



# The EirGrid and SONI Implementation Approach to the SEM Committee Decision Paper SEM-15-071

"Process for the Calculation of Outturn Availability"

Published 10/02/2016

# Contents

Ex	Executive Summary2							
Ke	Key Points							
1.	Background6							
2.	Application of the SEMC Decision							
3.	Outturn Availability Connection Assets							
4.	Capital Outages							
5.	Annual Maintenance Outages7							
6.	Definition of Annual Maintenance7							
7.	The Five Designated Days of Annual Maintenance7							
	Scheduling Designated Days7							
	Generation Unit Initiated Outage Change Request8							
	TSO or TAO Initiated Outage Change8							
8.	Other Relevant Transmission Outages8							
9.	The Fora9							
10	.Grid Code & Trading and Settlement Code Modifications9							
11	11.Outturn Availability Declarations							
12	Application of the decision to both Transmission and Distribution Connected Facilities10							
Ap	Appendix 1: Example to demonstrate Annual Maintenance Outages11							
Ap	Appendix 2: Example to demonstrate Annual Maintenance Outages13							
Ap	pendix 3: Example to demonstrate Transmission Outages for Capital Works14							
Ap	pendix 4: Example to demonstrate a Generation Unit's own Outage15							
Ap	Appendix 5: Example to demonstrate Other Relevant Transmission Outages							
Ap	Appendix 6: Outturn Availability Table of Implementation Examples							
Ар	Appendix 7: Outturn Availability "Quick Guide" Decision Matrix18							

## **Executive Summary**

The Single Electricity Market Committee (SEMC) decision SEM-15-071 "Process for the Calculation of Outturn Availability" was published on 29 September 2015.

In order to provide further clarity to the industry, EirGrid and SONI have prepared this implementation paper "The EirGrid and SONI Implementation Approach to the SEM Committee Decision Paper SEM-15-071". This document is intended to clearly set out how the Transmission System Operators (TSOs), in collaboration with the Transmission Asset Owners (TAOs), intend to implement the SEMC Decision Paper SEM-15-071 across Northern Ireland and Ireland.

As the transmission outage season is regarded as running on a calendar year basis, and to ensure all customers are treated on a consistent basis, the principles as set out in this document apply from 1 January 2016 as confirmed by the SEMC in an addendum paper SEM-15-106 published on 22 December 2015.

The SEM-15-071 decision paper applies to both transmission and distribution connected Centrally Dispatched Generating Units and Controllable Wind Farm Power Stations which are disconnected as a direct result of a transmission outage scheduled by the TSO. Outages on the distribution system are not related to the decision paper.

This paper begins by highlighting the key points in relation to the TSOs' implementation approach and then continues to explain these points in more detail throughout the paper.

While the details of implementation were not all in place on 1 January 2016 and will be developed during 2016, the TSOs do not believe that these matters should affect the implementation of the SEMC decision paper.

# **Key Points**

On 29 September 2015, the Single Electricity Market Committee (SEMC) published its decision paper SEM-15-071 on the "Process for the Calculation of Outturn Availability". On 22 December 2015, the SEMC published an addendum paper SEM-15-106 confirming that the new arrangement will take effect from 1 January 2016. In response to this decision, EirGrid plc and SONI ltd, in their roles as Transmission System Operators (TSOs<sup>1</sup>) in Ireland and Northern Ireland respectively, in consultation with the Transmission Asset Owners<sup>2</sup> (TAOs), set out in this document how they will implement the decision across Ireland and Northern Ireland. This paper was shared with the RAs in advance of publication and their comments have been incorporated.

The principles of the TSOs' implementation approach are as follows:

- The SEM-15-071 decision paper applies to both transmission and distribution connected Centrally Dispatched Generating Units<sup>3</sup> (CDGUs) and Controllable Wind Farm Power Stations<sup>4</sup> (Controllable WFPS) (henceforth for the purposes of this paper known as a Generation Unit) which are disconnected as a direct result of a TSO scheduled outage of an *Outturn Availability Connection Asset(s)*. Outages on the distribution system are not related to the decision paper, and as such any distribution connected CDGU or Controllable WFPS shall be declared unavailable when disconnected due to a DSO scheduled outage.
- Outturn Availability Connection Asset(s) (OACAs) for the purposes of this interpretation of SEM-15-071 is defined as any equipment that is part of the Transmission System between and including the Connection Point and the busbar clamps at the Meshed Transmission Station for which the TSO schedules outages.
- 3. Each relevant Generation Unit affected by a transmission outage will declare their Availability as per the relevant Grid Code<sup>5</sup>, with the following exceptions (until such time as the relevant Grid Code modifications are in place) during which the Generation Unit will be required to declare Availability as zero:
  - a. Up to five calendar days for TSO scheduled annual maintenance works on the Outturn Availability Connection Asset.

