CHAPTER - 01

- 3) Source of energy !
- L. O. The Sun. of Amount in the second
 - 2 11 wind . how hards my
 - (3) vales.
 - Go foels.
 - Onclear energy.
- On the sun: The sun is the pointing source of energy. The heat energy oradicated by the sun can be becomed over a small are by mans of medication. This heat can be used to maise out medicated energy can be produced steam and electrical energy can be produced with the help out durbine-alternation combination.
- Dualer: when water is showed at a suitable place it pomenes potential energy because out the hat created. This water energy can be converted into machanical energy wither the help out water turbiner. The water turbine drives the alternation in mechanical into Electrical energy.

(1) A The main source out of energy are dules. Solid

duel as coal, diquid duel as oil and gas duel of soones of charge

as natural gas.

@ nuclea energy: Towards the end of second would war, id was discovered that large around out head energy is diberated by the bission out ustanium and Missionable maderials.

(1) The wind: This method can be used where n wind allows for a considerable length of time. The wind energy is used to won the wind mill which drives a small generador.

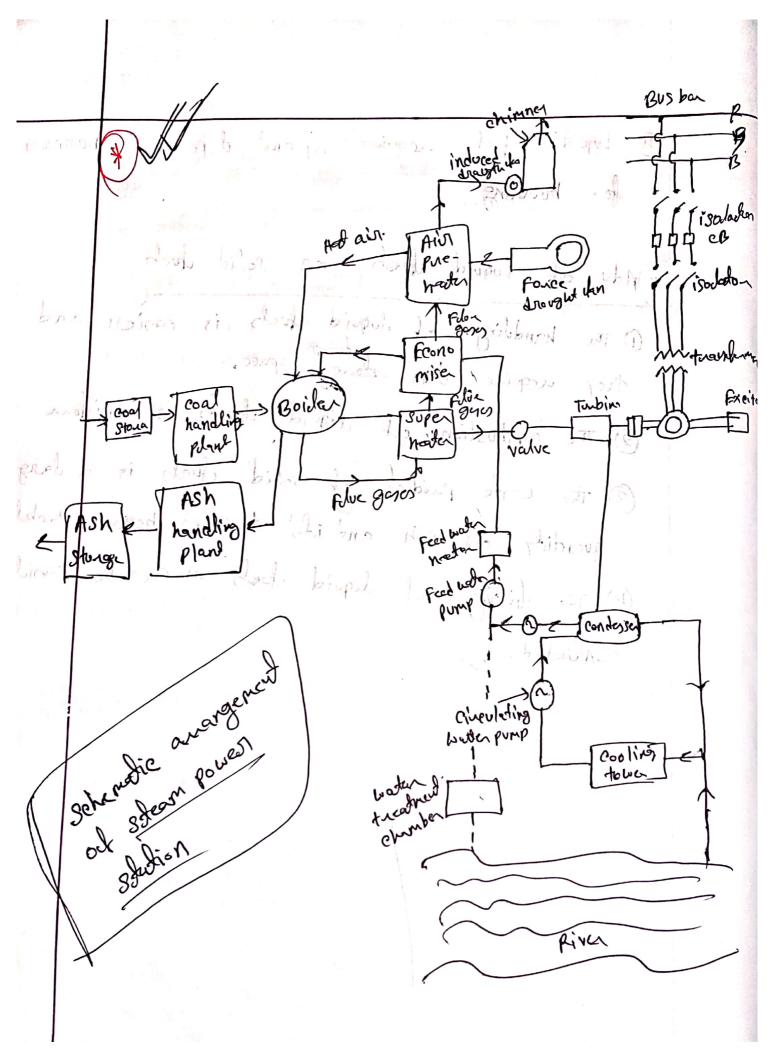
Advantages out social thurs over loguid fuels.

1) In case out doquid which there is a darger out explosion.

(2) Luquid which are contien on compared to solid years.

