Abstract

Chimney is a very important industrial buildings in the construction of Steam Power Plant. Chimney functions as a repository of the results of the disposal of the material or granular material from the coal and fly ash from the boiler.

In this final project will be planned in the power plant chimney structure. Structure of planned use of reinforced concrete chimney that has a height of 80 meters with a diameter below 7.3 meters and 4.1 meters diameter below. The structure includes: a wall with reinforced concrete, beams, columns and pile cap, drill foundation pile.

The calculations were carried out in this final project refers to the existing regulations on SNI 03-2847-2002 mengenai tata cara perhitungan struktur beton untuk bangunan gedung, SNI 03-1726-2002 tentang standar perencanaan ketahanan gempa untuk struktur bangunan gedung, Peraturan Pembebanan Indonesia Untuk Gedung (PPIUG 1983), Uniform Building Code 1997 (UBC 1997) volume 2. and modeling the structure used
computer program SAP2000. While the load is calculated by the analysis of earthquake response spectrum.