



SAN FRANCISCO PUBLIC UTILITIES COMMISSION

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San Francisco Public Utilities Commission Citizens' Advisory Committee Water Subcommittee

February 7, 2011

5:30 p.m. – 7:00 p.m.

1155 Market Street, 4th Floor Conference Room

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Members: Jennifer Clary (Chair), Karen Donovan, Richard Hansen, Lurilla Harris, Art Jensen, Walt Farrell, Doug Cain

Staff: Amy Sinclair

Order of Business

1. Call to Order

Meeting was called to order at 5:35 p.m.

2. Roll Call

Present: Clary, Jensen, Cain, Farrell, Hansen

3. Approval of Minutes

Approval of November 15, 2010 minutes with a spelling correction. Reminder – please run spell check on minutes.

4. Public comment – matters within Subcommittee's scope, not on today's agenda.

None

5. Staff announcements/updates

Lurilla sent materials to Jennifer to review and share. Art Jensen briefly mentioned the "Lawn Be Gone" program to encourage people to get rid of lawns.

6. Steve Ritchie – Budget Update

Assistant General Manager Steve Ritchie discussed the work the SFPUC is doing to measure impacts of climate change on the Hetch Hetchy system. SFPUC had done work previously with the Turlock Irrigation District using a model called HFAM created by Hydrocomp (an outside consultant) with input from the SFPUC. We concluded it needed to be calibrated with the Hetch Hetchy system to work. We expect to use with Hetch Hetchy simulation model this summer or fall. We're also developing rainfall runoff models for local system using a similar tool that should be ready in fall 2011.

Steve also discussed a capital reserve fund that will allow the SFPUC to quickly rebuild critical capital assets in case of emergency such as an earthquake. After an earthquake, City agencies would be under direction of the mayor and controller as to how priorities would be set for restoring water to San Francisco and wholesalers. All purchasing requirements after an

emergency are waived so repairs can take place quickly. There is the possibility of the SFPUC selling bonds after an emergency to fund repairs. Right now, SFPUC will focus on existing reserves, the work we are doing now and emergency rules to get around the need to have lots of cash laying around for the repairs.

Doug Cain asked about refurbishments at Moccasin and funds allocated for it. Steve stated it would be done out of normal budgeting process. The needs, plans and timeline for facilities at Moccasin, Millbrae and Sunol will be discussed at the March SFPUC meeting.

Steve discussed support of recreational uses on SFPUC watershed lands. The SFPUC continues to support recreational use. SFPUC is working with San Mateo County on the southern extension of the Bay Area Ridge Trail. Jennifer stated the reason this came up is because of the stables last year because horseback riding was listed as an existing recreational use in the watershed land. Steve stated the stable issue has been resolved. Doug Cain stated his concerns about lack of horseback riding access in the watersheds on the Peninsula. Jennifer suggested the topic be discussed with a watershed expert at a future meeting.

Steve discussed the development of a comprehensive watershed plan for at least one San Francisco watershed. The SFPUC has been working between the water, wastewater and power enterprise to create what is being called the Urban Watershed Framework. It is being presented to the Commission (SFPUC) on February 8th. It will discuss how the SFPUC can change the management of watersheds in San Francisco for the benefit of reducing flooding and other benefits for the community, including water supply benefits. Jennifer asked if the water enterprise is contributing any resources to the planning effort. Steve stated the water enterprise is working with the wastewater enterprise to use the same language and use the same assessment tools for the plan.

Steve also discussed the budget for the water main replacement program in San Francisco. The SFPUC has been replacing water mains on average of 6 miles a year. The age of the main is not the best way to determine replacement need but rather doing condition assessments to determine if they need replacement. They are working on a 10 year plan to set priorities within the system and identify approximately 200 high priority lines suitable for replacement. The SFPUC will be consulting with SFDPW and the Transportation Authority so we can overlap with other street work.

7. Water Conservation Program Update – Julie Ortiz

SFPUC Water Conservation Manager Julie Ortiz provided a detailed update of the SFPUC Water Conservation Program. Water use in San Francisco: 55% residential, 35% commercial/municipal, approximately 8% water for flushing mains, fire fighting, dust control, leaks, etc. In San Francisco, on average residential use is 50.4 gallons per day per capita.

Julie shared the programs accomplishments. Since 1990, over 70,000 toilets, 20,000 clothes washers, 100,000 free water saving devices have been distributed and put into use. Staff provided training and information to thousands. In the last 3 years, programs have included the large landscape grant program, low-income direct install toilet program, new school curriculum and education programs and commercial/industrial water saver pilot. They will

soon launch gray water subsidy program. In January 2011, they focused on the updated irrigation ordinance.

SFPUC Water Conservation Goals include the Water System Improvement Program to reduce imported supplies for retail customers by 10 mgd by 2018, accomplished through development of local supplies, with approximately 4 mgd from conservation. 1.5 mgd in demand reduction achieved was through active conservation programs since 2005. Passive conservation is around codes and Julie estimates approximately 3 mgd in demand reduction between 2005-2010.

Julie discussed SBx7-7, the Water Conservation Act of 2009 and CUWCC Best Management Practices as well as local ordinances. She discussed the Conservation Potential Study & Model – the completed Retail Water Demand and Conservation Potential study. Her team has identified the most feasible and effective conservation measures, quantified water savings and costs and selected the most ambitious program for implementation. They will incorporate new codes and ordinances impacting retail water demands such as AB715 and California 2010 Green Building Standards code (Cal Green), CEC Clothes Washer Efficiency Standards, 2009 City Conservation Ordinances and updated conservation measure savings, costs. Model is one of the tools used to develop conservation strategy. It provides saving assumptions and costs for single family and non-residential conservation programs, in-City retail demand projections based on selected conservation programs, unit costs and benefits-ratios for selected conservation programs. The approach to update conservation plan: use a roadmap that takes numbers from model and helps guide us going forward.

Evaluation process used: assessed measures in 2004 plan and new ones implemented since, reviewed actual implementation findings, considered changes to existing measures and new measures to improve the conservation program effectiveness, costs, water savings market opportunities, customer receptivity, ease of operation, funding and scalability. Include statewide perspective. Programs not modeled: technical consultation, municipal partnership, education programs, gray water and rainwater, leak adjustment program via SFPUC customer service, automated meter installation, irrigation ordinance.

Julie discussed the next steps. She will be preparing the Urban Water Management Plan. Julie will plan to present to the CAC in May 2011.

8. Future meeting topics:
 - a. Automated Meter Program
 - b. WSIP Update
 - c. Greywater Manual
 - d. Asset Management

Jennifer added Moccasin to the agenda for March. September/October will be climate change modeling. Recreational use update in the future.

9. Next Meeting: Monday, March 21, 2011

10. Adjournment at 7pm.
