THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

Information Technology Group

- **Information Technology Group Board Report February Update**

Summary

This report provides a summary of activites related to the Information Technology Group for February 2024
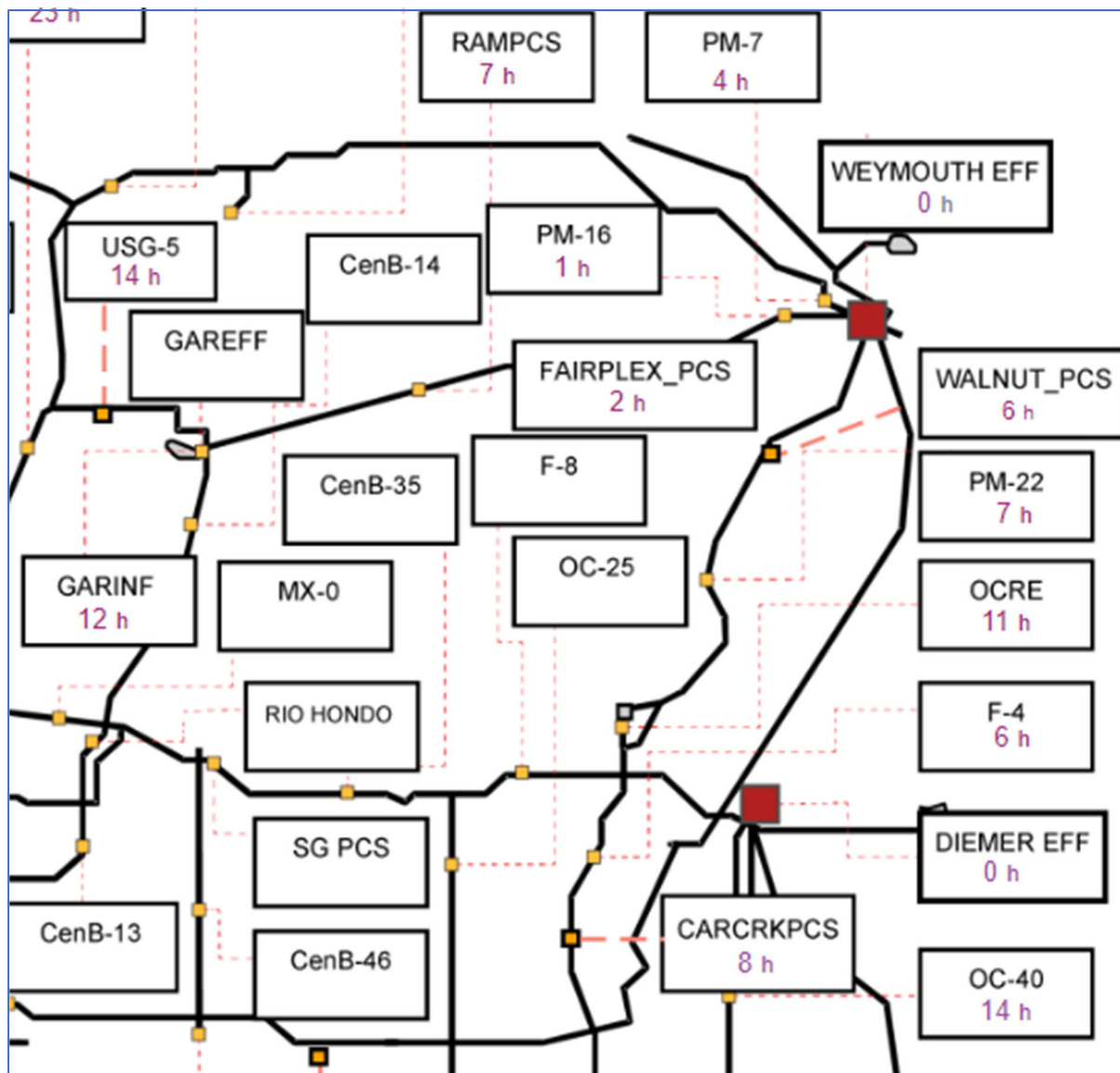
Purpose

Informational

Attachments

Attachment 1: Example: Model of water age prediction

Detailed Report

Metropolitan strives to improve and protect water quality. Part of that improvement involves understanding water aging, which plays a significant role in water quality. Because of the nitrification events that occurred mid-year 2023, the Engineering Service Group has been conducting a concerted effort to prioritize the hydraulic modeling and water quality calibration project. Efforts have recently focused on implementation of the water age prediction capabilities of the livemodel server, with water age predictions based on current distribution system operations along the Upper Feeder, north Middle Feeder, and Orange County Feeder. After the water age predictions are implemented, the project will move on to implementation of chlorine residual predictions. The Information Technology Group has jointly supported this effort by leading the way in the development of scripts to provide boundary condition data to the model as well as making the model predictions available to Metropolitan staff at large via displays in Aveva PI Vision.

Example: Model of water age prediction

Attachment 1: Example of model predictions of water age based on operating conditions on the morning of February 15, 2024. This tool will aid the Water System Operation (WSO) group, Water Quality Section and WSO System Operations Unit in operational decision-making. (Empty boxes are associated with remaining areas where efforts are focused.)