

- 1 Q. **Reference: Regulated Activities**
 2 Complete the following table showing Hydro’s Reliability Measures for each year
 3 from 2007 to 2013YTD on the Island Interconnected System. Please also include
 4 Hydro’s 2013 target for each reliability measure.

Hydro Reliability Measures												
Type	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013 YTD	2013 Target
SAIFI (Tx)												
SAIDI (Tx)												
SAIFI (Dn)												
SAIDI (Dn)												
DAFOR												
UFLS												

Notes:

SAIFI = System Average Interruption Frequency Index

SAIDI = System Average Interruption Duration Index

DAFOR = Derating Adjusted Forced Outage Rate

UFLS = Underfrequency Load Shedding

Tx = Transmission

Dn = Distribution

- 5
 6 A. Please refer to the completed table on the following page indicating Hydro’s
 7 Reliability Measures for each year from 2003 to 2014 (YTD – September) on the
 8 Island Interconnected System. Also included are Hydro’s 2014 targets for each
 9 reliability measure.

Hydro Reliability Measures													
Type	2003	2004	2005	2006	2007	2008	2009	2010	2011 ⁽¹⁾	2012	2013 ⁽¹⁾⁽²⁾	2014 YTD ⁽¹⁾⁽³⁾	2014 Target
T-SAIFI (Tx)	2.6	1.8	1.5	1.6	2.8	1.7	0.9	2.3	4.5	1.9	3.5	3.5	1.6
T-SAIDI (Tx)	222	99	99	151	186	278	100	173	435	171	468	384	180
SAIFI (Dn)	7.9	5.9	5.8	5.4	6.2	6.3	4.5	3.5	5.7	4.4	5.8	5.8	3.7
SAIDI (Dn)	11.9	11.2	8.8	8.0	8.7	11.2	10.7	6.4	16.3	8.3	19.2	13.9	5.9
DAFOR	2.9	2.4	2.2	3.7	7.9	5.0	4.5	1.8	2.6	2.1	12.2	9.0	2.7
UFLS	12	7	5	6	6	6	7	6	3	5	6	12	6

T-SAIFI (Tx) = Transmission System Average Interruption Frequency Index (interruptions per delivery point - Forced and Planned)

T-SAIDI (Tx) = Transmission System Average Interruption Duration Index (minutes per delivery point - Forced and Planned)

SAIFI (Dn) = Distribution System Average Interruption Frequency Index (interruptions per customer - Forced and Planned)

SAIDI (Dn) = Distribution System Average Interruption Duration Index (interruption hours per customer - Forced and Planned)

DAFOR = Derating Adjusted Forced Outage Rate (% of time unavailable at rated output due to forced outage)

UFLS = Underfrequency Load Shedding (number of events per year)

Notes:

1. In 2011, 2013, & 2104, Transmission and Distribution performance was negatively affected by a number of severe weather related events which caused numerous and lengthy outages, primarily in the Northern and Central regions.
2. In 2013, DAFOR performance has been significantly impacted by the failure of Unit 1 at Holyrood on January 11.
3. In 2014, DAFOR performance has been significantly impacted by the failure of Unit 6 at Bay d'Espoir.