

1. Deputy Director 23/11  
Commanding of 1944  
General Supply  
ASC,  
USSTAF.

1. The following information regarding Grade 100/150 aviation fuel is furnished for your information.

2. Grade 100/150 aviation fuel is currently being produced in the United Kingdom at the rate of 32,000 tons (12,096,000 U.S. Gallons) per month. This could be increased to a maximum rate of 48,000 tons (18,144,000 U.S. Gallons) per month, if necessary. The limiting factor in United Kingdom production is availability of monomethyl aniline (MMA). Supplies of aniline are critical in the U.S.A. so there is very little hope of further increasing United Kingdom production of Grade 100/150.

3. Current requirements of Grade 100/150 are confined to the United Kingdom and amount to around 23,000 tons (8,694,000 U.S. Gallons) per month as follows:

USAAF (VIII Fighter Command)	20,000 tons
RAF (Fighter Command)	2,000 "
Engine Manufacturers etc.	1,000 "

These requirements will rise in January, 1945, to 32,000 tons per month due to an increase in the RAF requirement from 2,000 to 10,000 tons per month. In addition there will be a further RAF requirement for 2nd Tactical Air Force on the Continent. This requirement is expected to be around 15,000 tons per month, making the total requirement for the theatre approximately 47,000 tons per month.

4. Grade 100/150 fuel could be produced in the U.S.A. with xylidines (CS) instead of monomethyl aniline. Until recently all xylidine production in the U.S.A. was being used to make 98/130 and 99/130 grade fuels to help ease the worldwide shortage of aviation fuel. For this reason, none was available for Grade 100/150 fuel. However, in September, the worldwide supply of aviation fuel improved sufficiently so as to permit discontinuance of the use of xylidines in producing Grade 98/130 and 99/130 fuels. Present xylidine production is capable of sustaining a production of approximately 65,000 tons of Grade 100/150 per month.

5. The U.S.A. authorities have asked this theater to advise whether any Grade 100/150 fuel will be required from the U.S.A. since otherwise plants now producing

~~SECRET~~ S.D. FILE xylidines

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xylicines will be closed and personnel and facilities used for other projects. Because requirements in the theater can be fully met from United Kingdom production the U.S.A. is being advised that no Grade 100/150 will be required from the U.S.A.

7. As matters now stand, the only organization which will use Grade 100/150 on the Continent is the 2nd Tactical Air Force. General Spaatz has decided that U.S. Air Forces on the Continent will not use this fuel either in whole or part. This decision was based on maintenance and distribution difficulties

J.H. HOUGHTON  
Colonel A.C.  
Director of Supply.

*I think this page belongs  
to one it is stapled to, but  
notice that the paragraph  
# jumps from 5 to 7.*

WWII aircraft performance