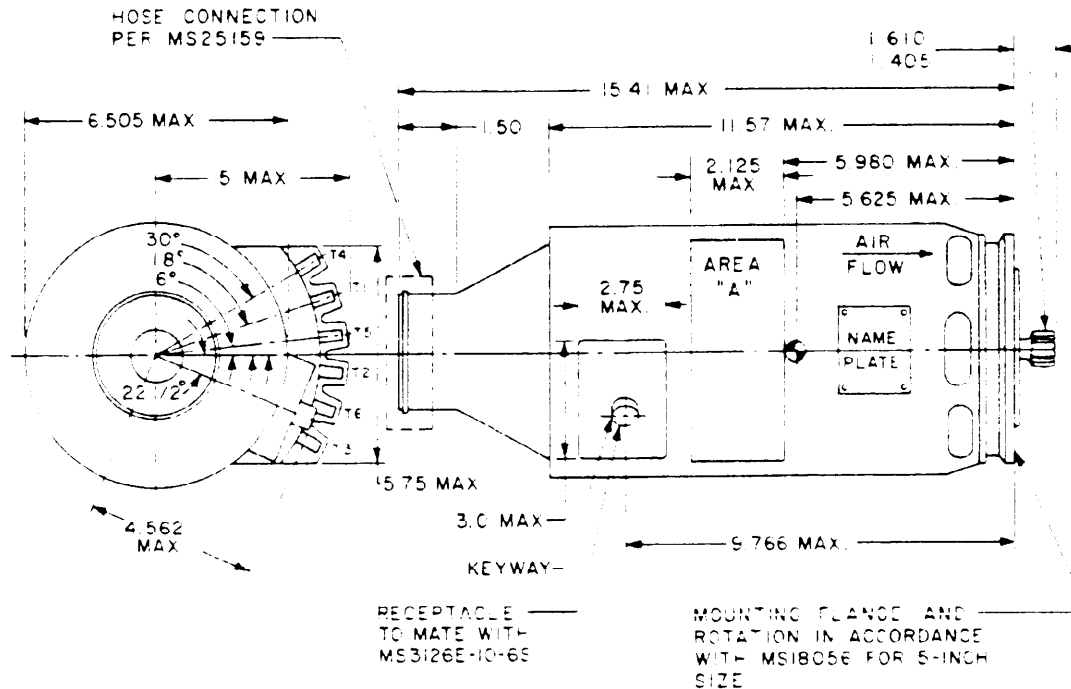


FED SUP CLASS
6115

LOAD TERMINALS IN AREA "A"
SIX 5/16-24 UNF-3A STUDS,
EACH TO ACCOMMODATE ONE
MS90415-5 NUT.

SHAFT CONFORMING TO MS14169
FOR 3/4-INCH SIZE. PLASTIC
BUSHING CONFORMING TO MS14169
FOR 3/4-INCH SIZE SHALL BE
FURNISHED WITH GENERATOR



GENERATOR DATA	
RATED VOLTAGE	120/208
RATED OUTPUT, KVA	20
PHASES	3
SPEED RANGE, RPM	7600-8400
MAX SPEED FOR REGULATION, RPM	10000
OVERSPEED, RPM	1000
RATED POWER FACTOR	0.75 TO 1.0
EFFICIENCY, MIN AT RATED LOAD, PC	86%
MAX GENERATOR WEIGHT, POUNDS	53
OVERHUNG MOMENT, MAX, IN-POUNDS	290
FREQUENCY, HERTZ	380-420
SHEAR, INCH-POUNDS	1000-1400
FLEXIBLE DRIVE	REQUIRED
GEN ROTOR MOMENT OF INERTIA	WR-C3 LB-FT ²

GENERATOR
P/N MS90304-3
SUPERSEDES MS90304-1

(E) ENTIRE STANDARD REVISED

P.A. NAVY - A.S. Other Cost	TITLE GENERATOR SYSTEM, 20 KVA, 400 HERTZ, ALTERNATING CURRENT, INTEGRALLY EXCITED, BRUSHLESS, AIRCRAFT, SELF-COOLED.	MILITARY STANDARD	
		MS90304(AS)	
PROCUREMENT SPECIFICATION MIL-G-21480	SUPERSEDES	SHEET	OF 9

