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ARMY AIR FORCES
HEADQUARTERS
AIR TECHNICAL SERVICE COMMAND

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SECRET	(5-6189)
TOP SECRET	HFM
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REMARKS	
PERMANENT <input checked="" type="checkbox"/>	TRANSITORY <input type="checkbox"/>

TECHNICAL INSTRUCTION 8-7777

Wright Field, Dayton, Ohio
13 December 1944

SERIAL NO.: TI-2010, ADDENDUM 1 *103*

SUBJECT: Power Plant Fuel (PPF) 100/150 Grade Fuel.

TO: Procurement Division
Maintenance Division
Supply Division
Engineering Division

1. Problem Presented:

a. To install such equipment, as required for the use of grade 100/150 (PPF) fuel on all P-38 and P-51 airplanes destined for the European Theater of Operations, prior to departure from this country without delay in delivery of production aircraft.

b. To prepare and ship kits for the modification of P-38 and P-51 aircraft which were not previously modified in this country.

2. Factual Data:

a. The European Theater of Operations has made the decision that replacement P-38 and P-51 aircraft will have complete PPF modification before being declared operational. The European Theater of Operations states that sufficient material is on hand to modify all aircraft arriving through November 1944.

b. It is understood that the production P-47 aircraft can use the PPF fuel without further modification.

c. Modifications required to the P-51B and P-38J and L series airplanes set forth in the original PPF project are not valid at this time due to partial incorporation of PPF project requirements in present production airplanes.

d. The theater has been requested to advise the number of aircraft by type and model which require such modification.

e. It is understood that production P-51 aircraft which will arrive in the Eighth Air Force during December and January

Classification Cancelled

Auth: Dir., AMC

By *Gene R205-12*

Date *7-22-49*

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Y-114618

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~~AUTH: By *CA 356* Signature and Grade~~

~~Date *11-1-45*~~

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are completely modified for PPF operation except for regulator valve, aneroid, spring, part number 620673, and that sufficient springs have been contracted for.

f. P-38 replacement aircraft are completely modified except for means of obtaining seventy (70) inches manifold pressure, and a contract for four hundred (400) modified type C-2 turbo regulators to obtain for 70 inches manifold pressure operation will be let.

g. Reference is made to CTI-1659, directing the procurement of kits to modify all P-38, P-47 and P-51 airplanes in the European Theater of Operations for the use of grade 100/150 PPF Fuel.

3. Authority:

a. Commanding General, Army Air Forces. By teletype WAR 73912, dated 7 December 1944, with regard to above subject, from Chief, Production Branch, Assistant Chief of Air Staff, Materiel and Services.

4. Action Desired:

a. That the Engineering Division furnish the Procurement, Supply and Maintenance Divisions with a complete list of conversion parts required to obtain the approved War Emergency Rating when the PPF fuel is used, and appropriate installation instruction to the Maintenance Division. The list will also include any necessary part numbers, for synthetic rubber parts to decrease maintenance when this fuel is used.

b. That the Procurement Division take necessary action to have installed such equipment as is required for the use of PPF fuel in production P-38 and P-51 aircraft.

c. That the Maintenance Division take action to install those parts required for the use of PPF fuel in P-38 and P-51 aircraft destined for the European Theater of Operations, not already so modified.

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AUTH: ED 352
By

Signature and Grade

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d. That the Supply Division take the necessary action to procure and distribute PPF modification kits as outlined above.

e. This project has a 1-B priority.

By Command of Lt. General KNUDSEN:

T. A. Sims
T. A. SIMS
Colonel, Air Corps
Chief of Administration

Archives Of M. Williams

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