

Annotation (Summary)

course project "Steam generators and heat exchangers of NPP"

(credit 2.1.02/2).

Course project on "NPP steam generator" contains:

1. Calculations of:

- thermal balance and thermal chart of steam generator;
- thermal design of heat transfer surface area of steam generator;
- structural calculation and determination of the main dimensions and

layout features heat exchange surface of the steam generator and its individual elements;

- strength calculations of the elements of steam generator;
- calculations of bubbling and steam separation devices;
- hydraulic calculation - determining the pressure loss of coolant within the steam generator path and pump power.

2. Graphic part: the general form of steam generator drawings and working drawings of some of its elements (detailing).

Individuality of course project is defined by the prototype of steam generator and input parameters.