

1 [Emergency Declaration - Repair of the Moccasin Powerhouse Unit 2 Generator Step-up
2 Transformer - Total Estimated Cost Not to Exceed \$400,000]

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3 **Resolution approving an emergency declaration of the San Francisco Public Utilities**
4 **Commission (SFPUC) pursuant to San Francisco Administrative Code, Section 6.60, to**
5 **repair the buswork and bushings on the Moccasin Powerhouse Unit 2 generator step-**
6 **up transformer, with a total estimated cost not to exceed \$400,000.**

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8 WHEREAS, Moccasin Powerhouse Unit 1 and Unit 2 located in Tuolumne County are
9 critical assets for providing continuous delivery of water to the 2.7 million water customers of
10 the San Francisco Public Utilities Commission (SFPUC) in the Bay Area. Any inability to use
11 these assets poses a threat to water deliveries, a basic service affecting the lives, property
12 and welfare of the SFPUC water customers in San Francisco, San Mateo, Santa Clara and
13 Alameda Counties; and

14 WHEREAS, On July 31, 2017, the main transformer in Moccasin Powerhouse Unit 1
15 failed, resulting in Moccasin Powerhouse Unit 2 also failing and a complete power outage in
16 Moccasin Camp; this caused a cease of water flow through the Moccasin Powerhouse, which
17 reduced the amount of water able to enter the SFPUC Regional Water System from 285 to
18 140 million gallons per day; and

19 WHEREAS, The complete power outage at Moccasin Camp necessitated the
20 installation and commissioning of a rented station service transformer to restore Moccasin
21 Powerhouse Unit 1 and increase water deliveries to the SFPUC Regional Water System back
22 to the scheduled rate of 285 million gallons per day; and

23 WHEREAS, Moccasin Powerhouse Unit 2 is still offline and needs to be repaired; and

24 WHEREAS, Due to Unit 2 still being offline, a failure of Moccasin Powerhouse Unit 1
25 would again result in restricted water deliveries to the SFPUC Regional Water System, posing

1 a risk to the water supply for the 2.7 million water customers relying on the water deliveries;
2 and

3 WHEREAS, Analysis of the July 31, 2017, failure of Moccasin Powerhouse Unit 1 and
4 Moccasin Powerhouse Unit 2 found that a phase to phase fault on the Unit 2 generator step-
5 up transformer caused Unit 2 to fail, which requires repair of the buswork and the bushings on
6 the step-up transformer to bring Unit 2 back into service; and

7 WHEREAS, Any delay to repairing the buswork and the bushings on the step-up
8 transformer serving Unit 2 poses a risk to the water supply for the 2.7 million water customers
9 relying on the water deliveries; and

10 WHEREAS, Administrative Code, Chapter 6, Article IV, Section 6.60, authorizes
11 department heads to declare an emergency and award a public work contract, exempt from
12 the competitive bidding process, in the event of an actual emergency, which is defined to
13 include, “ ... [t]he breakdown or imminent breakdown of any plant, equipment, structure, street
14 or public work necessitating immediate emergency repair or reconditioning to safeguard the
15 lives or property of the citizens, or the property of the City and County, or to maintain the
16 public health and welfare ...”; and

17 WHEREAS, On August 28, 2017, the SFPUC General Manager declared an
18 emergency, approved by the President of the San Francisco Public Utilities Commission, to
19 repair the buswork and bushings on the Moccasin Powerhouse Unit 2 generator step-up
20 transformer in order to bring Unit 2 back into service; and

21 WHEREAS, Administrative Code, Section 6.60(d), requires the SFPUC General
22 Manager to seek the Board of Supervisors’ approval in all cases where the cost of the
23 emergency work exceeds \$250,000; and

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1 WHEREAS, The SFPUC General Manager estimates that repairing the buswork and
2 bushings on the Moccasin Powerhouse Unit 2 generator step-up transformer will not exceed
3 \$400,000; and

4 WHEREAS, The SFPUC reached out to two vendors with the appropriate C10
5 electrical contractor licenses to perform the needed repair work, and determined that only one
6 of the vendors, Big Valley Electric, is a certified Local Business Enterprise; and

7 WHEREAS, Big Valley Electric also holds class A general engineering contractor's and
8 class B general building contractor's licenses, and the SFPUC is authorizing Big Valley
9 Electric to serve as the prime contractor, with two specialty subcontractors, Electrical Builders,
10 Inc. (EBI) and Western Utilities Transformer Service, to complete the repair work on the
11 Moccasin Powerhouse Unit 2 generator for an amount not to exceed \$400,000; and

12 WHEREAS, The Controller has certified that funds are available for this emergency
13 work and contract; now, therefore, be it

14 RESOLVED, That the Board of Supervisors approves, under Administrative Code,
15 Section 6.60, the SFPUC General Manager's emergency determination dated August 28,
16 2017, to repair the buswork and bushings on the Moccasin Powerhouse Unit 2 generator
17 step-up transformer in order to bring Unit 2 back into service; and, be it

18 FURTHER RESOLVED, That the Board of Supervisors ratifies actions taken to date by
19 the San Francisco Public Utilities Commission to address such emergency work and resolve
20 the emergency condition.

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