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TUTORIAL SOLUTION

PRINCIPLES OF POWER SYSTEM BY VK MEHTA

SOLUTION#1

Heat produced by fuel by 0.75kg Coal= 0.75x Kcal

Heat equivalent of 1KWh=860Kcal

η =electrical output in heat units/heat of combustion

$$0.15=860/0.75x$$

$$X=7644.44 \text{ Kcal/Kg}$$

SOLUTION#2

$$\eta_{\text{overall}} = \eta_{\text{thermal}} * \eta_{\text{electrical}}$$

$$= 0.30 * 0.80 = 0.24$$

Heat produced/Hour =H= 75MW*860/0.24

$$= 268750 * 10^6 \text{ Kcal}$$

Coal consumption per hour = H/Calorific value

$$= (268750 * 10^6 \text{ Kcal}) / (6400 \text{ Kcal/Kg})$$

$$= 41.992188 \text{ tons} = 42 \text{ tons}$$

SOLUTION #3

Units generated per Day:

Maximum energy that can produced according to load factor:

$$= 65,000 \text{ kW} * 0.40 * 24$$

$$= 624,000 \text{ KWh}$$

As coal consumption 1KWh >> 0.5Kg

So, for 624,000kWh this can be 312,000Kg or 312tons

Efficiency=electrical output in heat units/heat produced by fuel



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