TEMPLATE EXPLANATION

This template must be used by the TNSP to report service performance information for the previous calendar year.

Yellow worksheets (**'Inputs - Performance'** and **'Inputs - Exclusions'**) are for inputs, including performance and exclusion information. The TNSP only needs to enter data on these worksheets.

Purple worksheets '**S1' to 'S7'** are the s-factor results based on the performance inputs from the 'Inputs - Performance' worksheet.

Blue worksheet '**Revenue Calculation'** quantifies the appropriate revenue to be applied to the s-factor results adjusted for CPI.

Red worksheet '**Outcomes'** shows the total performance, s-factor and financial incentive results based on the TNSP's performance in 'Inputs-Performance' and 'Revenue Calculation' worksheets.

Powerlink - SERVICE STANDARDS PERFORMANCE

Performance Inputs							
S	Performance parameter	Collar	Target	Cap	Revenue at Risk	Performance (Without exclusions)	Performance (With exclusions)
S1	Peak transmission circuit availability	98.31%	98.76%	99.20%	0.100%	99.05%	99.07%
S2	Transmission line availability	97.60%	98.76%	99.92%	0.100%	98.47%	98.47%
S3	Transformer availability	98.27%	98.76%	99.24%	0.100%	98.91%	98.93%
S4	Reactive plant availability	94.45%	97.15%	99.84%	0.150%	97.63%	97.63%
S5	Loss of supply event frequency (No of events > 0.1 system minutes)	6	4	2	0.150%	0	0
S6	Loss of supply event frequency (No of events > 0.75 system minutes)	2	1	0	0.30%	0	0
S7	Average outage duration	1,306	859	412	0.10%	1181	1270.8456

Revenue Determination Inputs	
TNSP:	Powerlink
STPIS version:	Mar-2011
Regulatory Determination	2012-13 to 2016-17
Base Year Allowed Revenue	$835,000,000
Base Year	2012-13
X-factor	-3.02%
Commencement of regulatory year	1-Jul-12

Other inputs	
Assessment Period	2016
Financial year to affect revenue:	2017/18
Date prepared:	24 January 2017
Revision date:	
Circuit information	
Number of peak circuits	601
Number of transmission lines	295
Number of transformers	171
Number of reactive plant	135

Average outage duration information - performance with exclusions	
Duration of unplanned outages (mins)	91501
Number of excluded events	21
Total number of events	72

Average outage duration information - performance without exclusions	
Duration of unplanned outages (mins)	109847
Total number of events	93

NOTE:

Pink cells - Performance without exclusions input cells

Orange cells - Performance with exclusions input cells

Green cells - Other inputs

Blue cells - Inputs sourced from the revenue determination

Performance is based on a calendar year or the proportion of a calendar

Other Inputs						
Annual revenue adjusted for CPI	Mar-12	Mar-13	Mar-14	Mar-15	Mar-16	Mar-17
CPI (old base)	179.5					
CPI (new base)	99.9	102.4	105.4	106.8	108.2	

