

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

Electric Engineering Department

EE 360 LAB - EXP # 1 & 4

Loading Combination for different power factors
(New load banks).

1. Y CONNECTION

Pf	Loading	P ₁ (W)	P ₂ (W)	P _T (W)	V _{AB} (V)	V _{CB} (V)	I _A (A)	P.f Cal.	P.f
	480W+420W+120W								
	480W+420W								
	480W+120W								
	480W								
0.8 lag	480W+420W+420W +all inductance (22.9) mH								
0.8 Lead	480W+420W+420W +all capacitors (22.9) mH								

2. DELTA (Δ) CONNECTION

For the above combinations of loading in Δ connection reduce the applied voltage (60 V) to limit the line current (same as in Y connected load).