



Response to AER Information Request

AER RP 027

STPIS values based on amended data



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Response to AER Question

The following information is provided in response to the information request AER RP 27 on STPIS values based on amended data.

Question (AER RP 27)

I refer to ElectraNet's response to EMCa/060 – STPIS data reconciliation. In this response, ElectraNet stated that it “resubmits the data for table 4.7 based on AER decision values...”.

As such, please resubmit tables 10.1, 10.2 and 10.5 in your revenue proposal using the amended data but applying the methodology as set out in your revenue proposal.

Response

The minor changes to the data have been factored into the amended tables 10.1, 10.2 and 10.5 below.

In addition a revised version of table 2 from the Parsons Brinkerhoff report (Appendix Z to the Revenue Proposal) containing the standard deviations for the Loss of Supply Event Frequency parameters, adjusted for the data in the new table 4.7 has been provided.

Table 10.1: Availability adjustment

Parameter	Availability Average 2007-11 (%)	Proposed Availability Adjustment (%)	Proposed Performance Target (%)
Transmission Circuit Availability	99.524	0.065	99.46
Critical Circuit Availability Peak	99.115	0.021	99.09
Critical Circuit Availability Non-Peak	99.368	0.040	99.33

Table 10.2: Proposed performance targets

Parameter	Sub Parameter	Performance target
Transmission Circuit Availability	Transmission Circuit Availability (%)	99.46
	Critical Circuit Availability Peak (%)	99.09
	Critical Circuit Availability Non-Peak (%)	99.33
Loss of Supply Event Frequency	Events > x System Minutes	7
	Events > y System Minutes	2
Average Outage	Duration (minutes)	203.2
Market Impact*	Dispatch Intervals	1588

* note that these values do not include the adjustments to MIC data covered separately in ENET250 submitted on 5 September 2012 in response to AER RP 026

Table 10.5: Proposed values, weightings and other scheme elements

Parameter	Sub Parameter	Performance target	Cap (upper limit)	Collar (lower limit)	Weighting (%MAR)
Transmission Circuit Availability	Transmission Circuit Availability (%)	99.46	99.68	99.02	0.3
	Critical Circuit Availability Peak (%)	99.09	99.96	97.36	0.1
	Critical Circuit Availability Non-Peak (%)	99.33	99.87	98.25	0
Loss of Supply Event Frequency	Events > x System Minutes	7	4	9	0.1
	Events > y System Minutes	2	0	4	0.2
Average Outage	Duration (minutes)	203.2	83.2	323.2	0.3
Market Impact*	Dispatch Intervals	1588	0	1588	2

* note that these values do not include the adjustments to MIC data covered separately in ENET250 submitted on 5 September 2012 in response to AER RP 026

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Table 2: Target (mean), cap and collar calculated from best fit distribution (Parsons Brinckerhoff Report)

	Mean of Sample	Mean of distribution	SD	Cap at 1SD	Cap at 2SD	Collar at 1SD	Collar at 2SD
Availability (%)	99.52	99.52	0.22	99.74	99.96	99.31	99.09
Availability Critical Peak (%)	99.12	99.12	0.87	99.98	100.85	98.25	97.38
Availability Critical Non-Peak (%)	99.37	99.37	0.54	99.91	100.44	98.83	98.29
Average Outage Duration (Minutes)	203.20	203.20	60.01	143.19	83.17	263.21	323.23
No of events >0.2 System minutes	2.20	1.76	1.81	0.39	-	4.01	-
No of events >0.05 System minutes	6.60	6.46	2.80	3.80	-	9.40	-