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August 2nd, 1939

F.D. Roosevelt, President of the United States, White House Washington, D.C.

Sire

Some recent work by E.Fermi and L. Szilard, which has been communicated to me in manuscript, leads me to expect that the element uranium may be turned into a new and important source of energy in the immediate future. Certain aspects of the situation which has arisen seem to call for watchfulness and, if necessary, quick action on the part of the Administration. I believe therefore that it is my duty to bring to your attention the following facts and recommendations:

In the course of the last four months it has been made probable through the work of Joliot in France as well as Fermi and Szilard in
America - that it may become possible to set up a nuclear chain reaction
in a large mass of uranium, by which wast amounts of power and large quantities of new radium-like elements would be generated. Now it appears
almost certain that this could be achieved in the immediate future.

This new phenomenon would also lead to the construction of bombs, and it is conceivable - though much less certain - that extremely powerful bombs of a new type may thus be constructed. A single bomb of this type, carried by boat and exploded in a port, might very well destroy the whole port together with some of the surrounding territory. However, such bombs might very well prove to be too heavy for transportation by air.

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The United States has only very poor ores of u quantities. There is some good ore in Canada and the while the most important source of uranium is Belgia

In view of this situation you may think it des permanent contact maintained between the Administrat of physicists working on chain reactions in America of achieving this might be for you to entrust with t who has your confidence and who could perhaps serve capacity. His task might comprise the following:

- a) to approach Government Departments, keep th further development, and put forward recommendations giving particular attention to the problem of securi ium ore for the United States;
- b) to speed up the experimental work, which is ried on within the limits of the budgets of Universi providing funds, if such funds be required, through private persons who are willing to make contribution and perhaps also by obtaining the co-operation of in which have the necessary equipment.

I understand that Germany has actually stopped from the Czechoslovakian mines which she has taken o have taken such early action might perhaps be unders that the son of the German Under-Secretary of State, attached to the Kaiser-Wilhelm-Institut in Berlin wh American work on uranium is now being repeated.

Yours ve