<sup>&</sup>lt;sup>1</sup> In this document the term 'the TSO[s]' is used from time to time as shorthand for EirGrid and SONI, in their role as Transmission System Operator in Ireland and Northern Ireland respectively; where the sense requires this should be read as EirGrid and/or SONI in the carrying out of their respective licenced functions.

<sup>&</sup>lt;sup>2</sup> In this document the term 'the TAO[s]' is used from time to time as shorthand for ESB Networks (ESBN) and NIE Networks, in their role as Transmission Asset Owner in Ireland and Transmission Owner (TO) in Northern Ireland respectively; where the sense requires this should be read as ESBN and/or NIE Networks in the carrying out of their respective licenced functions.

<sup>&</sup>lt;sup>3</sup> All capitalised terms are defined as per the relevant Grid Code, with the exception of acronyms and the terms Outturn Availability and Outturn Availability Connection Asset which are defined in this paper.

<sup>&</sup>lt;sup>4</sup> A Controllable WFPS with a single connection point is for the purposes of Outturn Availability considered a Generation Unit.

<sup>&</sup>lt;sup>5</sup> Generators connected at the legacy position in Northern Ireland will remain Outturn Available for all outages of their Outturn Availability Connection Assets.

b. Where work on the transmission system is being carried out that is related to the relevant Generation Unit.

An example of b is where a Generation Unit is moving from a temporary to a permanent connection and the generator will have Outturn Availability<sup>6</sup> of zero for their own connection works. However where work is being carried out to another Generation Unit (with a different Connection Point but a shared Outturn Availability Connection Asset) then Outturn Availability will equal that of the Generation Unit's Availability declared as per the Grid Code.

- 4. Having regard in particular for the addendum paper, the TSOs are applying the principle that each Generation Unit will declare their availability in accordance with point 3 above from 1 January 2016. The detailed obligations which SEM-15-071 places upon the TSOs in relation to the progression of Grid Code and Trading & Settlement Code modifications and the Forum, as well as TSO/TAO processes and procedures for tracking, implementation and reporting were not all in place by 1 January 2016, but will be developed during 2016. The TSOs will monitor the effectiveness of the implementation over the coming year and, if necessary, conduct a timely review.
- 5. The "Guide to Transmission Equipment Maintenance" document will define what constitutes scheduled annual maintenance of the Outturn Availability Connection Asset with standard lead times and frequencies of maintenance in Ireland and will be published on the EirGrid website. SONI will facilitate the publishing of a link to a similar document on the Northern Ireland Electricity Networks (NIE Networks) website related to the standard lead times and frequencies of maintenance.
- 6. Designated days for TSO scheduled annual maintenance do not need to be consecutive to count towards the total of 5 calendar days.
- 7. A portion of a day of scheduled annual maintenance will count as one day, for example 3.5 days will be counted as 4 days.
- 8. Designated days are those aligned (where possible) with the Committed/Final Outage Programmes<sup>7</sup> before the outage commences. For five days of scheduled annual maintenance works, the Generation Unit will declare Outturn Availability of zero. For other days of scheduled annual maintenance (in the same calendar year) the Generation Unit will be deemed to be Outturn Available.
- 9. A Generation Unit on its own outage will not be deemed Outturn Available by default, as Availability shall be declared as per the relevant Grid Code.
- 10. Scheduled annual maintenance days will count towards the five designated days. Unscheduled outages such as forced outages on the Generation Unit's Outturn Availability Connection Asset

<sup>&</sup>lt;sup>6</sup> Outturn Availability is defined for the purposes of this interpretation of SEM-15-071 as the set of Availability data for the relevant Generation Unit as declared under the relevant Grid Code and submitted by the relevant TSO to SEM after the end of the Trading Day.

<sup>&</sup>lt;sup>7</sup> Committed Outage Programme and Final Outage Programme contain Generation Unit outages only and are published each September for the following calendar year. Committed Outage Programme and Final Outage Programme are as defined in the EirGrid and SONI Grid Codes respectively.

will not count towards the five days and the affected Generation Unit will declare their Availability as per the Grid Code.