DD FORM 672-1N

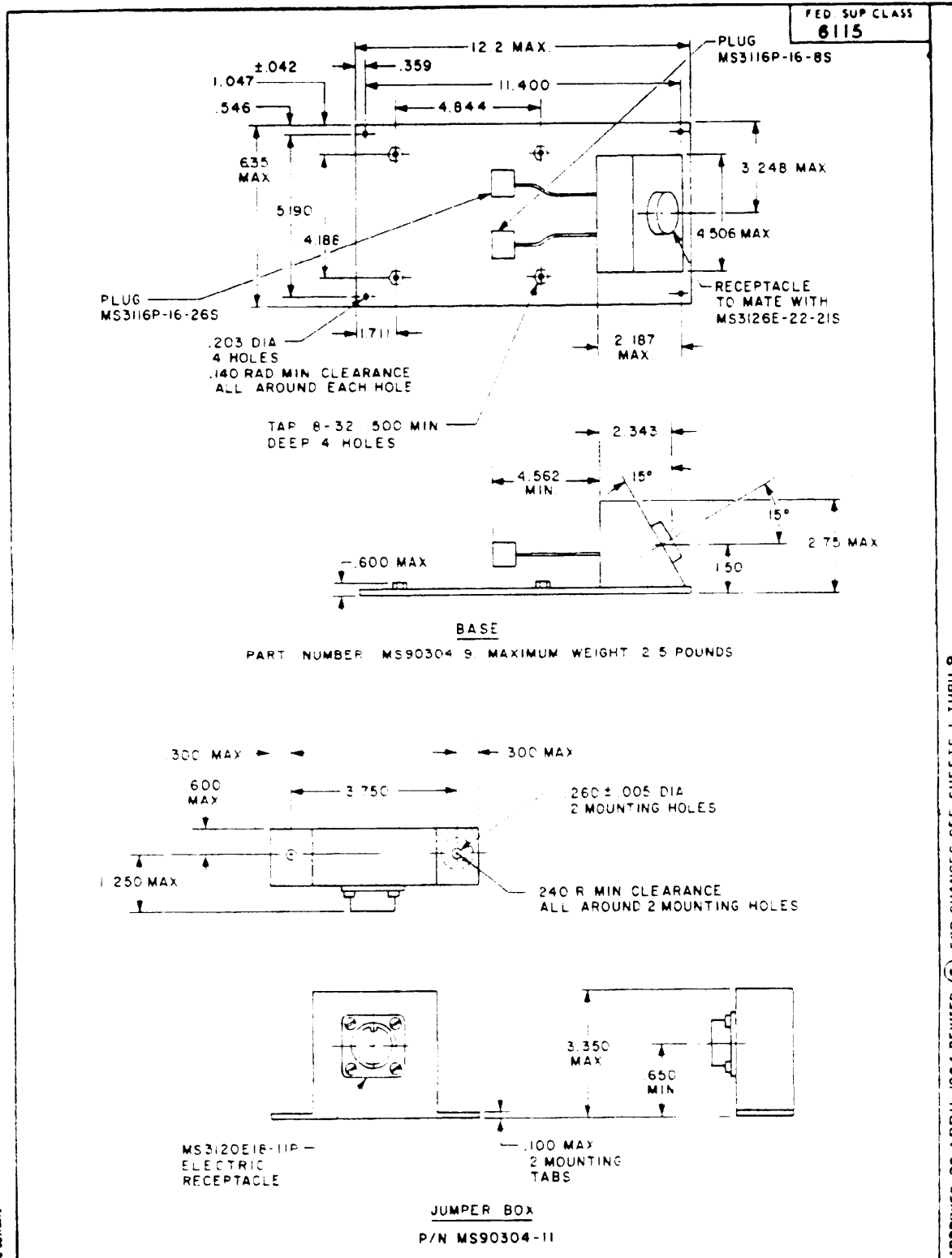
LIMITED COORDINATION

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PROJECT NO. 6115-N451

This standard has been approved by the NAVAL AIR SYSTEMS COMMAND
Department of the NAVY and the Department of the AIR FORCE
for use by the military departments and is required
to comply with this standard where suitable.

APPROVED 26 APRIL 1964 REVISED (A) 5 OCT. 1965 (B) 27 SEPT 1970 (C) 12 DEC 1975 (D) 10 NOV 1978 (E) 24 Sept 79



APPROVED 26 APRIL 1964 REVISED (E) FOR CHANGES SEE SHEETS 1 THRU 9

This standard has been approved by the NAVAL AIR SYSTEMS COMMAND Department of the NAVY and shall be used by all military activities as required. All other military activities are required to comply with this standard when feasible.

