CONFIGURATION ITEM VERIFICATION

REVIEW (CIVR) VALIDATION REPORT

TM	C SPECIFICATION	ON	NO. S1408
REV:			
COMPILED: R. UZZO	CHECKED:	APPD:	SHEET 2 OF 5
TITLE: Configuration	Item Verification Revi	ew CIVR	

I GENERAL INFORMATION

- a) CONTRACTOR - - - TECHNICAL MATERIEL CORPORATION 700 Fenimore Road

 Mamaroneck, New York 10543
- b) CONTRACT ORDER NUMBER- - DAAB07-81C-1108
 ITEM NO. 0006AB for item 0002
- POST TRIGGER GENERATOR ASSEMBLY
 P/O AN/TPX-46
 DRAWING NO. SM-D-586746
 NSN 5895-00-199-9685

(EQUIPMENTS OF ESTABLISHED DESIGN)

- d) FIRST ARTICLE - - STOCK NO. REPRESENTED BY 001
 AND 002.
- e) FIRST ARTICLE FABRICATED AT:

TECHNICAL MATERIEL CORPORATION 700 FENIMORE ROAD MAMARONECK, NEW YORK 10543

II REFERENCE DATA:

- a) MIL-P-11268K (ARMY)
 MIL-STD-252B PAGES 15, 16, 17 (PRINTED WIRING BOARD)
 MIL-STD-105D
 MIL-M-13231A
 MIL-STD-454
- b) LIST OF PROPOSED SOURCES OF STANDARD ITEMS
- C) STATEMENT OF COMPLIANCE
- d) GOVERNMENT FURNISHED DRAWINGS
- e) AMP SPECIAL INDUSTRIES BULLETIN 703-3
- f) TMC SPECIFICATION S1394
- g) SMA 595922 REQUIREMENTS FOR CIRCUIT CARD ASSEMBLIES

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1. PURPOSE:

TO ASSURE THAT THE PARTS, MATERIALS AND PROCESSES USED IN SM-D-586746 ASSEMBLY ARE THOSE SPECIFIED ON THE GOVERNMENT FURNISHED DRAWINGS OR SPECIFICATIONS.

2. COMPLIANCE

ALL COMPONENTS USED IN THE MANUFACTURE OF SM-D-586746 (POST TRIGGER GENERATOR ASSEMBLY) MEET THE REQUIREMENTS STATED ON DRAWING PL SM-B-586746. FOR EACH COMPONENT USED A CERTIFICATE OF COMPLIANCE IS AVAILABLE ALONG WITH TMC'S PURCHASE ORDER ON ALL MATERIALS.

3. INCOMING MATERIAL CONTROL PROCEDURES

ALL MATERIAL IS COMPARED WITH THE RECEIVING REPORT. VERIFICATIONS OF VENDOR, QUANTITIES, PART NUMBERS AND ACCURACY OF CERTIFICATES OF COMPLIANCE IS REVIEWED.

BEFORE MATERIALS ARE ISSUED ON THE PRODUCTION FLOOR A SAMPLING TEST OF MATERIALS IS PERFORMED.

3. a. PRINTED WIRING BOARD SM-D-586646 WAS INSPECTED IN ACCORDANCE WITH GOVERNMENT SUPPLIED DRAWINGS (SM-D-586646 SHEETS 1, 2 AND 3) ALSO MIL-STD-252B PAGES 15, 16 AND 17.

RESISTORS R1 and R2 HAVE BEEN INSPECTED USING THE INSPECTION METHOD (REF MIL-STD-105) TMC STANDARD $_{\mbox{\scriptsize QA}}$ 3008.

CAPACITORS C1, C2, C3 and C4 HAVE BEEN INSPECTED, EMPLOYING THE SAME METHOD AS STATED ABOVE.

M21097/15-13 (P1) CONNECTOR WAS INSPECTED, USING AS A GUIDE AMP SPECIAL INDUSTRIES PRODUCT BULLETIN 703-3 PRINTED CIRCUIT & ELECTRONIC PACKAGING PRODUCTS.

