Q. Please provide the estimated reliability, in terms of failure to start or other 1 2 appropriate measure, of each of the 8 diesel generators that form part of the black 3 start system. 4 5 6 A. The estimated reliability, for each of the eight diesel generators that form part of 7 the blackstart system, in terms of Operational Availability, is 99.7409685 percent. 8 This figure is taken from the 493-2007 - IEEE Recommended Practice for the Design of Reliable Industrial and Commercial Power Systems, Annex Q¹ - Survey of 9 Reliability and Availability Information for Power Distribution, Power Generation, 10 and HVAC Components for Commercial, Industrial, and Utility Installations, page 11 673, Item 98: Diesel Engine Generator, Packaged, 250 kW - 1.5 MW, Standby. 12 13 14 Operational Availability considers downtime as a result of maintenance and failure. 15 16 Operational Availability is defined as Ao = MTBF/(MTBF+MDT) where: 17 18 MTBF = Mean Time Between Failures is average time calculated between 19 failure occurrences; and 20 MDT = Mean Down Time is the average downtime caused by scheduled and 21 unscheduled maintenance, including any logistics time.

¹ https://standards.ieee.org/downloads/493/493-2007/493-2007.AnnexQ.pdf.