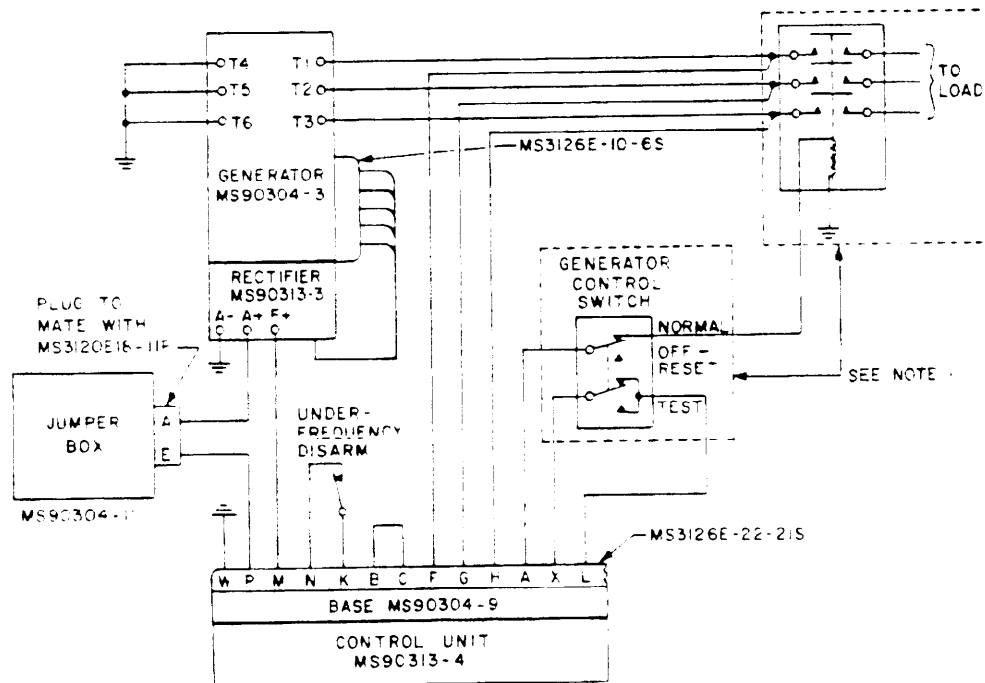
P.A. NAVY A.S. Other Cost	TITLE GENERATOR SYSTEM, 20 KVA, 400 HERTZ, ALTERNATING CURRENT, INTEGRALLY EXCITED, BRUSHLESS, AIRCRAFT, SELF-COOLED.	MILITARY STANDARD MS90304 (AS)
PROCUREMENT SPECIFICATION MIL-G-21480	SUPERSEDES:	SHEET 2 OF 9

DD FORM 672-1 N

LIMITED COORDINATION

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FED. SUP CLASS



TEST CIRCUIT FOR MS90304-10 SYSTEM

This military standard is approved by NAVAL AIR SYSTEMS COMMAND,
Department of the Navy and specified by
the following: All other military activities are required
to employ this standard where suitable.