3) sometimes diquid whele give unpleasand odouss during busining. Several some de la company

1 Liquids whele require special dipe out burners Adv out Luquid which over solid when. 1) The handling out descrid when is easier and require den storage space. 2) The combustion out diquid buels is unich-3) The worke predoct out soulid whele is quartidy out ash and its disposel become problem (1) The biring of liquid web a can be easily controlled.

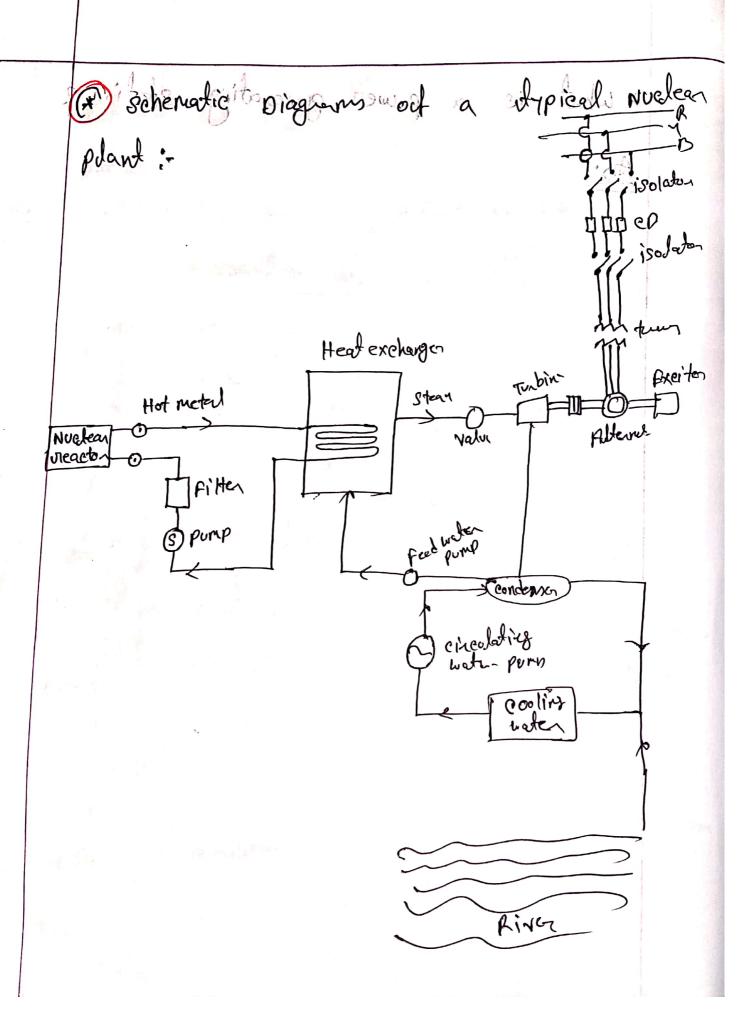


x) Schendic Amangement oct Hydros electric power Solution / plant. main component (DNidnot) O Hydraulie structures and creates water head. 50-100 m earth but high head

(b) Reservoius Stones water jet the wester availability is uneven. Spillways: gives prodection from the @ prenunci Champach: carries water brom reservoir do the beginning of penstock. @ penstocks: a corrier moder do turbine. Desuge truk: a small neservoir on turk uned to limit the abnormal premine in the penstock. water Turbines: @ impuhe Tenbines: (palton dunbine) uned for high heads. x the endine premune of water 1) convented into kinetie energy in

and the velocida of the jet (B) Readion Turbine: (Francis and kapplan durbine * used des low medium heads. * cruide blades control the about of weder 3) Electrical Equipment: The edealrical equipment out hydro-electric power skolon includes alternators breakers and other switching and productive is compared by May premous or a cut

Diagram out gas durbine plant. ges tubiae filter comprehed to high puenue



operation :

Heavy elements such as unanium (U-235) on Thornium (Th-232) are subjected to nuclear fission in a special apparatus known as a reactor. Heart energy released is utilized in naising steam at high temperature and prensure. The steam runs the steam turbine which converts steam energy into nechanical energy.

* Lord Topic -> Types out loads -> chapter-3