Powerlink - Proposed exclusions

CIRCUIT AVAILABILITY		Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Total hours unavailable	Circuits affected	Reactive plant or transformer	Quantitative impact	Reasons for exclusion request	Further references
Name of any circuit availability parameters		Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date and time of event		End date and time of event			Name of circuits affected	Name of any equipment affected	Impact of exclusion event on availability sub-parameter	Full details of the reason/s for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg. 3rd party outage exclusion	A TNSP may provide further details of an exclusion event. TNSP to provide reference.
S1	Peak transmission circuit availability	20160003	Feeder 7206: H039 Woree to Cairns City tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	5/01/16	10:55:47	5/01/16	20:15:44	9.333	Feeder 7206		9.332500	Third party event	
S1		20160057	T038 Mackay: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	15/02/16	10:51:59	15/02/16	11:00:41	0.145		T038 Mackay 1 Transformer	0.145000	Third party event	
S1		20160067	Feeder 7209: H016 Rocklea to T142 Tennyson tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	3/03/16	12:02:44	3/03/16	16:23:33	4.347	Feeder 7209		4.346944	Third party event	
S1		20160067	T142 Tennyson: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	3/03/16	12:02:44	14/03/16	08:48:34	101.764		T142 Tennyson 1 Transformer	101.763890	Third party event	
S1		20160151	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	3/11/16	22:14:10	4/11/16	17:15:39	10.261		T035 Dysart 1 Transformer	10.260830	Third party event	
S1		20160164	Feeder 8879: H007 Gladstone to H067 Calliope River de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	23/11/16	09:24:22	23/11/16	18:57:21	9.550	Feeder 8879		9.549722	Third party event	
S1														
S2	Transmission line availability	20160003	Feeder 7206: H039 Woree to Cairns City tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	5/01/2016	10:55	5/01/2016	20:15	9.332	Feeder 7206		9.332500	Third party event	
S2		20160022	Feeder 7184: T053 Kamerunga to T054 Barron Gorge tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	29/01/2016	0:57	29/01/2016	2:54	1.957	Feeder 7184		1.957222	Third party event	
S2		20160022	Feeder 7143: T053 Kamerunga to T054 Barron Gorge tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	29/01/2016	0:57	29/01/2016	2:55	1.963	Feeder 7143		1.962778	Third party event	
S2		20160067	Feeder 7209: H016 Rocklea to T142 Tennyson tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	3/03/2016	12:02	3/03/2016	16:23	4.347	Feeder 7209		4.346945	Third party event	
S2		20160099	Feeder 0824: H012 Mount England to H028 Wivenhoe tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	20/05/2016	8:38	20/05/2016	10:00	1.361	Feeder 0824		1.361111	Third party event	
S2		20160116	Feeder 0824: H012 Mount England to H028 Wivenhoe tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	16/07/2016	0:45	16/07/2016	3:59	3.229	Feeder 0824		3.228611	Third party event	
S2		20160131	Feeder 7112: T027 Moura to T031 Baralaba de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	15/09/2016	10:48	15/09/2016	11:23	0.573	Feeder 7112		0.573056	Third party event	

CIRCUIT AVAILABILITY		Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Total hours unavailable	Circuits affected	Reactive plant or transformer	Quantitative impact	Reasons for exclusion request	Further references
S2		20160140	Feeder 0862: H029 Stanwell to H033 Stanwell Power Station tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	6/10/16	13:54:42	6/10/16	14:10:34	0.264	Feeder 0862		0.264444	Third party event	
S2		20160142	Feeder 0823: H012 Mount England to H028 Wivenhoe tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	14/10/16	11:21:03	14/10/16	11:55:31	0.574	Feeder 0823		0.574445	Third party event	
S2		20160143	Feeder 0824: H012 Mount England to H028 Wivenhoe tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	17/10/16	07:10:51	17/10/16	15:04:21	7.892	Feeder 0824		7.891667	Third party event	
S2		20160150	Feeder 7303/2: 7303 Tee to T094 Townsville East tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	27/10/16	12:35:56	27/10/16	12:54:33	0.310	Feeder 7303/2		0.310278	Third party event	
S2		20160150	Feeder 7303/1: T056 Townsville South to 7303 Tee tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	27/10/16	12:35:56	27/10/16	12:54:33	0.310	Feeder 7303/1		0.310278	Third party event	
		20160164	Feeder 8879: H007 Gladstone to H067 Calliope River de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	23/11/16	09:24:22	23/11/16	18:57:21	9.550	Feeder 8879		9.549722	Third party event	
S2									0.000					
S3		20160057	T038 Mackay: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	15/02/2016	10:51	15/02/2016	11:00	0.145		T038 Mackay 1 Transformer	0.145000	Third party event	
S3		20160067	T142 Tennyson: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	3/03/2016	12:02	14/03/2016	8:48	260.764		T142 Tennyson 1 Transformer	260.763889	Third party event	
S3		20160087	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	18/04/2016	5:44	20/04/2016	13:01	55.272		T035 Dysart 1 Transformer	55.271667	Third party event	
S3		20160088	T026 Biloela: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	19/04/2016	12:33	19/04/2016	12:45	0.206		T026 Biloela 2 Transformer	0.205556	Third party event	
S3		20160090	T056 Townsville South: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	28/04/2016	20:58	29/04/2016	0:56	3.974		T056 Townsville South 2 Transformer	3.973889	Third party event	
S3		20160091	T048 Tully: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	1/05/2016	22:12	2/05/2016	4:11	5.981		T048 Tully 1 Transformer	5.980555	Third party event	
S3	Transformer availability	20160128	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	27/08/2016	6:05	27/08/2016	17:45	11.671		T035 Dysart 1 Transformer	11.670834	Third party event	
S3		20160130	T053 Kamerunga: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	9/09/2016	21:40	9/09/2016	23:41	2.015		T053 Kamerunga 1 Transformer	2.014722	Third party event	
S3		20160131	T027 Moura: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	15/09/2016	10:48	15/09/2016	11:23	0.573		T027 Moura 2 Transformer	0.573056	Third party event	

