



King County

Implementation of AECOM Recommendations and Department of Ecology's Administrative Order

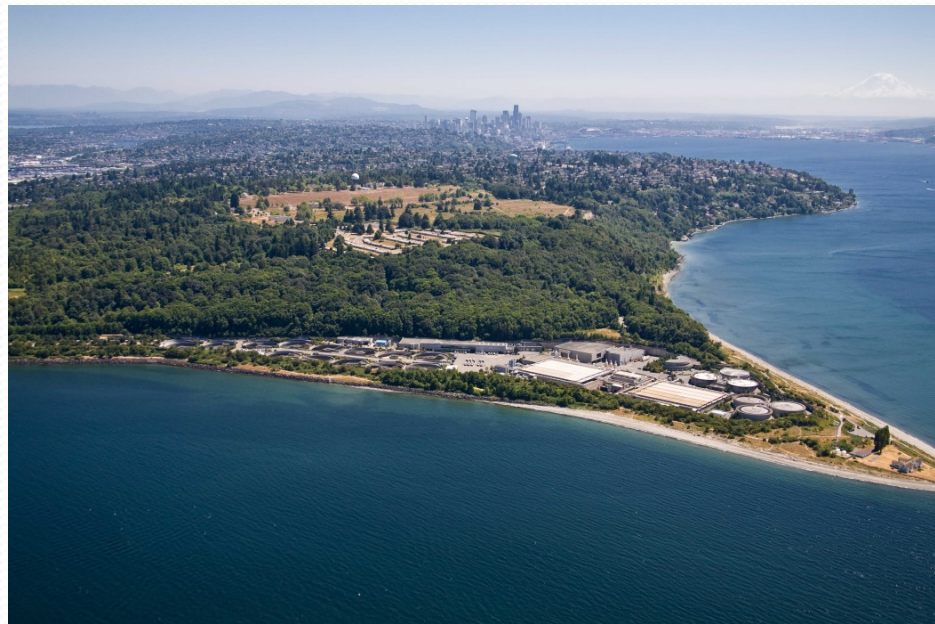
Presented to the Metropolitan Water
Pollution Abatement Advisory Committee
February 28, 2018

AECOM Recommendations

- AECOM Report completed July 2017 with 98 recommendations to prevent or minimize effects of flooding
- Recommendations fall into 4 categories:
 - Implementation of a Life Safety Management System
 - Improved emergency training
 - Evaluation of operational constraints and improve redundancy
 - Implementation of capital projects
 - Prioritize within WTD's Six-Year Capital Improvement Plan (CIP)

