

1     **Q.     Re: Project B-5 Unit 1 and Unit 2 Generator Stator Rewind**

2             In the July 2011 report supporting this Project, at page 8, it is stated that Unit 1  
3             passed the DC high potential leakage test. Reference is made on page 9 to a DC high  
4             potential leakage test on Unit 2, but it is not stated whether it passed or failed. Did  
5             Unit 2 also pass the test?

6  
7  
8     **A.**     A DC high potential test is potentially destructive, as it is possible for weakened  
9             stator winding insulation to fail during the testing. The reference to the testing  
10            performed on the Unit 1 stator windings on page 8 of the July 2011 report states  
11            that the test was performed at a lower voltage than the manufacturer  
12            recommends. This lower voltage was a consequence of the lack of confidence, both  
13            by Hydro and by GE, that the winding would survive the test with no insulation  
14            damage at full test voltage. Essentially, the winding for Unit 1 passed in the sense  
15            that there was no insulation damage resulting from the testing at lower voltage.

16  
17            On page 9 of the report, reference is made to the Unit 2 windings showing that “all  
18            three phases had high leakage current and there was a large spread in the testing  
19            results between one phase and the other two phases”. Based on this, it can be  
20            stated that the winding passed the test in the sense that there was no insulation  
21            failure due to the testing. However, the results did indicate that the right phase of  
22            the Unit 2 stator winding was considerably more deteriorated than the other two  
23            phases.