## Massachusetts Institute of Technology Instrumentation Laboratory Cambridge, Massachusetts

COLOSSUS Memo # 215

TO:

Distribution .

FROM:

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DATE:

September 22, 1969

SUBJECT: Revision 2 of Artemis (COLOSSUS 3)

Revision 2 of ARTEMIS was BAD

## Major changes incorporated into Revision 2:

- (1) Redesign of SXTMARK, involving users as well as internal logic changex's. The redesign caused the following erasable changes (ACB 47):
  - a. MARKSTAT was deleted.
  - b. R52BNKSV was added-used to save EBANK for R52.
  - c. P22-P23 crasables moved from E5 to E7.
  - d. P22DEX was added-replaces unused IDOFLMK.
  - e. 8KK was redefined as double precision instead of single.

The redesign of SXTMARK brought about the following GSOP changes (PCR 875):

- a. Delete alarm codes 31207, 112, 122, 1602.
- b. Delete unused TRMO3FLG (Bit 4 flag 1) and replace it with MARKFLG which is set in MARKRUPT routine when a mark is accepted; cleared by MRKRJECT when REJECT is accepted; cleared by MKRELEAS (end of marking) and by STARTSB2 (software or hardware restart).

Purpose is to indicate to the MRKRJECT routine that a mark exists which can be rejected.

- (2) Changed R52 to save and restore EBANK in new shared erasable R52BNKSV and delete EBANK setting in P20. (ACB 51)
- (3) PO3, P22, P23, R53 and R57 were modified to use new SXTMARK and their EBANK settings were modified because MRKBUF1 is now used to store the mark. V37 table calls to P22 and P23 were modified to reflect change in EBANK. (ACB 51)
- (4) P22 was optimized. (ACB 49)
- (5) Deleted unnecessary portion of TERM52. (ACB 51)
- (6) R56 was modified to use MRKBUF1 as a consequence of the new SXTMARK routine. (ACB 51)
- (7) V52 (offset landing site) logic was modified to use new P22 marking logic instead of complex logic involving MARKSTAT (ACB 47)
- (8) SXTSM and GETUM were simplified and NBSM deleted due to the implementation of the new SXTMARK. (ACB 47)
- (9) Optimized major mode checking in R51. (ACB 51)
- (10) Optimized decoding of LANDMARK in ADVTRACK routine. (ACB 51).
- (11) P30-P31 were optimized. (ACB 48)
- (12) ACB 40 was inadvertantly omitted in the recoding effort of the P50's. It was added to this revision along with changing the constant name from 1.3 SECDP to 2.4 SECDP.