

Summary of Meeting #2 — Metropolitan Reliability Advisory Committee
May 13, 2008
5:30 p.m.

Anita B. Gorman Conservation Discovery Center

Committee Members in Attendance

Allen Norman

Greg Hugeback (Alternate)

Howard Townsend

Peter Hughes (Alternate)

Kim Davis

Ex-Officio Committee Members in Attendance

Karin Jacoby

- The second meeting of the Metropolitan Reliability Advisory Committee was called to order by Deborah Holmes of Fleishman-Hillard at 5:40 p.m.
- Attendees boarded a tour bus (along with KCP&L and Fleishman-Hillard representatives) to visit several KCP&L substations. Steve Gilkey, KCP&L, reviewed technical/design aspects of each substation and fielded questions from attendees.
- The following substations were visited during the course of the tour
 - Midtown Substation (47th & Forest)
 - Forest Substation (61st & Troost)
 - Shoal Creek Substation (8500 N. Brighton)

Below, please find basic information for each site, as well as questions and issues raised at each location:

Midtown Substation (47th & Forest)

- The Midtown Substation is one of the oldest substations. Built in the early 1960's, this station measures 200 ft wide x 270 feet long. Gilkey noted that this substation design is no longer used by KCP&L. The company is planning to add capacity at this site.
- *What is the full capacity of this substation?* 170 megawatts; currently operating at 147 megawatts. The plan is to build the new Troost substation with an initial capacity of 30 megawatts.
- *How much power is coming in?* 161 thousand volts are coming in to this substation.
- A question was raised as to why the substation is raised off the ground. Gilkey responded that the substation's oil-separator system — to avoid any possible pollution of the nearby creek, along with the initial elevation of the land — created the site design.
- A question was raised regarding the electromagnetic field of this substation, and how its emissions compare to new designs. This question will be fielded by the KCP&L Environmental Services Department at the next meeting.

Forest Substation (61st & Troost)

- The Forest Substation was built in the late 1960's to early 1970's and measures 131 ft wide x 387 ft long. The footprint on this site is narrower than the other sites. Noise level at this location was lower than 47th.
- *What is the full capacity of this substation?* 111 megawatts, and currently operating at 96 megawatts.
- A question was raised regarding tension-bearing poles, and the associated cost. Gilkey explained the dynamics of the transmission pole angles and guy wires. Depending on the location of the new Troost Substation, KCP&L may employ a larger pole to avoid the usage of guy wires. Gilkey also pointed out that there are national electric safety codes on height for the poles and clearance of the lines; further information about these codes will be provided when different substation sites are evaluated.
- A question was raised about lowering the grounds of a substation to reduce the visibility of towers and poles within the substation. Gilkey indicated this is largely dependent on the surrounding landscape, and KCP&L wants to avoid standing water issues during rain or storms.
- *Can a substation be built on property a couple of blocks off Troost?* Yes, though it must be in accordance with current line patterns.

After departing the Forest substation, Gilkey and Merley McMurry, KCP&L, made a brief presentation on streetscapes and designs for substation at 2nd and Grand Avenue. The city asked KCP&L for a design that was more vibrant and in keeping with the developing area in the River Market. Renderings of the design were distributed. This substation features a lighted Lucite wall. There also was general discussion on area growth and redevelopment. The bus traveled Paseo Boulevard and passengers viewed the many updated buildings, businesses, and housing options along Paseo.

Shoal Creek Substation (8500 N. Brighton)

- *Can this substation be expanded?* Yes, it can be expanded as the need increases in the area.
- Discussions were held regarding the dead grass surrounding the substation, and why this was occurring. This question will be fielded by the KCP&L Environmental Services Department at the next meeting.
- *How does KCP&L handle storm water management at an urban site?* Depending on the terrain and layout of the site, KCP&L uses catch basins and oil-separator units.

On the trip back, alternate Peter Hughes gave participants an overview of the new property developments on Troost between 27th and 47th Streets.

Meeting adjourned at approximately 7:30 p.m.

For the next meeting of the Advisory Committee, KCP&L will address the following issues:

- Environmental – EMF, chemicals
- Substation option views and photographs
- Current power usage and future power needs
- Initial request for site locations from members

The next meeting of the Troost Corridor Advisory Committee will be 5:30 p.m. Tuesday, May 27th at the Robert Mohart Center, 3200 Wayne, Kansas City, MO.