- 11. Changes to designated days
  - a. Generation Unit initiated outage change request: Should a Generation Unit subsequent to the assignment of designated days for scheduled annual maintenance change their own outage dates, the TSO (in consultation with the TAO) will make reasonable endeavours to realign the scheduled annual maintenance outage. However if this is not possible then the scheduled annual maintenance works will proceed as originally planned and the Generation Unit will not be Outturn Available for the first five days of scheduled annual maintenance works.
  - b. TSO or TAO initiated outage change: The TSO or TAO may, subsequent to the assignment of designated days for scheduled annual maintenance, need to change the proposed dates of the scheduled annual maintenance. Although the TSO will attempt to align annual maintenance of OACA(s) with the Generation Unit's own outage, where alignment is not possible the TSO will endeavour to find a mutually acceptable date. For the avoidance of doubt during the rescheduled designated days the Generator Unit will not be Outturn Available. As with all changes to scheduled designated days, this will be recorded in the expost report.
- 12. Each TSO will schedule an ex-ante forum and an ex-post forum in quarter one of a calendar year.
- 13. Where the TSO requires additional maintenance outages that are not considered in the "Guide to Transmission Equipment Maintenance" document, the TSO will endeavour to coordinate these outages with the Generator Unit's own outages planned and agreed in the Committed/Final Outage Programmes for any given year. Where it is not possible for the TSO to align these additional outages with the Generation Unit's own outage(s), the Generation Unit will remain Outturn Available.

### 1. Background

The TSOs are obligated under the Trading and Settlement Code to provide a record of a Generation Unit's Outturn Availability to the Single Electricity Market (SEM) for market scheduling, pricing and settlement purposes. Outturn Availability is the name assigned in SEM to the set of availability data received by the SEM systems from the TSOs' systems following the end of the relevant day. Outturn Availability data is used to develop the availability profile of each Generation Unit in SEM and consequently affects the commercial position of the Generation Unit, as it sets the upper limit on what the relevant Generation Unit can be scheduled to in SEM.

On 1 February 2013, the TSOs published a consultation paper in order to put in place a transparent and non-discriminatory set of principles that can be used by the TSOs in the determination of Outturn Availability for all Generator Units. The consultation paper sought the opinion of all parties on a range of options that the TSOs could apply to calculating Outturn Availability for situations other than when the Generation Unit is unavailable for technical reasons associated with the unit or its auxiliary plant.

A minded to decision paper was subsequently developed by the Utility Regulator Northern Ireland and the Commission for Energy Regulation (the Regulatory Authorities or RAs), which outlined their minded to decision on the calculation of Outturn Availability in the SEM.

On 29 September 2015, the SEMC published its decision paper SEM-15-071 on the "Process for the Calculation of Outturn Availability". In response to this paper the TSOs set out in this document how they will implement this decision across the island of Ireland.

# 2. Application of the SEMC Decision

The SEM-15-071 decision paper applies to both transmission and distribution connected CDGUs and Controllable WFPS which are disconnected as a direct result of a TSO scheduled outage of an Outturn Availability Connection Asset. The associated addendum published on 22 December 2015 provides clarity on the implementation date of the decision, and accordingly, the principles of the ruleset outlined in SEM-15-071 are applied from 1 January 2016.

# 3. Outturn Availability Connection Assets

Outturn Availability Connection Asset(s), for the purposes of this interpretation of SEM-15-071, are defined as any equipment that is part of the Transmission System between and including the Connection Point and the busbar clamps at the Meshed Transmission Station for which the TSO schedules outages.

## 4. Capital Outages

If a Generation Unit is on a temporary connection and that Generation Unit is disconnected as a direct result of works to make that Generation Unit's own connection permanent, then the Generation Unit will not be Outturn Available.

Where work is being carried out that is related to an existing Generation Unit, the Generation Unit will not be Outturn Available. However, where work is being carried out on another Generation Unit that has a separate connection point but a shared portion of the Outturn Availability Connection Asset, then the Generation Unit disconnected for works not related to that Generation Unit will remain Outturn Available.

Where an outage is related to the connection of a subsequent phase (for example of a wind farm) with a shared Connection Point, then all the disconnected phases will not be Outturn Available for the duration of the outage.

# 5. Annual Maintenance Outages

In considering maintenance, SEM-15-071 addresses CDGUs and Controllable WFPS (both distribution and transmission) which are disconnected as a direct result of a TSO planned transmission outage for scheduled annual maintenance of up to five calendar days on the Outturn Availability Connection Asset. The role of the TSOs is to schedule the relevant annual maintenance transmission outages and to track the five designated days.

# 6. Definition of Annual Maintenance

EirGrid will produce a list of scheduled annual maintenance items (as well as estimated durations and frequency for the same) which will be included in the "Guide to Transmission Equipment Maintenance" document, to be published on the EirGrid website. As all maintenance is the responsibility of the Transmission Owner (NIE Networks) in Northern Ireland, SONI will facilitate the publishing of link to such a document on the NIE Networks website.

# 7. The Five Designated Days of Annual Maintenance

Designated days for annual maintenance do not need to be consecutive to count towards the total of five days, and will be calculated on a calendar day basis. For administrative purposes any portion of a day of annual maintenance will count as one day. For example three and a half days of annual maintenance work will be counted as four days.

#### **Scheduling Designated Days**

Where a Generation Unit has no outage dates in the Committed/Final Outage Programmes, then the designated days will be determined by the TSO.