CONNECTOR SM-C-586461 WAS INSPECTED IN ACCORDANCE WITH THE GOVERNMENT SUPPLIED DRAWING SM-C-586461

ALL THE INTERGRADED CIRCUTES U1 THROUGH U15 WERE EXAMINED, USING THE INSPECTION METHOD (MIL STANDARD 105) TMC STANDARD QA 3008, AND MIL STANDARD 454 REQUIREMENT 64.

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4. ASSEMBLING PROCEDURE

ALL COMPONENT PARTS FOR THE (POST TRIGGER GENERATOR ASSEMBLY) ARE ASSEMBLED AS PER DRAWING SM-D-586746. ALL COMPONENTS ARE HAND SOLDERED, IN ACCORDANCE WITH MIL STD 454 REQUIREMENT 5 AND THE METHOD OF ASSEMBLY CONFORMS WITH "GENERAL REQUIREMENTS FOR CIRCUIT CARD ASSEMBLIES" SM-A-595922.

5. MARKING PROCESS

MARKING PROCESS CONFORMS TO MIL-M-13231A, AS NOTED ON ASSEMBLY DRAWING SM-D-5864746, NOTE 4.

6. CONFORMAL COATING

CONFORMAL COATING PROCESS CONFORMS TO SM-A-587204 AND TMC SPECIFICATION S1394.

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			THE TECHNICAL MATERIEL CORPORATION 700 FENIMORE ROAD
			MAMARONECK, NEW YORK 10543
			DATE
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FOR THE	POST TRI	GGER GENERATOR	ASSEMBLY (SMD5	86746)	

7. CONTRACTOR TESTING

FIRST ARTICLE APPROVAL CONTRACTOR TESTING WAS PERFORMED JANUARY 20, 1983 FOR THE POST TRIGGER GENERATOR ASSEMBLY SMD586746. TEST SPECIFICATION SMA635374 WAS USED AS A GUIDE FOR TESTING. NO DISCREPANCIES WERE FOUND IN PERFORMING THE REQUIRED TESTS. THE FOLLOWING ARE SPECIFIC REPLIES OR ANSWERS TO THE QUESTIONS ASKED IN THE TEST SPECIFICATIONS.OUTLINED IN THE FOLLOWING PARAGRAPHS ARE THE SMA635374 PARAGRAPH NUMBERS WHERE AN ANSWER IS NECESSARY.

SMA635374 PARAGRAPH NUMBERS

- $3.2.2 \overline{RTA2} TEST$
- 3.2.2.1 MEASURED BETWEEN OUTPUTS 19 AND 18 IS A SHORT CIRCUIT (1 OHM MAX)
- 3.2.3 ST MODE 4 ENABLE
- 3.2.3.1 MEASURED BETWEEN OUTPUTS 22 AND 21 IS A SHORT CIRCUIT (1 OHM MAX)
- 3.2.4 DATA LOCKOUT ENABLE, DATA LOCKOUT
- 3.2.4.2 OUTPUT PIN 3 MEASURES A HIGH LEVEL.
- 3.2.4.3 OUTPUT PIN 6 MEASURES A WAVEFORM WHICH GOES LOW AT THE (TE) OF THE PULSE AT INPUT PIN 16

OUTPUT PIN 6 MEASURES A WAVEFORM WHICH GOES HIGH AT THE (LE) OF THE PULSE AT INPUT PIN 10.

- 3.2.5.3 OUTPUT PIN 38 MEASURES A PULSE WITH THE FOLLOWING CHARACTERISTICS
 POLARITY IS POSITIVE
 PULSE WITH IS .05uS TO 1.5uS
 AMPLITUDE IS 1.0 VOLT MINIMUM
 NEGATIVE OVERSHOOT IS 2.0 VOLTS MAX
 POSITIONED WITHIN 0.5uS OF THE (LE)
 OF THE PULSE AT INPUT PIN 10
- 3.2.5.5 OUTPUT PIN 38 MEASURES A PULSE WITH THE FOLLOWING CHARACTERISTICS
 POSITION 460 ± 20uS BEFORE THE (LE) OF THE PULSE AT INPUT PIN 10

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- 3.2.6 (MODE 4 + TEST TARGET) ENABLE TEST
- 3.2.6.2 OUTPUT PIN 24 MEASURES A HIGH LEVEL
- 3.2.6.4 OUTPUT PIN 24 MEASURES A LOW LEVEL

END OF TEST RESULTS