

1.13 A power generating station has a maximum demand of 10,000 kW and the daily load on the station is as follows:

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Time	kW	Time	kW
6 a.m. to 8 a.m.	3,500	5 p.m. to 7 p.m.	8,500
8 a.m. to 12 noon	8,000	7 p.m. to 9 p.m.	10,000
12 noon to 1 p.m.	3,000	9 p.m. to 11 p.m.	4,500
1 p.m. to 5 p.m.	7,500	11 p.m. to 6 a.m.	2,000

- Draw the load curve and the load duration curve.
- Choose the size and number of generating units.
- Draw up the operating schedule of the units.
- What reserve plant would be necessary?
- Calculate the load factor, plant capacity factor and plant use factor of the station.

[Ans. (b) Three units of 5000, 2500 and 2500 kW capacity,
(d) 5000 kW, (e) 55%, 36.66%, 86.5%]

Power Plant Engineering Third Edition

**National Electric Light Association.
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Power Plant Engineering Third Edition:

Electric Power Plant Engineering ... Third Edition Joshua WEINGREEN,1922 Power Plant Engineering ,1926

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