Where a Generation Unit has an outage in the Committed/Final Outage Programmes then the TSO will attempt to align annual maintenance with a Generation Unit's own outage wherever possible. However, to allow this alignment the Generation Unit's own outage works must not interfere with or prevent the annual maintenance from taking place. When aligning with a Generation Unit's own outage, standard TAO working days will be scheduled to complete the annual maintenance where sufficient days are available.

The five designated days are scheduled by the TSO before the scheduled annual maintenance works commence. The TSO will apply the principle that the first five days of scheduled annual maintenance works will be deemed designated days (provided that the Outturn Availability Connection Assets are available for maintenance) and the Generation Unit will be required to declare Availability as zero during each designated day, commencing from the start of the outage on the first designated day. Upon completion of the scheduled annual maintenance (or at the end of the designated days, whichever comes first), the Generation Unit will declare their Availability as per the relevant Grid Code. An exception will be applied where the annual maintenance outage is scheduled to commence ahead of the Generation Unit's own outage and will last longer than 5 calendar days. In this scenario (see Appendix 6, scenario C), the designated days will be aligned with the Generation Unit's own outage where possible, unless annual maintenance cannot be carried out due to the Generator Unit's own works which will require the scheduled annual maintenance and the designated days to be realigned accordingly. In the event that the Generation Unit's outage is less than five days then the remaining designated days will be assigned as per the normal principle (i.e. from the start of the outage).

#### **Generation Unit Initiated Outage Change Request**

A Generation Unit may subsequently apply to the TSO to change their outage dates. Typically, the scheduled annual maintenance works will already be aligned with the Generation Unit's previous outage dates. In this instance, the TSO will apply reasonable endeavours to realign the scheduled annual maintenance outage. However, if this is not possible then the scheduled annual maintenance works will proceed as originally planned and the Generation Unit will not be Outturn Available for the first five days.

For the avoidance of doubt where a maintenance outage is scheduled but cannot be completed on the day in question due to a Generation Unit's own works, the Generation Unit will not be deemed Outturn Available for the rescheduled dates, i.e. the designated day will be rescheduled to align with the rescheduled annual maintenance.

#### **TSO or TAO Initiated Outage Change**

The TSO or TAO may, subsequent to the assignment of designated days for scheduled annual maintenance, change the proposed dates and/or scope of the scheduled annual maintenance. Although the TSO will attempt to align annual maintenance of OACA(s) with the Generation Unit's own outage, where alignment is not possible the TSO will endeavour to find a mutually acceptable date. For the avoidance of doubt during the rescheduled designated days the Generator Unit will not be Outturn Available. As with all changes to scheduled designated days, this will be recorded in the ex-post report.

#### 8. Other Relevant Transmission Outages

For forced outages and proximity outages, in so far as they impact on the Generation Unit, the Generation Unit should remain Outturn Available.

Transmission outages not covered by this are works carried out at the Generation Unit's request or work specifically to accommodate the Generation Unit – e.g. work to increase capacity or work to transition a

Generation Unit from a temporary connection to a permanent connection. For these outages, the Generation Unit will not be Outturn Available. For the avoidance of doubt, capital works do not contribute to the 5 designated days for the relevant Generation Unit unless annual maintenance is scheduled to overlap. For the duration of these works, any other unrelated Generation Unit with a shared portion of an Outturn Availability Connection Asset but a different Connection Point will remain Outturn Available.

#### 9. The Fora

The ex-ante and the ex-post fora will be held in Quarter One (Q1) of each calendar year, with the first ex-ante forum proposed for Q1 2016. The fora will act as an aid to the outage planning process already in place. In preparation for the ex-ante fora, separate outage plans will be published by both EirGrid and SONI. A separate forum will be held by EirGrid and SONI for both the ex-post and the ex-ante planning. For the ex-post fora each TSO will publish a summary report of the outage schedule at the end of the outage season. The summary will compare the estimated time for each maintenance task against the time actually needed for each task. The summary will also track the number of outage change requests received by the TSO from the relevant Generation Unit and the number of outage change requests sent by the TSO to the relevant Generation Unit for designated days or annual maintenance on Outturn Availability Connection Assets. The ex-ante outage plans and the ex-post summaries will be sent to the RAs for review. Generation Outage Planning related material is detailed on the EirGrid/SONI websites with the appropriate forms and contact information. The fora will be an additional avenue for positive engagement between parties in addition to the current outage planning process which include for example one to one meetings between TSO Generation customers and the TSOs to discuss the outage plans. The scope of the fora includes outage of Outturn Availability Connection Assets only. Other outages and the scheduling of the same fall outside of the scope of the fora.

# **10.** Grid Code & Trading and Settlement Code Modifications

The TSOs are progressing modifications both to the Grid Codes and to the Trading and Settlement Code ('T&SC') through the Grid Code Review Panels and the Modifications Committee respectively.

