

1 Q. Please confirm that in the contract for the converter station equipment the
2 guaranteed Scheduled Energy Unavailability (SEU) of the HVdc scheme is 1.0% per
3 year; that SEU does not include maintenance outages for the HVdc overhead line,
4 electrode line or HVdc cables, nor scheduled outages caused by operator error; that
5 the energy unavailability is measured over 3 years, and in the event of a failure to
6 meet the guarantee the converter manufacturer is allowed to extend the
7 monitoring period for another 12 months, and to then choose the best 3 years as
8 the measurement of performance before penalties are applied.

9

10

11 A. A guaranteed scheduled energy unavailability of 1.0% is confirmed and it is defined
12 as the energy which could not have been transmitted through the HVdc link (which
13 includes energy transmitted through both poles) due to scheduled outages.

14

15 The unavailability must be attributable to events within Contractor's control, so it
16 does not include outages caused by the HVdc overhead line, electrode line or HVdc
17 cables, or outages caused by operator error.

18

19 The total annual energy availability is averaged over the first three years. If the
20 average is under 98.5% for the system, the Performance Guarantee Assessment
21 Period is extended for an additional 12 months. After this additional 12-month
22 extension, the 12 worst consecutive months are then omitted from the calculation
23 and the average is recalculated. If the annual energy availability still does not meet
24 the guarantee, Contractor must correct deficiencies and defects at no cost to
25 Company. Once corrected, there is a further two year evaluation period (which
26 excludes results of the previous four year period and the period for correcting such

- 1 deficiencies) to verify if the availability requirement is met. If not, penalties are
- 2 applied.