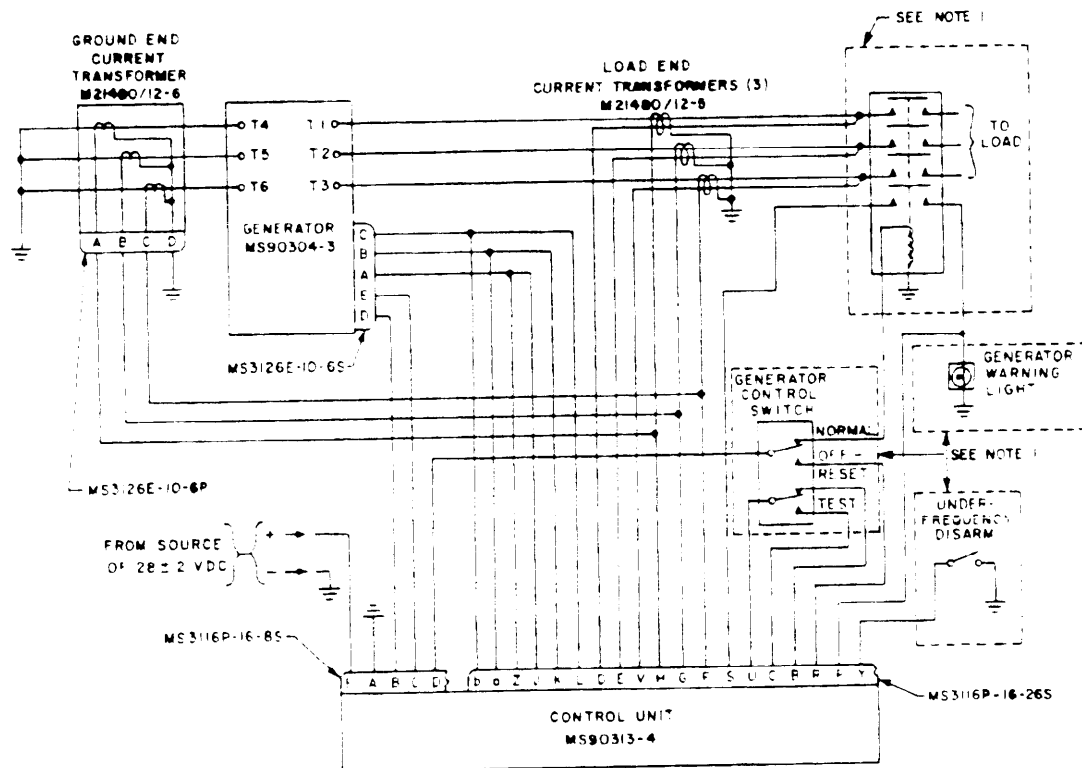
APPROVED 28 APRIL 1964 REVISED (E) FOR CHANGES SET SHEETS 1 THRU 9

P.A. NAVY - AS Other Cost	TITLE GENERATOR SYSTEM, 20 KVA, 400 HERTZ, ALTERNATING CURRENT, INTEGRALLY EXCITED, BRUSHLESS, AIRCRAFT, SELF-COOLED	MILITARY STANDARD MS90304(AS)
PROCUREMENT SPECIFICATION MIL-G-21480	SUPERSEDES	SHEET 3 OF 9

DD FORM 672-1 (Limited circulation)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO. 23071

FED. SUP CLASS
6115

TEST CIRCUIT FOR MS90304-20 SYSTEM

APPROVED 28 APRIL 1964 REVISED (E) FOR CHANGES SEE SHEETS 1 THRU 9

P.A. NAVY - AS Other Cust	TITLE GENERATOR SYSTEM, 20 KVA, 400 HERTZ. ALTERNATING CURRENT, INTEGRALLY EXCITED. BRUSHLESS, AIRCRAFT, SELF-COOLED	MILITARY STANDARD MS90304(AS)
PROCUREMENT SPECIFICATION MTB-G-21480	SUPERSEDES	SHEET 4 OF 9

REQUIREMENTS:

1. THE AIRCRAFT MANUFACTURER SHALL ALLOW CONNECTING LEAD LENGTH AND BLAST TUBE LENGTH FOR THE LIMITING GENERATOR DIMENSIONS SHOWN ON THIS DRAWING.
2. THE AIRCRAFT MANUFACTURER SHALL PROVIDE CONNECTING LEADS SHOWN
3. THE AIRCRAFT MANUFACTURER SHALL FURNISH MAXIMUM CONTINUOUS CURRENT AND LIMITING RESISTANCE VALUE FOR EACH INTERCONNECTING WIRE
4. THE AIRCRAFT MANUFACTURER SHALL ALLOW ADEQUATE CLEARANCE FOR INSTALLING AND REMOVING THE ITEMS SHOWN ON THIS STANDARD FROM THE AIRCRAFT
5. THE REQUIREMENTS OF MIL-G-24480 PERTAIN WITH THE FOLLOWING EXCEPTIONS

DELETE THE FOLLOWING PARAGRAPHS

[illegible]

3.1.3 - ADJ. GENERATOR. THE GENERATOR HOUSING SHALL BE MADE OF STEEL CONFORMING TO THE REQUIREMENTS OF FED-STD-88. THE SURFACE FINISH SHALL BE IN ACCORDANCE WITH QQ-F-14, CLASS D, TYPE 1.

3 - 1. DELETE AND ADD ENVIRONMENTAL REQUIREMENTS. THE SYSTEM SHALL MEET THE REQUIREMENTS OF MIL-STD-883C UNLESS OTHERWISE SPECIFIED BY THE INFORMATION SHEET.

TEMPERATURE AND ALTITUDE. THE GENERATOR SHALL MEET THE TEMPERATURE/ALTITUDE REQUIREMENTS OF FIGURE 1 OF THE SPECIFICATION SHEET WHILE OPERATING UNDER THE SPECIFIED CONDITIONS. THE CONTROL COMPONENTS SHALL OPERATE CONTINUOUSLY WHILE ADHERING TO THE TEMPERATURE/ALTITUDE REQUIREMENTS OF MIL-STD-883C, AND SHALL BE RE-EQUIPMENT

ALTITUDE FEET	INLET AIR TEMP DEGREES F	GENERATOR MAXIMUM CONTINUOUS LOAD - KVA	
		75% POWER FACTOR	100% POWER FACTOR
0-SEA LEVEL	40	28	30
0-SEA LEVEL	47	30	32
0-SEA LEVEL	55	32	34
0-SEA LEVEL	63	34	36
0-SEA LEVEL	71	36	38
10,000	20	28	30
15,000	15	28	30
20,000	10	28	30
25,000	-5	28	30
30,000	-10	28	30
35,000	-15	28	30
40,000	-20	28	30
45,000	-25	28	30

TABLE 1. GENERAL TEMPERATURE-ALTITUDE REQUIREMENTS, 1957-1958.

