Work Session with Infrastructure Work Group
3/23/11

Present: Jerry Schuett, Ray DuBose, David Haley, Catherine Sckerl, Chris Rice, Nancy Nusbaum, Juan Guerra, Gordie Green, Carl Teague, Mario Mendez, Joe Ellis, Xavier Lopez, Mike Burkepile, Michael Petty, Mario Molina, Mike Krouse, Doug Bynum, Dennis Taylor

The following are notes taken from this meeting.

- Have 4 to 5 of standalone chillers on campus to provide HVAC, tend to service auxiliaries, one at Mitte and one at FCS for research purposes
- Go into manholes when necessary – when problems
- One tunnel walkable and one tunnel not walkable
- Old Plant currently has pump station, steam header, fire pump, transformers, old well pump, IT Hub, and storage for shops
- Talked about a new chill water system across the river. Currently university has a liability with lines running under bridge over river, if breaks, threatens endangered species.
- Plan to isolate east chill plant from east campus
  - Liability
  - Energy conservation
- Life safety generator and emerging generators needed (optional/provisional)
- New south chill plant design – will serve building with 16-18 Delta T, need to think about additional cooling towers – one being built, but have room for three, second tower will be an alternate
- A source of funding for future projects is from savings from other projects
- Water – lot of rust in both hot and chill water, galvanized pipe exists mostly in E&G buildings
- Storm water – becoming more of a problem
- Sewer – problematic areas – run cameras; City going to be doing smoke testing; a lot of pipe is clay
- Electric/Power – 70-72 degrees in winter and 73 degrees in summer
  - Dec – use 9MW, Feb. use 11-12 MW, Aug. peaks
  - Buildings were designed for 30 degrees and 96 degrees when you reach that, building max out all equipment - air handlers and condensate pumps
  - Need to tune/balance buildings