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UTM
UNIVERSITI TEKNOLOGI MALAYSIA

SCHOOL OF ELECTRICAL ENGINEERING
FACULTY OF ENGINEERING

SKEE3742
ADVANCED POWER LABORATORY
PROBLEM PACK
Topology of Electrical System

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Problem:

A new residential area in Johor Bahru receives electricity supply through radial connection from a single main power intake. Immediately after the area is fully occupied, the power utility received complaints from some of the residents who experiencing lamps dims and equipment malfunction. You as an electrical distribution engineer have been assigned by your superior to investigate the problem and propose solutions. Justify your findings and solutions by experiment and simulation.

Triggers:

1. Study topology configurations of electrical system.
2. Review voltage and current profile for each configuration.

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