

~~CONFIDENTIAL~~

NNNN

HANDLE VIA COMINT CHANNELS ONLY

ZCZCNK13091KB173HAB047

RR YSNKDC

RW4 ACT: NRL VIA 301W.....

DE YFNIRA 3 3440846

ZKZK RA NRL DE

R 0000057

FM

TO YSNKDC/NRO

INFO COMNAVSECRU

ZEM

CONFIDENTIAL COMINT CHANNELS

SISS ZULU (U)

ATTN: MR. R.D. MAYB CODE 5611

1. DURING HIS TAD VISIT TO HBB-SINGER, CTC LENKER LEARNED THAT SEL RECOGNIZES THAT THEIR MAGNETIC TAPE TRSCSPORTS GENERATE AN UNDESIRABLE GLITCH WHEN AN ATTEMPT IS MADE TO COPY RECORDS FROM ONE TRANSPORT TO ANOTHER. THE WRITE TRANSPORT GENERATES A MEANINGLESS ONE-BIT FRAME IN THE MIDDLE OF THE INTER RECORD GAP EACH TIME THE READ TRANSPORT RECEIVES THE READ COMMAND. THIS GLITCH READERS PROGRAM U7 (EDIT DATA TAPE) USELESS SINCE THE COPIED TAPE CONTAINS NUMEROUS PARITY ERRORS WHEN READ BY IBM OR CDC MAGNETIC TAPE SYSTEMS.

2. THE SEL SOLUTION TO THIS PROBLEM IS TO KEEP THE WRITE STATUS ON THE TRANSPORT ENABLED WHILE THE READ TRANSPORT IS READING. THEIR MODIFICATION WILL MEAN THAT WRITE STATUS IS NOT REMOVED UNTIL A BACKSPACE OR REWIND COMMAND IS RECEIVED. BECAUSE OF THIS CHANGE ERRONEOUS DATA TAPES CANNOT BE EDITED UNTIL HBB-SINGER MODIFIES EXECUTIVE EDITOR, FIND, AND PUT. IN ORDER THAT THESE PROGRAMS COULD BE USED, IT WAS NECESSARY TO BYPASS THE SEL MODIFICATION IN THE SYSTEM FOR THE [REDACTED] WHEN OUR MACHINES ARE MODIFIED, WE WOULD ALSO HAVE TO BYPASS THIS MODIFICATION.

3. AS A SOLUTION TO THE ABOVE DELAY, A MODIFICATION CAN EASILY BE ADDED TO SEL'S CHANGES WHICH WOULD ELIMINATE THE NEED FOR ANY SOFTWARE CHANGES AND AT THE SAME TIME ELIMINATE THE ERRONEOUS GLITCH. BRIEFLY, THIS MODIFICATION WILL KILL WRITE STATUS ON THE SELECTED MAGNETIC TAPE UNIT WHEN IT IS GIVEN A READ, ADVANCE END OF FILE, OR ADVANCE RECORD COMMAND. THIS MODIFICATION WILL REQUIRE 2 NEW

AES, 1 CABLE DRIVER, AND 1 CABLE TERMINATOR IN EACH MAGNETIC TAPE UNIT; AND 1 GATE, 2 INVERTORS, 1 CABLE DRIVER, AND 1 CABLE TERMINATOR IN THE TAPE CONTROL UNIT. FULL WIRING DETAILS OF THIS MODIFICATION CAN BE PROVIDED AFTER WE RECEIVE A COPY OF THE FOLLOWING SEL PRINTS:

A. 80020-6 (ALL SHEETS)

B. 80022-6 (ALL SHEETS)

4. REQUEST THAT THE ABOVE MODIFICATION BE APPROVED AND SEL'S CHANGES FOR OUR MACHINE BE EXPEDITED TO US SO THAT WE CAN USE U7 PROGRAM TO EDIT OUR DATA TAPES.

590

~~CONFIDENTIAL~~

HANDLE VIA COMINT CHANNELS ONLY

(117)

~~CONFIDENTIAL~~ ~~HANDLE VIA COMINT CHANNELS~~

ZCZCK HH141FBFTUOREB 330

RR YEKMDH
DE YFNHRA 3 3440846
ZKZK RR NRL DE
R 090945Z

1968 DEC 9 13 55

FM [REDACTED]
TO YSNKLDG/NRO
INFO COMNAVSECGRU
ZEM

*Answer sent
12/19/68 FUK*

~~CONFIDENTIAL~~ COMINT CHANNELS

SISS ZULU (U)

