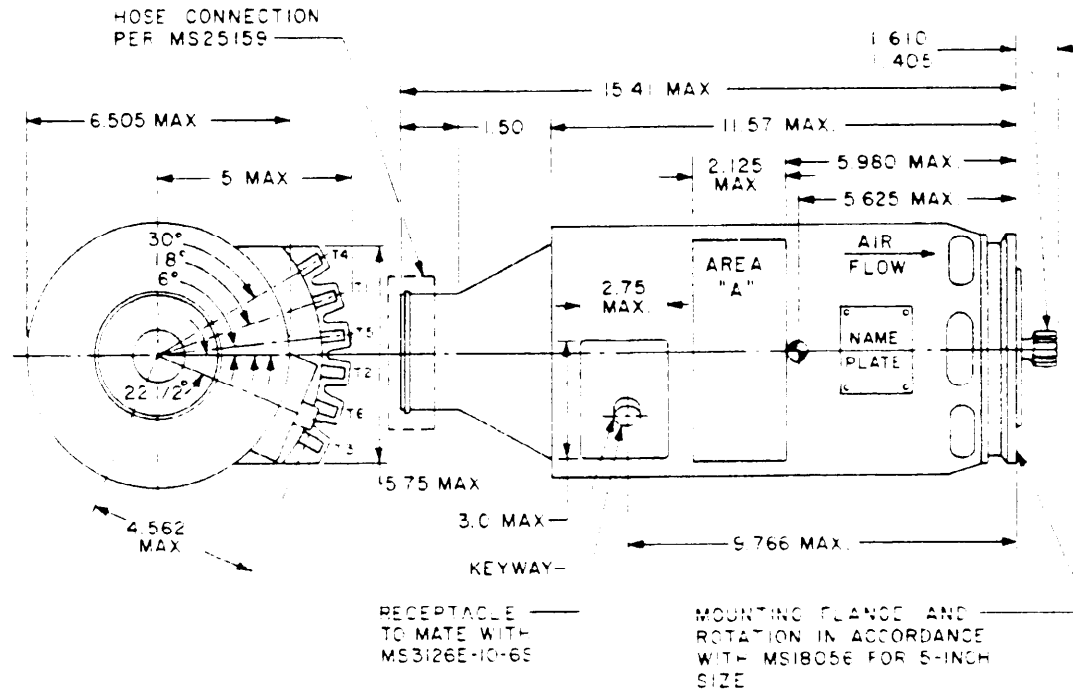


FED SUP CLASS
6115

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

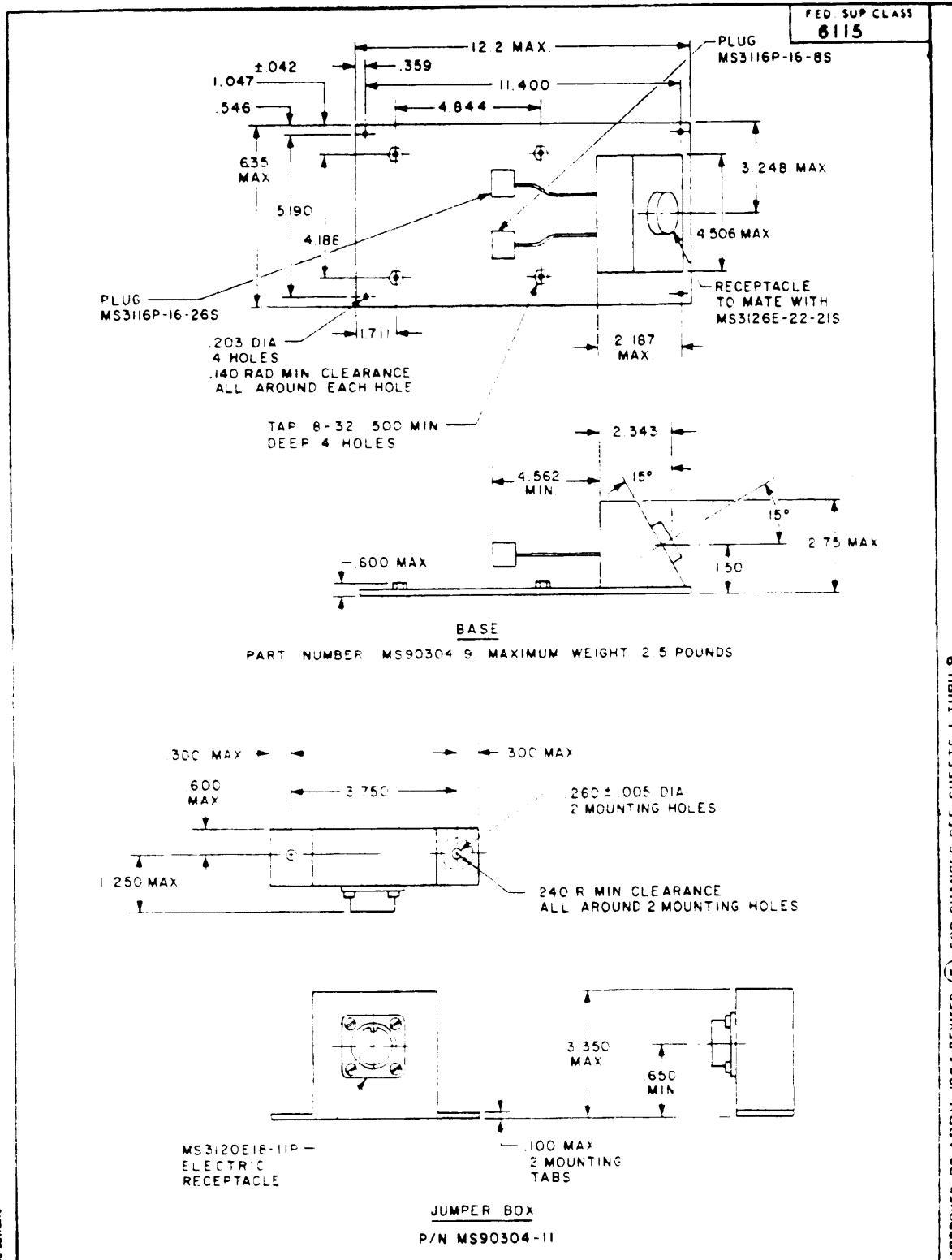
LIMITED COORDINATION

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.

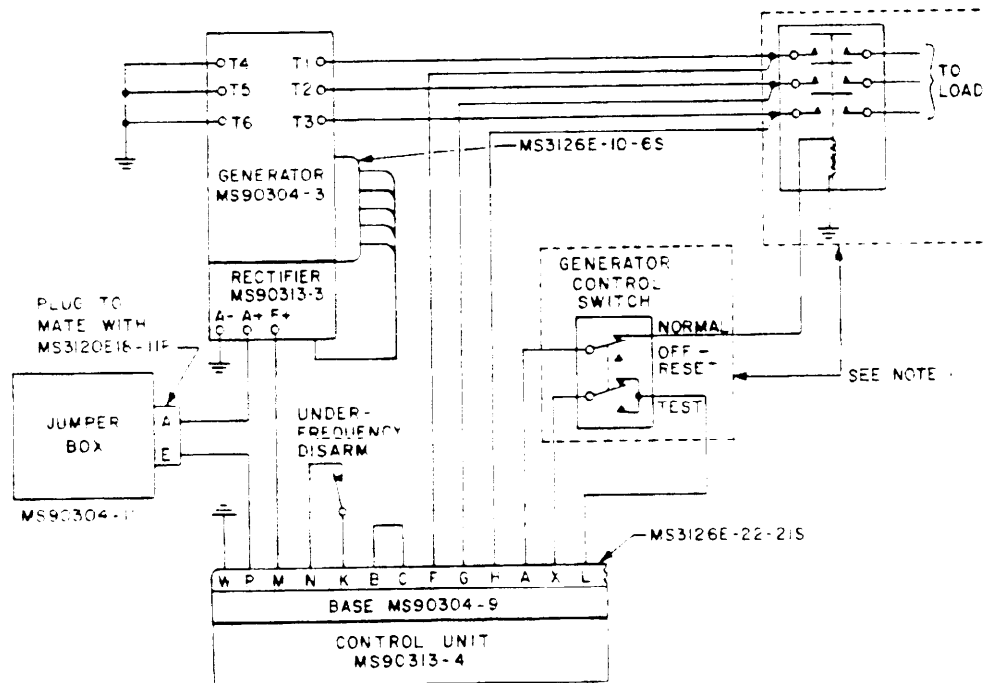
P.A. NAVY A.S. Other Cost	TITLE GENERATOR SYSTEM, 20 KVA, 400 HERTZ, ALTERNATING CURRENT, INTEGRALLY EXCITED, BRUSHLESS, AIRCRAFT, SELF-COOLED.	MILITARY STANDARD MS90304 (AS)
PROCUREMENT SPECIFICATION MIL-G-21480	SUPERSEDES:	SHEET 2 OF 9