# **11. Outturn Availability Declarations**

A Generation Unit will be informed by the TSO in advance where a transmission outage affects the Generation Unit's Outturn Availability. The DSO will be informed in advance of transmission outages directly impacting the distribution system. Where a distribution connected Generation Unit is impacted by a TSO scheduled transmission outage this Generation Unit will be informed by the DSO.

CDGUs will declare the appropriate Availability to reflect their Outturn Availability in the All-Island Electronic Dispatch Instruction Logger (EDIL).

# 12. Application of the decision to both Transmission and Distribution Connected Facilities

The SEM-15-071 decision paper states that the decision applies to both transmission and distribution connected generators. The RAs confirmed in correspondence with the TSOs on 27 January 2016 that *"The SEMC decision paper does not apply to planned outages on the Distribution system. However, as noted by the TSOs, all generators within their remit (those controllable or centrally dispatched) be they transmission or distribution connected, will be treated in a consistent manner, in terms of the calculation of outturn availability, where impacted by transmission system outages."* 

Outages on the distribution system are not related to the decision paper, and as such any distribution connected CDGUs or Controllable WFPSs shall declare unavailable when disconnected due to a DSO planned outage.

## **Appendix 1: Example to demonstrate Annual Maintenance Outages**

This appendix sets out examples to demonstrate the implementation of the Outturn Availability decision where one or more Transmission Stations are tailed from a meshed Transmission Station and a distribution connected customer is connected in turn to a tailed Transmission Station.



Figure 1: Normal configuration: Outturn Availability Connection Assets in place. Both windfarms are Outturn Available.



Figure 2: Shared Outturn Availability Connection Assets of both facilities disconnected for Annual Maintenance. Both facilities are not Outturn Available for the first 5 days.



Figure 3: Outturn Availability Connection Asset of TSO Generation Unit disconnected for Annual Maintenance. TSO connected Generation Unit Outturn Available after the 5th day (i.e. of the cumulative total of the outage works on Circuit 1 & 2). DSO Generation Unit remains fully Outturn Available during works on Circuit 2.



Figure 4: Outturn Availability Connection Asset of DSO Generation Unit not disconnected for TSO scheduled Annual Maintenance. The DSO connected Generation Unit is disconnected for distribution system works and is not Outturn Available at any time. TSO Generation Unit remains fully Outturn Available.

## **Appendix 2: Example to demonstrate Annual Maintenance Outages**

This appendix sets out examples to demonstrate the implementation of the Outturn Availability decision where one or more Distribution Stations are tailed from a meshed Transmission Station.



Figure 5: Normal configuration: There are no Outturn Availability Connection assets as both windfarms are connected to the meshed transmission system by distribution equipment, with the DSO connection to the meshed transmission system in place both wind farms are Outturn Available.





# Appendix 3: Example to demonstrate Transmission Outages for Capital Works

This appendix sets out an example to demonstrate the implementation of the Outturn Availability decision during capital works associated with a Generation Unit on a temporary connection.



Figure 7: Normal configuration: Customer 1 on a permanent connection, Customer 2 on a on a temporary connection.



Figure 8: Line up-rate required to facilitate the permanent connection of customer 2. Customer 1 Outturn Available, customer 2 not Outturn Available.

## **Appendix 4: Example to demonstrate a Generation Unit's own Outage**

This appendix sets out an example to demonstrate the implementation of the Outturn Availability decision during a Generation Unit's own outage.



Figure 9: Normal configuration: Outturn Availability Connection Assets in place. Both windfarms are Outturn Available.



Figure 10: Outturn Availability Connection Assets of both facilities in-place. However a TSO customer's own assets are disconnected for maintenance, the TSO customer is not Outturn Available. The DSO customer remains unaffected.

# Appendix 5: Example to demonstrate Other Relevant Transmission Outages

This appendix sets out an example to demonstrate the implementation of the Outturn Availability decision during a transmission outage associated with one Generation Unit.



Figure 12: Unit 1 and Unit 2 disconnected for works related to Unit 2. Unit 1 remains Outturn Available while Unit 2 is not Outturn Available.

# **Appendix 6: Outturn Availability Table of Implementation Examples**

#### **Table 1: Implementation Examples**

Legend	
Generator's own Outage	
Outturn Availability Connection Asset Maintenance Outage	
Transmission Capital Outage of Outturn Availability Connection Asset (not associated with the Generator)	
Transmission Capital Outage of Outturn Availability Connection Asset (associated with the Generator)	
Generator declare their own technical Availability	A
Generator is not Outturn Availabile	0

