

QUALITY ASSURANCE PROVISIONS (QAP)

(DARCOM-R 702-10)

1 COMMAND AGENCY **U. S. ARMY TANK AUTOMOTIVE RESEARCH, DEVELOPMENT & ENGINEERING CENTER
PICATINNY ARSENAL, NJ 07808-5008**

2 THESE QAPS FORM PART OF DRAWING/SPECIFICATION **12987844** AS SPECIFIED IN THE CONTRACT
INSPECTION SHALL BE CONDUCTED AS SPECIFIED HEREIN AND IN ACCORDANCE WITH REFERENCED DOCUMENTS

PART I - LIST OF APPLICABLE DOCUMENTS

DRAWINGS

12987844 SWITCH, PRESSURE, HOT GAS

STANDARDS NONE

SPECIFICATIONS

SAE J513 REFRIGERATION TUBE FITTINGS, GENERAL SPECIFICATIONS
MIL-DTL-22759 WIRE, ELECTRICAL, POLYTETRAFLUOROETHYLENE/POLYAMIDE INSULATED
MIL-W-22759 WIRE, ELECTRICAL, FLUOROPOLYMER-INSULATED COPPER OR COPPER ALLOY
A-A-59133 CLEANING COMPOUND, HIGH PRESSURE (STEAM) CLEANER

PART II - QUALITY PROVISIONS

1 **RESPONSIBILITY FOR INSPECTION** UNLESS OTHERWISE SPECIFIED IN THE CONTRACT OR PURCHASE ORDER, THE CONTRACTOR IS RESPONSIBLE FOR THE PERFORMANCE OF ALL INSPECTION REQUIREMENTS (EXAMINATIONS AND TESTS) AS SPECIFIED HEREIN EXCEPT AS OTHERWISE SPECIFIED IN THE CONTRACT OR PURCHASE ORDER. THE CONTRACTOR MAY USE HIS OWN OR ANY OTHER FACILITIES SUITABLE FOR THE PERFORMANCE OF THE INSPECTION REQUIREMENTS SPECIFIED HEREIN UNLESS DISAPPROVED BY THE GOVERNMENT. THE GOVERNMENT RESERVES THE RIGHT TO PERFORM ANY OF THE INSPECTIONS SET FORTH IN THIS SPECIFICATION WHERE SUCH INSPECTIONS ARE DEEMED NECESSARY TO ENSURE SUPPLIES AND SERVICES CONFORM TO PRESCRIBED REQUIREMENTS.

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REVISIONS

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9 QAP FOR SWITCH, PRESSURE, HOT GAS		MIL-DTL-22759	ORIG CONC ID 12987	CAGE CODE 15285
9 SUBMITTED BY BARNES & RENECHE, INC.			<i>Kevin J. ...</i>	
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PART II - QUALITY PROVISIONS (CONTINUED)

2 RESPONSIBILITY FOR COMPLIANCE ALL ITEMS SHALL MEET ALL REQUIREMENTS OF REFERENCED DRAWINGS SPECIAL PACKAGING INSTRUCTIONS AND SPECIFICATIONS THE INSPECTION SET FORTH IN THIS QAP SHALL BECOME A PART OF THE CONTRACTOR'S OVERALL INSPECTION SYSTEM OR QUALITY PROGRAM THE ABSENCE OF ANY INSPECTION REQUIREMENTS IN THIS QAP SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ENSURING THAT ALL PRODUCTS OR SUPPLIES SUBMITTED TO THE GOVERNMENT FOR ACCEPTANCE COMPLY WITH ALL REQUIREMENTS OF THE CONTRACT SAMPLING INSPECTION AS PART OF MANUFACTURING OPERATIONS IS AN ACCEPTABLE PRACTICE TO ASCERTAIN CONFORMANCE TO REQUIREMENTS, HOWEVER, THIS DOES NOT AUTHORIZE SUBMISSION OF KNOWN DEFECTIVE MATERIAL EITHER INDICATED OR ACTUAL NOR DOES IT COMMIT THE GOVERNMENT TO ACCEPT DEFECTIVE MATERIAL.

