More POWER NEWS

under construction or design three plants of major size gives some about the present status of the controlled nuclear energy. One nuclear power plants is a could be installed in a submarine. full-size working model of the atomic plant located at the Reactor Testing Station near *The second plant is* known as Mark manufacture has been started on the components. The *submarine* for which the keel was laid by the Boat Co last July, will be *the* marine to receive this revolutionary type of power plant. In the reactors Mark I and Mark II, water is both moderator and the primary coolant. In the Nautilus, nuclear energy will to use for large-scale control-power tion for the first time. This will an around-the-world submarine. project concerns the design and ment of another nuclear power plant *times larger than those mentioned* It is planned that this power plant *suitable to power major naval vessels* as aircraft carriers. However, it could be a forerunner of the reactors which day can be used to produce useful *including electricity for homes* dustry.

A 36,000-hp wound-rotor electric motor, one of the world's largest, has been installed in the Boeing Airplane Co. tunnel at Seattle. Custom-built by Westinghouse Electric Corp, the new motor will be used in conjunction with the tunnel's original 18,000-hp motor, giving Boeing the most powerful privately-owned *wind tunnel in the world. It stands* high, weighs 225,000 lb and will operate *480 rpm, with a clearance of .09* inch between rotor and stator.

Delayed delivery of three carloads of *generator parts for the Detroit Dam* hydro-powerhouse has postponed the *tion date of the Willamette Valley* unit. The generating plant was scheduled to start turning out power for the Bonneville Power Administration system by Jan. 1. But the delay, according to Rutherford, project engineer, means require most of the winter to assemble parts and place generators in operation. Detroit Dam will have a peak output of 100,000 kw. The Big Cliff Dam and power house, 3 mi downstream, are slated to generate a constant 18,000 kw.

Electric power from the Aqueduct Owens Gorge hydroelectric plants of Los Angeles Department of Water & Power started flowing into the west Fernando Valley December 15, in time to avert a threatened power shortage in the area this winter. *Initial operation* of the line will supply the West Valley area with *an additional 35,000 kilowatts of power* vitally needed by the fast growing area, *where electric demands have more* than tripled in the past 10 years.