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	* 2 HOLES			-	THREAD SIZES	112-40 UNJC-38	138-32 UNUC-38	164-32 UNJC-3B	190-32 UNJF-38	250-28 UNJF-38	3125-24 UNJF-38	375-24 UNJF-38	4375-20 JNJF-38	500-20 UNJF-38	ONLY BY
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PREPARING ACTIVITY DLA-IS CUSTODIANS ARMY- AV NAVY- AS AIR FORCE- 11 DLA-	MILITARY SPECI	KING,	PLATE,		-	N Su	AS UPER	21 SEDII	0	59)	-	RE	(B \$	·
REVIEW USER CR, MI PROJECT NUMBER 5310—1949	TWO LUC, FLOATING, 125 KSI Fh	LOW 1 u, 450	TEIGHT F	STEE	.L.		5210 MSC-		N/A		оc			(SE E 53	NOTE 5
DISTRIBUTION STATEMENT A Approved for public is	please distribution is unlin	wted									T	Po	ge .		<u>3</u>

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REQUIREMENTS

- 1 MATERIAL
- NUT CARBON STEEL COMPOSITIONS 1035 (UNS G10350) 1040 (UNS G10400) AND 1050 (UNS G10500), IN ACCOMPANCE WITH ASTM AB27 OR OQ-S-700 1042 (UNS G10420) IN ACCOMPANCE WITH ASTM AB29 ALLOY STEEL GRADES 4130 (UNS G41300) 4340 (UNS G43400) AND 8740 (UNS G87400) IN ACCOMPANCE WITH ASTM A29
- RETAINER (IF APPLICABLE) CARBON STEEL COMPOSITIONS 1035 (UNS G10350) AND 1050 (UNS G10500), IN ACCORDANCE WITH ASTIM A827 OR QQ-S-700 1042 (UNS G10420) AND ALLDY STEEL GRADE 4130 (UNS G41300) IN ACCORDANCE WITH ASTIM A829
 - 2 FINISH, CADIUM PLATE IN ACCORDANCE WITH QQ-P-416 TYPE II CLASS 2 FOR DRY FILM LUBRICATED NUTS THE TYPE AND CLASS ARE OPTIONAL IF THE NUTS MEET THE SALT SPRAY REQUIREMENTS OF QQ-P-416 TYPE II
 - 3 DIMENSIONING AND TOLERANCING, DIMENSIONING AND TOLERANCING SHALL BE IN ACCORDANCE WITH ANSI Y14 5M
 - 4 HARDNESS, 49HRC MAX
 - 5 THREADS, THREADS BEFORE LUBRICATION IN ACCORDANCE WITH MIL-S-8879
 - 6 <u>SURFACE TEXTURE</u>, SURFACE TEXTURE, UNLESS OTHERWISE SPECIFIED SHALL NOT EXCEED 125 MICROINCHES IN ACCORDANCE WITH ANSI/ASME B46 1
 - 7 LUBRICANT, DRY FILM LUBRICANT APPROVED IN ACCORDANCE WITH MIL-N-25027 NON-DRY LUBRICANTS SHALL BE SOLUBLE IN THE CLEANER SPECIFIED IN MIL-S-8802
 - 8 <u>COUNTERBORE/COUNTERSINK</u>, ON SIZE 164 AND LARGER THREAD RELIEF SHALL BE 062 MINIMUM, ON SIZE 138 AND SMALLER, COUNTERSINK OR RADIUSED WITHIN "P" DIAMETER
- 9 FLOAT FLOAT OF NUT ELEMENT PORTION OF ASSEMBLY SHALL NOT BE LESS THAN 030 LATERALLY AND LONGITUDINALLY FROM CENTERED POSITION NUT BODY SHALL BE CAPABLE OF ENGAGEMENT WITH A BOLT IN THE MAXIMUM MISALIGNED POSITION MAXIMUM AXIAL FLOAT 020 INCHES FOR 190 AND SMALLER, 030 FOR 250 AND LARGER NUT MISALIGNMENT SHALL NOT EXCEED DIMENSION "B" THE NUT AND BASE PORTION OF THE ASSEMBLY SHALL FORM ONE INTEGRAL UNIT AND THE SURFACE ASSEMBLY SHALL PROVIDE A BEARING FOR THE NUT
 - 10 PART NUMBER, THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I

EXAMPLE. MS21059L4K

DASH NUMBER

BASIC MS NUMBER

MS21059L4K INDICATES NUT SELF-LOCKING, PLATE, TWO LUG, FLOATING LOW HEIGHT STEEL 125 KSI Ftu 450' F 250-28 UNJF-38 DRY FILM LUBRICANT COUNTERSUNK OR DIMPLED HOLES