3. GENERAL PROVISIONS

3.1 CLASSIFICATION OF CHARACTERISTICS THERE ARE THREE CLASSES OF CHARACTERISTICS COVERED IN THIS QAP THESE ARE CRITICAL CHARACTERISTICS MAJOR CHARACTERISTICS AND MINOR CHARACTERISTICS AS DEFINED HEREIN

3.1.1 CRITICAL CHARACTERISTIC A CRITICAL CHARACTERISTIC IS A CHARACTERISTIC THAT JUDGMENT AND EXPERIENCE INDICATE THAT IF NONCONFORMING IS LIKELY TO RESULT IN HAZARDOUS OR UNSAFE CONDITIONS FOR INDIVIDUALS USING MAINTAINING OR DEPENDING UPON THE PRODUCT, OR A CHARACTERISTIC THAT JUDGMENT AND EXPERIENCE INDICATE IS LIKELY TO PREVENT PERFORMANCE OF THE TACTICAL FUNCTION OF A MAJOR END ITEM SUCH AS A TANK, LAND VEHICLE MISSILE AIRCRAFT ARTILLERY, OR OTHER MAJOR WEAPON SYSTEM

3.1.2 MAJOR CHARACTERISTIC A MAJOR CHARACTERISTIC IS A CHARACTERISTIC THAT IF NONCONFORMING IS LIKELY TO RESULT IN FAILURE OR TO REDUCE MATERIALLY THE USABILITY OF THE UNIT OF PRODUCT FOR ITS INTENDED PURPOSE

3.1.3 MINOR CHARACTERISTIC A MINOR CHARACTERISTIC IS A CHARACTERISTIC THAT IF NONCONFORMING IS NOT LIKELY TO REDUCE MATERIALLY THE USABILITY OF THE UNIT OF PRODUCT FOR ITS INTENDED PURPOSE, OR IS A DEPARTURE FROM ESTABLISHED STANDARDS HAVING LITTLE BEARING ON THE EFFECTIVE USE OR OPERATION OF THE UNIT

3.2 WORKMANSHIP ALL MANUFACTURING PROCESSING AND ASSEMBLY SHALL BE PERFORMED AS PROVIDED ON THE APPLICABLE DRAWING THE PARTS OR COMPONENTS IN THEIR FINISHED STATE SHALL BE CLEAN AND FREE OF BURRS SHARP EDGES, UNBLENDED RADII, SURFACE DEFECTS, CRACKS, CHIPS, DIRT GREASE, OIL (EXCEPT WHERE SPECIFICALLY REQUIRED), RUST, FOREIGN MATTER OR ANY EVIDENCE THAT WOULD INDICATE NEGLIGENCE OR POOR WORKMANSHIP DURING PART PRODUCTION THAT WOULD ULTIMATELY RENDER THE SYSTEM UNSUITABLE FOR ITS INTENDED PURPOSE

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PART II - QUALITY PROVISIONS (CONTINUED)

3.3 CERTIFICATION PROVISIONS

3.3.1 CERTIFICATE OF CONFORMANCE (COC). A CERTIFICATE OF CONFORMANCE IS REQUIRED FOR MILITARY STANDARD AND COMMERCIAL ITEMS. WHEN A CERTIFIED TEST REPORT IS NOT REQUIRED FOR MATERIAL AND PROCESS SPECIFICATION REQUIREMENTS, A COC SUPPORTED BY INSPECTION AND TEST DATA, MATERIAL ANALYSIS, OR CERTIFICATION FROM THE RAW MATERIAL PRODUCER OR PROCESSOR SHALL BE MADE AVAILABLE TO THE GOVERNMENT FOR SPECIFICATIONS COVERING RAW MATERIAL, PROCESSED MATERIAL, AND PROCESSES. THE CONTRACTOR SHALL MAKE THE COC AVAILABLE TO THE GOVERNMENT PRIOR TO OR WITH THE REQUEST TO PERFORM ACCEPTANCE INSPECTION APPROVAL BY THE GOVERNMENT. THIS IS IN ADDITION TO, AND NOT IN LIEU OF, ANY RIGHTS OF THE GOVERNMENT UNDER THIS CONTRACT OR LAW. A COC MAY BE USED AS AN ELEMENT INCIDENT TO, BUT SHALL NOT BE USED AS THE SOLE BASIS FOR, GOVERNMENT ACCEPTANCE OF CONTRACT ITEM(S), UNLESS SO INDICATED IN THE TECHNICAL DOCUMENTATION OR CONTRACT. AS A MINIMUM, THE COC SHALL CONTAIN THE FOLLOWING:

