

1 Q. **Reference: PUB-NLH-223:** The response indicates that each electrode line will
2 consist of two conductors such that a failure of an electrode line insulator does not
3 result in a shutdown of the HVdc system. Does Nalcor have permission to allow the
4 electrode line to be operated if there is a fault, such as a shorted insulator, that
5 could conduct dc current into the earth at a location other than the electrode?
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8 A. There is no regulatory permission required to operate the HVdc system in
9 monopolar mode within the jurisdiction. The electrode line conductor protection
10 philosophy is similar to that used to protect existing ac conductors. The status of
11 the dc electrode line conductors will be monitored from the converter station
12 similar to the ac conductors, which are monitored from the connected ac high
13 voltage terminal stations or distribution substation. Should an electrode line
14 conductor (i.e., one of two) fall to the ground due to (for example) an insulator
15 failure or conductor break, then the monitoring devices will detect the failure (fault)
16 and switching devices will be operated to isolate the downed/failed conductor to
17 block operation under such a scenario.