

BASIC AN PART NO.	THREAD T	å DIA		F			O I		E REF	ACA CANADA CANAD		(d) <sub>H</sub>	DRILL DIA +.DIO OOO	BIA DAILL OLO.+
		MAX	MIN	MAX	MIN		XAM	MIN'		MAX	MIN	MIN		,
AN173 AN174 AN175	NO. 10-32 NF-3A 1/L -25 UNF-3A 5/16-2L UNF-3A	.1894 .24,92 .3117	.1589 .2487 .3112	.377 .440 .502	.365 .426 .490	.430 .510 .580	.141 .172 .204	.140	5/16	.0L? .047 .363	.015 .015 .031	-359 -422 -484	.070 .076 .07 <del>6</del>	.046 .046 .070
AN176 AN177 AN178	3/8 -2L UNF-3A 7/16-20 UNF-3A 1/2 -20 UNF-3A	.3742 .4367 .4991	.3737 .1362 .1986	.565 .627 .752	.553 .615 .740	.650 .720 .870	.235 .266 .297	,203 ,234 ,265		.063 .063 .063	.031 .031 .031	.5L7 .609	.106 .106 .106	.070
AN179 AN180 AN182	9/16-18 UNF-3A 5/8 -18 UNF-3A 3/1 -16 UNF-]A	.5616 .6240 .7488	.5611 .6234 .7481	.877 .940 1.066	.865 .928 1.053	1.010 1.090 1.230	.328 .360 .422	. 296 . 328 . 390	47/64	.078 .078 .078	.04.6 .04.6 .04.6	.859 .922 1.0L?	.141 .141 .141	.070
an186 an186	7/8 -11, UNF-3A 1 -11, NF-3A	.8737 .9985	.8729 .9975	1.25) 1.441	1.428	1.440 1,660	.485 .547	.453 .515		, 094 , 094	.062 .062	1.23L 1.622	.141 .141	.070

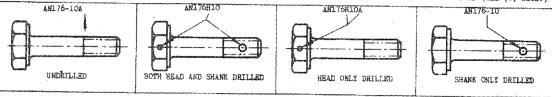
- 3) SEE SHEET 3 FOR NOTES (a), (b), AND (c).
- (d) THE DIAMETER OF THE WASHER FACE SHALL NOT EXCEED THE ACTUAL WIDTH ACROSS PLATS. (3)
- NATERIAL: NON-CORNOSION-RESISTANT STEEL, CORROSION-RESISTANT STEEL, OR ALIMINUM ALLOY. SEE PRODUREMENT SPECIFICATION
- (3) FINISH: SEE PROCUREMENT SPECIFICATION, EXCEPT AS NOTED.

PLATING MAY BE GROUND OFF SHANK OR INDERSIDE OF HEAD. SMALL AREAS OF CADMIUM PLATING REMAINING ON THE GROUND PORTION OF BOLTS SHALL NUT BE CAUSE FOR REJECTION. UNPLATED SURFACES SHALL BE COATED WITH COMPOUND, SPECIFICATION MIL-C-11796 OR MIL-C-16173. SURFACE ROUGHNESS IN RMS MILCO INCHES BEPORE FLATING SHALL BE: 63 MAX FOR SHANK AND UNDERSIDE OF HEAD, 125 MAX FOR THREADS (VISUAL COMPARISON ONLY), 250 MAX FOR ALL OTHER AREAS (VISUAL COMPARISON ONLY).

- ADD C BEFORE DASH MUMBER FOR CORROSION-RESISTANT STEEL BOLT. (SEE (c) NOTE.) ADD DD BEFORE DASH NUMBER FOR ALIMINUM-ALLOY BOLT. (SEE (c) NOTE.)
- ADD A AFTER DASH NUMBER FOR UNDRILLED SOLT. SEE LILUSTRATION. ADD H BEFORE DASH NUMBER FOR BOLT WITH DRILLED HEAD AND SHAMK.
- SEE ILLUSTRATION.
- ADD H BEFORE DASH NUMBER AND A AFTER DASH NUMBER FOR SOLT WITH DRILLED HEAD ONLY. SEE ILLUSTRATION