A. NAME OF COMPANY AND DATE

B. CONTRACT NUMBER OR PURCHASE ORDER NUMBER, NATIONAL STOCK NUMBER AND DRAWING NUMBER

C. COMPLETE NOMENCLATURE OF SUPPLIES TOGETHER WITH LOT NUMBER OR OTHER IDENTIFICATION. THE QUANTITY IN EACH LOT OR SHIPMENT SHALL BE GIVEN

D. A STATEMENT, AS FOLLOWS, CERTIFYING THAT A MATERIAL MEETS ALL REQUIREMENTS OF THE CONTRACT:

THE UNDERSIGNED, INDIVIDUALLY, AND AS THE AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR, WARRANTS AND REPRESENTS THAT ALL THE INFORMATION SUPPLIED ABOVE IS TRUE AND ACCURATE. THE MATERIAL COVERED BY THIS CERTIFICATE CONFORMS TO ALL CONTRACT REQUIREMENTS (INCLUDING BUT NOT LIMITED TO THE DRAWINGS AND SPECIFICATIONS). THE ANALYSES APPEARING HEREIN ARE TRUE AND ACCURATE ANALYSES AND THIS CERTIFICATE IS MADE FOR THE PURPOSE OF INDUCING PAYMENT AND WITH KNOWLEDGE THAT THE INFORMATION AND CERTIFICATION MAY BE USED AS A BASIS FOR SUCH PAYMENT.

E. SIGNATURE AND TITLE OF CERTIFYING OFFICIAL.

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PART II - QUALITY PROVISIONS (CONTINUED)

4 FIRST ARTICLE INSPECTION

4.1 SUBMISSION UNLESS OTHERWISE SPECIFIED A FIRST ARTICLE SAMPLE CONSISTING OF THREE (3) HOT GAS PRESSURE SWITCHES SHALL BE SUBMITTED FOR INSPECTION AND APPROVAL IN ACCORDANCE WITH THE TERMS OF THE CONTRACT. THE SAMPLE ITEMS WILL BE SUBJECTED TO ANY OR ALL OF THE QUALITY CONFORMANCE INSPECTIONS LISTED IN PART III OF THIS QAP, AND ALL OF THE PERFORMANCE TESTS LISTED BELOW. IN ADDITION, THE SAMPLE MAY ALSO BE INSPECTED FOR COMPLIANCE WITH ANY OR ALL OF THE REQUIREMENTS OF THE APPLICABLE DRAWING(S) AND SPECIFICATION(S)

<u>CLASS</u>	<u>CHARACTERISTIC</u>	<u>INSPECTION METHOD</u>
MAJOR		
A	TEMPERATURE	501
B	HUMIDITY	502
C	ATMOSPHERIC PRESSURE	503
D	ELEVATION	504
E	SAND AND DUST	505
F	SALT FOG	506
G	FUNGUS	507
H	VIBRATION	508
I	ROAD SHOCK	509
J	GUN FIRING SHOCK	510
K	BALLISTIC SHOCK	511
L	ATTITUDE	512
M	BURST PRESSURE	513
N	CLEANING SPRAY	514
O	WEIGHT	515
P	CONTACT RATING	516
Q	DIELECTRIC STRENGTH	517
R	POWER SUPPLY	518
S	ELECTROMAGNETIC INTERFERENCE/ COMPATIBILITY (EMI/EMC)	519

4.2 REJECTION IF ANY SAMPLE ITEM FAILS TO COMPLY WITH ANY OF THE APPLICABLE REQUIREMENTS, THE FIRST ARTICLE SHALL BE REJECTED. THE GOVERNMENT RESERVES THE RIGHT TO TERMINATE INSPECTION UPON ANY FAILURE TO COMPLY WITH ANY OF THE REQUIREMENTS.