			Number	лыув							
		1	2	3	4	5	6	7	8	9	10
	Concentrale ours Octores			_			-	-		-	
	Generator's own Outage										
	Outturn Availability Connection Asset Maintenance Outage					1 /					
Scenario A	Transmission Canital Outane (not associated with the Generator)										
occitation	Transmission Capital College (not associated minime denotation)		-				-	-			
	Resulting Outturn Availability of Generator	0	0	0		1 /	0	0	A		
	Accumulation of the 5 Calendar Days	1/5	2/5	3/5			4/5	5/5			
	Concentrate over Outrino.			0.0							
	Generator's own Outage										
	Outturn Availability Connection Asset Maintenance Outage										
Scenario B	Transmission Canital Outage (not associated with the Generator)										
COCK AND D		0									
	Resulting Outturn Availability of Generator	0	0	0	0	0	A	A	A	A	A
	Accumulation of the 5 Calendar Days	1/5	2/5	3/5	4/5	5/5					
	Comminute ours Outron										
	Generator's own Outage										
	Outturn Availability Connection Asset Maintenance Outage										
Scenario C	Transmission Canital Outage (not associated with the Generator)										
000111100							-	-	-		
	Resulting Outturn Availability of Generator	A	A	A	0	0	0	0	0	A	A
	Accumulation of the 5 Calendar Days	4/5	5/5		1/5	2/5	3/5				
	Constatute out Outson								i		
	Generator's own Outage										
	Outturn Availability Connection Asset Maintenance Outage										
Scenario D	Transmission Canital Outage (not associated with the Generator)										
0001211012		0									
	Resulting Outturn Availability of Generator	0	0	0	0	0	A	A	A	A	A
	Accumulation of the 5 Calendar Days	1/5	2/5	3/5	4/5	5/5					
	Generator's own Outage										
	deneration s own outlage										
	Outturn Availability Connection Asset Maintenance Outage										
Scenario F	Transmission Capital Outage (not associated with the Generator)										
	Pasulting Outhurs Auglishills of Connector	0	6	C	0	L		l		<u> </u>	
	Resulting Outturn Availability of Generator	0	0	0	0						
	Accumulation of the 5 Calendar Days	1/5	2/5	3/5	4/5	1 7					
	Generator's own Outage										
		nance Outage									
	Outturn Availability Connection Asset Maintenance Outage										
Scenario F	Transmission Capital Outage (not associated with the Generator)										
	Posulting Outturn Augilability of Congratur	0	0	0	0	0	^				<u> </u>
	Resulting Outlum Availability of Generator	0	0	0	<u> </u>	<u> </u>	~				
	Accumulation of the 5 Calendar Days	1/5	2/5	3/5	4/5	5/5					
	Generator's own Outage	ulation of the 5 Calendar Days       1/5       2/5       3/5       4/5       5         ator's own Outage				i		<u> </u>			
	deneration s own outlage										
	Outturn Availability Connection Asset Maintenance Outage										
Scenario G	Transmission Capital Outage (not associated with the Generator)										
	Resulting Outturn Availability of Generator	0	0	0	0	0	Δ.	Δ.			
	Nesdiang Oddulli Availability of Generator	U	~	0	~		~	~			
	Accumulation of the 5 Galendar Days	1/5	2/5	3/5	4/5	5/5					
	Accumulation of the 5 Calendar Days Generator's own Outage	1/5	2/5	3/5	4/5	5/5					
	Accumulation of the 5 Calendar Days Generator's own Outage	1/5	2/5	3/5	4/5	5/5					
	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage	1/5	2/5	3/5	4/5	5/5					
Scenario H	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator)	1/5	2/5	3/5	4/5	5/5					
Scenario H	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator	0	2/5	3/5	4/5	5/5	0	0	0	0	0
Scenario H	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator	0	0	3/5	4/5 0	0	0	0	0	0	0
Scenario H	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days	1/5 0 1/5	2/5 0 2/5	3/5 0 3/5	4/5 0 4/5	5/5 0 5/5	0	0	0	0	0
Scenario H	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage	0	2/5 0 2/5	3/5 0 3/5	4/5 0 4/5	5/5 0 5/5	0	0	0	0	0
Scenario H	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage	0	0 2/5	3/5 0 3/5	4/5 0 4/5	5/5 0 5/5	0	0	0	0	0
Scenario H	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage	0 1/5	0 2/5	3/5 0 3/5	4/5 0 4/5	0	0	0	0	0	0
Scenario H Scenario I	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator)	0 1/5	0 2/5	3/5 0 3/5	4/5 0 4/5	0	0	0	0	0	0
Scenario H Scenario I	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator	0 1/5	0 2/5	3/5 0 3/5	4/5 0 4/5	0	0	0	0 	0	0
Scenario H Scenario I	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator International Outage (not associated with the Generator)	0 1/5	0 2/5	3/5 0 3/5	4/5 0 4/5	0 5/5 0 5/5	0 A	0 A	0 	0	0
Scenario H Scenario I	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days	1/5 0 1/5 0 1/5	0 2/5 0 2/5	3/5 0 3/5 0 3/5	4/5 0 4/5 0 4/5	5/5 0 5/5 0 5/5	0 A	0 A	0 A	0	0
Scenario H Scenario I	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage	0 1/5 0 1/5	0 2/5 0 2/5 0 2/5	3/5 0 3/5 0 3/5	4/5 0 4/5 0 4/5	0 5/5 5/5 0 5/5	0 A	0 A	0 A	0	0
Scenario H Scenario I	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Outturn Availability Connection Asset Maintenance Outage	0 1/5 0 1/5	0 2/5 0 2/5 0 2/5	3/5 0 3/5 0 3/5	4/5 0 4/5 0 4/5	5/5 0 5/5 0 5/5	0 	0 A	0 A	0	0
