

NOTICE
OF
CHANGE

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MIL-STD-333B
INTERIM NOTICE 2 (AR)
5 JUNE 1995

**MILITARY STANDARD
FUZE, PROJECTILE AND ACCESSORY
CONTOURS FOR LARGE CALIBER ARMAMENTS**

TO ALL HOLDERS OF MIL-STD-333B:

1. THE FOLLOWING PAGES OF MIL-STD-333B HAVE BEEN REVISED AND SUPERSEDED THE PAGES LISTED:

NEW PAGE	DATE	SUPERSEDED PAGE	DATE
1	5 June 1995	1	1 May 1989
2	1 May 1989	2	REPRINTED WITHOUT CHANGE
3	5 June 1995	3	1 May 1989
4	1 May 1989	4	REPRINTED WITHOUT CHANGE

2. RETAIN THIS NOTICE AND INSERT BEFORE TABLE OF CONTENTS.

3. Holders of MIL-STD-333B will verify that page changes and additions indicated above have been entered. This notice page will retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the Military Standard is completely revised or canceled.

4. Vertical lines are used in this Notice to denote changes (additions, modifications, corrections, deletions) from the basic standard. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the basic standard.

Custodians.
Army - AR
Navy - OS
Air Force - 11

Preparing activity:
Army - AR

Review activities:
Army - MI
Navy - AS
Air Force - 18, 99

(Project 13GP-0052)

AMSC N/A

FSC 13GP

DISTRIBUTION STATEMENT A. Approved for public release; Distribution is unlimited.

MIL-STD-333B
INTERIM NOTICE 2 (AR)

1. SCOPE

1.1 Scope. This standard establishes standard designs for projectile nose fuze threads, fuze contours, and projectile cavities for gun projectiles, 75mm and larger in caliber and mortar projectiles 60mm and larger, to insure physical interchangeability, and that for a given projectile family (artillery bursting oriented, artillery cargo oriented, etc.) no special aiming corrections are required when firing any fuze type (PD, MT, PROX, etc.) for which the projectile is intended.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications, standards, hand books. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issue of these documents are those listed in the issue of the Department of Defense Index of Specification and Standard (DODISS) and supplement thereto, cited in the solicitation (see 6.2).

STANDARDS

MILITARY

MIL-STD-444 - Nomenclature and Definitions in the Ammunition Area

(unless otherwise indicated, copies of federal and military specifications, standards, and handbooks are available from the Naval Publications and Forms Center, (ATTN: NPODS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099.)

2.2 Non-Government publications. The following document forms a part of this document to the extent specified herein. Unless otherwise specified, the issues of the documents which are DoD adopted are those listed in the issue of the DODISS cited in the

Supersedes page 1 of 1 May 1989

MIL-STD-333B
INTERIM NOTICE 2 (AR)

solicitation. Unless otherwise specified, the issues of the documents not listed in the DODISS are the issues of the documents cited in the solicitation (see 6.2).

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI Y14.5M-82

- Dimensioning and Tolerancing

(Application for copies should be addressed to the American National Standards Institute, 1430 Broadway, New York, NY)

(Non-Government standards and other publications are normally available from the organizations that prepare or distribute the documents. These documents also may be available in or through libraries or other informational services.)

2.3 Order of Precedence. In the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. DEFINITIONS

3.1 Definitions. The definitions of the various types and components of ammunition shall be those established by MIL-STD-444.

3.2 Abbreviations. The following abbreviations apply:

a. APERS	-	Anti-Personnel
b. CS	-	Chemical Fillet (Tear Gas)
c. CP	-	Concrete Piercing
d. DPICM	-	Dual Purpose Improved Conventional Munition
e. ET	-	Electronic Time
f. HE	-	High Explosive
g. ICM	-	Improved Conventional Munition
h. ILLUM	-	Illuminating
i. MT	-	Mechanical Time
j. MTSQ	-	Mechanical Time Superquick
k. NSB	-	Near Surface Burst
l. PD	-	Point Detonating
m. PD/DLY	-	Point Detonating/Delay
n. PROX	-	Proximity
o. WP	-	White Phosphorus (Smoke)

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MIL-STD-333B
INTERIM NOTICE 2(AR)

4. GENERAL REQUIREMENTS

This section is not applicable to this standard.

5. DETAILED REQUIREMENTS

5.1 Design. Fuzes shall be designed to insure physical interchangeability and that for a given projectile family (artillery bursting oriented, artillery cargo oriented, etc.) no special aiming corrections are required when firing any fuze type (PD, MT, PROX, etc.) intended for use on the projectile.

5.2 Dimensions. Dimensions of contact surfaces, intrusion, projectile cavity, maximum length, thread size and wrench and setting slots (if required) of all projectile fuzes and accessory contours shall be in accordance with those in the figures contained herein. All other dimensions on the figures are for information only. Dimensions are in millimeters with the exception of thread designations which are in English units.