5 VERIFICATION VERIFICATION INSPECTION SHALL CONSIST OF INSPECTION OF ALL CHARACTERISTICS CONTAINED IN PART III "INSPECTION REQUIREMENTS" AND PART IV "CERTIFICATION REQUIREMENTS" OF THIS QAP. FAILURE TO COMPLY WITH THE CONFORMANCE CRITERIA SPECIFIED SHALL BE CAUSE FOR REJECTION OF THE LOT OR QUANTITY REPRESENTED. ALL OTHER QUALITY CHARACTERISTICS NOT SPECIFICALLY LISTED HEREIN ARE SUBJECT TO CONTROL UNDER THE CONTRACTOR'S QUALITY PROGRAM OR INSPECTION SYSTEM.

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PART II - QUALITY PROVISIONS (CONTINUED)

5.1 LOT FORMATION. THE TERM "LOT" IS DEFINED AS A HOMOGENEOUS COLLECTION OF UNITS OF PRODUCT FROM WHICH A REPRESENTATIVE SAMPLE IS DRAWN OR WHICH IS INSPECTED 100 PERCENT TO DETERMINE CONFORMANCE WITH APPLICABLE REQUIREMENTS. UNITS OF PRODUCT SELECTED FOR INSPECTION SHALL REPRESENT ONLY THE LOT FROM WHICH THEY ARE DRAWN AND SHALL NOT BE CONSTRUED TO REPRESENT ANY PRIOR OR SUBSEQUENT QUANTITIES PRESENTED FOR INSPECTION. HOMOGENEITY SHALL BE CONSIDERED TO EXIST PROVIDED THE INSPECTION LOT HAS BEEN PRODUCED BY ONE MANUFACTURER, IN ONE UNCHANGED PROCESS USING THE SAME MATERIALS AND METHODS, IN ACCORDANCE WITH THE SAME DRAWINGS, SAME DRAWING REVISIONS, SAME SPECIFICATIONS AND SPECIFICATION REVISIONS. ALL MATERIAL SUBMITTED FOR INSPECTION IN ACCORDANCE WITH THIS SPECIFICATION SHALL COMPLY WITH THE HOMOGENEITY CRITERIA SPECIFIED HEREIN REGARDLESS OF THE TYPE OF INSPECTION PROCEDURE WHICH IS BEING APPLIED TO DETERMINE CONFORMANCE WITH REQUIREMENTS.

5.2 ATTRIBUTES SAMPLING INSPECTION. UNLESS OTHERWISE SPECIFIED, SAMPLING INSPECTION FOR QUALITY CONFORMANCE CHARACTERISTICS LISTED IN PART III SHALL BE IN ACCORDANCE WITH TABLE I BELOW USING INSPECTION LEVEL I FOR EACH MAJOR CHARACTERISTIC AND INSPECTION LEVEL II FOR EACH MINOR CHARACTERISTIC. SAMPLES SHALL BE SELECTED AT RANDOM SO AS TO BE REPRESENTATIVE OF THE LOT.

TABLE I - ATTRIBUTES SAMPLING INSPECTION

LOT SIZE	INSPECTION LEVELS	
	LEVEL I	LEVEL II
2 TO 8	*	5
9 TO 15	13	5
16 TO 25	13	5
26 TO 50	13	5
51 TO 90	13	7
91 TO 150	13	11
151 TO 280	20	13
281 TO 500	29	18
501 TO 1200	34	19

NOTE: THE ASTERISK INDICATES 100 PERCENT INSPECTION. NUMBERS UNDER INSPECTION LEVEL COLUMNS INDICATE SAMPLE SIZE. IF SAMPLE SIZE EXCEEDS LOT SIZE, PERFORM 100 PERCENT INSPECTION. REJECT THE LOT REPRESENTED IF ONE OR MORE NONCONFORMING CHARACTERISTICS ARE FOUND IN ANY SAMPLE FOR ANY LEVEL.

