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# TECHNICAL MEMORANDUM

(TM Series)

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|                                         |                    |
|-----------------------------------------|--------------------|
| Utility Program Descriptions            | SYSTEM             |
| Milestone 11                            | DEVELOPMENT        |
| Update Bird Buffer - 1604 Transfer Tape | CORPORATION        |
| (SDELET)                                | 2500 COLORADO AVE. |
| By                                      | SANTA MONICA       |
| R. C. Wise                              | CALIFORNIA         |
| 26 March 1963                           |                    |
| Approved                                |                    |
| J. B. Munson                            |                    |

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#### IDENTIFICATION

- A. Title: Update Bird Buffer - 1604 Transfer Tape (SDELET),  
Ident K98, Mod AA
- B. Programmed: 1 March 1963,  
R. C. Wise, System Development Corporation
- C. Documented: 22 March 1963,  
R. C. Wise, System Development Corporation

#### PURPOSE

SDELET updates the Bird Buffer to 1604 Transfer tape by the deletion of obsolete files of information.

#### USAGE

##### A. Operating Procedure

1. Mount the transfer tape to be updated on unit 19.
2. Mount blank tape on unit 18.
3. Call SDELET via function card.
4. When requested, switch selections of units 18 and 19. The updated tape is now on unit 19.

##### B. Function Card

\*SDELET (VVVV) (RRR) or 0

1. (VVVV) is the BCD representation of the 4-digit vehicle number "VVVV". The parentheses signal MTCII that the parameter is not to be converted.
2. (RRR) is the BCD representation of the 3-digit integral part of the revolution number "RRR.R". All three digits must be present (leading zeros, if necessary). Any file with revolution of "VVVV"

less than "RRR" will be deleted from the tape. If the rev. parameter is 0, all files of "VVVV" will be deleted.

C. On-line Messages

1. SWITCH SELECTIONS OF TAPES 18 AND 19, PLEASE

This occurs when SDELET has produced the updated transfer tape on unit 18. The tape is positioned ready for use, and should replace the old transfer tape.

2. ERROR READING TAPE 19, IF YOU WISH TO CONTINUE SDELET, SET JUMP 2 BEFORE STARTING AND I WILL TRY SOMEMORE

A persistent error has occurred while reading the existing transfer tape. If Jump Key 2 is set, SDELET will try 4 more times to read the record. If Jump Key 2 is not set, SDELET will return to MTCII.

3. REMOVE TAPE 18, REPLACE WITH A NICE LONG, CLEAN, PARITY-ERROR-FREE TAPE AND HIT START

A persistent error has occurred while writing the new transfer tape. When restarted, SDELET will reinitiate the updating of the transfer tape.

D. Stops

All program stops are accompanied by an on-line message.

E. Tape Assignments

1. Existing transfer tape - channel 4/5, cabinet 2, unit 4 (tape 19).

2. Updated transfer tape - channel 5/6, cabinet 2, unit 3 (tape 18).

F. Results

The updated transfer tape is tape 18. The operator is requested to switch the selections between tapes 18 and 19.

## OPERATING DESCRIPTION

SDELET copies the existing transfer tape onto another tape ignoring any file of data whose header record contains a vehicle number equal to the input "VVVV" and a revolution number less than the input "RRR". If the rev. parameter is binary zero, all data pertaining to "VVVV" will be deleted.

Upon reaching the end of data on the existing transfer tape, SDELET requests the operator to exchange the tape unit selections of the new and old ("existing" above) transfer tapes.

## RESTRICTIONS

- A. Four decimal digits must be specified for vehicle and three for revolution. The exception is a zero revolution parameter.

## TIMING

It takes approximately 20 seconds per file (number of records per file less than 20) to update a transfer tape.

## STORAGE

|                         |                        |
|-------------------------|------------------------|
| A. Instructions         | 150 <sub>8</sub>       |
| B. Buffer and Constants | 21 <sub>8</sub>        |
| Total:                  | <hr/> 171 <sub>8</sub> |

## VALIDATION TEST

## A. Method

A simulated transfer tape was operated upon by SDELET under the control of various function cards. The resultant transfer tapes were listed and their contents compared with the expected results.

## B. Input Transfer Tape

The input transfer tape had two tracking messages per file. The file structure was as follows.