ATTN: MR. R.D. MAYO CODE 5614

1. DURING HIS TAD VISIT TO HRB-SINGER, CTC LENKER
LEARNED THAT SEL RECOGNIZES THAT THEIR MAGNETIC TAPE
TRANSPORTS GENERATE AN UNDESIRABLE GLITCH WHEN AN
ATTEMPT IS MADE TO COPY RECORDS FROM ONE TRANSPORT
TO ANOTHER. THE WRHIE TRANSPORT GENERATES A MEANINGLESS
ONE-BIT FRAME IN THE MIDDLE OF THE INTER RECORD GAP
EACH TIME THE READ TRANSPORT RECEIVES THE READ COMMAND.
THIS GLITCH RENDERS PROGRAM U7 (EDIT DATA TAPE) USELESS
SINCE THE COPIED TAPE CONTAINS NUMEROUS PARITY ERRORS
WHEN READ BY IBM OR CDC MAGNETIC TAPE SYSTEMSM
2. THE SEL SOLUTIMN TO THIS PROBLEM IS TO KEEP THE
WRHIE STATUS ON THE TRANSPORT ENABLED WHILE THE READ
TRANSPORT IS READING. THEIR MODIFICATION WILL MEAN
THAT WRITE STATUS IS NOT REMOVED UNTIL A BACKSPACE OR
REWIND COMMAND IS RECEIVED. BECAUSE OF THIS CHANGE
ERRONEOUS DATA TAPES CANNOT BE EDITED UNTIL HRB-SINGER
MODIFIES EXECUTIVE EDITOR, FIND, AND PUT. IN ORDER THAT
THESE PROGRAMS COULD BE USED, IT WAS NECESSARY TO BYPASS
THE SEL MODIFICATION IN THE SYSTEM FOR THE [REDACTED]
WHEN OUR MACHINES ARE MODIFIED, WE WOULD ALSO HAVE TO
BYPASS THIS MODIFICATION.

COMNAVSECGRU ROUTING

SISS Zulu

G	GB	GC	GC1	GD	GF	GH	GX	GM	GP
GT	GX	G10	G12	G20	G30	G40	G50	G51	G52
G53	G521	G60	G61	G62	G63	G64			

NAVSECSTA ROUTING

N00	N01	N10	N20	N30	N40	N50	N60	N70	
N80	N90	NED							

290945Z DEC 68 1/219
FOLDERS

~~CONFIDENTIAL~~ ~~HANDLE VIA COMINT CHANNELS ONLY~~

~~CONFIDENTIAL~~ HANDLE VIA COMINT CHANNELS ONLY

3. AS A SOLUTION TO THE ABOVE DELAY, A MODIFICATION CAN EASILY BE ADDED TO SEL'S CHANGES WHICH WOULD ELIMINATE THE NEED FOR ANY SOFTWARE CHANGES AND AT THE SAME TIME ELIMINATE THE ERRONEOUS GLITCH. BRIEFLY, THIS MODIFICATION WILL KILL WRITE STATUS ON THE SELECTED MAGNETIC TAPE UNIT WHEN IT IS GIVEN A READ, ADVANCE END OF FILE, OR ADVANCE RECORD COMMAND. THIS MODIFICATION WILL REQUIRE 2 NEW GATES, 1 CABLE DRIVER, AND 1 CABLE TERMINATOR IN EACH MAGNETIC TAPE UNIT; AND 1 GATE, 2 INVERTORS, 1 CABLE DRIVER, AND 1 CABLE TERMINATOR IN THE TAPE CONTROL UNIT. FULL WIRING DETAILS OF THIS MODIFICATION CAN BE PROVIDED AFTER WE RECEIVE A COPY OF THE FOLLOWING SEL PRINTS:

A. 80020-6 (ALL SHEETS)

B. 80022-6 (ALL SHEETS)

4. REQUEST THAT THE ABOVE MODIFICATION BE APPROVED AND SEL'S CHANGES FOR OUR MACHINE BE EXPEDITED TO US SO THAT WE CAN USE U7 PROGRAM TO EDIT OUR DATA TAPES.

390

~~CONFIDENTIAL~~ HANDLE VIA COMINT CHANNELS ONLY

F. V. HELLRICH

3628

19 Dec 1968

X

NRL

XXXXX VIA NSG

TAPE TRANSPORT AND TAPE CONTROL UNIT MODIFICATION

REF: (A) YOUR MSG 090945Z DEC 68

1. COMPLETELY CORRECTED AND UPDATED PRINTS
(SEL 80020-6 ALL SHEETS AND 80022-6 ALL SHEETS)
ARE NOT YET AVAILABLE FROM SEL. THE BEST
ESTIMATE IS THAT THEY SHOULD BE AVAILABLE IN ABOUT TWO
WEEKS.
2. AS SOON AS A COPY OF THESE PRINTS BECOME
AVAILABLE, THEY WILL BE SENT TO YOU.
3. PLSE SUBMIT COMPLETE DETAILS AFTER
RECEIPT OF PRINTS SO THAT THE PROPOSED
MODIFICATION MAY BE REVIEWED.

~~CONFIDENTIAL~~