Conficulty of the Air Corps, Material Division

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MEMORANDUM REPORT ON hrein B-26 Airplane, A.C. No. 40-1364

Date December 27, 1941

SUBJECT: Comparative Performance Tests

SECTION Plying Breach

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Contract No. R-535 A0-13243

Expenditure Order No. 126-1-26

SERIAL No. PRQ-1-19-1329-4

MICH C. A.

Purchase Order No....

A. Purpose

11 to 8 Oct 1947

- 1. To report on comparative performance tests of the 3-26 airplane, A.G. No. 10-1361, as a standard airplane and with a modified glove wing. Airplane equipped with two (2) Frutt and Whitney 3-2500-5 engines and four bladed constant speed propellars, blade design No. 514:053-154, blade angle range 23° to 55° at 12° radius. Gross weight as tested was 26,545 lbc. at 15.5% m.a.o., wheels up. Wing flaps neutral, landing gear retracted, eil cooler shutters alosed, cowleftaps closed, and carbureter cold.
- B. Results: Horsepowers based on curve T-660 (Revision dated 8-9-40) of Spec. No. 50190.
  - 1. Standard airplane:
    - a. High speed was 305 mph at wide open throttle at 2590 rpm at 15,100 ft. with mixture auto rich (approx. 1390 bhy per engine).
    - b. Calibrated indicated stalling speed at approximately
      15,000 ft. with engines idling was 112 mph with flaps and
      gear retracted, and was 96.5 mph with flaps and gear dom.
  - 2. Airplane with medicied glave wings
    - at 11, 16 for state states once with (approximately the the).
    - b. Saliberted indicated stalling speed at approximately 15,000 fts with sagine idling was 111 mpt with flaps and gone up and 96.0 mpt with flaps and gone in and

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Plying Breech Michaelma Europe no. Physic-19-1329-4 December 27, 1961

- 3. Due to the fact that there was such a large difference in speed with and without the wing glove and that there were no torque meters on the engines, it was intended to run the tests over again with and without the glove to check above results, but the airplane was transferred before these tests could be made.
- 4. Results of landing and take-off tests will be reported by the Aircraft Laboratory.
- 5. Pilots report no noticeable difference in landing and take-off between the two conditions. Lateral control with the modified wing was inferior to that with the standard wing, although pilots also report that lateral control varies with individual B-26 airplanes.

Approved by State Chief, Paris Branch

Concurrence:

Approved by . F. O. Champs, Locales Ask.

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Distribution (Attack Place)

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