DD FORM 672-1 N

LIMITED COORDINATION

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FED. SUP CLASS

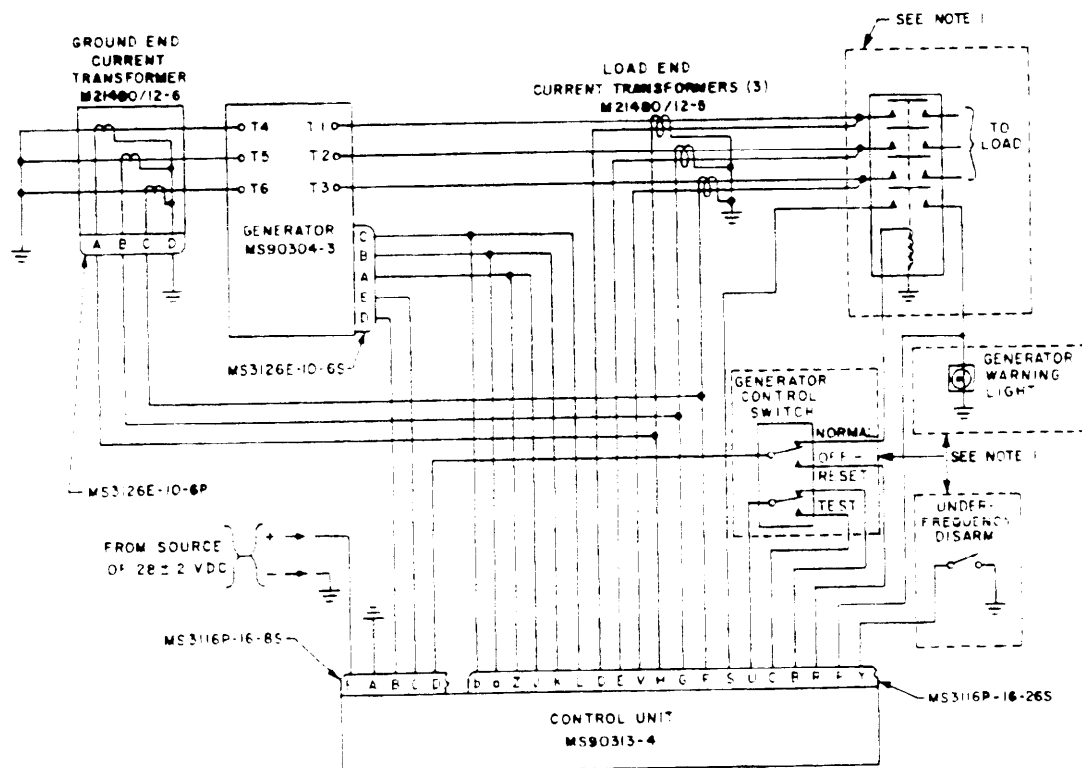


TEST CIRCUIT FOR MS90304-10 SYSTEM

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

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

DD FORM 672-1 (Limited coordination)
1 MAR 72

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO 23071

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

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-11480 PERTAIN WITH THE FOLLOWING EXCEPTIONS:

