Massachusetts Institute of Technology C.S. Draper Laboratory Cambridge, Massachusetts

COLOSSUS Memo #252

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To:	Distribution
From:	N. W. Brodeur, P. Rye
Date:	26 February 1970
Subject:	Revisions 90 through 96 of COMANCHE

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Revision 96 of COMANCHE was GOOD. The following changes were incorporated into Revisions 90 through 96.

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2) The value of DELTYME was changed from .1 to .05. This constant is used to distribute the rate more efficiently in R61. (PCR 859)

- 5) UPRUPT was modified so that during ground testing only (there is a check on NODOP01 flag) the number of uplink key codes is counted and each key code is summed and stored in a newly defined erasable UPSUM. The keystroke count is kept in UPSUM +1. (PCR 991.1)
- 6) GOMANUR was moved from Bank 7 to Bank 4.
- 7) The uninhinted call to ZEROEROR in KALCMANU STEERING was corrected. (COM33)
- 8) R02 was moved from bank 7 to bank 20 to make room for the implementation of PCR 970.1.
- 9) V94 restart point was changed from an interpretive tag to a basic tag correcting an error made in the original implementation of PCR 993.
- 10) FALTOF was deleted from PINPALL as it was not used and 1. c. 1. c. memory was needed. (ACB 112)
- 11) P29 (TIME of LONGITUDE) program was added to provide a method for inputting a longitude to the CMC and receiving a display of time of arrival at that longitude and a display of the corresponding latitude. It was placed in the Ground Tracking Determination Program Log section as it makes use of some of the P21 logic and coding. (PCR 956)
 - a) FLAGTABL used in zeroing flags in V37 was modified to include the newly defined NEWTFLAG (BIT 5 FLAG 7).
 - b) The Rendezvous downlink is sent during P29.

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- 13) The following P24 erasables were relocated to correct known conflicts: AOPOLD, TRTEMP, SRTEMP and PACTEMP. (PCR 869)
- 14) Changes were made in P23 to make HORISLP double precision to accomodate more accurate pad-loaded values. HORISLP was redefined as double precision. (PCR 868)
- 15) The zeroing of 8NN was deleted from R52 and incorporated in the beginning of P24 to avoid conflict with P22. (PCR 869)
- 16) A correction was made to R57 to enable the recycle option on V06N87. (PCR 868)

The following items should be examined for inclusion in the GSOP sections indicated.

Section 1 (Item 5) Section 2 (Items 3, 4*, 5, 11, 12) Section 4 (Items 2, 4, 11, 12, 16) Section 5 (Items 2, 4, 11, 12, 14)

*It should be noted that OFFSET POINT in the downlink lists will now contain garbage.

