

**From:** "Craig Heller" <craig.heller@loftworks-stl.com>  
**To:** "Barbara Geisman" <GeismanB@stlouiscity.com>, "...  
**Date:** 11/16/2007 8:15 pm  
**Subject:** RE: "Puck Lights" at Syndicate Trust...

**CC:** "John McDonald" <McDonaldJ@stlouiscity.com>, "F...  
Unfortunately there is not a practical way to pair an electrician with a carpenter to install the cabinet. I guess that means we'll take the lights out of the project. I'm not sure what we tell the buyers or what we do with the already manufactured cabinets but that's my problem. Are the installed cabinets on the 9th floor okay - the inspector already approved them.

---

From: Barbara Geisman [mailto:GeismanB@stlouiscity.com]  
Sent: Friday, November 16, 2007 5:48 PM  
To: David Richardson; Craig Heller  
Cc: John McDonald; Frank Oswald  
Subject: RE: "Puck Lights" at Syndicate Trust...

And here is a .pdf of the data/installation sheets you sent Frank...

>>> "Craig Heller" <craig.heller@loftworks-stl.com> 11/16/2007 5:14 PM  
>>>

Barb:

---

Thanks for your email. One item I want to be clear on - no splicing is being performed. Where there are more than five lights, there are multiple splice blocks - again no wiring is being spliced.

Which of the wiring are you saying should be done by an electrician - the wiring behind the wall or all of it?

Thanks, craig

---

From: Barbara Geisman [mailto:GeismanB@stlouiscity.com]  
Sent: Friday, November 16, 2007 5:00 PM  
To: David Richardson; Craig Heller  
Cc: John McDonald; Frank Oswald  
Subject: "Puck Lights" at Syndicate Trust...

Attached is a document with the photographs of the puck light situation that I took this afternoon. I reviewed these photos with Frank Oswald, Building Commissioner, and John MacDonald, Engineering Manager. Here is a summary of that conversation.

First, the wires for the lights are running behind the wall, albeit in a conduit. The wires behind the wall need to be run by a licensed electrician. This is analogous to fire alarm wires--these are low voltage, too, but they need to be run by a licensed electrician.

Second, the work needs a permit, obtained by a licensed electrician, and a design drawing stamped and sealed by a licensed electrical. It is my understanding that the existing electrical permit does not cover the installation work. Further, the cabinet-light assembly is not UL rated. This is analogous to when you buy a refrigerator--the refrigerator will have a light and wiring installed in a metal cabinet (along with other stuff) but the whole assembly is UL rated. In this case, the cabinet manufacturer has drilled a hole horizontally through particleboard, run the wire through the hole to the light, and it is not clear how the wire is attached to the light itself. The manufacturer's materials supplied by Craig to Frank Oswald do not show the "horizontal hole" version of the installation that is being used--they show an installation where a hole is drilled vertically through the cabinet material and the wire is exposed inside the cabinet.

---

Third, as you can see from the photos, each cabinet has one or two lights installed with a wire exiting the rear of the cabinet through a hole; the wire ends up in a cavity at the back of the cabinet. While this on its face is not necessarily problematic, the issues arises as to how the wires are connected with each other across the cavities of multiple cabinets. If you look at the finished installation at the rear of the drawer cabinet, there are two wires exiting the conduit into the cavity behind the drawer. Yet these two wires serve six lights (in that particular case.) If all that was being done was running the wires from each light to and through the conduit, there should be six wires exiting the conduit, and there are only two. Thus, it is logical to conclude that somehow or other the wires are spliced behind the cabinet--whether with a splice block or with wire nuts--since the lights are not set up to be wired in series--each must go independently to the splice block. (And it is doubtful if six wires would fit through the conduit with their six connectors in any event.) The cut sheets provided to Frank show each of the wires terminating in one splice block, and one wire from the one splice block going to the transformer. They do not show multiple splice blocks.

John McDonald would be happy to meet with BSI, Guarantee, and the design engineer (which may be a Guarantee engineer) and whatever carpenters are

installing the cabinets to observe how the installation is proposed (but will not approve or recommend an installation.) The Building Division will be satisfied if (a) there is a permit obtained by a licensed electrician; (b) the work proceeds pursuant to a design drawing stamped by a licensed electrical engineer; and (c) the licensed electrician does the wiring work.

I know this is not what you wanted to hear, but I now understand the Building Division's concerns. Please feel free to call me if you have any questions. Frank and John, please let me know if the discussion above is not accurate. Craig, thanks for taking the time to let me take the photos this afternoon.