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| <u>FILE</u> | <u>VEHICLE</u> | <u>REVOLUTION</u> |
|-------------|----------------|-------------------|
| 1           | 2405           | 8                 |
| 2           | 2104           | 1                 |
| 3           | 2104           | 3                 |
| 4           | 2104           | 5                 |
| 5           | 2204           | 2                 |
| 6           | 2204           | 6                 |
| 7           | 2304           | 8                 |
| 8           | 2204           | 4                 |

C. Tests

1. Test 1

a. Function card

\*SDELET (2104) (005)

b. Results

Files 2 and 3 were deleted.

2. Test 2

a. Function card

\*SDELET (2104) 0

b. Results

Files 2, 3, and 4 were deleted.

3. Test 3

a. Function card

\*SDELET (2404) (006)

b. Results

No files were deleted.

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4. Test 4

a. Function card

\*SDELET (2304) 0

b. Results

File 7 was deleted.

5. Test 5

a. Function card

\*SDELET (2204) (006)

b. Results

Files 5 and 8 were deleted.

6. Test 6

a. Function card

\*SDELET (2104) (003)

b. Results

File 2 was deleted.

7. Test 7

a. Function card

\*SDELET (2405) (009)

b. Results

File 1 was deleted.

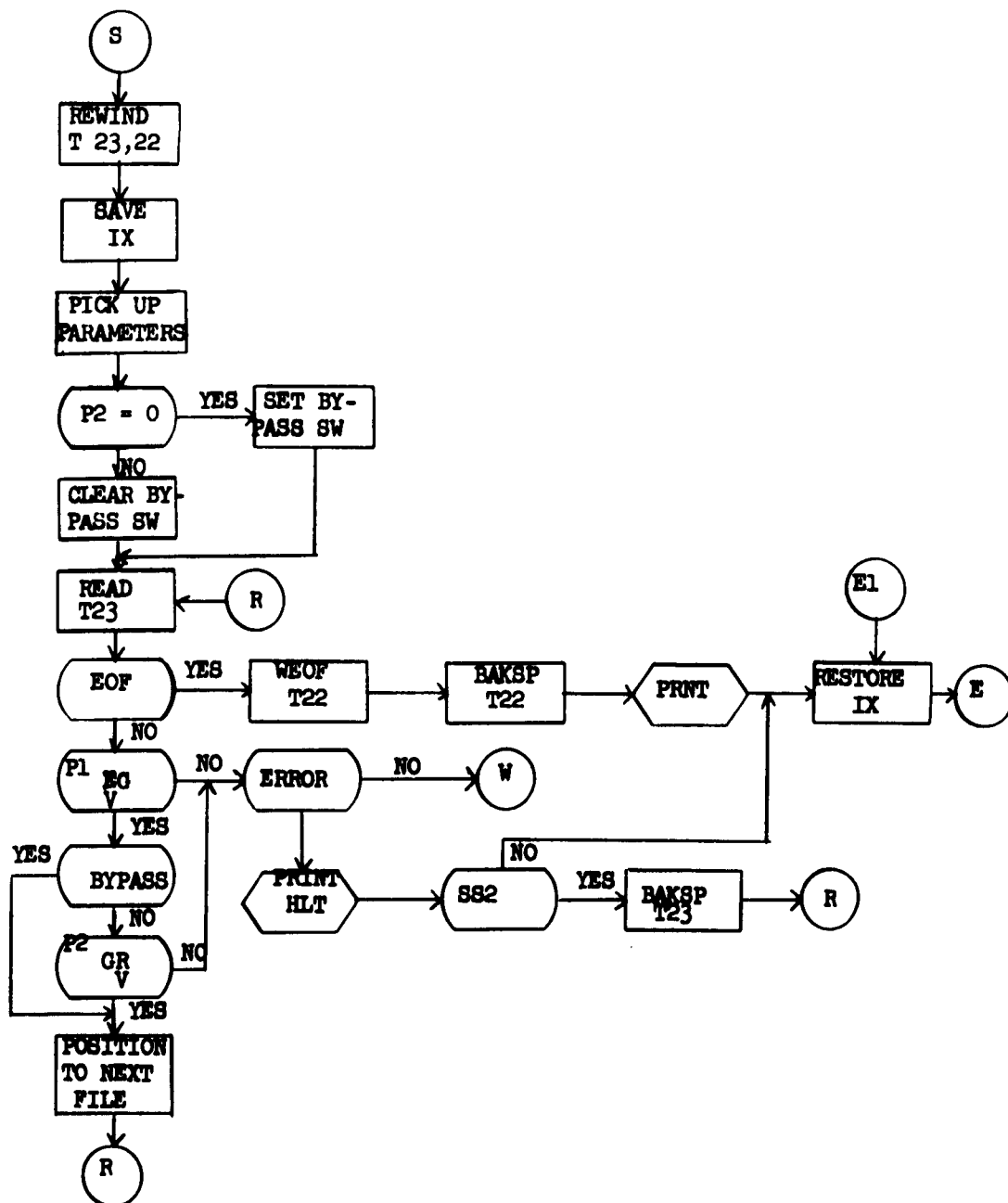
REFERENCES

