



May 30, 2012
(Revised June 1, 2012)

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Re: 10 Park Avenue, Apts. H & J
New York, NY

Dear Ann:

The following are the connected and demand existing electrical loads for Studio apartment H, and the anticipated connected and demand new electrical loads for 1BR apartment J:

Studio Apartment H (Existing):

	<u>Connected</u>
1. Lighting	1.0 KW
2. Convenience receptacles	1.8 KW
3. TV/DVD	0.3 KW
4. Kitchen equipment	3.7 KW
5. Air Conditioning	2.0 KW

Total connected load:

8.8 KW
(42 Amps @
120/208V, 1ph)

Total demand load:

(Air conditioning calculated at 100% demand)

8.0 KW
(38 Amps @
120/208V,1ph)



1BR Apartment J (New):

	<u>Connected</u>
1. Lighting	1.5 KW
2. Convenience receptacles	2.0 KW
3. TV/DVD	0.3 KW
4. Kitchen equipment	4.7 KW
5. Air Conditioning	4.0 KW

Total connected load:

12.5 KW

**(60 Amps @
120/208V, 1ph)**

Total demand load:

(Air conditioning calculated at 100% demand)

9.1 KW

**(43 Amps @
120/208V,1ph)**

Studio apartment H is served by an existing 208V-1 phase service from the building's electrical distribution, consisting of two (2) 60 amp fuses. There is an existing circuit breaker panel located in the electrical distribution room which serves all of the apartment's branch circuits.

1BR apartment J is served by an existing 208V-1 phase service from the building's electrical distribution, consisting of two (2) 25 amp fuses. There is an existing old fuse panel located in the kitchen, which serves the apartment's branch circuits.

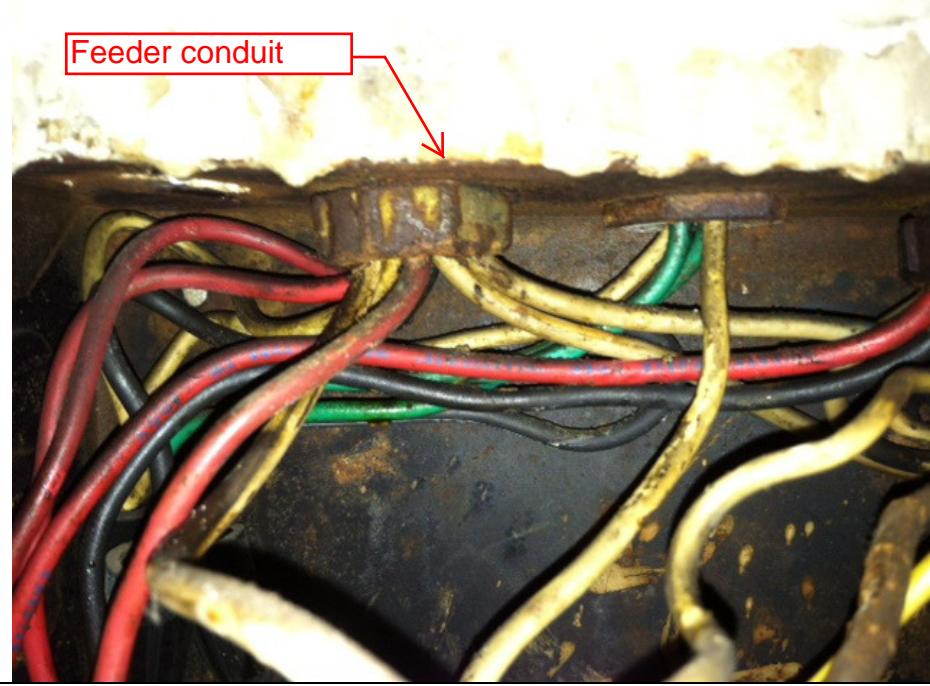
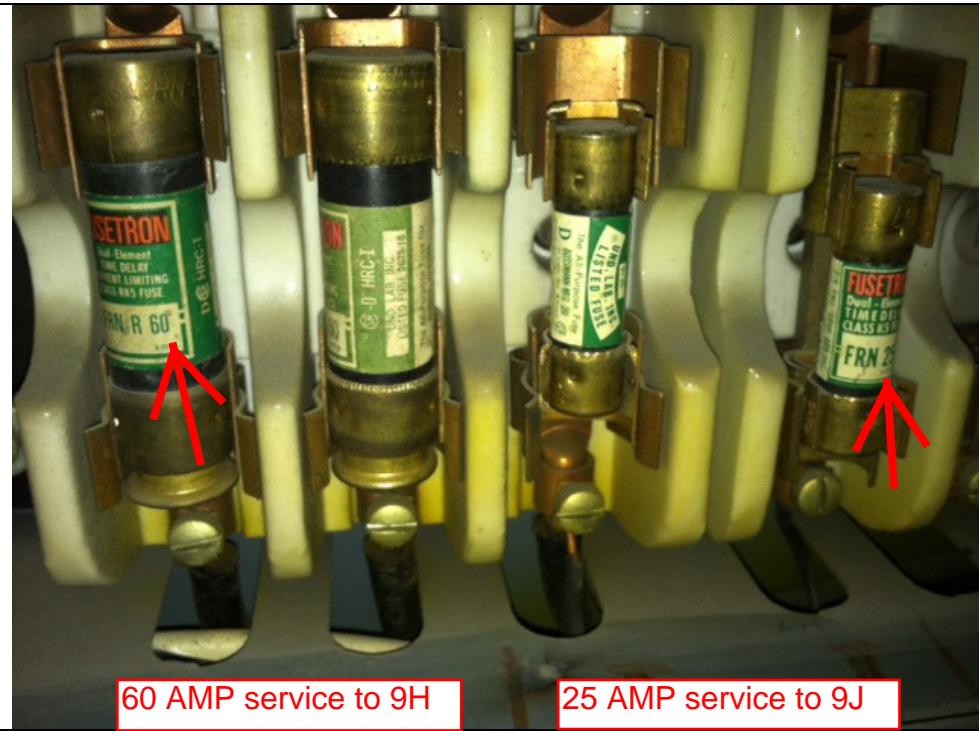
Based on the above information and the available combined electrical service of 85 amps, we propose redistributing the existing electrical services to each apartment as follows:

1. Based on the existing loads in Studio apartment H, we propose to replace the existing 60 amp fuses with 40 amp fuses.
2. Replace the existing 25 amp fuses presently serving 1BR apartment J, with new 45 amp fuses. New wiring will be routed from the floor's electrical distribution room to a new electrical panel which will be located in the apartment. From our survey, it appeared that the existing conduit going to apartment J from the electrical room is either 3/4" or 1". Since the feeder required for 45 amps is 3#8 wires in a 3/4" conduit, we can utilize the existing conduit for the new feeder.

Upon review of the above, please feel free to call if you have any questions.

Very truly yours,

Pablo Pantoja, Jr.





9H Panel @ elec.
distribution closet