Schedules to Chapter 8

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SCHEDULES TO CHAPTER 8

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SCHEDULE 8.1
METHOD OF CALCULATING SUPPLY RELIABILITY PERFORMANCE

(a) The method of calculating supply reliability performance is as follows:

Measure	Column	Definition	
SAIFI	A	Annual number of supply interruptions, on average, per supply reliability category	$= \sum_{i=1}^{C} \frac{\Phi_i}{C}$
	B	Annual number of supply interruptions, on average, per supply reliability area	$= \sum_{i=1}^{A} \frac{\Theta_i}{A}$
SAIDI	C	Annual duration of supply interruptions, on average, per supply reliability category	$= \sum_{i=1}^{C} \frac{\Delta_i}{C}$
	D	Annual duration of supply interruptions, on average, per supply reliability area	$= \sum_{i=1}^{A} \frac{\delta_i}{A}$

~~Target~~	~~Column~~		~~Definition~~
~~Annual number of supply interruptions, on average, per supply reliability category~~	~~Column A~~	=	$\frac{\Sigma \Phi_{(i,C)} \Theta_i}{\Sigma \Theta_{(i,C)}}$
~~Annual number of supply interruptions, on average, per supply reliability area~~	~~Column B~~	=	$\frac{\Sigma \Phi_{(i,R)} \Theta_i}{\Sigma \Theta_{(i,R)}}$
~~Annual duration of supply interruptions, on average, per supply reliability category~~	~~Column C~~	=	$\frac{\Sigma \Delta_{(i,C)} \Theta_i}{\Sigma \Theta_{(i,C)}}$
~~Annual duration of supply interruptions, on average, per supply reliability area~~	~~Column D~~	=	$\frac{\Sigma \Delta_{(i,R)} \Theta_i}{\Sigma \Theta_{(i,R)}}$

Where:

C is the number of customers in the reliability category

A is the number of customers in the reliability area

Φ_i is the number of supply interruptions experienced by customer i in the supply reliability category

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Θ_i is the number of supply interruptions experienced by customer i in the supply reliability area

Δ_i is the duration of supply interruptions experienced by customer i in the supply reliability category

$\delta\Delta_i$ is the duration of supply interruptions experienced by customer i in the supply reliability area~~Φ_{G,C_j} is the number of interruptions for transformer j in supply reliability category C_j in a year~~

~~Φ_{G,R_j} is the number of interruptions for transformer j in supply reliability area R_j in a year~~

~~Θ_{G,C_j} is the installed capacity of transformer j in supply reliability category C_j~~

~~Θ_{G,R_j} is the installed capacity of transformer j in supply reliability area R_j~~

~~Θ_j is the installed capacity of transformer j~~

~~A_{G,C_j} is the duration of outages for transformer j in supply reliability category C_j in a year~~

~~A_{G,R_j} is the duration of outages for transformer j in supply reliability area R_j in a year~~

~~Column refers to the relevant standard as outlined in Table 3 of Chapter 8.~~

~~Φ_j and Δ_j exclude:~~

- ~~outages resulting from generation, transmission and third party causes;~~
- ~~outages resulting from load shedding at Ministerial direction;~~
- ~~momentary outages (ie outages of less than 1 minute);~~
- ~~outages that are requested by the customer; and~~
- ~~outages resulting from disconnection for non-payment.~~

Column refers to the relevant standard as outlined in Table 3 of clause 8.6.11 - Interruptions to supply.

Φ and Δ exclude supply interruptions listed as exclusions in the version of the *Electricity Distribution Network Service Providers – Service Target Performance Incentive Scheme* issued by the AER as applicable to a *Distribution Network Service Provider*.

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