DELETE THE FOLLOWING PARAGRAPHS

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

3.3.3.4. ADD GENERATOR. THE GENERATOR HOUSING SHALL BE MADE OF STEEL CONFORMING TO THE REQUIREMENTS OF FED-STD-460. THE SURFACE FINISH SHALL BE IN ACCORDANCE WITH QQ-F-16, CLASS D, TYPE 1.

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

TEMPERATURE AND ALTITUDE. THE GENERATOR SHALL MEET THE TEMPERATURE-ALTITUDE REQUIREMENTS OF FIGURE 1 OF THE SPECIFICATION SHEET WHILE OPERATING UNDER THE SEVERE-COOLING CONDITION. THE CONTROL ELEMENTS SHALL OPERATE CONTINUOUSLY WHILE ADHERENT TO THE TEMPERATURE-ALTITUDE REQUIREMENTS OF MIL-STD-883C, TEST METHOD 2000, REQUIRMENT

ALTITUDE FEET	INLET AIR TEMP DEGREES F	GENERATOR MAXIMUM CONTINUOUS LOAD - KVA	
		75 POWER FACT	90% POWER FACT
0-500 FEET	40	28	30
0-500 LEVEL	40	30	31
0-500 LEVEL	40	31	32
0-500 LEVEL	40	32	33
0-500 LEVEL	40	33	34
5,000	20	24	26
5,000	20	26	28
5,000	20	28	30
5,000	20	29	31
5,000	20	30	32
5,000	20	31	33
5,000	20	32	34

TABLE 1. GENERAL TEMPERATURE-ALTITUDE REQUIREMENTS SET BY THE U.S. ARMY.

The military standard is approved by Naval Air Systems Command, Department of the Navy and is controlled by that activity. All other military activities are covered simply by the 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-COOL	MILITARY STANDARD MS90304 (AS)
PROCUREMENT SPECIFICATION M11-10-10-1-1	SUPERSEDES	SHEET OF 9