Scenario H Scenario I	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Outturn Availability Connection Asset Maintenance Outage Outturn Availability Connection Asset Maintenance Outage	0 1/5 0 1/5	0 2/5 0 2/5	3/5 0 3/5 0 3/5	4/5 0 4/5 0 4/5	5/5 0 5/5 0 5/5	0 A	0 A	0 A	0	0
Scenario H Scenario I Scenario J	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator)	1/5 0 1/5 0 1/5	0 2/5 0 2/5	3/5 0 3/5 0 3/5	4/5 0 4/5 0 4/5	5/5 0 5/5 0 5/5	0 A	0 A	0 A	0	0
Scenario H Scenario I Scenario J	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Resulting Outturn Availability of Generator	0 1/5 0 1/5	2/5 0 2/5 0 2/5	3,5 0 3,5 0 3,5 0 3,5	4/5 0 4/5 0 4/5 A	0 5/5 0 5/5	0 	0 	0 	0	0
Scenario H Scenario I Scenario J	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's Own Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days	0 1/5 0 1/5	2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 A	0 A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days	1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5	0 A A	0 A A	0 	0	0
Scenario H Scenario I Scenario J	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Generator's own Outage	1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 A	0 A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outsurn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outsurn Availability Connection Asset Maintenance Outage Outsurn Availability Connection Asset Maintenance Outage	1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 A	0 A A	0 A	0 	0	0
Scenario H Scenario I Scenario J	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Outurn Availability Connection Asset Maintenance Outage Outage Outurn Availability Connection Asset Maintenance Outage Outage	1/5 0 1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 A	0 A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator)	1/5 0 1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 5/5 A	0 A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outage (not associated with the Generator) Resulting Outage (not associated with the Generator) Resulting Outarn Availability of Generator	1/5 0 1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 A A	0 A A A	0 A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's Own Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's Own Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days	1/5 0 1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 A A	O A A A	0 A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days	1/5 0 1/5 0 1/5 0	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 0	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 4 A	0 A A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's Own Outage Mathematical Dutage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage	1/5 0 1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 A A	O A A A	0 A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage	1/5 0 1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 0	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 A A	0 A A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Onnection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Outurn Availability Connection Asset Maintenance Outage	1/5 0 1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 A A	0 A A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K Scenario L	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outabellity Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation Capital Outage (not associated with the Generator) Accumulation Capital Outage (not associated with the Generator) Categer Canadity Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Categer Canadity Connection Asset Maintenance Outage Transmisel Capital Outag	0 1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 4 A	0 A A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K Scenario L	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outage Outage Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outage (not associated with the Generator) Resulting Outage Nonection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outage Nonection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outage Nonection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outage	1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 A A A	0 A A A	0 A A	0 	0	0
Scenario H Scenario I Scenario J Scenario K Scenario L	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Accumulation of the 5 Calendar Days Generator's Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Accumulation of the 5 Calendar Days Generator's Outurn Availability of Generator Accumulation of the 5 Calendar Days	1/5 0 1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 4 A A	0 A A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K Scenario L	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outage (not associated with the Generator) Resulting Outage (not associated with the Generator) Resulting Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outage (not associated with the Generator) Resulting Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Caumulation of the 5 Calen	1/5 0 1/5 0 1/5 0 1/5 0 0 1/5	2/5 0 2/5 0 2/5 0 2/5 0 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 A A	5/5 0 5/5 0 5/5 A A	0 A A A A	0 A A	0 	0	0
