

1 [Emergency Declaration - Repair and Servicing of the Tesla Treatment Facility Flywheel  
2 Uninterruptible Power Supply Units - Hetch Hetchy Regional Water System - Not to Exceed  
3 Cost of \$500,000]

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4 **Resolution approving an emergency declaration of the San Francisco Public Utilities**  
5 **Commission pursuant to Administrative Code, Section 6.60, for the repair and servicing**  
6 **of the Tesla Treatment Facility Flywheel Uninterruptible Power Supply Units of the**  
7 **Hetch Hetchy Regional Water System, with an estimated total cost not to**  
8 **exceed \$500,000.**

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10 WHEREAS, The San Francisco Public Utilities Commission's (SFPUC) Tesla  
11 Treatment Facility is a critical asset that disinfects water from the Hetch Hetchy Regional  
12 Water System and provides continuous delivery of clean water to SFPUC water customers;  
13 and

14 WHEREAS, The Tesla Treatment Facility has three Flywheel Uninterruptible Power  
15 Supply (UPS) Units that provide continuous power to the ultraviolet (UV) reactors during a  
16 utility power outage; and

17 WHEREAS, The UV reactors powered by the three UPS Units disinfect the Hetch  
18 Hetchy Regional Water System water passing through the Tesla Treatment Facility and  
19 ensure the delivery of continuous clean water to SFPUC water customers and compliance  
20 with the SFPUC's drinking water permit requirements; and

21 WHEREAS, UPS Unit 8130, one of the three UPS Units at the Tesla Treatment  
22 Facility, has failed; and

23 WHEREAS, Following the Unit 8130 failure, the UPS Units' manufacturer informed  
24 SFPUC staff that Unit 8130 was unsafe to run, and that leaving the other two still-functioning  
25 UPS Units online could potentially cause a worker safety issue, requiring SFPUC staff to

1 remove the remaining two UPS Units from service until repairs and servicing could be  
2 performed; and

3 WHEREAS, Without all three UPS Units functioning, the UV reactors are vulnerable to  
4 failure during a utility power outage, and keeping the UPS Units out of service for extended  
5 time periods increases the risk of further damage to them; and

6 WHEREAS, The UPS Units provide additional power conditioning that protects  
7 sensitive data and communication systems at the Tesla Treatment Facility, and SFPUC  
8 Information and Technology staff advise that repair of the UPS units should be expedited to  
9 avoid long-term damage to these data and communication systems; and

10 WHEREAS, It is necessary to immediately procure repair of the UPS Units to ensure  
11 the continued delivery of clean drinking water to SFPUC water customers and to maintain the  
12 protection of public health and welfare; and

13 WHEREAS, Administrative Code, Chapter 6, Section 6.60(b), authorizes department  
14 heads to declare an emergency to execute emergency work for the breakdown of any  
15 equipment necessitating immediate emergency repair or reconditioning to safeguard the lives  
16 or property of the citizens; or the property of the City; or to maintain the public health or  
17 welfare; and

18 WHEREAS, On October 17, 2017, the SFPUC General Manager declared an  
19 emergency, approved by the President of the SFPUC, for the immediate repair of the UPS  
20 Units at the Tesla Treatment Facility, and on December 1, 2017, the SFPUC General  
21 Manager issued a revised declaration of the emergency clarifying that the repair work should  
22 proceed under Chapter 6 of the Administrative Code; and

23 WHEREAS, Administrative Code, Section 6.60(d), requires that the General Manager  
24 seek Board of Supervisors approval of the declaration of emergency for emergency work with  
25 an estimated cost in excess of \$250,000; and

1           WHEREAS, The SFPUC General Manager estimates that the repair of the UPS Units  
2 would have a total anticipated cost not to exceed \$500,000; and

3           WHEREAS, The SFPUC has attempted to obtain at least three bids for the repair and  
4 servicing of the three UPS Units; and

5           WHEREAS, After reviewing the three bids, the SFPUC anticipates executing an  
6 emergency contract with Holt of California for the repair of the three UPS Units for an amount  
7 not to exceed \$500,000; and

8           WHEREAS, The Controller has certified that funds are available for this emergency  
9 procurement; now, therefore, be it

10          RESOLVED, That the Board of Supervisors approves the emergency declaration for  
11 the immediate repair and servicing of the three UPS Units at the Tesla Treatment Facility  
12 made by the SFPUC General Manager on October 17, 2017, as amended on December 1,  
13 2017; and, be it

14          FURTHER RESOLVED, That actions taken to date by the San Francisco Public  
15 Utilities Commission to secure such emergency contracts and resolve the emergency  
16 condition are hereby ratified.

1 RECOMMENDED:

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4 HARLAN L. KELLY, JR.

5 General Manager of the SFPUC

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FUNDS AVAILABLE:

BEN ROSENFELD

Controller