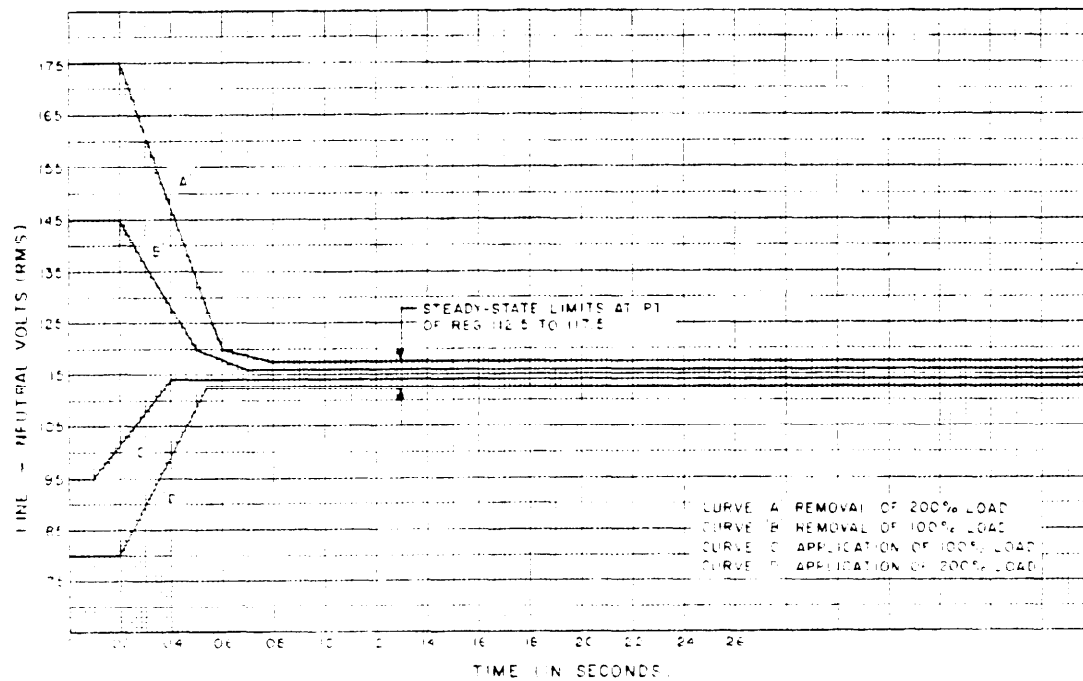
FED. SUP CLASS
6115

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

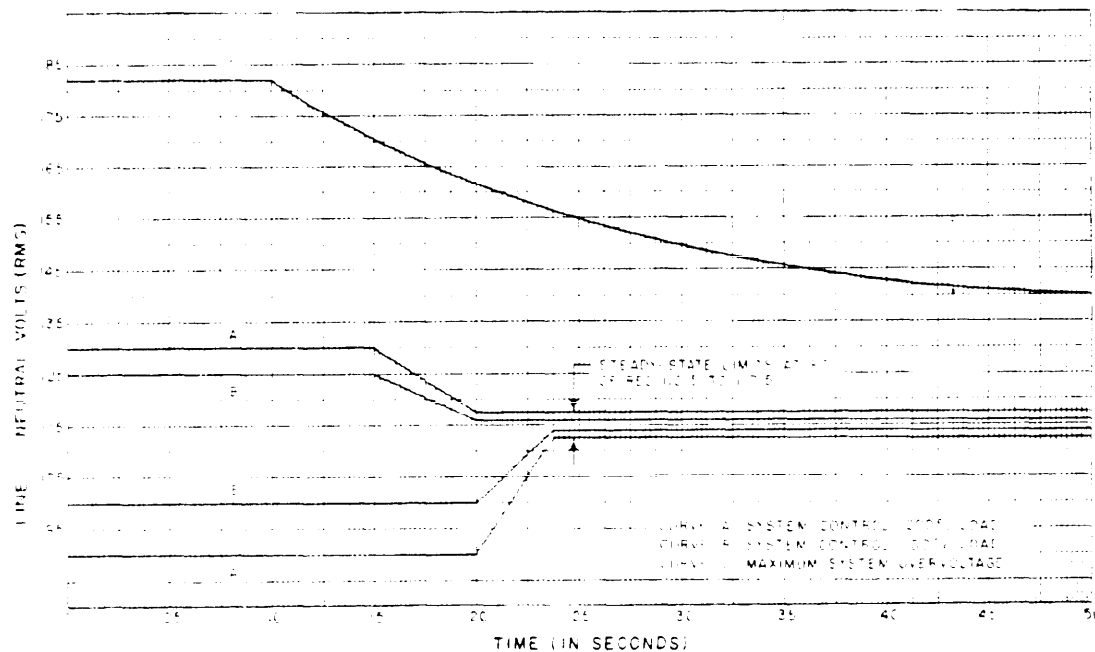


FIGURE 12. TRANSIENT AND STEADY-STATE VOLTAGE LIMITS UPON CLOSURE OF THE GENERATOR CONTROL SWITCH

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-1000	SUPERSEDES	MS90304 (AS) SHEET 6 OF 9

This military standard is approved by NAVAL AIR SYSTEMS COMMAND,
 Department of the Navy and shall be used by
 that activity. All other military activities are
 to employ in a standard where suitable.