5.3 ALTERNATIVE VERIFICATION PROVISIONS. UNLESS OTHERWISE SPECIFIED, ALTERNATIVE VERIFICATION PROVISIONS SUCH AS STATISTICAL PROCESS CONTROL (PREFERRED), VARIABLES OR CONTINUOUS SAMPLING PLANS, MAY BE USED BY THE CONTRACTOR IN LIEU OF THE INSPECTION PROVISIONS CONTAINED HEREIN WHEN SUCH ALTERNATIVE(S) PROVIDE AN EQUIVALENT OR BETTER LEVEL OF QUALITY ASSURANCE, AND PROVIDED THEY HAVE BEEN DESCRIBED IN A WRITTEN PROPOSAL WHICH HAS BEEN APPROVED BY THE GOVERNMENT. ALL APPROVED ALTERNATIVE QUALITY CONFORMANCE PROVISIONS SHALL BE INCORPORATED INTO THE CONTRACTOR'S QUALITY PROGRAM OR INSPECTION SYSTEM.

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PART III - INSPECTION REQUIREMENTS

TABLE I - CLASSIFICATION OF QUALITY CONFORMANCE CHARACTERISTICS

<u>CLASS</u>	<u>CHARACTERISTICS</u>	<u>ZONE</u>	<u>CONFORMANC</u> <u>CRITERIA</u>	<u>INSPECTION METHOD</u>
CRITICAL	NONE			
MAJOR				
101	PERFORMANCE	2/C8	301	520
102	CONTACT RATING	2/B8	302	518
103	PROOF PRESSURE TEST	3/D5	303	521
104	DIELECTRIC STRENGTH	3/C5	304	517
105	POWER SUPPLY	3/C5	305	518
106	ELECTROMAGNETIC INTERFERENCE/COMPATIBILITY	3/B5	306	519
107	EXTERNAL LEAKAGE	3/D5	100%	522
108	2 63 DIMENSION	3/B3	I	SMTE
109	68 DIMENSION	3/A4	I	SMTE
MINOR				
202	WORKMANSHIP	...	II	VISUAL

TABLE II - SPECIAL SAMPLING INSPECTION.

301 PERFORMANCE. UNLESS OTHERWISE SPECIFIED THE CONTRACTOR SHALL SELECT ONE (1) SAMPLE UNIT FROM EACH PRODUCTION LOT AT RANDOM AND FUNCTION THE SAMPLE TO PROVE OPERATION AS DEFINED IN PART V, PARA 520 FAILURE OF THE SAMPLE SHALL BE CAUSE FOR REJECTION OF THE REPRESENTED PRODUCTION QUANTITY

302 CONTACT RATING. UNLESS OTHERWISE SPECIFIED THE CONTRACTOR SHALL SELECT ONE (1) SAMPLE UNIT FROM EACH PRODUCTION LOT AT RANDOM AND SUBMIT THE SAMPLE UNIT TO THE PROVISIONS DEFINED IN PART V, PARA 518 FAILURE OF THE SAMPLE SHALL BE CAUSE FOR REJECTION OF THE REPRESENTED PRODUCTION QUANTITY

303 PROOF PRESSURE TEST. UNLESS OTHERWISE SPECIFIED THE CONTRACTOR SHALL SELECT ONE (1) SAMPLE UNIT FROM EACH PRODUCTION LOT AT RANDOM AND SUBMIT THE SAMPLE UNIT TO THE PROVISIONS DEFINED IN PART V, PARA 521 FAILURE OF THE SAMPLE SHALL BE CAUSE FOR REJECTION OF THE REPRESENTED PRODUCTION QUANTITY

