Subject: power supply Quality
Faculty: Vijay kumor s.c

Name: T-siee vignesh

utung: 11098

Regno: 180EC10843

la power Quality: power quality is the degree to which both the utilization and delivery of electric power affects the performances of electrical equipment.

- b. Three sources of power Quality problems
 - i) supply lutility side
 - (i) End-userside
 - iii) Natural Causes
- c. Any occurrence manifested in voltage, current or frequency deviations which result in failure on misoperation of end-use equipment.
- d. short duration variations
 - ?) instantaneous sag [swe v
 - ii) nomentary Intersuption | sag | swell
 - iii) Temporary Interruption (sog (swell
- e. Harmonics: Harmonics are the periodic disortion of the voltage on current wave form.

2. Power quality is the degree to which both the utilization and delivery of electric power affect the performances of electrical equipment.

Reasons for increased concern in power audity:

The ultimate reason that we are intrested in power quality:

quality is power economic value. There are economic impacts on utilities, their customers, and suppliess of load equipment.

The quality of power we can have a direct impact on many industrial consumers. There has recently been a great emphasis on sevilalisting industry with more automotion and more modern equipment. This usually means electronically controlled, energy efficient equipment that is often much more sensitive to deviation in the supply voltage then were its electomechanial predecessors.

The dectric utility is concerned about power quality issues as well. reeting customes expectations and maintaining customes as well and maintaining customes as fidence are strong motivators.

Residential customers typically do not suffer direct financial loss as a result of Power Quality problems, but they can be a potent force when the utility is providing poor service. Users become more sestitive to inturruptions when they are relient on this technology.

way compete the master mich must customess buying on lowest cost. The primary responsibility the cossecting inadequacies are also unaware of the types of the ultimately lies with the enduses who must purchase and operate it.
since many end was are dro unaware of pitfalls, one useful service that while hes can provide is dissemination of info on power quality and the requirements of load equipment to proposely operate in Real world.