This military standard is approved by Naval Air Systems Command, Department of the Navy and is controlled by that command. All other military activities are covered by this standard where suitable.

APPROVED 28 APRIL 1954 REVISED (E) FOR CHANGES SEE SHEETS 1 THRU 9

P. A. NAVY - AS Other Cust	TITLE GENERATOR SYSTEM, 20 KVA, 400 HERTZ, ALTERNATING CURRENT, INTEGRALLY EXCITED, BRUSHLESS, AIRCRAFT, SELF-COOLED	MILITARY STANDARD
		MS90304 (AS)
PROCUREMENT SPECIFICATION MIL-GEN-11-1	SUPERSEDES	SHEET OF 9

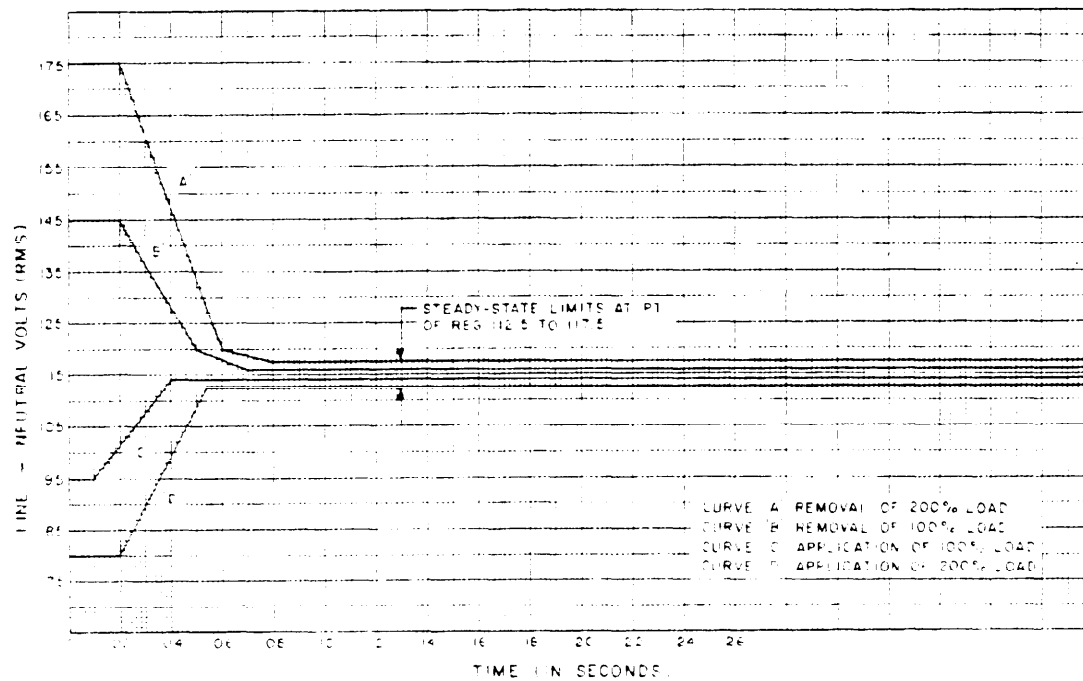
FED. SUP CLASS
6115

FIGURE 11. TRANSIENT AND STEADY-STATE VOLTAGE LIMITS UPON APPLICATION AND REMOVAL OF LOAD

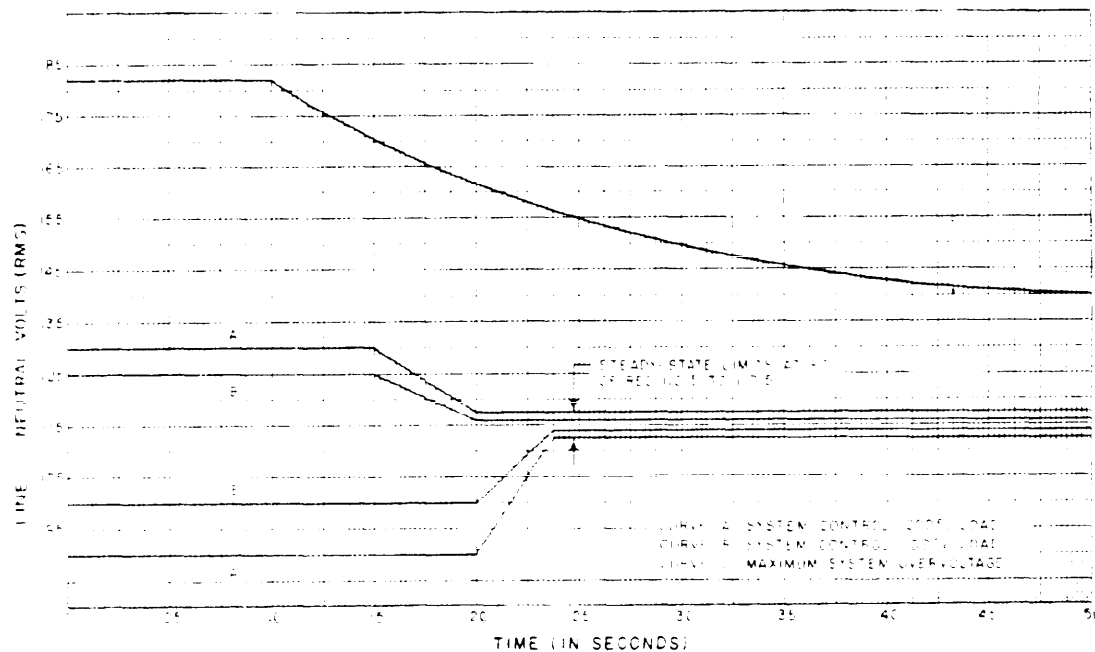


FIGURE 12. TRANSIENT AND STEADY-STATE VOLTAGE LIMITS UPON CLOSURE OF THE GENERATOR CONTROL SWITCH

P-A NAVY - AS Other Cust	TITLE GENERATOR SYSTEM, 20 KVA, 400 HERTZ, ALTERNATING CURRENT, INTEGRALLY EXCITED, BRUSHLESS, AIRCRAFT, SELF-CONTROLLED	MILITARY STANDARD
PROCUREMENT SPECIFICATION MIL-STD-1200	SUPERSEDES	MS90304 (AS) SHEET 6 OF 9

1. CHANG 1 CHANG 1 TO CHANG 1 OF THE SPECIFICATION SHEET

2. ALL THE UTILITY SYSTEM SHALL BE DESIGNED SO THAT FROM NORMAL OR ABNORMAL OPERATION THE UTILITY SYSTEM SHALL BE PROTECTED

