

Mission Planning and Analysis Division NATIONAL AERONAUTICS AND SPACE ADMINISTRATION MANNED SPACETRET CENTER HOUSEN, TOAN 7098

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FROM : FM/Mission Planning and Analysis Division

. Printerior Francisco Manager Strategy

SUBJECT : Change for RTCC offline formulation for Apollo 14; Star-Horizon Observation Processor

1. Reference: MSC Internal Note No. 69-FM-326, "RTCC Offline Requirements for H-2: Star-Sorince Observation Processor," FM4/ Filmoner and FM/D Fide Velocity 50, 1000

 P. Flanagan and TRU/R. Kied, February 24, 1970.
 The reference internal note should be updated as defined in the attached change sheet, and the RNDC offline star horizon observation processor should be altered accordingly for Apollo 14. The

equation for D₃ is currently incorrectly defined.

Assistant Chief Mathematical Physics Branch

The flight Software Branch concurs with the above recommendation and requests IBM to proceed accordingly.

Jarry Llunga for James C. Stokes, Jr., Chief Flight Software Branch

Flight Softwa APPROVED BY:

John F. Mayer Chief, Mission Planning

Chief, Mission Planniz and Analysis Division

Distribution: (See attached list)

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NASA - Henned Spacecraft Center		Change she	Change sheet to Internal Note Z. Identification 69-398-326 dated	
	RELEASE APPROVAL	Z. Identiii	February 24, 1970	
		Page 1	of _1_ Pages	
то:		Branch Mathema	Plenning and Analysis tical Physics	
	Subject HTGC OFFLIRE ROQUIRES BUILDARION PROCESSOR	MITTE FOR 11-2: STAR-	Date of Paper	
5. Author(s)	Peul Flanagan, MPB, and Hober	t Kied, 1787 Systems G	roup	
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CHANGE SHEET

FOR
MEC INTERNAL NOTE 69-FM-326 DATED FEBRUARY 24, 1970
HYCC OFFLINE REQUIREMENTS FOR H-2:

SYAR-HURIZON OBSERVATION FROCESSOR By Paul Flanagan, MFB, and Robert Kidd, TRW Systems Group

> Change 2 By T. J. Blucker, MSC



Mission Planning and Analysis Division

Page 1 of 1

After the following pen-ani-ink change has been made, place this CHANDE SHEET between the cover and title page and write on the cover, "CHANDE 2 inserted".

1. Pen-and-ink change on page l4a: Add =1 at the end of the equation for \mathbb{D}_q . The new equation should read

$$p_3 = \left(\frac{Q_x P_x - Q_x P_x}{6Q}\right)^2 + \left(\frac{Q_y P_x}{6Q}\right)^2 - 1$$

CHANGE HISTORY FOR 69-FM-326

umber	Date	Description	
1	8/13/70	Meniace pages 13, 1b: Eliminated some original parameters and added none new parameters. Re- posted original pages to include additional discussion. Beplace pages 21, 22: Thow charts added to de- fine new computation logic for parameters men- tioned above.	
2		Fen-and-ink change for equation defining $\boldsymbol{D}_{\underline{\boldsymbol{S}}}$ on page 14a.	