

1 **UNDERTAKING J15.1**

2  
3 **Undertaking**

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5 With reference to Hearing Transcript Volume 14, p. 78, to provide the assumptions  
6 related to and the basis upon which the forced outage rates were used in OPG's model  
7 for the Pickering Extended Operations Business Case.  
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10 **Response**

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12 To account for the frequency of unplanned outages throughout the year in its economic  
13 assessment of Pickering Extended Operations, OPG assumed an equivalent forced  
14 outage rate ("EFOR") of 8.3% - 8.4% for Pickering A units and 5.3% - 5.9% for Pickering  
15 B units, depending on the year. OPG assumed a constant EFOR of 5% for both single  
16 cycle gas turbines ("SCGT") and combined cycle gas turbines ("CCGT").  
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18 On a capacity basis, OPG's economic assessment assumed a resource availability at  
19 summer peak of 100% for both Pickering and SCGTs and between 72% - 89% for  
20 CCGTs. In addition, a reserve margin of 17% is assumed to enable supply resource  
21 adequacy in the event of a forced outage occurrence at summer peak.  
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23 As noted in J13.14, OPG does not calculate equivalent forced outage rate on demand.