3. ALL THE GENERATOR SHALL BE SELF-COOLING AND IN ADDITION SHALL BE PROVIDED WITH MEANS FOR INSTALLATION OF AN AIR INLET TUBE

4. CHANG 1 CHANG 1 TO 1000 HOURS TO 100 HOURS

5. CHANG 1 CHANG 1 TO 100 HOURS TO 1000 HOURS

6. ALL RECTIFIER ASSEMBLY IN THE MSC/ALC SYSTEM, THE GENERATOR SHALL BE PROVIDED WITH AN INTERNAL RECTIFIER ELECTROLYTE CONFORMING TO MSC/ALC 100 RECTIFICATION OF DCM OUTPUT TO THE GENERATOR EXCITER FIELD

7. CHANG 1 CHANG 1 TO 1000 HOURS

8. DELETE AND ADD RELIABILITY THE SYSTEM MTE DUTY CYCLE BETWEEN 10000 SHALL BE NOT LESS THAN 100 HOURS THIS FIGURE SHALL APPLY TO FAULTS WHICH WILL CAUSE SYSTEM OPERATION TO INTERRUPT FROM PERFORMANCE REQUIREMENT

9. CHANG 1 CHANG 1 TO 10000 HOURS

10. DELETE AND ADD WAVEFORM THE CREST FACTOR FOR EACH PHASE VOLTAGE WAVE FORM SHALL BE ≤ 1.5 AT FUND. HARMONIC SHALL EXCEED 1% OF THE FUNDAMENTAL

11. CHANG 1 CHANG 1 CONTINUOUS CAPABILITY TO 1000 MINIMUM CONTINUOUS

12. CHANG 1 CHANG 1 TO 10000 HOURS

13. DELETE AND ADD UNDERVOLTAGE UNDERVOLTAGE PROTECTION SHALL BE PROVIDED BY A STATIC ELEMENT WHICH FUNCTIONS TO DISCONNECT THE SYSTEM FROM THE LOAD BUS AND REENERGIZE THE GENERATOR WITHIN 10 SECONDS AFTER AN PHASE VOLTAGE (LINE-NEUTRAL) FALLS TO $0.9 \pm 5\%$ OF THE SYSTEM SHALL BE CAPABLE OF BEING RESET WITHIN 10 SECONDS AFTER THE LOWEST PHASE VOLTAGE EXCEEDS $1.0 \pm 5\%$