## EXAMPLES OF PART NUMBERS:

- 3/6 NOM-CORROSION-RESISTANT STEEL BOLT 1-5/64 LONG, 7/16 GRIP WITH DRILLED SHANK ONLY. SEE ILLUSTRATION.
  3/8 CORROSION-RESISTANT STEEL BOLT 1-5/64 LONG, 7/16 GRIP WITH DRILLED SHANK ONLY. SEE ILLUSTRATION. (SEE AN176-10 ANI.76CLC
- 3/6 (c) NOTE.)
  3/8 ALIMINUM-ALLOY BOLT 1-5/6L LONG, 7/16 GRIF WITH DRILLED SHARK ONLY.
- SEE ILLUSTRATION. 3/6 ALDMINUM-ALLOY BOLT 1-5/64 LONG, 7/16 GRIF WITH DRILLED SHAME AND HEAD. SEE ILLUSTRATION. (SEE (c) NOTE.)
  3/8 ALDMINUM-ALLOY BOLT 1-5/64 LONG, 7/16 GRIF WITH DRILLED HEAD AND SHAME. SEE ILLUSTRATION. (SEE (c) NOTE.)
  3/8 ALDMINUM-ALLOY BOLT 1-5/64 LONG, 7/16 GRIF WITH DRILLED HEAD ONLY. SEE ILLUSTRATION. (SEE (c) NOTE.) ANI 76DDIOA æ NA. SEE ILLUSTRATION. (SEE (c) NOTE.)
  SEE ILLUSTRATION. (SEE (c) NOTE.) AN176DDH10A



(3) BOLTS SHALL BE FREE FROM ALL HANGING BURRS AND SLIVERS WHICH MIGHT BECOME DISLODGED UNDER USAGE. COUNTERSINKING OF DRILLED HOLES IN HEAD IS MANDATORY. COUNTERSINKING OF DRILLED HOLES IN SHANK IS OPTIONAL.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS 1.010, ANGLES 15°.

