

1 Q. **Reference: Volume II, Purchase New Mobile Substation – Bishop’s Falls, Tab 9, Page 2, lines 36**
2 **to 38 and Table 1**

3
4 With the exception of P1, four of the five mobile substations (P235, P3, P4 and
5 P5) are suitable as emergency spares for all 21 terminal stations and the three
6 power transformers.
7

8 As Portable Substation P235 is determined to be a suitable spare for all 21 terminal stations and
9 the 3 power transformers, and P235 is rated for 15 MVA, why would a larger portable substation
10 be required?
11

12
13 A. The suitability of each mobile substation as described above is in relation to the substation’s
14 configuration. However, this was not a representation of whether the mobile substation’s
15 capacity can meet peak load. For example, Doyles T1 and St. Anthony Airport T1 are two
16 transformers for which P235 is a suitable emergency spare; however, the present-day peak load
17 of these transformers exceeds P235’s 15 MVA capacity.
18

19 A larger portable station is required as the highest forecasted peak load that will occur between
20 2022 and 2027 in a terminal station or transformer is 24.9 MVA. As the expected life of the
21 mobile is several decades, 30 MVA was selected to accommodate present day and future peak
22 load growth.