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Handle via BYEMAN
Control System

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7003

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FTB5 13/1702 15Z ZPO

BT

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ZERO ZERO NINE []

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[] INFO [] WHIG CITE [] 6744

EARPOP

FOR J. GORMAN, S. HUGHES, B. TALSKY
FOR CAPTS MCCLINTICK, GREASALFI, SSGT ELDRED
FOR [] MAJ SCIOTTO, [] MAJ TRUKKEN, ASCO FOR P. TIFFANY
FOR A. FOX, J. CHRISTIANSON, MAJ MCKILLIP

REF. A. [] 6640

B. LMSC DOCUMENT AA 02148 REV.1, 26 MAR 65, AND ADDENDUM 1,
20 OCT 55

C. [] 1301 12 MAY 65

SUBJECT:

SUMMARY OF MEETING AT [] 11-12 NOV 65, TO DISCUSS MSN 7160/722
STF AND EXPANDED CTF FOR FUTURE MISSIONS.

1. FOR MISSIONS 7160 AND 7228 ONLY, THE FOLLOWING ADDITIONAL
DEFINITIONS WERE AGREED TO FOR STF HEADER RECORD #1 (H001):

A. WORD 14 - INTEGER BINARY COUNT OF TRANSMISSION NUMBER.
(FOR ORIGINAL TRANSMISSION OF A BURST ONE WILL BE USED; FOR ANY
REBUNCS), TWO, THREE, ETC. WILL BE USED)

B. WORD 6 - (OPERATING MODE INDICATORS)

1) FOR MSN 7228 ONLY: BITS 17-23 WILL BE AN INTEGER
BINARY COUNT AS FOLLOWS:

COUNT	DEFINITION
1	NORMAL
2	ALTERNATE MODE #1
3	ALTERNATE MODE #2
4	ALTERNATE MODE #3
5	ALTERNATE MODE #4

2) FOR MSN 7160 ONLY:

BIT 0: 0 - INHIBIT ON (NORMAL)

1 - INHIBIT OFF

BIT 1: 0 - NORMAL

1 - SINGLE PULSE MODE

2. COUNTS RECEIVED FROM THE PAYLOADS WILL BE CONVERTED TO
OPERATING UNITS AS FOLLOWS: ("N" EQUALS COUNT)

A. MSN 7160 (GROUP 3-D)

1) PULSE WIDTH (PW)

DISTRIBUTION	
SAFSS	A I
SS-1	
SS-2	5
SS-3	
SS-4	2
SS-5	
SS-6	1
SS-7	
SS-8	
SS-9	
RF-1	3
RF-2	4
FILE	

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COPY 1 of 5
Page 05 of 05
Control No. []

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- FOR WIDE PULSE ALARM EQUAL TO ZERO:
PW EQUALS 0.5 N (MICROSECONDS)
FOR WIDE PULSE ALARM EQUAL TO ONE:
N EQUALS ZERO: PW EQUALS 40 (MICROSECONDS)
N NOT EQUAL ZERO: PW EQUALS 34 PLUS 32 N (MICROSECONDS)
- 2) PULSE REPETITION FREQUENCY (PRF)
PRF EQUALS 40,000/N (PPS)
3. MSN 7228 (SETTER)
- 1) PRF
N EQUALS ZERO: PRF EQUALS 1,000,000/18.74 (PPS)
N EQUALS 511: PRF EQUALS 1,000,000/7807.0 (PPS)
N EQUALS 1 THRU 510:
PRF EQUALS 1,000,000/(N(15.26) PLUS 13.42) (PPS)
- 2) PULSE AMPLITUDE (PA):
PA EQUALS - 83.75 PLUS 2.5N (DBM)
- 3) FREQUENCY (F)
F EQUALS N PLUS 2680 (MCS)
- 4) PULSE WIDTH

N	RANGE	OUTPUT VALUE
0	.5 - 1.43	1.0 (MICROSECONDS)
1	1.43 - 2.86	2.1
2	2.86 - 5.72	4.2
3	5.72 AND UP	5.7

3. SAFSP WILL COMPILE A "GLOSSARY" OF ALL KNOWN PARAMETERS,
TO REPLACE THE PRESENT 120 - PARAMETER COMMON TAPE FORMAT.
A DRAFT OF THIS GLOSSARY WILL BE PRESENTED TO REPRESENTATIVES FROM
[REDACTED] AT A MEETING TO TAKE PLACE BEFORE 1 JAN 66,
IF POSSIBLE. TIME AND PLACE WILL BE ESTABLISHED LATER. AT THIS
MEETING, REVISIONS TO "TRANSMISSION FORMAT" WILL BE DISCUSSED.
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WILL RERUN UPON REQUEST

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