PROCUREMENT SPECIFICATION MIL-B-6812

AIR FORCE-NAVY AERONAUTICAL STANDARD

BOLT- MACHINE OLOGE TOLEDANDE

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AN1.76

AN177

AN178

ANITZ THRU ANI86

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AN1.75

an173

AN17L

PROCUREMENT SPECIFICATION

AN-B-3

BOLT

	AN173		AN1.74		AN1.75		AN3.76		ANI ??		AN178		ANL/9		7
HEACT NO.	chip al/ó4	11/32 -1/61	el/64	1.ENOTH +1/32 -1/6L	TORIP ±1/64	+1/32 -1/64	CARIP 21/64	LENGTH +1/32 -1/64	11/64 ±1/64	LENGIH +1/32 -1/64	CRIP ±1/64	LENOTH 11/22 -1/81	GRIP ±1/6L	Length +1/32	1
3	1/16 1/8	15/32 17/32		15/32	1/16	19/32		27, 444		-1/00		-1/0Q		-1/64	
- 5	1/4	21/32	3/16	21/32	3/16	23/32	1/16		1/16	23/32		+		ļ	4
<u>- 6</u>	3/5 1/2	25/32 29/32	7/16	25/32 29/32	5/16 7/16	27/32	3/16 5/16	61/64	3/16 5/16	27/32 31/32	1/16 3/16	27/32 31/32	1/16 1/8	1- 1/32 1- 1/32 1- 5/32	
10	5/8 3/4	1- 1/32 1- 5/32		1- 5/32	9/16 11/16	1- 3/32		1-13/64	7/16 9/16	1- 3/32		1- 3/32	3/8	1- 5/32 1- 9/32	
12	7/8 1	1-13/32 1-13/32		13/32	13/16 15/18	1-11/32 1-15/32		1-21/64 1-29/64	11/16	1-11/32	9/15	1-11/32	1/2 5/8	1-13/32 1-17/32	1
1 <u>1</u> 15	1-1/8	1-17/32	1- 1/16 1- 3/16		1- 1/16 1- 3/16	1-19/32 1-23/32	15/16	1-37/64 1-45/64	15/16	1-19/32	13/16	1-19/32 1-23/32	3/ii 7/8	1-21/32 1-25/32	
16 17	1-3/8 1-1/2	1-25/32	1- 5/16 1- 7/16	1-25/32	1- 5/16 1- 7/16	1-27/32 1-31/32	1- 3/16	1-53/64 1-61/6[	1- 3/16 1- 5/16	1-27/32	1 1/16	1-27/32	1-1/8	1-29/32	
50	1-5/8 1-3/4	2- 1/32 2- 5/32	1-9/16 1-11/16	2- 1/32	1~ 9/16	2- 3/32 27/32	1- 7/16	2 5/64 2-13/64	1- 7/16	2- 3/32	1- 5/16	2- 3/32	1-1/4	2- 1/32 2- 5/32	
22	1-7/8 2	2 9/32 2-13/32		2- 2/32	1-13/16 1-15/16	2-11/32	1-11/16	2-21/64	1-11/16	2-11/32	1 9/15	2 7/32 2-11/32	1-3/8 1-1/2	2-9/32 2-13/32	
21. 25	2~1/8	2-17/32	2- 1/16	2-17/32	2- 1/16	2-15/32 2-19/30	1-45/16	2-29/6h 2-37/6h	1-15/16	2-15/32 2-19/32	1-13/16	2-15/32 2-19/32	1-5/8 1-3/4	2-17/32 2-21/32	***************************************
26	2-1/4 2-3/8	2-21/32 2-25/32	2-5/16		12 5/161	2.02/20	2- 3/16 2- 3/16	2-45/64 2-53/64 2-61/64	2- 1/16 2- 3/16	2-23/32 2-27/32	1-15/16 2- 1/16	2-23/32 2-27/32	1-7/8 2	2-25/32 2-29/32	
