

File # 170033  
Received in Committee  
2/9/17



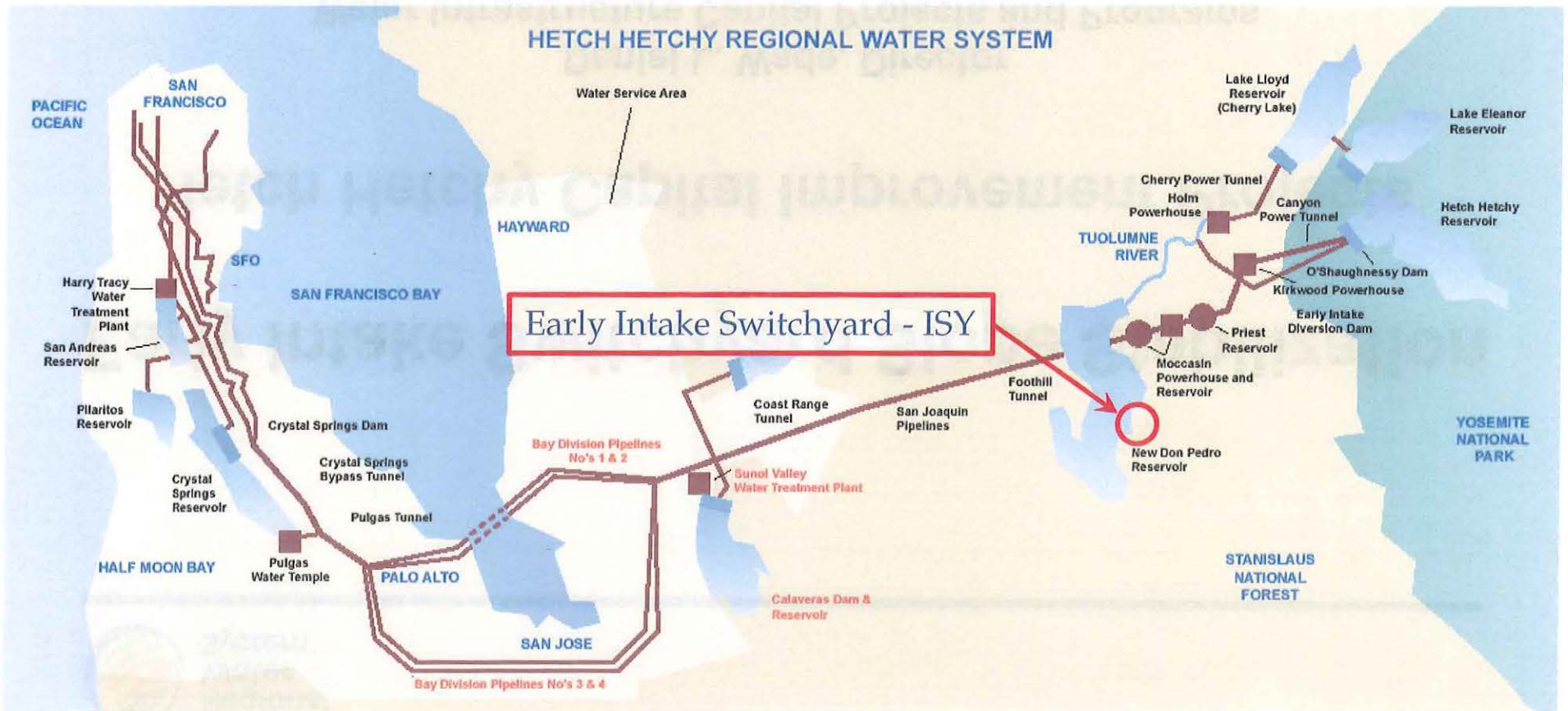
# Early Intake Switchyard Slope Stabilization

## Hetch Hetchy Capital Improvement Projects

**Daniel L. Wade, Director**  
**Water Infrastructure Capital Projects and Programs**

**San Francisco Board of Supervisors**  
**Budget & Finance Committee**  
**February 9, 2017**

# Early Intake Switchyard



## Background

---

- **June 2016 - FEMA awards SFPUC a grant of \$404,208 in federal funds for Pre-Award and Phase One of the Early Intake Slope Stabilization project.**
- **The Pre-Award phase includes: preparation of the Hazard Mitigation Grant Program sub-application; definition of project scope; and a Cost-Benefit analysis.**
- **The Phase 1 work scope is limited to Engineering Design and Environmental Studies and Reporting.**

## Early Intake Switchyard - Aerial View





## Project Goal

### Mitigate slope hazards threatening Early Intake Switchyard



**Fallen rocks, triggered by Rim fire, along edge of Switchyard**

**Boulder breaches two fences before coming to rest inside Switchyard**





**Flooding after heavy rainfall**



**Flooding at Control Building**



**Mud after spring storms**



**Active slide area above Switchyard**



# Budget & Schedule for Pre-Award & Phase 1

---

**BUDGET ESTIMATE: \$594,341**

## **SCHEDULE**

- June 2016 - Received the Grant Approval
- Jan to May 2017 – Design Phase
- May to December 2017 – Perform Detailed Design
- February to September 2017 – Environmental Phase
- July 2017 to July 2018 – Prepare Draft NEPA  
Environmental Assessment & Permits
- September 2018 – Finalize contract documents



# Request

---

Authorize the SFPUC General Manager to **accept and expend a grant for \$404,208** from FEMA through California Governor's Office of Emergency Services for the Hazard Mitigation Grant Program for the Early Intake Switchyard Slope Stabilization Project.