AIR FORCE ORDERS PLANE PROPELLED BY ATOMIC ENERGY

and Very High Speed

Be Needed for Development Before First Flight

HAROLD HINTON B

NEW YOU WASHINGTON, Sept. 5—The Air Force announced today that it had awarded a contract for the development of an airplane to be propelled by a nuclear reactor.

The amnouncement that it is considered approximate a start work as

sidered opportune to start work on an airplane frame capable of car-

sidered opportune to start work on an airplane frame capable of car-rying the extremely heavy weights likely to be involved ruggested that work on an atomic power plant had possibly progressed faster than officials originally be-lieved. None would offer an esti-mate when the completed airplane might be expected to fly, but most officials indicated that it would be a matter of years.

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The Navy announced two weeks ago it had let a contract for a submarine to be propelled by atomic energy. Such a craft pre-

atomic energy. Such a craft pre-sumably would have unlimited range and high speed, and similar characteristics would be expected

of an atomically driven airplane.

Work on the nuclear power plant for the aircraft is being performed by the General Electric Company. A contract for development of a suitable airfrance.

Company. A contract for develop-ment of a suitable airframe to carry it has been let to the Con-solidated Vultee Aircraft Corpora-tion, San Diego.

Work May Be Done in Texas

The work is expected to be done at the company's plant in Fort Worth, Tex., where the largest airplane now flying in the world—the B-36 bomber and its cargo version known as the C-99—was developed and put in production

wersion known as the C-99—was developed and put in production.
While there are no official estimates of the weight-carrying capacity an atomically propelled airplane would have to possess, it probably is in excess of that of the B-36, which can take off with a maximum load of about 350,000 till

n pounds.

Empty, the B-36 weighs about a 130,000 pounds, including conventional or jet engines. Thus, there exists a theoretical "useful" load

exists a theoretical "useful" load capacity of about 220,000 pounds. Six conventional engines of the type that have been used to power the B-36 weigh about 40,000 pounds. These, of course, would not be present in the atomically powered model. Estimates of the probable weight of a nuclear reactor, with the color of a nuclear reactor of a nuclear reactor.

The B-36 can carry a maximum load of 84,000 pounds in bombs, it was designed envisaged the transport of 10,000 pounds in bombs for a distance of 5,000 miles, and traveling another 5,000 miles away from the target.

Since the probable shorts of 1,000 miles away from the target.

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Since the probable shape of the nuclear power plant has not been disclosed, there were no guesses today regarding possible structural problems in building an airplane to contain it. It was regarded as probable, however, that such problems to the structural to the structural probable to the structura

probable, however, that such prob-lems would substantially increase

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Officials Indicate Years Will

With an Unlimited Range WORK ON 'ENGINE' BEGUN

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Craft is Expected to Be Huge