27 30	2-1/2 2-5/8	2-29/32 3- 1/32	2- 9/16	3 1/32	2- 7/16 2- 9/16	3- 3/32	2- 7/16	3-5/04	2- 3/16	2-31/32 3- 3/32	2- 3/16 2- 5/16		2-1/8 2-1/4	3- 1/32 3- 5/32	7
31. 32	2-3/4 2-7/8	3- 5/32 3- 9/32		3- 9/32	2-13/26	3-11/32	2-9/16 2-11/16	3-13/64 3-21/64	2- 9/15 2-11/16	3- 7/32 3-11/32	2- 7/16 2- 9/16	3- 7/32	2-3/6 2-1/2	3- 9/32 3-13/32	
33 34	3 3-1/8	3-13/32 3-17/32	3- 1/16	3-13/32 3-17/32	2-15/16 3- 1/16	3-15/32 3-19/32	2-13/16	3-29/61 3-37/61	2-13/16	3-15/32 3-19/32	2-11/16 2-13/16	3-15/32	2-5/8 2-5/L	3-17/32 3-21/32	
35 36	3-1/4 3-3/8	3-21/32 3-25/32	3- 3/16	3-21/32 3-25/32	3- 3/16 3- 5/16	3-23/32 3-27/32	3- 1/16 3- 3/16	3-45/64 3-53/64	3- 1/16	3-23/32 3-27/32	2-15/16 3- 1/16	3-23/32	2-778	3-25/32	1
37 40	3-1/2 3-5/8	3-29/32 4-1/32	3- 7/16		3- 7/16	3-31/32	3- 5/16	3-61/64 4- 5/64	3- 5/16	3-31/32	3- 3/16	3-31/32	3 3-1/8	3-29/32 4- 1/32	1
41 52	3-3/1 3-7/8	Ū− 5/32 L− 9/32	3-11/16	1- 5/32 4- 9/38	3-11/16	L- 7/32	3- 9/16	4-13/64	3- 9/16	4- 3/32 4- 7/32	3- 5/16 3- 7/16	4- 7/32	3-1/4 3-3/8	4- 5/32 4- 9/32	1
43	J-1/8	4-13/32	3-15/16	4-13/32	3-15/16	1-11/32 1-15/32	3-13/16	1,-21/64 1,-29/64	3-13/16	h-11/32 L-15/32	3- 9/16 3-11/16	4-15/32	3-1/2 3-5/8	4-13/32 4-17/32	1
45	4-1/4	1-17/32 1-21/32	lı- 3/16	L-21/32 L-21/32	4- 3/16	1-23/32	h- 1/16	4-37/64 4-45/64	Jim 1/16	L-19/32 L-23/32	3-13/16 3-15/16		3-3/4 3-7/8	4-25/32	1
47	1-3/6 1-1/2	4-25/32 4-29/32	4- 7/16	14-25/32 14-29/32	7/15	11-27/32 11-31/32	4- 3/16 4- 5/16	14-53/61 14-61/61	4- 3/16 4- 5/16	L-27/32 L-31/32	4- 1/16 1- 3/16		1 <u>1</u> 11-1/8	1-29/32	1
50 51	4-5/8 4-3/4	5- 1/32 5- 5/32	1-11/16	5- 1/32 5- 5/32	1-11/16	5- 3/32 5- 7/32	4- 7/16 4- 9/16	5- 5/641 5-13/641	4- 7/16 4- 9/16	5- 3/32 5- 7/32	l- 5/16 l- 7/16	5- 3/32	1-1/1: 1-3/8	5- 1/32 5- 5/32 5- 9/32	1
52 53	<u>4-7/8</u> 5	5- 9/32 5-13/32	4-13/16 4-15/16	5- 9/32 5-13/32	4-13/16 4-15/16	5-11/32	4-11/16	5-21/64 5-29/60	4-11/161	5-11/32 5-15/32	<u>l- 9/16</u> <u>l-11/16</u>	5-11/32	<u>iį-i/2</u> l <sub>i-5/8</sub>	5-13/32 5-17/32	
54 55		5-27/32 5-21/32	5- 1/16	5-21/32 5-21/32	5- 1/16	5-19/32	4-15/16	5-37/64 5-45/64	4-15/16	5-19/32 5-23/32	1-13/16 1-15/16	5-19/32	4-3/4	5-21/32	1