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- 4.1.1 CHANGE "FIGURE 1" TO "FIGURE 1 OF THE SPECIFICATION SHEET"
- 4.1.2 THE GENERATOR SYSTEM SHALL BE DESIGNED SO THAT NO REMOVAL OF ANY COMPONENT SHALL AFFECT THE GENERATOR'S PERFORMANCE.
- 4.1.3 ALL THE GENERATOR SHALL BE SELF-COOLING AND IN ADDITION SHALL BE PROVIDED WITH MEANS FOR INSTALLATION OF AN AIR INLET TUBE.
- 4.1.4 CHANGE "1000 HOURS LIFE TO 1000 HOURS LIFE"
- 4.1.5 CHANGE "1000 HOURS" TO "AT LEAST 1000 HOURS"
- 4.1.6 ALL RECTIFIER ASSEMBLY IN THE MOTOR-GENERATOR SYSTEM, THE GENERATOR SHALL BE PROVIDED WITH AN INTEGRALLY MOUNTED RECTIFIER CONFORMING TO MIL-STD-883 FOR RECTIFICATION OF D.C. OUTPUT TO THE GENERATOR EXCITED FIELD.
- 4.1.7 CHANGE "1000 HOURS" TO "1000 HOURS"
- 4.1.8 DELETE AND ADD RELIABILITY. THE SYSTEM MEAN UPTIME BETWEEN FAILURES SHALL BE NOT LESS THAN 1000 HOURS. THIS FIGURE SHALL APPLY TO FAILURES WHICH WILL CAUSE SYSTEM OPERATION TO DEVIATE FROM PERFORMANCE REQUIREMENT.
- 4.1.9 CHANGE "FIGURE 2" TO "FIGURES 1 AND 2 OF THE SPECIFICATION SHEET"
- 4.1.10 DELETE AND ADD HARMONICS. THE CREST FACTOR FOR EACH PHASE VOLTAGE WAVE FORM SHALL BE NOT LESS THAN 1.414. NO SINGLE HARMONIC SHALL EXCEED 1% OF THE FUNDAMENTAL.
- 4.1.11 CHANGE "1000 HOURS MINIMUM CONTINUOUS OPERATION" TO "1000 HOURS MINIMUM CONTINUOUS OPERATION"
- 4.1.12 CHANGE "FIGURE 3" TO "FIGURE 4 OF THE SPECIFICATION SHEET"
- 4.1.13 DELETE AND ADD UNDERVOLTAGE. UNDERVOLTAGE PROTECTION SHALL BE PROVIDED BY A STATISTICAL ELEMENT WHICH FUNCTIONS TO DISCONNECT THE SYSTEM FROM THE LOAD BUS WITHIN 10 SECONDS AFTER THE FREQUENCY FALLS TO 40 Hz. AFTER EITHER AUTOMATIC OR MANUAL RESET, THE UNDERVOLTAGE PROTECTION SHALL REMAIN IN EFFECT UNTIL IT IS AUTOMATICALLY RESET BY THE SYSTEM WITHIN 10 SECONDS AFTER THE FREQUENCY EXCEEDS 40 Hz. THE SIGNAL BETWEEN "40 Hz" AND "100 Hz" SHALL NOT BE LESS THAN 4 Hz.
- 4.1.14 DELETE AND ADD FUSE PROTECT. THE MOTOR-GENERATOR SYSTEM SHALL PROVIDE FOR THE GENERATOR TO BE DISCONNECTED AND DISCONNECTED FROM THE LOAD BUS WHEN THE FAULT CURRENT ON ANY PHASE IS 100 ± 5 AMPERES.
- 4.1.15 DELETE AND ADD ELECTROMAGNETIC INTERFERENCE. THE SYSTEM SHALL MEET THE REQUIREMENTS OF MIL-STD-883C, CLASS B, TYPE 1, FOR THE GENERATOR AND CONTROL EQUIPMENT EXCEPT THE TWO MICROSTAKE THROUGH CAPACITORS SHALL BE REMOVED.
- 4.1.16 ALL QUALIFICATION TESTS SHALL BE SUPPLEMENTED WITH A MINIMUM 100 HOUR FATIGUE TEST WHICH TEST BEFORE CONSIDERATION IS GIVEN TO INCORPORATING THE ITEM ON THE QUALIFICATION PRODUCTS LIST.
- 4.1.17 ALL THE GENERATOR SHALL BE SELF-COOLING, NO EXTERNAL BLAST AIR PROVIDED.
- 4.1.18 ALL THE GENERATOR SHALL BE SELF-COOLING, NO EXTERNAL BLAST AIR PROVIDED.
- 4.1.19 CHANGE "FIGURE 1" TO "FIGURE 1 OF THE SPECIFICATION SHEET"
- 4.1.20 CHANGE "FIGURE 2" TO "FIGURE 2 OF THE SPECIFICATION SHEET"
- 4.1.21 DELETE FIGURE 3 AND
- 4.1.22 AT MINIMUM, MINIMUM AND AVERAGE RATES SHALL BE 100 Hz. THE EFFICIENCY AT 100 Hz SHALL NOT BE LESS THAN 85%. THE EFFICIENCY SHALL NOT BE LESS THAN 85% AT 100 Hz AND 100 Hz. THE EFFICIENCY AT 100 Hz SHALL NOT BE LESS THAN 85% AT 100 Hz.

