECOGNITION:					
-	Vehicle and attitude error needle os	cillations.	CONTINUED ON PAGE			
2.3	3 MISSION EFFECT: Small increase in RCS propellant con	sumption and L	······································			
2.4	4 AVOIDANCE PROCEDURE:					
_	Select P66 at 500 feet altitude or s	teer spacecrar	CONTINUED ON PAGE			
2.5	5 RECOVERY PROCEDURE:					
	Switch to P66 or wait until oscillat	ions die out.	CONTINUED ON DACE			
2.6	6 PROGRAM CORRECTION:		CONTINUED ON PAGE			
	See PCR 840.					
		······	CONTINUED ON PAGE			
6.1	.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc):					
	Inform crew for LUMINARY 1A; impleme	nt PCR 840 for	CONTINUED ON PAGE			
2.8	8 RECOMMENDED RE-TESTING: Repeat noise probe tests in LUMINARY	18.				
	CONTINUED ON PAGE	MITILE SIGNATURE: Leorge I'V Che	2.10 DATE:			
3.1		CLOSING ACTION TAKEN:	ny 7-15-(9			
_	CONTINUED ON PAGE	-	CONTINUED ON PAGE			
3.2	2 NASA/MSC SIGNATURE: 3.3 ORGANIZATION 3.4 DATE: 4.2	SIGNATURE:	4.3 ORGANIZATION: 14.4 DATE:			
HSI	ISC Form 1409 (Rev May 68)		the second secon			

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PAGE 1 OF

MIT/IL SOFTWARE ANOMALY REPORT MORE PORT NO.

I ORIGINATOR:	I.2 ORGANIZATION:	1.3 DATE:	1.4 ORIGINATOR CONTROL NO.	PROGRAM LUMINARY 1A
K. W. KRAUSE	TRW (MPAD A-200)	6-20-69	MPAD - 2	PROGRAM REVISION

1.5 Description of Anomaly:

was a 3 pulse lateral redesignation at TREDES = 40 secs (TTF = -72 secs) and the other incorporated a 7.5 fps lateral noise spike in the landing radar at TTF = -54 secs. Changing the deadband to 0.3 reduces the effect.

2.1 Cause:

to a hoise spike are not so large as those observed on the TRW engineering simulator. Practically, no oscillations due to a site redesignation were observed at MIT.