Must remain with attached papers

HUMBER EACH MEMO OR REPLY IN LEFT BORDER. DRAW LINE UNDER EACH AND INITIAL IN RIGHT BORDER.

7	No.	то	FROM	DATE	SUBJECT: Request for Grade 100/150 1.5 T Aviation Fuel for Eighth Air Force Fighter Units on Continent. Enter File Classification AG: 463.7 V/WGT/FM
1	1	CG ASC D	D/Supply	ply 5 Feb 45	1. The Eighth Air Force has initiated an inquiry as to whether Aviation Fuel Grade 100/150 can be made available for Eighth Air Force Fighter Groups operating from Continent. (Copy of General Doolittle's cable attached).

on the Continent was considered previously when the Ninth Air Force wanted this fuel. It was then decided that Grade 100/150 fuel would not be supplied to U.S. Air Forces on the Continent either in part or whole. (See copy of cable UAX-50662, 17 November 1944, attached hereto)

3. General Doolittle's initial request is for only 800,000 gallons per month of Grade 100/150 1.5 T Fuel for a probable three month period. With present stock production U.K. refineries and with present barrel and jerrican availability in U.K. this initial demand could be met. This involves the loading and shipment to the Continent, against allocated Air Force tonnage of 18,000 tons per month of approximately 20,000 drums per month or 3,280 odd tons per month.

finite date that from two to four additional groups of Eighth Air Force Fighters might be moved to the Continent. This would augment the demand for Grade 100/150 1.5 T fuel at the rate of 400,000 gallons or 10,000 drums or 1,640 tons per group per month. This is a very indefinite factor, however, but should be considered as well as the possibility that the Eighth may want to move more than four additional groups to the Continent. Any increase over the initial Eighth Air Force demand of 800,000 gallons per month will require consideration in each instance since the availability of containers is limited and supply in bulk may not be practicable, especially if the sir strips are widely dispersed and unsuitably located.

demands can well be met yet from a foresighted supply standpoint, especially with any ranic forward push beyond the Rhine with subsequent moves of air strips into German territory, the same reasons which prompted the original decision not to introduce Grade 100/150 on the Continent still exist, augmented by a few others.

These reasons are:

a. With the appearance of Grade 100/150 1.5 T fuel on Eighth Air Force Strips adjacent to Ninth Air Force Fighter Strips, the immediate reaction of General Vandenburg's people would be, "If you can do it for one, you can do it for all. We want it too". This could not be done as production of 100/150 1.5 T fuel is not sufficient to supply fully both Eighth Air Force and Ninth Air Force demands. U.S. production of essentials for 150 fuel have ceased as a result of the previous decision of Ninth Air Force not to use this type fuel. A demand from the Ninth Air Force would probably be followed by a like memand from the First Tactical Air Force (Prov).

PAGE No. ..

. /-	FROM	DATE		
premise rear and	of one grad	e aviation	soline program on the Continent was fuel. From port, through the pipe at storage facilities on air strip	line system, in
for 150 demand as of the protime we con the Consystem to	ruel would in consumption of consump	be for the ion. This tion fuel imately 35 A replacement supply	Force and First Tactical Air Force of fighters only it would represent would mean complete replacement of stock pile on the Continent today. 000,000 gallons of aviation grade ent of 45% of this would mean a duals,750,000 gallons for Ninth Air Forme.	about 45% of their approximately 45% At the present 100/130 overall 1 distribution
	Additional on of the		units would doubtless be needed t	o insure proper
by the	irector of	Maintenan	6. Maintenance factors in	volved as furnished
of grade been run	100/150 fur in the U.S.	el in the	a. The preliminary wo J.K. began in May 1944. Many exper- theater was advised of the followi	imental tests had
engines o	an be exper	eted, howe	(1) A reduction of make the reduction does not make the	
creased	out are not	prohibiti	(2) Maintenance p	roblems are in-
gaskets	and seals.	-	(g) Deterior	ation of rubber
tional et	hylene dib	comide. A	(b) Increased lly corrected at the present time by iditional ethylene dibromide increased corrosion).	y using addi-
parts per	mit use of	grade 150	(3) Incorporation fuel in high powers.	of modification
indicated	with all	affected a	(4) Increased per- irplanes, most notably with the P-5	
difficulthe disaction five types of	ies would the to fifteen	By using miles per The follow	h. Fighth Air Force do seven though it was realized some or and the However, it was felt the advitions fuel the fighters speed increase hour. (The speed increase varies owing power operating limits show so	maintenance antages outweighed sed approximately with different

