

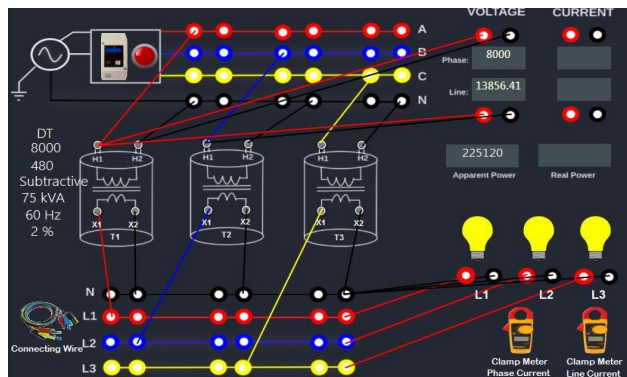
Name: ASD
SR Code: ASD

Section: ASD
Date: 4/5/2021

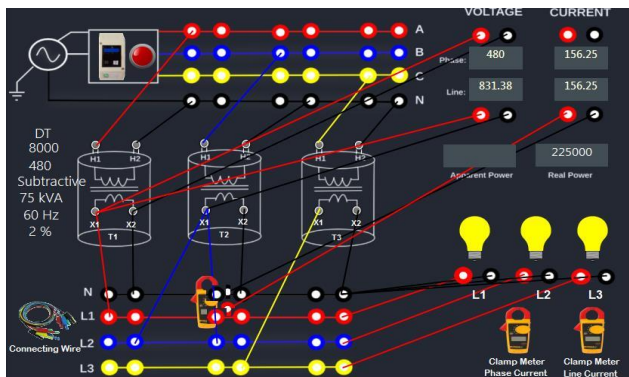
Exercise2

Three single-phase transformers each rated 75 kVA are banked in delta and supplying a three-phase load drawing 160 kVA at 0.8 lagging power factor. If one transformer is removed for repairs, solve for the amount of overloading of the remaining units.

Primary



Secondary



DATA AND RESULT

High Voltage or Primary Side	Line to Line Voltage	Phase Voltage	Line to Line Current	Phase Current	or Total Apparent power
Measured	13856.41	8000	9.38	9.38	225120
Computed	13856.41	8000	9.38	9.38	225120
%Difference	0%	0%	0%	0%	0%

High Voltage or Primary Side	Line to Line Voltage	Phase Voltage	Line to Line Current	Phase Current	or Total Apparent power
Measured	831.38	480	156.25	156.25	225000
Computed	831.38	480	156.25	156.25	225000
%Difference	0%	0%	0%	0%	0%