ARMY AIR FORCES
HEADQUARTERS
AIR TECHNICAL SERVICE COMMAND
TECHNICAL INSTRUCTIONS

SERIAL NO.: TI-2010, ADDENDUM 1

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: [Signature]
      Date: 7-24-45

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

 e. This project has a L-B priority.

By Command of Lt. General KNIDSEN:

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