



High efficiency HVAC system have a higher level of sensitivity to voltage fluctuation and limits. Most systems will go into lock out at 248-250 volts.

Utility companies have 10% limits on supply: 240volt normal supply voltage  
 < 238 low voltage  
 > 252 high voltage

Monitoring over time showed that the voltage would increase over allowable limits at night when the load was low and drop back to normal during the day when the ac systems were running and the loads increased.