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GROUP 4
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NUMBER 72-5T02-4 (THIS IS A CONTINUATION OF 72-5T02-2)

TITLE STP III SPECIAL TEST REPORTS
ELECTRICAL AND ELECTRONIC SYSTEMS (U)

MODEL NO. VS-133A CONTRACT NO. AF 04(642)-289

ISSUE NO. _______ ISSUED TO

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PREPARED BY STP III Electronic Test Operations Group

SUPERVISED BY G. E. Bird - Test Operator, Electronic Systems

APPROVED BY B. P. Pratt - Minuteman Project Test Engineer

APPROVED BY W. L. Gale, Chief Test Operator (DATE)

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VOL. NO. 0F-72-5102-3

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NUMBER  T2-5102-3 SECTION K

SECTION TITLE  CHECKOUT OF REACT TAPE 2-001

SPECIAL TEST REPORT ST-58

PREPARED BY  R. Jungemann  9-13-63
R. Jungemann - Test Engineer

SUPERVISED BY  J. Bird  9-13-63
J. Bird - Test Operator

APPROVED BY  H. F. McMahon  9-19-63
H. F. McMahon - Autonetics - Test Requestor

APPROVED BY  A. C. Bartol  9-19-63
A. C. Bartol

for  S. D. Krull - Minuteman Project Test Engineer

Robert Plath - Minuteman Engineering Manager

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1.0 REFERENCES

(a) TWG Bulletin No. 63-31-648-30-STP 123, August 21, 1963, "Request for Special Test to Checkout REACT Tape 2-001 at STP III."

(b) R2-14966, Vol. 5, Section K, "Checkout of REACT Tape 2-001 STP 58."

(c) Memo 2-5646-00-15, April 1, 1963, "Special Test Report Procedure."

2.0 NOMENCLATURE

ACO Assembly and Checkout
BES Boeing Test Support
CO Character Output
GAC Guidance and Control
LV Launch Facility
MTE Missile Targeting Equipment
REACT Rapid Evaluation and Correction Team
STP III Seattle Test Program Part III
VN Velocity Meter

3.0 PURPOSE

A REACT 2-001 Tape has been developed for use with the C-24 MTE for fault verification and isolation on Wing II thru Wing V... G&C systems. The tape maintains the general format of the Wing II Operational Flight Tape with the additional function of giving as much system status information as possible. The purpose of this test was to prove system compatibility between the REACT 2-001 Tape, REACT recording equipment and a complete and operating weapon system.
4.0 SUMMARY

The checkout of the REACT 2-001 Tape was conducted at STP III on August 27 and 28, 1963. Three test runs were made using the REACT 2-001 Tape to bring the system up to Strategic Alert. Recordings were made at various times during the Start-up and in Strategic Alert to record information sent out by the computer via the character output lines. The data was analysed by Automatics representatives and the REACT 2-001 Tape was found to be compatible with the operating weapon system.

5.0 CONFIGURATION

The test set-up for the STP III LF is shown on Drawing 25-40999-1, "REACT Tape 2-001 Checkout STP III (Test Only)." Recordings were made using the ACO 372 Launch Events Recorder, REACT 105 Signal Conditioner and the REACT 100 Breakout Box. Back-up recordings were made in parallel using the BTS 151 system.

6.0 RESULTS

The weapon system was sequenced through start-up using the C-24, REACT 2-001 Tape and Wing II Simulated Targeting Tape for a normal run, short run and modified long run. Recordings were made of the computer outputs on the CO lines during the readout of No-Go data, G&G Test results, Calibrate Mode (C11) results and VM Bias Cycle results during start-up and in Strategic Alert.

The five hour normal run revealed no incompatibilities between the program and hardware. It did indicate that the Delta M check which compares cold storage "q" values with calculated "q" values during the VM Calibrate Mode had failed. This failure was because of the known inaccuracy of the "q" values in cold storage.

During the short run two short addendum tapes were used, one to shorten the VM calibration and the other to purposely induce No-Go's into the system so that the ability of the REACT Tape 2-001 to operate correctly in a No-Go situation could be verified. The addendum tape produced the system No-Go's as planned, and the REACT Tape correctly processed and identified them.

7.0 CONCLUSIONS

The REACT 2-001 Tape is compatible with the REACT recording equipment and a complete and operating weapon system.

8.0 RECOMMENDATIONS

The REACT 2-001 Tape can be used for fault verification and isolation in the weapon system. A copy of this tape should be provided for STP III for special tests and troubleshooting.
CONFIGURATION DATA - EXPLANATION OF

This Appendix to the test report identifies the equipment used in this test and designates the configuration to the Figure A level. This Appendix also lists committed configurations and Operational Base configurations for the same Figure A items.

Specifically, the first column lists the Figure A's. The second column headed "60-60" shows a Baseline part number and a short history of ICP's that created a part number change. The purpose of this listing is to allow the reader to identify any equipment differences that might exist between STP III and an Operational Base. It should be noted that, if no difference exists, configuration history may not be shown in the "60-60" column. The column headed "STP III" lists the part number of the Figure "A" that existed during this test plus any Design Change Verification (DCV) that was installed in the Figure A. If the conduct of the test requires the sequential incorporation of changes, only the highest part number will be shown and the reader is referred to the body of the report for further information concerning equipment configuration during the test.

The column headed "60-60A" lists part numbers of the Figure "A"s located at an Operational Base as identified in the most recent issue of Air Force Exhibit 60-60A. The Operational Base is identified in the lower left hand corner of the tab run pages. The use of Exhibit 60-60A as a source of Operational Base configuration in order to compare the configurations of STP III and the Operational Bases is directed by CCN 902 to the -209 contract.

The part number information contained in Exhibit 60-60A and abstracted to this Appendix should not be heavily relied upon since 60-60A does not report the as-delivered configurations and change incorporation information is delayed considerably from the time the work is actually done at the Base.

The "Remarks" column contains supplemental information that may be helpful to the reader. In particular, the DCV's are related to ECP's if such a relationship exists.

In scanning the equipment list, the reader will note that some STP III part numbers differ from "60-60" and/or "60-60A". This is occasioned principally by the fact that STP III has some unique equipment; however, the Figure "A" is the same. (Some equipment, notably Procedure "A" ACO equipment and environmental control equipment, require no configuration control records.) Should the reader require additional information in these ostensibly discrepant areas, application should be made to the originator of this report. Column listings left blank indicate that there is no source information for that Figure "A".
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