

37. (C) CTI-943 Addendum No. 1
30 Dec. 1942
Fr: Brig. Gen. B.W. Chidlaw
AC/S, (E), Wash.
To: Tech. Exec., Mat. Center
WF
(File: Contract Files)

CTI-943, Addendum No. 1, dated 30 Dec. 1942, initiated action to establish order of priority for the various versions of the A-26 as follows: (1) 75 mm. cannon nose, with two fixed free-firing .50 cal. guns, if feasible, (2) bombardier-observer nose, and (3) a machine gun nose containing a minimum of six .50 cal. free-firing guns. All configurations of the airplane were to include provisions for pilot operation of the torpedo director and torpedo and bomb releases, installation of modified N-3A low altitude combination bomb and gun sight, two .50 cal. guns under each of four wing racks, and C-1 automatic pilot. The first 500 airplanes were to be 75 mm. cannon nose airplanes, and the following ratio was established for all subsequent airplanes:

- 1: cannon nose version
- 8: bombardier-observer nose version
- 8: machine gun nose version

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ARMY AIR FORCES
HEADQUARTERS OF THE MATERIEL COMMAND

WASHINGTON, D. C.

December 30, 1942.

TECHNICAL INSTRUCTIONS

Serial No.: CTI-943 - ADDENDUM NO. 1

10258

Subject: Various Development of Nose for A-26 Airplanes.

To: Technical Executive
Materiel Center, Wright Field
Dayton, Ohio.

cc - 21393
CONTRACT FILES

1. Problem Presented:

a. To definitely fix the development program and production of A-26 type airplanes.

NOTE: This directive supersedes existing directives with respect to the design and production of various armament features of the A-26 airplane, including CTI-796 dated July 18, 1942, and Addendum No. 1 dated July 28, 1942.

2. Authority:

a. Commanding General, Army Air Forces.

3. Action Desired:

a. Priority for the engineering of the requirements as indicated below, will be as follows:

- No. 1 -- 75 mm nose
- No. 2 -- Bombardier-Observer's nose
- No. 3 -- Six (6) .50 caliber machine gun nose.

b. Three (3) versions of the A-26 airplane will be engineered. These versions will be as follows:

(1) One (1) nose design containing one (1) 75 mm aircraft cannon. It is also desired that two (2) fixed free-firing .50 caliber guns be installed in this nose, if feasible.

(2) One (1) machine gun nose containing a minimum of six (6) .50 caliber free-firing machine guns.

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(3) A bombardier-observer's nose complete with the addition of a minimum of two (2) free-firing forward .50 caliber machine guns.

a. All provisions for the "M" Series bombsights, including mounting brackets, mounting, etc., will be installed.

b. Provisions will be made including mounting brackets for a drift sight.

c. Armor plate protection from ground firing will be provided. This protection should include a hinged bullet-proof glass or armor for the bombardier's window.

d. All versions of this airplane will include the following:

(1) Complete provisions for bomb release from the pilot's cockpit.

(2) Provisions for a torpedo director and releases.

(3) Provisions for installation of the modified N-3A low altitude combination bomb and gun sight, or the type N-6 sight. Auxiliary ring and head sight will also be provided.

(4) Provisions will be made for mounting two (2) .50 caliber machine guns under each of the four (4) wing racks. These installations will be made so that they are completely contained and may be mounted or removed easily and at will.

(5) All versions of this airplane will contain provisions for and will have installed the C-1 automatic pilot.

(6) It is desirable that a bath tub arrangement containing two (2) 37 mm high velocity guns be engineered and produced for this airplane. However, in view of the results obtained with the A-20 airplane, this may not be feasible. It is desired, however, that a study be made to determine whether or not such an installation is feasible and satisfactory on this airplane, with a view toward procurement of same. If such an installation is satisfactory, it should be designed so that it can be removed or installed at will, and all provisions for the operation of this installation will then be completed in the airplane.

*Already found unsatisfactory
no future study or expenditure*

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d. For production planning purposes, the following numbers and ratios of the aforementioned three (3) versions of this airplane are established:

(1) The first 500 airplanes will be made for and with the 75 mm cannon nose.

(2) The following ratio is established for all airplanes after the first 500:

- 1: - Cannon nose version
- 8: - Bombardier-Observer's nose version
- 8: - Machine gun nose version

(3) The twin .50 caliber wing rack installation for each rack will be procured for all airplanes.

(4) If after the result of study as directed in paragraph g. (6), it is found feasible to fabricate and install a bath tub with two (2) 37 mm high velocity guns, procurement of this installation will be made for twenty-five percent (25%) of all airplanes.

By command of Major General ECHOLS:

[Signature]

John T. Murtha, Jr.
Colonel, Air Corps
Chief, Armament Section
B. W. CHIDLAW
Brig. General, U.S.A.
Assistant Chief of Staff (E)

1-7-43 - Dist. by Eng. Div.
Orig. - Bombardment Branch
Cys. - Gen. Carroll
Tech. Staff
Airo. Proj. Sec.
Airo. Lab. (2)
Flt. Res. Lia. Br.
Armament Lab. (2)

1/14/43 - Dist. by Prod. Div.
Orig. & copy to Bombardment Branch
CC: Aero. Equipment Branch
Prod. Control Section
Chief, Airplane Projects
Ordnance Repr. (Col. C.H. Morgan)
Prod. Div. Adm. Staff File

NOTE: The original of this OTI, which was sent to Eng. Div. by T.E., was forwarded to Prod. Div. for action.

[Signature]
K. E. WOLFE, Brig. Gen., U.S.A.
Chief, Prod. Division

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