CIRCUIT AVAILABILITY		Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Total hours unavailable	Circuits affected	Reactive plant or transformer	Quantitative impact	Reasons for exclusion request	Further references
S3		20160138	T055 Turkinje: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	1/10/2016	1:49	1/10/2016	3:16	1.463		T055 Turkinje 1 Transformer	1.463333	Third party event	
S3		20160150	T094 Townsville East: 1 Transformer tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	27/10/16	12:35:56	27/10/16	12:54:33	0.310		T094 Townsville East 1 Transformer	0.310278	Third party event	
S3		20160151	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	3/11/16	22:14:10	4/11/16	17:15:39	19.025		T035 Dysart 1 Transformer	19.024722	Third party event	
S3		20160153	T220 Collinsville North: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	6/11/16	00:17:34	6/11/16	03:15:30	2.966		T220 Collinsville North 2 Transformer	2.965555	Third party event	
S3									0.000					
S4	Reactive plant availability								0.000					
S4									0.000					
S4									0.000					
S4									0.000					
S4									0.000					
S4									0.000					
S4									0.000					

Exclusion calculation data		Public holidays 2016		Start	End	No of peak weekdays in
Peak start	Peak finish	1/01/2016	Period 1	1/01/2016	31/12/2016	252
7:00	22:00	26/01/2016				
		25/03/2016				
		26/03/2016				
		28/03/2016				
		25/04/2016				
		2/05/2016				
		3/10/2016				
		25/12/2016				
		26/12/2016				
		27/12/2016				

NOTE:

This worksheet should include a list all events that are proposed for exclusion.

Each proposed exclusion should include a description of the event, a description of the impact and quantification of the impact on the network and performance. The descriptive elements should also include reasons for the exclusion request making reference to the "Exclusion Definitions" worksheet.

Each exclusion should be entered onto one row for each parameter. Where one exclusion event applies to more than one parameter, the relevant details of the event should be entered under each of the measure headings.

The TNSP must provide details for all events requested for exclusion in this template. In the event that the TNSP wishes to provide further details of an exclusion, this should be provided with the TNSP's performance report. The source of information should be referenced in this template.

Powerlink - Proposed exclusions

LOSS OF SUPPLY EVENT FREQUENCY		Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected	Maximum system demand	Demand shed and time	Quantitative impact	Reasons for exclusion request	Further references
Name of any loss of supply parameters		Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date and time of event		End date and time of event		Name of circuits or plant affected	The max system demand that occurred up until the time of the event	The (MW) demand shed and the duration it was shed for.	Impact of exclusion event on LOS Parameter	Full details of the reason/s for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg. 3rd party outage exclusion	A TNSP may provide further details of an exclusion event. TNSP to provide reference.
S5	Loss of supply event frequency (No of events > 0.1 system minutes)													
S5														
S5														
S5														
S5														
S5														
S6	Loss of supply event frequency (No of events > 0.75 system minutes)													
S6														
S6														
S6														
S6														
S6														
S6														

NOTE:

This worksheet should include a list all events that are proposed for exclusion.