Scenario H Scenario I Scenario J Scenario K Scenario L	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage	0 1/5 0 1/5 0 1/5 0 0 4	2/5 0 2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A	5/5 0 5/5 0 5/5 A A A	0 A A A	0 A A	0 A		0
Scenario H Scenario I Scenario J Scenario K Scenario L	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage Outurn Availability Co	1/5 0 1/5 0 1/5 0 1/5 0 0 1/5	2/5 0 2/5 0 2/5 0 2/5 0 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 A A	5/5 0 5/5 0 5/5 A A A	0 A A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K Scenario L	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage Outurn Availability Connection Asset Maintenance Outage Outurn Availability Connection Asset Maint	0 1/5 0 1/5 0 1/5 0 0 4 A	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 4 A	4/5 0 4/5 A A	5/5 0 5/5 0 5/5 A A A	0 A A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K Scenario L Scenario M	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Transmission Capital Outage (not associated with the Generator) Accumulation Capital Outage (not associated with the Generator) Accumulation Capital Outage (not associated with the Generator) Accumulation Capital Outage (not associated	0 1/5 0 1/5 0 1/5 0 1/5	2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 A 0 A	5/5 0 5/5 0 5/5 A A A	0 A A A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K Scenario L Scenario M	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Teasmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator	1/5 0 1/5 0 1/5 0 1/5 0 0 4 A	2/5 0 2/5 0 2/5 0 2/5 0 A	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 0 4/5 A A	5/5 0 5/5 A A A	0 A A A	0 A A	0 A		0
Scenario H Scenario I Scenario J Scenario K Scenario L Scenario M	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Accumulation of the 5 Calendar Days	1/5 0 1/5 0 1/5 0 1/5 0 0 1/5	2/5 0 2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5 0 4 0	4/5 0 4/5 A 0 A	5/5 0 5/5 0 5/5 A A A A	0 A A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K Scenario L Scenario M	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage	1/5 0 1/5 0 1/5 0 1/5 0 0 4 A	2/5 0 2/5 0 2/5 0 2/5 0 A	3.5 0 3.5 0 3.5 0 3.5 0 4 A	4/5 0 4/5 0 4/5 A A 0	5/5 0 5/5 0 5/5 A A A A	0 A A A	0 A A	0 A		0
Scenario H Scenario I Scenario J Scenario K Scenario L Scenario M	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Accumulation of the 5 Calendar Days Generator's ow	1/5 0 1/5 0 1/5 0 1/5 0 0 1/5 0 0 0 0 0	2/5 0 2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 A 0 A	5/5 0 5/5 0 5/5 A A A A	0 A A A	0 A A	0 A		0
Scenario H Scenario I Scenario J Scenario K Scenario L Scenario M	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage Outurn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associat	1/5 0 1/5 0 1/5 0 1/5 0 0 0 0 0	2/5 0 2/5 0 2/5 0 2/5 0 A	3.5 0 3.5 0 3.5 0 3.5 0 4	4/5 0 4/5 0 4/5 A A 0	5/5 0 5/5 0 5/5 A A A 0 0	0 A A A	0 A A	0 A		0
Scenario H Scenario I Scenario J Scenario K Scenario L Scenario M	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outage Outage (not associated with the Generator) Resulting Outa	1/5 0 1/5 0 1/5 0 1/5 0 0 1/5	2/5 0 2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 A 0 A	5/5 0 5/5 0 5/5 A A A A	0 A A A	0 A A	0 A	0	0
Scenario H Scenario I Scenario J Scenario K Scenario L Scenario M Scenario N	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outurn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outurn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Da	1/5 0 1/5 0 1/5 0 1/5 0 0 0 4 A	2/5 0 2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 4	4/5 0 4/5 0 4/5 A A 0	5/5 0 5/5 0 5/5 A A A A	0 A A A	0 A A	0 A		0
Scenario H Scenario I Scenario J Scenario K Scenario L Scenario M	Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (not associated with the Generator) Resulting Outturn Availability of Generator Accumulation of the 5 Calendar Days Generator's own Outage Outturn Availability Connection Asset Maintenance Outage Transmission Capital Outage (associated with	1/5 0 1/5 0 1/5 0 1/5 0 0 1/5	2/5 0 2/5 0 2/5 0 2/5 0 2/5	3.5 0 3.5 0 3.5 0 3.5 0 3.5 0 3.5	4/5 0 4/5 A A 0 A	5/5 0 5/5 0 5/5 A A A 0 0	0 A A A A	0 A A	0 A	0	0

# Appendix 7: Outturn Availability "Quick Guide" Decision Matrix

CDGU or Controllable WFPS disconnected for a TSO planned transmission outage	Generation Unit on own outage	Annual Maintenance of the Generation Unit's Outturn Availability Connection Assets ≤ 5 calendar days	If capital works, are the works related to the Generation Unit?	Is the disconnected Generation Unit Outturn Available?		
No	No N/A					
Yes	Yes	N/A	No			
		Yes	N/A	No		
	No	No (e.g. Capital works, forced	Yes	No		
		annual maintenance works after the 5 <sup>th</sup> calendar day)	No (or N/A)	Yes		

Table 2: "Quick Guide" decision matrix for TSO planned transmission outages

Note that Generators connected at the "legacy" position in Northern Ireland are deemed Outturn Available if there is an outage of the Outturn Availability Connection Assets in all cases (i.e. for fault repair or maintenance).