56 57	5-3/8	5-25/32 5-29/32	5- 5/16	5-25/32 5-29/32	5- 5/16	5-27/32	5- 3/16	5-53/614	5- 3/16	5-27/32	5- 1/16	5-27/32	14-7/8 5	5-25/32 5-29/32	
60	5-2/2 5-5/8 5-3/4	6- 1/32 6- 5/32	5- 9/16	6-1/32 6-5/32	5 9/16	6-3/32	5- 5/16 5- 7/16 5- 9/18	5-61/61 6- 5/64	3- 7/18	5-31/32 6- 3/32	5- 3/16 5- 5/16	6- 3/32	5-1/6 5-1/4	6- 1/32 6- 5/32	
62	5-7/8	6- 9/32	5-13/16	6 9/32	5-13/16	6-11/32	5-11/16	6-21/64 6-21/64	5-11/16	6- 7/32 6-11/32	5- 7/16 5- 9/16	6-11/32	5-3/8 5-1/2	6- 9/32 6-13/32	
65	6-1/8	6-13/32 6-17/32	6- 1/16	6-13/32 6-17/32	3m 1/10	6-19/32	5-15/16		5-15/16	6-15/32 6-19/32		6-19/32	5-5/8 5-3/4	6-17/32 6-21/32	
66	6-1/h 5-3/8	6-21/32 6-25/32	6- 5/16	6-21/32 6-25/38	6- 5/16		6- 1/16 6- 3/16	6-45/64 6-53/64	6- 3/16	6-23/32 6-27/32	5-15/16 6- 1/16	6-27/32	5-7/8 6	6-25/32 6-29/32	1
67 70	6-1/2 6-5/8	6-29/32 7- 1/32	6- 9/16	6-29/32 7- 1/32	6- 9/16	7- 3/32	6- 7/16	6-61/64 7- 5/64	5- 7/36	6-31/32 7- 3/32	6- 3/16	6-31/32	6-1/8 6-1/4	7- 1/32 7- 5/32	1
71 72	6-3/L 6-7/8	7- 5/32 7- 9/32	6-11/16	7- 5/32	5-11/16	7- 7/32 7-11/32	6-9/16	7-13/64 7-21/65	6- 9/16	7- 7/32	6- 7/16	7- 7/32	6-1/8 6-1/2	7-9/32 7-13/32	
73 74	? 7 <b>-</b> 1/8	7-13/32 7-17/32	6-13/16 6-15/16 7- 1/16	7-13/32	6-15/16 7- 1/16	7-15/32	6-13/16 6-15/16	7-29/6L	6-13/16	7-15/32	6-11/15	7-15/32	6-5/8	7-17/32 7-21/32	
75 76.	7-1/4 7-3/8	1000 1 32 1	7 m 3/1/31	721 / 128	7 3 (1.6)	7-23/321	7-1/16	7-15/61 7-53/61	7- 1/161	7-23732	5-15/16	7-23/32	6-7/8	7-25/32	
777	7-1/2	7-29/32 B= 1/32	7- 5/16 7- 7/16 7- 9/16	7-29/32	7-9/18	7-31/32	7- 5/16	7-61/61 8- 5/61	7- 5/16	7-31/32	7- 1/16 7- 3/16	7-31/32 T	7-1/8	7-29/32 8- 1/32	Q
81 82	1.23		1- 3/20	0~ 1/38	7-11/18	8- 7/32	/ <del>~</del> //40	0- 3/0W	1- (\70)	8- 3/32	7- 5/16   7- 7/16	3- 7/32 T	7-1/4	8- 5/32	REVISED
83								-			7- 9/16 ( 7-11/16 (	8-15/32			ł
81, 85 86							8- 1/16	8-45/64			7-13/16 7-15/16	8-19/32			May 49
86	······································										8- 1/16 8 8- 3/16 8	8-27/32			29 %
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AIR FORCE-NAVY AERONAUTICAL STANDARD