Each proposed exclusion should include a description of the event, a description of the impact and quantification of the impact on the network and performance. The descriptive elements should also include reasons for the exclusion request making reference to the "Exclusion Definitions" worksheet.

Each exclusion should be entered onto one row for each parameter. Where one exclusion event applies to more than one parameter, the relevant details of the event should be entered under each of the measure headings.

The TNSP must provide details for all events requested for exclusion in this template. In the event that the TNSP wishes to provide further details of an exclusion, this should be provided with the TNSP's performance report. The source of information should be referenced in this template.

Powerlink - Proposed exclusions

AVERAGE OUTAGE DURATION		Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected		Quantitative impact	Capped impact (if applicable)	Reasons for exclusion request	Further references
Name of any average outage duration parameters		Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date and time of event		End date and time of event		Name of circuits or plant affected		Impact of exclusion event on AOD parameter	Impact of capped exclusion event on AOD parameter	Full details of the reason for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg. 3rd party outage exclusion	A TNSP may provide further details of an exclusion event. TNSP to provide reference.
S7		20160003	Feeder 7206: H039 Woree to Cairns City tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	5/01/2016	10:55:47 AM	5/01/2016	8:15:44 PM	Feeder 7206		559.950		Third party event	
S7		20160022	Feeder 7184: T053 Kamerunga to T054 Barron Gorge tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	29/01/2016	12:57:28 AM	29/01/2016	2:54:54 AM	Feeder 7184					
S7		20160022	Feeder 7143: T053 Kamerunga to T054 Barron Gorge tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	29/01/2016	12:57:28 AM	29/01/2016	2:55:14 AM	Feeder 7143		117.767		Third party event	
S7		20160057	T038 Mackay: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	15/02/2016	10:51:59 AM	15/02/2016	11:00:41 AM		T038 Mackay 1 Transformer	8.700		Third party event	
S7		20160067	Feeder 7209: H016 Rocklea to T142 Tennyson tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	3/03/2016	12:02:44 PM	3/03/2016	4:23:33 PM	Feeder 7209					
S7		20160067	T142 Tennyson: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	3/03/2016	12:02:44 PM	14/03/2016	8:48:34 AM		T142 Tennyson 1 Transformer	15645.833	10080.000	Third party event	
S7		20160087	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	18/04/2016	5:44:54 AM	20/04/2016	1:01:12 PM		T035 Dysart 1 Transformer	3316.300		Third party event	
S7		20160088	T026 Biloela: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	19/04/2016	12:33:03 PM	19/04/2016	12:45:23 PM		T026 Biloela 2 Transformer	12.333		Third party event	
S7		20160090	T056 Townsville South: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	28/04/2016	8:58:14 PM	29/04/2016	12:56:40 AM		T056 Townsville South 2 Transformer	238.433		Third party event	
S7		20160091	T048 Tully: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	1/05/2016	10:12:23 PM	2/05/2016	4:11:13 AM		T048 Tully 1 Transformer	358.833		Third party event	
S7		20160099	Feeder 0824: H012 Mount England to H028 Wivenhoe tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	20/05/2016	8:38:26 AM	20/05/2016	10:00:06 AM	Feeder 0824		81.667		Third party event	
S7		20160116	Feeder 0824: H012 Mount England to H028 Wivenhoe tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	16/07/2016	12:45:42 AM	16/07/2016	3:59:25 AM	Feeder 0824		193.717		Third party event	
S7		20160128	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	27/08/2016	6:05:31 AM	27/08/2016	5:45:46 PM		T035 Dysart 1 Transformer	700.250		Third party event	
S7	Average outage duration	20160130	T053 Kamerunga: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	9/09/2016	9:40:07 PM	9/09/2016	11:41:00 PM		T053 Kamerunga 1 Transformer	120.883		Third party event	