AECOM Recommendations - Status

Completed/Ongoing	27
In progress	56
Not Incorporated	15
Total	98



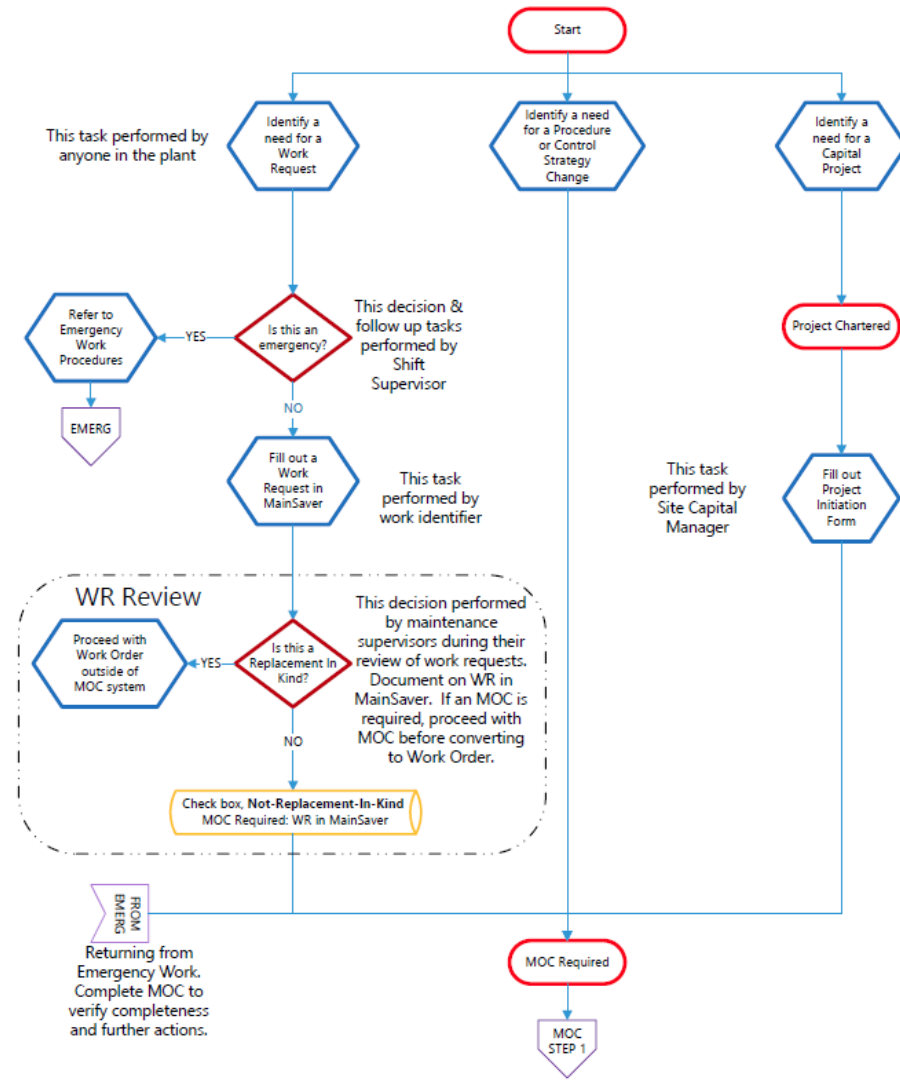
Life Safety Management

- Life Safety Coordinator hired at West Point:
 - Evaluate and implement system-wide strategies
 - Improve existing management-of-change procedures
 - Evaluate operational impacts of future projects
- Timeline – complete initial evaluation mid-2018
 - Continuous improvement program
- Launch at other plants 2020



Life Safety

Management of Change (MOC) Processes developed

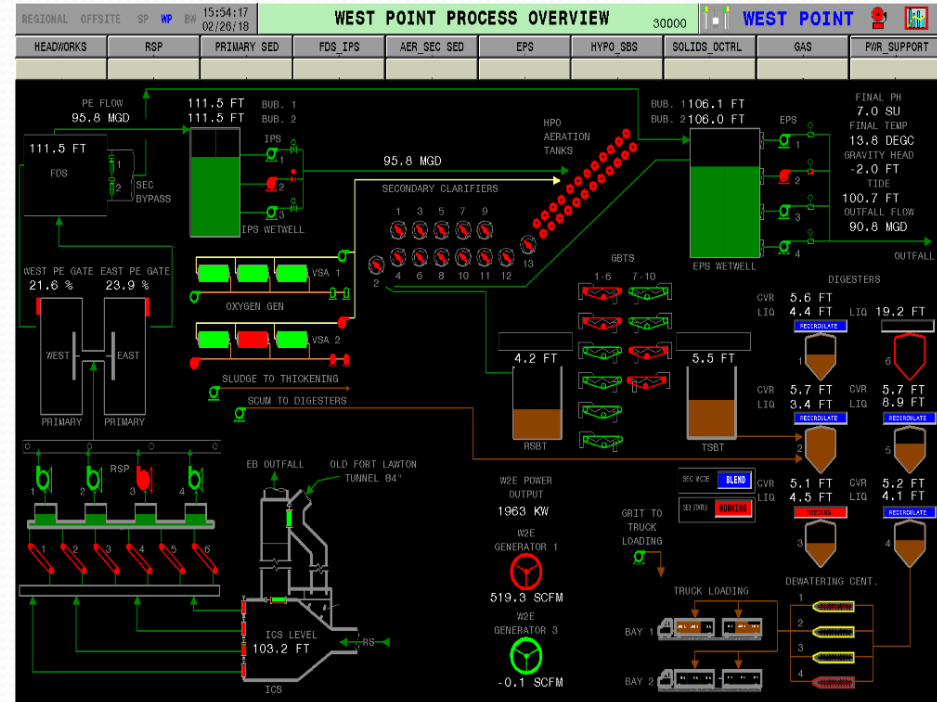


West Point Life Safety Areas



Improve Emergency Training

- Improvements to emergency/wet weather response procedures
 - Expanded scope and increased frequency of emergency training
 - Updated existing standard operating procedures
 - Re-prioritization of control system alarms
 - Implementing hydraulic simulation program



Evaluate constraints and improve redundancy

- Two high priority evaluations in progress
 - Resolve existing hydraulic constraint by expanding capacity of raw sewage pumps
 - Construct an emergency bypass weir to mitigate or avoid future flooding

Evaluate constraints and improve redundancy

- Upgrade of power monitoring system
- Evaluating utility power reliability improvements



Prioritize WTD's Six-Year CIP

- Some recommendations require a capital project to implement
- These projects are being weighed and prioritized against other capital improvement projects
 - Combined sewer overflow (CSO's)
 - Capacity improvements to serve growth
 - Asset Management
 - Seismic resiliency

Ecology's Administrative Order

- Issued November 15, 2017
 - Total of six corrective actions
- Add redundancy to effluent pump discharge valves
 - Improve alarm prioritization and critical alarm visibility
 - Evaluate plant constraints and redundancy
 - Implement emergency operations training program
 - Review and redevelop operator existing training programs
 - Collect representative raw sewage samples at influent control structure

Addressed
in Response
to AECOM
Report



Questions?

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