- A. TM-891/001/00 and TM-891/001/00A - Combined Milestone 3-4 for the 1604 Augmentation Communication Programs, System Development Corporation.
- B. AFCPL reference number for TAPE is 75364.
- C. AFCPL reference number for SDELET is 75998.

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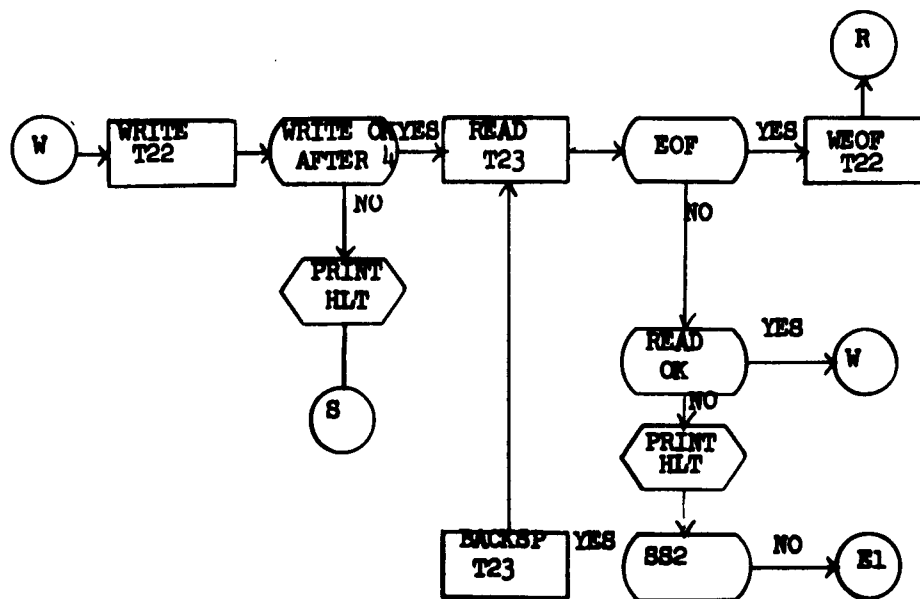
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(last page)

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WAGNER, I. I.  
WARSHAWSKY, S. B.  
WEST, G. D.  
WEST, G. P.  
WILSON, G. D.

24076A  
24093  
24097  
SUNNYVALE  
22116A  
24124

WINSOR, M. E.  
WINTER, J. F.  
WISE, R. C.  
WONG, J. P.  
ZUBRIS, C. J.

22156  
24117  
22085  
SUNNYVALE  
24075

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System Development Corporation,  
Santa Monica, California  
UTILITY PROGRAM DESCRIPTIONS MILESTONE 11  
UPDATE BIRD BUFFER - 1604 TRANSFER TAPE  
(SDELET).  
Scientific rept., TM(L)-715/050/00, by  
R. C. Wise. 26 March 1963, 7p.  
(Contract AF 19(628)-1648, Space Systems  
Division Program, for Space Systems  
Division, AFSC)

Unclassified report

DESCRIPTORS: Programming (Computers).  
Satellite Networks.

Reports that SDELET (Update Bird Buffer -  
1604 Transfer Tape) updates the Bird

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Buffer to 1604 Transfer tape by the  
deletion of obsolete files of  
information.

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