

1 Q. Provide the number of under frequency trips on the Island Interconnected system
2 each year from 2004 to 2013, inclusive.

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5 A. The following table outlines the number of underfrequency trips on the Island
6 Interconnected System from 2004 to 2013.

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| Underfrequency Load Shedding Events 2004 to 2013 | |
|---|--------------|
| Year | Total Events |
| 2004 | 7 |
| 2005 | 5 |
| 2006 | 6 |
| 2007 | 6 |
| 2008 | 6 |
| 2009 | 7 |
| 2010 | 6 |
| 2011 | 3 |
| 2012 | 5 |
| 2013 | 7 |

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9 Due to the Island Interconnected System being isolated from the larger North
10 American grid, when there is a sudden loss of large generating units, customers'
11 load must be interrupted for short periods to bring generation output equal to
12 customer demand. This automatic action of power system protection, referred to as
13 underfrequency load shedding, is necessary to ensure the integrity and reliability of
14 system equipment. The customer load interruptions are generally less than 30
15 minutes.