Ductgrove Limited Design Workshops

Design Conditions : When referring to a process design or piping system cover the following

- **Design Pressure** The maximum pressure a system would be expected to withstand and produce stress levels which are acceptable and code compliant.
- **Design Temperature** The maximum temperature a system would be expected to withstand and produce stress levels which are acceptable and code compliant.
- **Operating Pressure** The maximum operating pressure a system would be expected to withstand and produce stress levels which are acceptable and code compliant.
- **Design Temperature** The maximum temperature a system should be expected to withstand and produce stress levels which are acceptable and code compliant.
- **Hydro-test** This is a case where a system such as a steam line would not normally be filled with water this case looks at the stress levels in the system.
- **Wind loads** This is a case where a system is in the open and subject to wind various directions need to be assessed to check the system can withstand these occasional loads.
- **Snow Loads** This is a case where a system is once again in the open and subject to snow and Ice and its build up. This needs to be assessed to check the system can withstand these occasional loads.
- **Seismic Loads** In certain regions of the world seismic design is one of the main design concerns a response spectra for the area is normally required if this is within a building various response spectra are required at the different floor levels.
- **Surge** or water hammer is another design condition which must be considered particularly on long runs of piping forces at changes in direction as this can over stress piping or make it jump off its supports.
- Pressure relief forces Pressure relieve forces generated when a RV lifts should be considered in the design envelope.