This military standard is approved by NAVAL AIR SYSTEMS COMMAND, Department of the Navy, for use by the Navy, Air Force, and other military activities as a standard to employ this standard where suitable.

PA NAVY - AS Other Cost	TITLE GENERATOR SYSTEM, 10 KVA, 400 HERTZ, ALTERNATING CURRENT, INTEGRALLY EXCITED BRUSHLESS, AIRCRAFT, SELF-COOLING	MILITARY STANDARD MS90304(AS)
PROCUREMENT SPECIFICATION MIL-G-21436	SUPERSEDES	SHEET 7 OF 9

DD FORM 672-1 (Limited coordination)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO. 23071

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

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 2045. THE INFORMATION SHALL BE REMOVED.

DELETE PART 11 AND ALL

DELETE AND ADD CONTROLS. THE UNIT SHALL BE OPERATED AT VARIATIONS AND MAXIMUM VOLTAGE. THE LINE-VOLTAGE VARIATION OBTAINED IN THE ABOVE TEST SHALL BE 10 PERCENT. THE VARIATION IN CURRENT SHALL NOT EXCEED 10 PERCENT OF THE NOMINAL.

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 2045. 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 PERCENT 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 2045. 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 PERCENT LOAD.

DELETE AND ADD SHOCK RESISTANCE. SYSTEM COMPONENTS SHALL BE SUBJECTED TO A SHOCK TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 2045. THE INSTALLATION INSTRUCTIONS AND MOUNTING MUST BE REQUIRED BY PARAGRAPH 11.1.1.1. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS, THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100 PERCENT 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 VIBRATION. THE GENERATOR SHALL BE SUBJECTED TO A VIBRATION TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 2045. 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 PERCENT 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 2045. 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 PERCENT LOAD.

DELETE AND ADD CONTROL COMPONENTS. CONTROL COMPONENTS SHALL BE SUBJECTED TO A SHOCK TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 2045. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS, THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100 PERCENT 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 2045. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS, THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100 PERCENT 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 11.1.1.1, SHALL BE SUBJECTED TO A SHOCK TEST IN ACCORDANCE WITH MIL-STD-883C, PART II, METHOD 2045. AT THE COMPLETION OF THIS TEST THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS, THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100 PERCENT 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 2045. AT THE COMPLETION OF THE TESTS THE UNIT SHALL SUCCESSFULLY DEMONSTRATE ITS BUILDUP CHARACTERISTICS, THE EFFECT OF APPLICATION AND REMOVAL OF RATED AND 100 PERCENT 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 INCH.

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 LINE 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
LINE 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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 (a) This drawing is the property of the Navy and is to be used only for the purpose for which it was prepared.
 (b) It is to be kept in the files of the user and is to be returned to the Navy upon request.
 (c) It is to be kept in the files of the user and is to be returned to the Navy upon request.

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