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Memo to V. Bush

discussed by JBC  
before flying on March  
10, 1943

From J. B. Conant

Date Jan. 21, 1943

The latest news from the electromagnetic front via Gen. Groves is (1) Tennessee Eastman are quite confident that process can be made to work. It now seems quite certain that each tank will yield from 50 - 300 mg per day.

at 500 tanks this means 50 - 150g per day.

If priorities can be settled there is a chance

this output can begin November 1, 1943 (First set of

tanks Aug 1), [I don't know now, March 10, 1943; a tank will require 24 kilowatts, 100g of U<sub>235</sub> by June 1, 1944. Will take till Sept 1, 1944. The Feb 1, 1944 at rate of 100 gm per day. This might amount to there is still a chance for a military effort in 44. near first military result July 1, 1944 allows

four months for developing bomb and manufacturing

material for a second. I still believe having

missiles, but date is Sept 1, 1944. The Chicago

method might come along at the same point.

So we have two chances of making that

schedule.

J. B. C

# Metallurgy

- (2) Cross
- (3) ~~Sub~~ Development of techniques for handling material in bulk  
70-80, 90% of critical
- (4) What cases are effective?
- (5) Further atomic research on cross sections
- (6) No. of neutrons for fission
- (7) Capture + emission of neutrons / Baha, 7
- (8) Cross section & scattering
- (9) Fission problem  
Length of time first mass steps in
- (10) ~~Source of source~~ Neutron source
- (11) Effectiveness of dilution
- (12) Protection against thermal neutrons

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