

1 **UNDERTAKING J12.1**

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3 **Undertaking**

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6 To provide the assumed forced outage rate estimated for gas generation in IESO  
7 analysis (Reference Ex F2-2-3, Attachment 1, page 6).  
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12 **Response**

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14 Existing gas-fired generators included in the IESO analysis show a total weighted  
15 average forced outage rate of approximately 5% (although forced outage rates can vary  
16 depending on the specific generator and can also vary over a given generator's service  
17 life).  
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19 In scenarios of no Pickering Extended Operation, assumed additions of peaking  
20 generation were represented as capacity with a 0% (zero percent) forced outage rate.  
21 While this assumption of performance understates the forced outage rate of a real  
22 natural gas-fired generator, it was adopted for convenience and is not expected to  
23 materially impact the results of the IESO's analysis of Pickering Extended Operation.