5.3 Figures and tables. ANSI Y14.5M shall apply to figures and tables herein. Figures shall not be scaled.

5.4 Fuze selection guide. Table I offers guidance in the selection of fuze types for the various projectile configurations:

TABLE I. Fuze Selection Guide

FUZE	SHELL	STANDARD CONTOUR FIGURE		
		ARTILLERY (NOTE 1, 3)	81MM MORTAR	60MM MORTAR
PD or PD/DL	HE	1, 9, 5	5	
	WP (NOTE 2)	1, 2	5	5
TIME	ILLUM, CS	2	8	6, 7
	APERS	4	-	-
	HE	1, 9	5	5
	WP (NOTE 2)	1, 2	5, 6	-
	ICM/DPICM	3	-	-
PROX	HE	1, 9	5	5
MO	HE	1, 9	5	5

NOTES:

1. Contour figures are those designs required for all new developments of nose fuzes for mortar and artillery ammunitions.
2. The need for a booster depends on the caliber of the WP projectile.
3. 4.2-inch mortar ammunition currently uses artillery fuzes.

Supersedes page 3 of 1 May 1989

MIL-STD-333B

INTERIM NOTICE 2(AR)

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 ALTERNATE
 PROCESS
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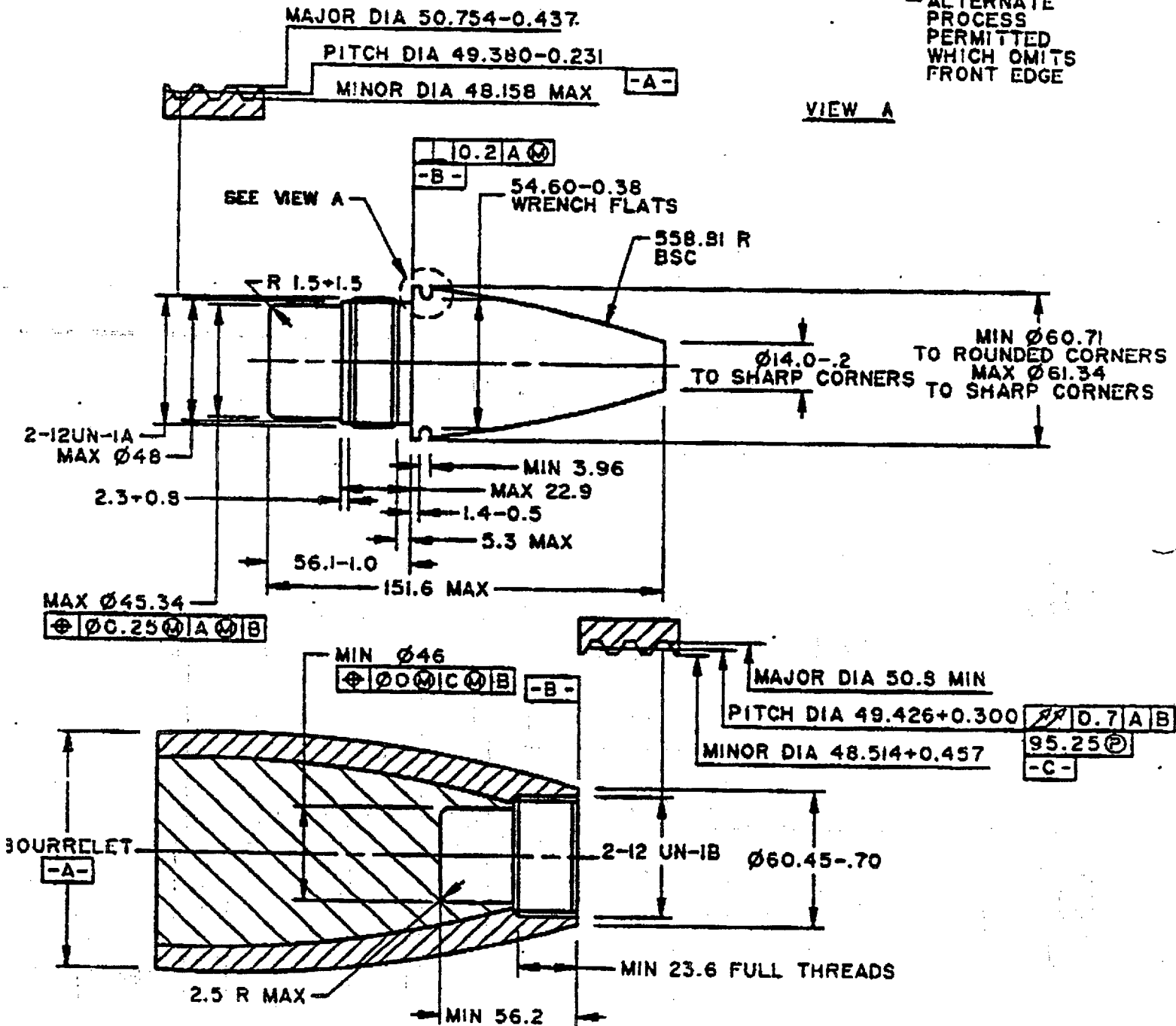


FIGURE 1

STANDARD CONTOUR FOR 2-INCH NOSE FUZES WITH BOOSTER AND MATCHING CAVITY FOR ARTILLERY AND MORTAR HE/WP PROJECTILES (SPIN AND FIN STABILIZED).