DASH   GREP   LEWING   11/92   11/64   14/92   14/92		aj.	180	ÁN	182	AN:	181j	an186		
1.1/6	DASH	GEC.P	1.5300114	CRIP		GRIP	LENGTH	GRIP	LENÚTH	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	NO.	±1/05	+1/32	. ±1./6L	+1/32	±1/64	+1/32	±1/60₄	+1/32	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	and a second		-1/cs		~L/ CA1		-1/00		-1/04	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				1784	3 6.7a2					
12	II	5/18		3/16	1- 3/32	1/16	1- 5/13			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Ł				1-13/32		1~ 7/16	1/8	1-1/2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				7/16	1-17/32		1- 9/16	1/4	1.5/8	
17						X	2 25/26			
17		15/16	1-57/61	13/16	1-29/32	11/16	1-15/16	5/8	2	
22	17	1 1/16	2 1/64	15/16	2- 1/32	13/16	2- 1/16	3/4	2-1/8	
22		1-3/16				15/16				
25	( 8						2- 7/16		2-1/2	
24  1-11/16   2-41/61   1-9/16   2-27/82   1-7/16   2-13/16   1-3/8   2-3/16   2-5/16   1-13/16   2-27/84   1-13/16   2-27/84   1-13/16   2-27/84   1-13/16   2-13/16   1-5/8   3   27   2-11/16   3-1/61   1-13/1   3-1/51   3-1/	23	1- 9716	2-33/66	1- 7/16	2-17/32	1- 5/16	2- 9/16	1-1/4	2-5/8	
2c6						1- 7/16	2-11/16			
27			2-47/6h			1-11/16				
33			3- 1/64	1-15/16		1-13/16	3-1/16	1-3/4	3-1/3	
32   2-7/16   3-25/64   2-5/16   3-17/32   2-5/16   3-7/16   2-1/h   3-5/8     34   2-11/16   3-41/64   2-7/16   3-21/32   2-5/16   3-11/16   2-1/h   3-5/8     35   2-13/16   3-48/64   2-11/16   3-25/32   2-9/16   3-13/16   2-1/2   3-7/8     36   2-15/16   3-57/64   2-13/16   3-25/32   2-13/16   3-11/16   2-5/8     37   3-1/16   4-1/64   2-15/16   4-1/32   2-13/16   4-1/16   2-5/8   4     37   3-1/16   4-1/64   2-15/16   4-1/32   2-13/16   4-1/16   2-5/8   4     38   3/16   4-9/64   3-1/16   4-5/32   2-15/16   4-1/16   2-3/4   4-1/8     40   3-3/16   4-9/64   3-1/16   4-5/32   2-15/16   4-3/16   3-1/8   4-1/8     41   3-5/16   4-1/64   3-3/16   4-1/32   3-1/16   4-7/16   3-1/8   4-1/8     42   3-7/16   4-25/64   3-5/16   4-13/32   3-3/16   4-7/16   3-1/8   4-1/8     43   3-9/16   4-3/64   3-1/16   4-1/1/32   3-5/16   4-9/16   3-1/8   4-1/8     44   3-15/16   4-5/64   3-1/16   4-25/32   3-9/16   4-13/16   3-3/8   3-3/8     45   3-13/16   4-43/64   3-11/16   4-25/32   3-9/16   4-13/16   3-1/2   4-7/8     46   3-15/16   4-5/64   3-13/16   4-29/22   3-11/16   4-15/16   3-3/8   3-1/8     47   4-1/16   5-1/64   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-15/16   5-1/32   3-3/8   5-1/8     50   4-3/16   5-3/64   4-3/16   5-1/32   4-3/16   5-1/16   5-1/34   5-1/2   3-3/8   3-1/2   3-1/2   3-1/2   3-1/2   3-1/2   3-1/2   3-1		2- 3/16	3 9/6h	2- 1/16	3- 5/32	1-15/16	3- 3/16	1-7/8		
33		2-5/16	3-17/6h 3-26/6h	2-3/16	3- 9/32	2-1/16	3- 5/10   3- 7/16		3-3/8	
3h		2- 9/16			3-17/32					
36		2-11 <b>/</b> 16	3~41/64	2- 9/16	3-21/32	2- 7/16	3-11/16	2-3/8	3-3/4	
37 3-1/16 la-1/6la 2-15/16 la-1/32 2-15/16 la-1/16 2-3/la la-1/h  10 3-3/16 la-9/6la 3-1/16 la-5/32 2-15/16 la-3/la 2-3/la la-1/h  11 3-5/16 la-17/6la 3-3/16 la-9/32 3-1/16 la-5/la 3 la-1/h  12 3-7/16 la-25/6la 3-5/16 la-13/32 3-3/16 la-7/16 3-1/k  13 3-9/16 la-3/6la 3-5/16 la-13/32 3-5/16 la-1/h  13 3-9/16 la-3/6la 3-9/16 la-13/6la 3-9/16 la-1/h  14 3-11/16 la-13/6la 3-9/16 la-13/16 3-1/k  15 3-13/16 la-13/6la 3-9/16 la-25/32 3-7/16 la-11/h  15 3-13/16 la-13/6la 3-9/16 la-25/32 3-9/16 la-13/16 3-1/k  15 3-13/16 la-15/6la 3-13/16 la-25/32 3-9/16 la-13/16 3-1/k  15 3-13/16 la-5/7/6la 3-13/16 la-25/32 3-11/16 la-15/16 3-5/l6 5-1/h  15 1a-17/6 5-1/6la 3-15/16 5-1/32 3-13/16 la-15/16 3-3/la 5-1/h  15 la-5/16 5-17/6la 1-3/16 5-9/32 3-15/16 5-3/16 3-7/la 5-1/h  15 la-5/16 5-17/6la 1-3/16 5-9/32 3-15/16 5-3/16 3-7/la 5-1/h  15 la-5/16 5-17/6la la-3/la 5-9/32 la-1/h  15 la-5/16 5-13/6la la-17/6la la-3/la 5-9/32 la-1/h  15 la-5/16 5-15/16 la-5/16/la la-1/h  15 la-11/16 5-16/6la la-1/h  16 s-1/1/16 s-1/la										
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PROCUREMENT SPECIFICATION AN-B-3

AIR FORGE-NAVY AERONAUTICAL STANDARD

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