304 DIELECTRIC STRENGTH. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL SELECT ONE (1) SAMPLE UNIT FROM EACH PRODUCTION LOT AT RANDOM, AND SUBMIT THE SAMPLE UNIT TO THE PROVISIONS DEFINED IN PART V, PARA 517 FAILURE OF THE SAMPLE SHALL BE CAUSE FOR REJECTION OF THE REPRESENTED PRODUCTION QUANTITY

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PART III - INSPECTION REQUIREMENTS (CONTINUED)

TABLE II - SPECIAL SAMPLING INSPECTION (CONTINUED)

305 POWER SUPPLY. UNLESS OTHERWISE SPECIFIED THE CONTRACTOR SHALL SELECT ONE (1) SAMPLE UNIT FROM EACH PRODUCTION LOT AT RANDOM AND SUBMIT THE SAMPLE UNIT TO THE PROVISIONS DEFINED IN PART V, PARA 519. FAILURE OF THE SAMPLE SHALL BE CAUSE FOR REJECTION OF THE REPRESENTED PRODUCTION QUANTITY.

308 ELECTROMAGNETIC INTERFERENCE/COMPATIBILITY. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL SELECT ONE (1) SAMPLE UNIT FROM EACH PRODUCTION LOT AT RANDOM AND SUBMIT THE SAMPLE UNIT TO THE PROVISIONS DEFINED IN PART V, PARA 519. FAILURE OF THE SAMPLE SHALL BE CAUSE FOR REJECTION OF THE REPRESENTED PRODUCTION QUANTITY.

PART IV - CERTIFICATION REQUIREMENTS

THE CERTIFICATION PROVISIONS OF PARAGRAPH 3.3 SHALL APPLY. CERTIFICATIONS ARE REQUIRED FOR THE FOLLOWING:

NUMBER	CHARACTERISTIC	CERTIFICATION METHOD	TEST DATA TO COMPLY WITH
401	WIRING (MIL-W-22758 OR MIL-DTL-22789)	COC	DWG 12987844, NOTE 4.1
402	CLEANING AGENTS (A-A-59133)	COC	DWG 12987844, NOTE 4.2.2.4
403	PRESSURE PORT (SAE J513)	COC	DWG 12987844, ZONE 1/A5

PART V - TEST METHODS AND PROCEDURES

501 REF. FAT - MAJOR CHARACTERISTIC - A - TEMPERATURE. THE TEMPERATURE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844, NOTE 4.2.9.

502 REF. FAT - MAJOR CHARACTERISTIC - B - HUMIDITY. THE HUMIDITY TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844, NOTE 4.2.10.

503 REF. FAT - MAJOR CHARACTERISTIC - C - ATMOSPHERIC PRESSURE. THE ATMOSPHERE PRESSURE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844, NOTE 4.2.11.

504 REF. FAT - MAJOR CHARACTERISTIC - D - ELEVATION. THE ELEVATION TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844, NOTE 4.2.12.

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PART V - TEST METHODS AND PROCEDURES (CONTINUED)

