- and 6.5, the total power loss in the system is reduced, efficiency of the system increases and percentage voltage drop decreases. This is due to the decrease in the current flowing through the transmission line which results in a decrease in power loss through transmission kne. As such, more power can be deter delivered to the load and increasing efficiency of the power system.
- 6.8 In 6.6 it is observed that percentage reltage drop ter is smaller when a transformers are used. This indicates that less with lesser power loss, less energy will wasted and that the desired voltage need consumed by appliances, in this case, the load can be more easily obtained. As such, the rettage desired reltageneeds appliances can be obtained more easily using transformers. In addition, power distribution will be more efficient with a load reltage arop as power consumed by load is trigher.
- around the core for the transformers and also heat loss in the insisting wires Land. With leakage flux loss around the core, magnetic flux trukage is not loss, and results to energy loss as such voltage obtained in secondary coil will be decreased. We assume wires commecting the appearatus is a zero resistance. As current flows through the resistive load for a long period of time, the secondary wires hearts up and energy is lost as heat. Another possible power loss could be from hysteresis loss and eddy current loss in the transformer.
  - 1) Power loss from other source = 4.552 0.03038 = 4.52162W
  - 2) Power loss = 8.345 2.4219 = 0.9231 W

Discussion and Conclusion

Overall, the objectives were not as it is evident that with the use of
transformers in power systems, the power loss in transmission lines will