14. DELETE AND ADD UNDERCURRENT UNDERCURRENT PROTECTION SHALL BE PROVIDED BY A STATIC ELEMENT WHICH FUNCTIONS TO DISCONNECT THE SYSTEM FROM THE LOAD BUS WITHIN 10 SECONDS AFTER THE CURRENT EXCEEDS $1.0 \pm 5\%$ AFTER LITRAIR AUTOMATIC IS MANUAL RESET THE UNDERCURRENT PROTECTION SHALL BE $1.0 \pm 5\%$ AFTER LITRAIR AUTOMATIC IS MANUAL RESET THE SYSTEM SHALL BE CAPABLE OF BEING RESET WITHIN 10 SECONDS AFTER THE LOWEST PHASE VOLTAGE EXCEEDS $1.0 \pm 5\%$ SHALL NOT BE LESS THAN 10

15. DELETE AND ADD FEEDER FAULT THE MSC/ALC SYSTEM SHALL PROVIDE THE GENERATOR TO BE UNDERCURRENT AND DISCONNECTED FROM THE LOAD BUS WHEN THE FAULT CURRENT ON ANY PHASE IS $1.5 \pm 5\%$ AMPERES

16. DELETE AND ADD ELECTROMAGNETIC INTERFERENCE THE SYSTEM SHALL MEET THE REQUIREMENTS OF MIL-STD-1312, CLASS B, TYPE F, FOR THE OPERATOR AND CONTROL PERSONNEL EXCEPT THE TWO MICROWAVE TRANSMITTER CHARACTER SHALL BE REMOVED

17. ALL TRANSMISSION DATA SHALL BE SUPPLEMENTED WITH A MINIMUM 100 HOUR FAILURE FREE BENCH TEST BEFORE CONSIDERATION IS GIVEN TO INCORPORATING THE ITEM ON THE QUALIFIED PRODUCTS LIST

18. ALL THE GENERATOR SHALL BE SELF-COOLING NO EXTERNAL BLAST AIR PROVIDED

19. ALL THE GENERATOR SHALL BE SELF-COOLING NO EXTERNAL BLAST AIR PROVIDED

20. CHANG 1 CHANG 1 TO 10000 HOURS

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100. CHANG 1 CHANG 1 TO 10000 HOURS

APPROVED 20 APRIL 1964 REVISED E) FOR CHANGES SEE SHEETS 1 THRU 9

The military standard is approved by NAVAL AIR SYSTEMS COMMAND. Department of the Navy and the last to be active. All other military schools are not active. The standard where suitable.

P.A. NAVY - AS
Other Cust

TITLE

GENERATOR SYSTEM, 10 KVA, 400 HERTZ,
ALTERNATING CURRENT, INTEGRALLY EXCITED
BRUSHLESS, AIRCRAFT, SELF COOLED

PROCUREMENT SPECIFICATION
MIL-G-21480

SUPERSEDES

MILITARY STANDARD

MS90304 (AS)

SHEET 7 OF 6

PLATE NO. 20071

FED. SUP. CLASS

6115

DELETE AND ADD ELECTROMAGNETIC INTERFERENCE. THE SYSTEM SHALL BE SUBJECTED TO AN ELECTROMAGNETIC INTERFERENCE TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 204. THE INFORMATION SHALL BE REMOVED.

DELETE PART 11 AND ALL

DELETE AND ADD CONTROLS. THE SYSTEM SHALL BE SUBJECTED TO VIBRATION AND MAXIMUM VIBRIATION TESTS. THE LINEAR VIBRATION TEST SHALL BE IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 204. THE VIBRATION TEST SHALL NOT EXCEED 10 G RMS.

DELETE AND ADD SALE FOR CONTROL COMPONENTS. CONTROL COMPONENTS SHALL BE SUBJECTED TO A SALE FOR TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 204. THE DURATION OF THE TEST SHALL NOT EXCEED 10 HOURS. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS, THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100% LOAD, AND PROTECTIVE FUNCTIONS.

DELETE AND ADD OIL-SALT WATER INJECTION GENERATORS. THE GENERATOR SHALL BE SUBJECTED TO AN OIL-SALT WATER INJECTION TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 204. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS AND THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100% LOAD.

