Westinghouse Electric Turbine Generator

The turbine generator unit as supplied by the Westinghouse Electric Corporation is a two cylinder tandem compound condensing reheat turbine. At rated speed of 3600 rpm the unit is designed for 60,000 kw, 0.80 power factory, 75,000 kw maximum rating, when supplied with steam at 1450 psi gauge throttle pressure, 1000 Degrees F total temperature with reheat at 1000 Degrees F total temperature and 1.0" Hg absolute exhaust pressure.

The unit will have sufficient turbine capacity to carry 75,000 kw when operating under steam conditions of 1450 psi gauge, 1000 Degrees F total temperature with reheat to 1000 Degrees F total temperature and condensing to 2-1/2" Hg absolute.

The unit is covered by Westinghouse Electric Company Contract No. G.D. BG 78800-TP with serial numbers and ratings as follows:

Turbine No. H.P. 5-A7080-1, LP 5A-7081-1, 60,000 kw, 3600 rpm, 36 stages Generator No. 1-S-36-P-725, 75,000 Kva, 3600 rpm, 13,800 volts, 0.5 psig H2 press. Main Exciter 225 kw, 3600 rpm, 250 volts Pilot Exciter 2.5 kw, 3600 rpm, 250 volts

The approximate weights of the unit are as follows:

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H.PO.P. Turbine Cylinder Cover L.P. Turbine Cylinder Cover L.P. Turbine Blade Ring (Upper Half) H.PI.P. Turbine Rotor L.P. Turbine Rotor Generator Rotor Generator Stator Turbine exhaust chamber	35,000 pounds 30,000 pounds 34,000 pounds 25,000 pounds 29,000 pounds 60,300 pounds 242,450 pounds 76,000 pounds
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