NU DO DINATEUR MIN FUNDED IN EURUPE

Must remain with attached papers

JUMBER EACH MEMO OR REPLY IN LEFT BORDER. DRAW LINE UNDER EACH AND INITIAL IN RIGHT BORDER.

N .	70	FROM	DATE	SUBJECT: Request for G for Righth Ai Enter File Classification AG:	rade 100/150 1.5 T Aviation Fuel r Force Fighter Units on Continer (Con't)
				(1)	P-47 Aircraft - Grade 100/130 Ft
					Without Nater Injection 52" MAP "ith Water Injection 58" MAP Using PPF Kit and #18 Water Je With Water Injection 61" MAP.
				= 1997	Grade 100/150 Ft
	**************************************	*			Without Water Injection 62" MAP Takeoff. War Emergency Without Water In- jection 62" MAP. War Emergency with Water Injecti 67" MAP.
				(2)	P-51 Aircraft - Grade 100/130 F
				= 2 -	Take-off power 61" MAP. War Emerbency 67" MAP.
	. =			0 10 10 10 10 10 10 10 10 10 10 10 10 10	Grade 100/150 F
				~ T. W. T.	Take-off power 61" MAP/ War Emergency 72" MAP.
	the modi	sary modification of Area beca these air	ication : F-6 Air suse some craft ha	Depot Area for Eighth for use of grade 150 for craft for use of 150 for of these aircraft were into be remodified by he is 100/130 fuel here on	
	miles pe dire nee German j	r hour in d of this et fighter to make a n the Cont	speed an advantage s, Grade onreciabl	150 fuel offers, namely d climb. It does not against German propel 150 does not begin to e difference. Hence,	isadvantages far outweigh the only an increase of ten to fifteen appear that our fighters are in lor driven fighters. As against offer enough increase in speed it appears that the existing 0/150 either in part or whole
		- 8			lso evidenced interest in the

PAGE No. _____ LIFT HERE, USE OTHER SIDE

NO.	то	FROM	DATE	
	Etheline it would tinental indicates planning	Dibromide mean the a ports of e that befo supply sta	and that dwent of htry, name a final fif be per	are using 100/150 fuel with one (1) Theory of should the Eighth Air Force's request be granted, still a third grade of aviation fuel through concly, 100/150 with 1.5 T Etheline Dibromide. SHAFF affirmative answer be given that their overall mitted to interject a word as to availability and see and shipping space.
	cision be	ong range rendered lowed in t	and direct	9. In view of the various factors listed herein ties involved, it is requested that a command decion given to this Division as to the supply course
	Incl 2	- TWX fr U	SSTAF to	(Sgd) ? Colde J. H. HOUGHTON, Brigadier General, USA, Director of Supply. D-66015 dtd 27 Jan 45. SHAFF Air (Main), UAX-50662, 17 Nov 44. a) Air to Hq Com Z, A/POL/2 dtd 18 Nov 44.
2	DC/Ops	CG, ASC	5 Feb 45	It is recommended that this request be not favorably considered. This action approved by Gen. Knerr. (Sgd) C.P. Kane C. P. KANE Brigadier General, USA, Gommanding,
3	D/Supply thru DC/Ops	D\0ba	5 Feb 45	Concur in comment 2. (Sgd) ARM ALFRED R. MAXWELL, Golonel, Air Corps, Director of Operations.