DELETE AND ADD SHOCK RESISTANCE. SYSTEM COMPONENTS SHALL BE SUBJECTED TO A SHOCK TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 204. THE INSTALLATION INSTRUCTIONS AND MOUNTING MUST BE REQUIRED BY PARAGRAPH 11.1.1. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS, THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100% LOAD, AND PROTECTIVE FUNCTIONS. MOUNTING MUST BE UNAFFECTED AND THE PACKAGE HOLDING THE UNIT SUITABLE FOR SHIPMENT. INSTRUCTIONS ARE TO BE SPECIFIED.

DELETE AND ADD TEMPERATURE. THE GENERATOR SHALL BE SUBJECTED TO A TEMPERATURE TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 204. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS AND THE EFFECTS OF APPLICATION AND REMOVAL OF RATED AND 100% LOAD.

DELETE AND ADD GENERATOR. THE GENERATOR AND RECTIFIER ASSEMBLY SHALL BE SUBJECTED TO A VIBRATION TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 204. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS AND THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100% LOAD.

DELETE AND ADD CONTROL COMPONENTS. CONTROL COMPONENTS SHALL BE SUBJECTED TO A SHOCK TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 204. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS, THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100% LOAD, AND PROTECTIVE FUNCTIONS.

DELETE AND ADD SHOCK. SYSTEM COMPONENTS SHALL BE SUBJECTED TO A SHOCK TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 204. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS, THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100% LOAD, AND PROTECTIVE FUNCTIONS. THERE SHALL BE NO FAILURE OF THE MOUNTING ATTACHMENTS AND THE UNIT MUST REMAIN IN PLACE AND NOT CREATE A HAZARDOUS WORKING PROCEDURE.

DELETE AND ADD SHOCK. SYSTEM COMPONENTS, EXCEPT THOSE TESTED UNDER PARAGRAPH 11.1.1, SHALL BE SUBJECTED TO A SHOCK TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 204. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS, THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100% LOAD, AND PROTECTIVE FUNCTIONS.

DELETE FIRST SENTENCE AND ADD ALL SYSTEM COMPONENTS EXCEPT THE GENERATOR SHALL BE SUBJECTED TO THE APPLICATION TESTS OF MIL-STD-883C, PART II, METHOD 204. AT THE COMPLETION OF THE TESTS THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS, THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100% LOAD, AND PROTECTIVE FUNCTIONS.

NOTE:

GENERATOR, CONTROLS, SWITCHES, WARNING LIGHTS, AND LINE CONTACTORS ARE TO BE FOR VIBRATION TESTING ONLY AND ARE NOT FURNISHED UNDER THIS DRAWING.

DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED. TOLERANCES: LINEAR DIMENSIONS: .001 IN.

APPROVED 28 APRIL 1964 REVISED E FOR CHANGE SEE SHEET'S 1 THRU 9

P A NAVY - AS Other Cust	TITLE GENERATOR SYSTEM, 20 KVA, 400 HERTZ, ALTERNATING CURRENT, INTEGRALLY EXCITED BRUSHLESS, AIRCRAFT SELF-CONTROLLED	MILITARY STANDARD MS90304(AS)
PROCUREMENT SPECIFICATION MIL-STD-883C	SUPERSEDES	SHEET 8 OF 9

FED. SUP CLASS
MS90304

IDENTIFICATION OF ITEM

ITEM	MILITARY PART NUMBER
FIELD-INSTALLED SYSTEM CONSISTS OF ONE GENERATOR, ONE RECTIFIER, ONE CONTROL UNIT, ONE BASE, AND ONE POWER BOX	MS90304-10
FACTORY-INSTALLED SYSTEM CONSISTS OF ONE GENERATOR, ONE CONTROL UNIT, THREE LEAD END CURRENT TRANSFORMERS, AND ONE GROUND END CURRENT TRANSFORMER	MS90304-11
GENERATOR	MS90304-12
RECTIFIER	MS90304-13
CONTROL UNIT	MS90304-14
BASE	MS90304-15
POWER BOX	MS90304-16
LEAD END CURRENT TRANSFORMER	MS90304-17
GROUND END CURRENT TRANSFORMER	MS90304-18

APPROVED 28 APRIL 1964 REVISED E. FOR CHANGES SEE SHEETS 1 THRU 9

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P. A. NAVY - AS
Other Cust

TITLE

GENERATOR SYSTEM, 10 KVA, 400 HERTZ,
ALTERNATING CURRENT - INTEGRALLY EXCITED,
WINDLESS

MILITARY STANDARD

MS90304 (AS)

PROCUREMENT SPECIFICATION
MIL-STD-140

SUPERSEDES

SHEET 9 OF 9