- 505 REF. FAT - MAJOR CHARACTERISTIC - E - SAND AND DUST THE SAND AND DUST TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 2 13
- 506 REF. FAT - MAJOR CHARACTERISTIC - F - SALT FOG. THE SALT FOG TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 2 14
- 507 REF. FAT - MAJOR CHARACTERISTIC - G - FUNGUS. THE FUNGUS TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 2 15
- 508 REF. FAT - MAJOR CHARACTERISTIC - H - VIBRATION. THE VIBRATION TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 2 16
- 509 REF. FAT - MAJOR CHARACTERISTIC - I - ROAD SHOCK. THE ROAD SHOCK TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 2 17
- 510 REF. FAT - MAJOR CHARACTERISTIC - J - GUN FIRING SHOCK. THE GUN FIRING SHOCK TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 2 18
- 511 REF. FAT - MAJOR CHARACTERISTIC - K - BALLISTIC SHOCK. THE BALLISTIC SHOCK TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 2 19
- 512 REF. FAT - MAJOR CHARACTERISTIC - L - ATTITUDE. THE HOT GAS PRESSURE SWITCH SHALL BE CAPABLE OF OPERATING WITHIN THE ATTITUDE REQUIREMENTS OF DWG 12987844 NOTE 4 2 20
- 513 REF. FAT - MAJOR CHARACTERISTIC - M - BURST PRESSURE. THE BURST PRESSURE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 2 22
- 514 REF. FAT - MAJOR CHARACTERISTIC - N - CLEANING SPRAY. THE CLEANING SPRAY TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 2 24
- 515 REF. FAT - MAJOR CHARACTERISTIC - O - WEIGHT. THE WEIGHT SHALL BE MEASURED TO MEET THE REQUIREMENTS OF DWG 12987844 NOTE 4 2 5
- 516 REF. FAT - MAJOR CHARACTERISTIC - P - AND MAJOR CHARACTERISTIC 102 - CONTACT RATING. THE CONTACT RATING TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 2 4
- 517 REF. FAT - MAJOR CHARACTERISTIC - Q - AND MAJOR CHARACTERISTIC 104 - DIELECTRIC STRENGTH. THE DIELECTRIC STRENGTH TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 4
- 518 REF. FAT - MAJOR CHARACTERISTIC - R - AND MAJOR CHARACTERISTIC 108 - POWER SUPPLY. THE POWER SUPPLY TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 5

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PART V - TEST METHODS AND PROCEDURES (CONTINUED)

519 ~~REF. FAT - MAJOR CHARACTERISTIC - 3 - AND MAJOR CHARACTERISTIC 106 - ELECTROMAGNETIC INTERFERENCE/COMPATIBILITY~~ THE ELECTROMAGNETIC INTERFERENCE/COMPATIBILITY (EM/EMC) TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 B

520 ~~REF. MAJOR CHARACTERISTIC 101 - PERFORMANCE~~ THE PERFORMANCE VERIFICATION SHALL MEET THE REQUIREMENTS OF DWG 12987844 NOTE 4 2 1

521 ~~SEE MAJOR CHARACTERISTIC 103 - PROOF PRESSURE TEST~~ THE PROOF PRESSURE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH DWG 12987844 NOTE 4 2 2 1

522 ~~REF. MAJOR CHARACTERISTIC 107 - EXTERNAL LEAKAGE~~ THE AMOUNT OF EXTERNAL LEAKAGE SHALL BE MEASURED ONEACH UNIT PRODUCED (100% INSPECTION) UNDER THE CONDITION AND METHOD DESCRIBED ON DWG 12987844 NOTE 4 2 2 3

PART VI - NOTES

1 ~~INSPECTION EQUIPMENT~~ THE CONTRACTOR IS REQUIRED TO FURNISH ALL EQUIPMENT TO PERFORM INSPECTIONS AND TESTS STIPULATED HEREIN AND ANY OTHERS REQUIRED FOR ACCEPTANCE WHEN SPECIFIED IN THE CONTRACT OR PURCHASE ORDER DESIGNS OF SPECIAL TEST EQUIPMENT (STE) OR EQUIPMENT DESIGNED BY THE CONTRACTOR TO BE USED FOR MAJOR AND CRITICAL CHARACTERISTICS, SHALL BE SUBMITTED TO THE GOVERNMENT TECHNICAL AGENCY FOR APPROVAL PRIOR TO USE WHEN THE CONTRACTOR CHOOSES TO USE STANDARD MEASURING TESTING EQUIPMENT (SMTE) FOR MAJOR AND CRITICAL CHARACTERISTICS IN LIEU OF A GAGE CALLED OUT IN THE QAP, A DESCRIPTION OF THE SET-UP AND PROCEDURE SHALL BE SUBMITTED TO THE GOVERNMENT TECHNICAL AGENCY PRIOR TO USE EQUIPMENT AND PROCEDURES USED FOR MINOR CHARACTERISTICS SHALL BE APPROVED BY THE LOCAL GOVERNMENT QUALITY ASSURANCE REPRESENTATIVE (QAR)

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