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WED-449

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ARMY AIR FORCES
HEADQUARTERS OF THE MATERIEL COMMAND

WASHINGTON, D. C. JHO:jjb:HQP
Wright Field, Dayton, Ohio
29 March 1944

TECHNICAL INSTRUCTIONS

Serial No.: CTI-1659

Subject: Modification of Fighter Aircraft for
use of Grade 150 Fuel.

To: Production Division ✓

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AUTH: C. G., AAF Command
Materiel 04/44
DATE: 29 March 1944
INITIALS: JHO

CENTRAL FILES
4-10-44

1. Problem Presented:

a. To modify P-38, P-47 and P-51 airplanes in the United Kingdom for the use of Grade 150 fuel.

2. Factual Data:

a. The subject project must of necessity have the highest coordination between the Production and Engineering Divisions and Air Service Command.

b. Captain M. H. King, Overseas Section, Air Service Command, Major W. H. Towner, Fighter Branch, Production Engineering Section, and Captains J. Duckworth and B. S. Bailey of Power Plant Laboratory, Engineering Division are the people to be contacted for information concerning this project.

c. The Air Service Command will establish an overseas project number and the methods of shipping for all parts required of this project.

3. Authority:

a. Commanding General, Army Air Forces. By secret teletype AFDMA-2E-7582 dated 28 March 1944, received from Chief, Development Engineering Branch, Materiel Division, Office, AC/AS, M. M. & D.

Classification cancelled
or changed to

AUTH: CD

356
Signature and Grade

30 Mar 44 - Dist by Prod Div

Orig & cy to Fighter Branch ✓

Action cy to Aero-Equip Br: (2) thru Chief PWS

Necessary action in coordination

CC: Chief, Airplane Projects (Thru Chief PBS)
Resources Control Section
Prod. Division File

Date 11-4-45

FILE
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W. E. DOWNIELLY
Asst. to Chief,
Production Division

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WER-449

ARMY AIR FORCES
HEADQUARTERS OF THE MATERIEL COMMANDJHO:jjb:HQP
WASHINGTON/D/C/ Page -2-
Wright Field, Dayton, Ohio
29 March 1944

TECHNICAL INSTRUCTIONS

Serial No.: CTI-1659 (Continued)

Subject: Modification of Fighter Aircraft for
Use of Grade 150 Fuel.

To: Production Division

4. Action Desired:

a. The Production Division will accomplish the following:

(1) Procure kits of the necessary parts to modify all P-38, P-47 and P-51 airplanes in the United Kingdom for the use of Grade 150 fuel. (This is subject to the qualifying for the use of Grade 150 fuel of the engines used in the subject aircraft) The quantities of the parts to be procured in accordance with the above action are to be determined in collaboration with the Engineering Division and the Air Service Command.

(2) Advise the Chief, Development Engineering Branch, AC/AS, MM&D, by teletype, at the earliest possible date of all changes and modifications effecting each airplane, time required to make parts available and time required to make modifications to airplanes.

b. The Engineering Division will furnish all necessary technical information and instructions necessary to accomplish the above. Specifically, the Engineering Division will furnish the Production Division and the Chief, Development Engineering Branch, AC/AS, MM&D, information relative to the action to be taken to obtain suitable spark plugs for use in Allison engines.

c. This project is to receive the highest priority and every effort will be made to get these modification kits to the Theater of Operations within thirty (30) days.

By Command of Major General BRANSHAW:

cc: Engineering Division
Air Service Command (3)

Archives of M. Williams

Classification Cancelled
Auth: Dir., AMCBy *Gme R205-18*Date *7-22-49*Classification cancelled
or changed toAUTH: *00356*

By

Signature and Grade

Date *11-1-45*~~SECRET~~*T. A. Sims*
T. A. SIMS,
Colonel, Air Corps,
Deputy Chief of Staff.

mfw
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ARMY AIR FORCES
HEADQUARTERS OF THE MATERIEL COMMAND

~~CONFIDENTIAL~~
TECHNICAL INSTRUCTIONS

EHW:cjt:HQP
Wright Field, Dayton, Ohio
5 May 1944

Serial No.: CTI-1659, ADDENDUM NO. 1

Subject: Modification of Fighter Aircraft for
use of Grade 150 Fuel

To: Production Division

1. Problem Presented:

a. It has been determined that the kits being made up for modification of fighter aircraft for the use of grade 150 fuel will result in the increased War Emergency Kits for P-47 Airplanes being of no further use. It has therefore been directed by the Office, Assistant Chief of Air Staff, Materiel, Maintenance and Distribution that action be taken to discontinue the stockpiling and deliveries on the 1,000 increased War Emergency Kits for P-47 Airplanes.

2. Factual Data:

a. Reference is made to the statements contained in CTI-1581, Addenda 1 and 2 concerning the need for inconel packing for P-47 Airplanes in particular and for all other turbo supercharged airplanes in general in which its use is necessary. There is still a requirement for this packing and at the present time it is being included in the kits for fighter aircraft for the use of grade 150 fuel.

3. Authority:

a. Commanding General, Army Air Forces, by teletype AFDMA-2E-167, dated 1 May 1944, from, Chief, Development Engineering Branch, Office, Assistant Chief of Air Staff, Materiel, Maintenance and Distribution.

4. Action Desired:

a. That the Production Division take necessary action to utilize that portion of the equipment procured under CTI-1581 and Addenda 1 and 2, which can be applied to the project for modification of fighter airplanes to use grade 150 fuel and that action be taken to discontinue stockpiling of the 1,000 increased War Emergency Kits for P-47 Airplanes. In addition the Production Division will take necessary action to make any cancellations in the procurement authorized under CTI-1581 and Addenda thereto which can not be

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By

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ARMY AIR FORCES
HEADQUARTERS OF THE MATERIEL COMMAND

EHW:cjt:HQP
Wright Field, Dayton, Ohio
5 May 1944

TECHNICAL INSTRUCTIONS

Serial No.: CTI-1659, ADDENDUM NO. 1

Subject: Modification of Fighter Aircraft for
use of Grade 150 Fuel

To: Production Division

utilized in the program for modification of fighter aircraft for the use of grade 150 fuel.

b. These Technical Instructions cancel and supersede CTI-1581, Addenda No. 1 and 2.

By Command of Major General BRANSHAW:

J. a. Simms

T. A. SIMS
Colonel, Air Corps
Deputy Chief of Staff

cc: Engineering Division
Air Service Command
Inspection Division

8 May 44 - Dist by Prod Div
Orig & cy to Fighter Branch ✓
Action cy to Aero Equip Branch (2)
CC: Chief, Airplane Projects
Resources Cont. Section
Prod. Division File

W. E. DONNELLY
Asst. to Chief,
Production Division

Classification Cancelled

Auth: Dir., AMC

By Amc P200-18

Date 7-22-49