NOTES

- 1 ALL DIMENSIONS ARE IN INCHES
- 2 IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE
- 3 REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN
- 4 DESIGN AND USAGE LIMITATIONS THESE NUTS ARE DESIGNED TO DEVELOP THE TENSILE STRENGTH OF BOLTS AND SCREWS WITH AN ULTIMATE TENSILE STRENGTH OF 125 KSI BASED ON THE CROSS SECTION AREA AT THE BASIC ROOT DIAMETER OF THE THREADS. THESE NUTS ARE DESIGNED TO BE USED ON 3A EXTERNAL THREADS. THESE NUTS SHALL BE USED IN ACCORDANCE WITH THE LIMITATIONS OF MS.33588 ONLY NUTS FOR WHICH THERE ARE QUALIFIED PRODUCTS LISTED ON QPL 25027 SHALL BE USED.
- 5 MS21059 SUPERSEDES NAS686 NAS1031

SPECIFICATION SHEET NUMBER PREPARING ACTIVITY DLA-IS MILITARY SPECIFICATION SHEET MS21059 CUSTODIANS ARMY- AV NAVY- AS TITLE AIR FORCE- 11 DLA-SUPERSEDING NUT, SELF-LOCKING PLATE TWO LUG. FLOATING, LOW HEIGHT STEEL REVIEW 30 OCT 89 (SEE NOTE 5) MS21059H 125 KSI Ftv. 450 F USER CR. MI AMSC- N/A FSC 5310 5310-1949 PROJECT NUMBER DISTRIBUTION STATEMENT Page 2 of 3 A. Approved for public release, distribution is unlimited

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PREVIOUS BOTHOMS ARE OBBOLE

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INTERCHANGEABILITY RELATIONSHIP

MS21059 HUTS CAN UNIVERSALLY REPLACE NAS686 AND NAS1031 NUTS OF LIKE MATERIAL, THREAD SIZE LUBRICANT (ORY FILM OR NON-DRY FILM) RIVET SPACING AND FASTENING METHOD (PLAIN RIVET HOLES DIMPLED OR COUNTERSUNK RIVET HOLES) BUT THESE NAS686 AND NAS1031 NUTS CANNOT UNIVERSALLY REPLACE MS21059 NUTS

INTERCHANGEABILITY TABLE

CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS
NAS686X04 NAS686A04 NAS686A04 NAS686A06 NAS686X06K NAS686A06K NAS686X06K NAS686X06K NAS686A08 NAS686A08 NAS686A08 NAS686A08 NAS686A3 NAS686A3 NAS686A3 NAS686A3 NAS686A3 NAS686A4 NAS686A4 NAS686A4 NAS686A4 NAS686A6 NAS686A5 NAS686A5 NAS686A5 NAS686A5 NAS686A6 NAS686A6	MS21059-04 MS21059-04K MS21059-04K MS21059-06 MS21059-06K MS21059-06K MS21059-08K MS21059-08K MS21059-08K MS21059-08K MS21059-3K MS21059-3K MS21059-3K MS21059-3K MS21059-3K MS21059-3K MS21059-3K MS21059-3K MS21059-4K MS21059-4K MS21059-4K MS21059-4K MS21059-5K MS21059-5K MS21059-5K MS21059-5K MS21059-5K MS21059-6K MS21059-6K MS21059-6

CANCELLED PART NUMBERS	Substitutive Part Numbers
NAS1031X04 NAS1031X04K NAS1031A04K NAS1031A04K NAS1031X06 NAS1031X06K NAS1031X06K NAS1031A06K NAS1031A06K NAS1031A08K NAS1031A08 NAS1031A08K NAS1031A08K NAS1031X3X NAS1031X3K	MS21059-04 MS21059-04K MS21059-04K MS21059-06K MS21059-06K MS21059-06K MS21059-06K MS21059-08 MS21059-08 MS21059-08K MS21059-08K MS21059-08K MS21059-3K

CANCELLED PART NUMBERS	SUBSTITUTIVE PART NUMBERS
NAS1031A3 NAS1031A3K NAS1031X4K NAS1031X4K NAS1031A4 NAS1031A5 NAS1031A5 NAS1031A5 NAS1031A5 NAS1031A6 NAS1031A6 NAS1031X7 NAS1031X7 NAS1031X7 NAS1031X8 NAS1031X8	MS21059L3 MS21059-4 MS21059-4 MS21059-4 MS2105914 MS21059-5 MS21059-5 MS21059-5 MS21059L5 MS21059L5 MS21059L5 MS21059L5 MS21059L5 MS21059-6 MS21059-7 MS21059-8 MS21059-8

PREPARING ACTIVITY DLA~IS CUSTODIANS ARMY~ AV NAVY— AS	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER MS21059 1 FEB 94 REV J					
AIR FORCE- 11 DLA- REVIEW	NUT, SELF-LOCKING, PLATE, TWO LUG, FLOATING, LOW HEIGHT STEEL.	SUPERSEDING MS21059H 30 QCT 89 (SEE NOTE 5					
USER CR, MI PROJECT NUMBER 5310-1949	125 KSI Flu, 450 F	AMSC- N/A FSC 5310					

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