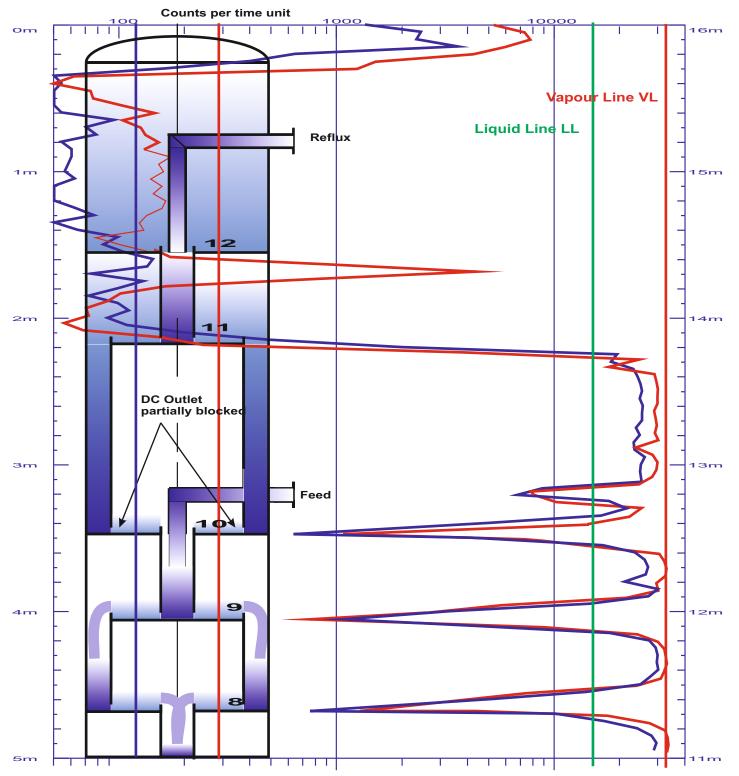


Tray Downcomer Flooding



Downcomer flooding is a function of pressur drop across the active tray area, downcomer geometry, liquid properties i.e. rate, viscosity, surface tension, deaeration of liquid which is dependent on density difference between liquid / vapour. Possible reasons:

- Downcomer geometry / residence time too small

- Liquid outlet area reduced due to fouling, solids, tools, polymere

- excessive pressure drop across the active tray area

- tray damage

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