

## From the IT Director:

Let there be light!

Last time I wrote about how components are becoming interconnected around the City. This was highlighted in late April when we completed the lighting upgrade for the Council Chambers and Willamette River Meeting rooms.

The compact florescent lighting that was originally installed was relatively efficient, but the particular style of lamp used has fallen out of favor in the industry and getting replacement lamps was becoming difficult. We made the decision to look into LED lighting for the rooms because of their efficiency and long life. The City worked with an integrator to configure a system that would provide good lighting not only for the rooms but also for the Wilsonville Government TV Channel.

The decision was made early on to have the City's facilities crew assist in the demo of the existing lights and the installation of the new lights. This had several benefits over the course of the project. The labor of the project was cheaper than if it was hired out, but more importantly, the facilities crew became very familiar with the new lighting system. This will pay huge

dividends in the future when it comes to fine tuning or troubleshooting the system. The entire facilities group and electricians worked very hard on the project and were able to turn it around in a week. I would like to take a moment and highlight one particular individual on the Facilities team, Javid Yamin. Javid worked tirelessly during the week to make sure the project finished on time. There were several long days but with a steady supply of coffee, he handled everything from initial disassembly of the old lighting to the installation of the new and the majority of the clean-up at the end. Thank you Javid for your hard work!



Chris, ECO Electric and Javid, Facilities

Once the lights were in, we worked on the programming of the lighting. Each individual light has a separate address that allows it to be controlled. Beside either on or off, the brightness of a light can be set between 0 and 100%. This allows the ability to precisely control the amount of light at each point in the room. This is particularly important for television lighting. A great deal of time

was spent fine tuning the light in each of the rooms so that the image that is captured on cameras looks good. A measurement was taken at each location in the room that a person would be sitting to make sure the appropriate number of foot candles (a measurement of light) was available for a good picture. A lot of factors contribute to this such as amount of ambient light at a particular time of day, number of lights on in the room, etc. We anticipate that we will need to fine tune the system over the next couple of months but we believe that it is close.

The results of the project have been fantastic. The new lights give a very clean and contemporary lighting pattern in both rooms. The lights in the Council Chambers provide a light that is less straining for people sitting around the dais and in the audience. The lighting in the Willamette River rooms is much brighter and the television image is significantly better than it was prior to the upgrade. The LED lights provide a better color spectrum for the HD cameras with means they don't have to work as hard to compensate for shifts in lighting. Overall, we are very excited for everyone to see the results of the project!

Until next time,

*Andy Stone*

IT Director



Before (compact florescent lighting) - Council Chambers



During Project Construction - Council Chambers



Old lighting fixtures



After (LED lights) - Council Chambers