AVERAGE OUTAGE DURATION		Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected		Quantitative impact	Capped impact (if applicable)	Reasons for exclusion request	Further references
S7		20160131	Feeder 7112: T027 Moura to T031 Baralaba de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	15/09/2016	10:48:43 AM	15/09/2016	11:23:06 AM	Feeder 7112					
S7		20160131	T027 Moura: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	15/09/2016	10:48:43 AM	15/09/2016	11:23:06 AM		T027 Moura 2 Transformer	34.383		Third party event	
S7		20160138	T055 Turkinje: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	1/10/2016	1:49:05 AM	1/10/2016	3:16:53 AM		T055 Turkinje 1 Transformer	87.800		Third party event	
S7		20160140	Feeder 0862: H029 Stanwell to H033 Stanwell Power Station tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	6/10/2016	1:54:42 PM	6/10/2016	2:10:34 PM	Feeder 0862		15.867		Third party event	
S7		20160142	Feeder 0823: H012 Mount England to H028 Wivenhoe tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	14/10/2016	11:21:03 AM	14/10/2016	11:55:31 AM	Feeder 0823		34.467		Third party event	
S7		20160143	Feeder 0824: H012 Mount England to H028 Wivenhoe tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	17/10/2016	7:10:51 AM	17/10/2016	3:04:21 PM	Feeder 0824		473.500		Third party event	
S7		20160150	Feeder 7303/2: 7303 Tee to T094 Townsville East tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	27/10/2016	12:35:56 PM	27/10/2016	12:54:33 PM	Feeder 7303/2					
S7		20160150	Feeder 7303/1: T056 Townsville South to 7303 Tee tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	27/10/2016	12:35:56 PM	27/10/2016	12:54:33 PM	Feeder 7303/1					
S7		20160150	T094 Townsville East: 1 Transformer tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	27/10/2016	12:35:56 PM	27/10/2016	12:54:33 PM		T094 Townsville East 1 Transformer	18.617		Third party event	
S7		20160151	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	3/11/2016	10:14:10 PM	4/11/2016	5:15:39 PM		T035 Dysart 1 Transformer	1141.483		Third party event	
S7		20160153	T220 Collinsville North: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution Issue	6/11/2016	12:17:34 AM	6/11/2016	3:15:30 AM		T220 Collinsville North 2 Transformer	177.933		Third party event	
S7		20160164	Feeder 8879: H007 Gladstone to H067 Calliope River de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation Issue	23/11/2016	9:24:22 AM	23/11/2016	6:57:21 PM	Feeder 8879		572.983		Third party event	
S7														

NOTE:

This worksheet should include a list all events that are proposed for exclusion.

Each proposed exclusion should include a description of the event, a description of the impact and quantification of the impact on the network and performance. The descriptive elements should also include reasons for the exclusion request making reference to the "Exclusion Definitions" worksheet.

Each exclusion should be entered onto one row for each parameter. Where one exclusion event applies to more than one parameter, the relevant details of the event should be entered under each of the measure headings.

The TNSP must provide details for all events requested for exclusion in this template. In the event that the TNSP wishes to provide further details of an exclusion, this should be provided with the TNSP's performance report. The source of information should be referenced in this template.

Powerlink - S1 - Peak transmission circuit availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Peak transmission circuit availability	98.10%	98.31%	98.76%	99.20%	99.40%
Weighting	-0.10%	-0.100%	0.00%	0.100%	0.10%

Performance Formulae		Formulae					Conditions					S- Calc 1	S- Calc 2
Performance	=	-0.001000							Availability	<	98.31%	-0.001000	-0.001000
	=	0.222222	x	Availability	+	-0.219467	98.31%	≤	Availability	≤	98.76%	0.000650	0.000682
	=	0.227273	x	Availability	+	-0.224455	98.76%	≤	Availability	≤	99.20%	0.000665	0.000698
	=	0.001000					99.20%	<	Availability			0.001000	0.001000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Peak transmission circuit availability	=	99.052474%	99.066979%
S-Factor	=	0.066471%	0.069768%

NOTE:

This sheet will automatically update based on data in input sheets

Blue cells show the TNSP's performance targets and weightings

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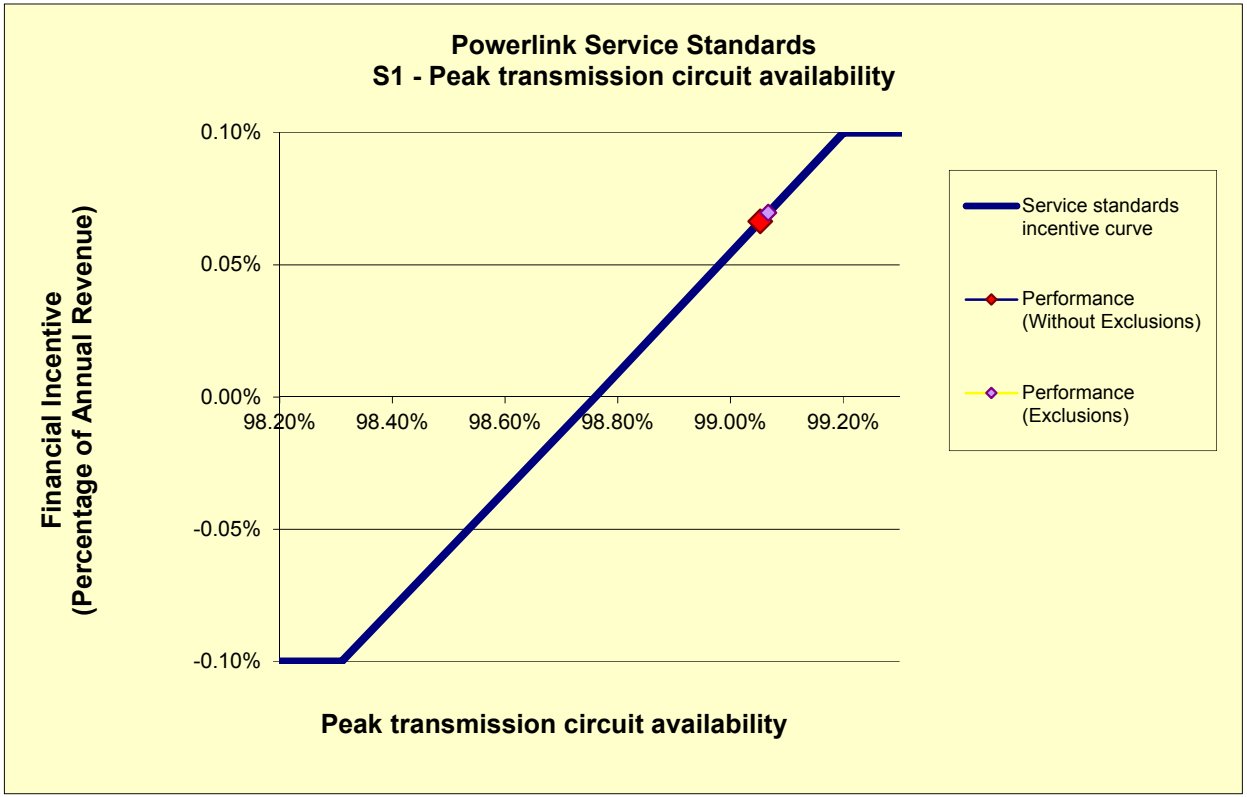
Orange cells show the TNSP's performance outcomes with events excluded from performance data



Powerlink - S2 - Transmission line availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Transmission line availability	97.40%	97.60%	98.76%	99.92%	100.10%
Weighting	-0.10%	-0.10%	0.00%	0.10%	0.10%

Performance Formulae		Formulae					Conditions					S- Calc 1	S- Calc 2
Performance	=	-0.001000					When:		Availability	<	97.60%	-0.001000	-0.001000
	=	0.086207	x	Availability	+	-0.085138	97.60%	≤	Availability	≤	98.76%	-0.000251	-0.000249
	=	0.086207	x	Availability	+	-0.085138	98.76%	≤	Availability	≤	99.92%	-0.000251	-0.000249
	=	0.001000					99.92%	<	Availability			0.001000	0.001000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Transmission line availability	=	98.469283%	98.470896%
S-Factor	=	-0.025062%	-0.024923%

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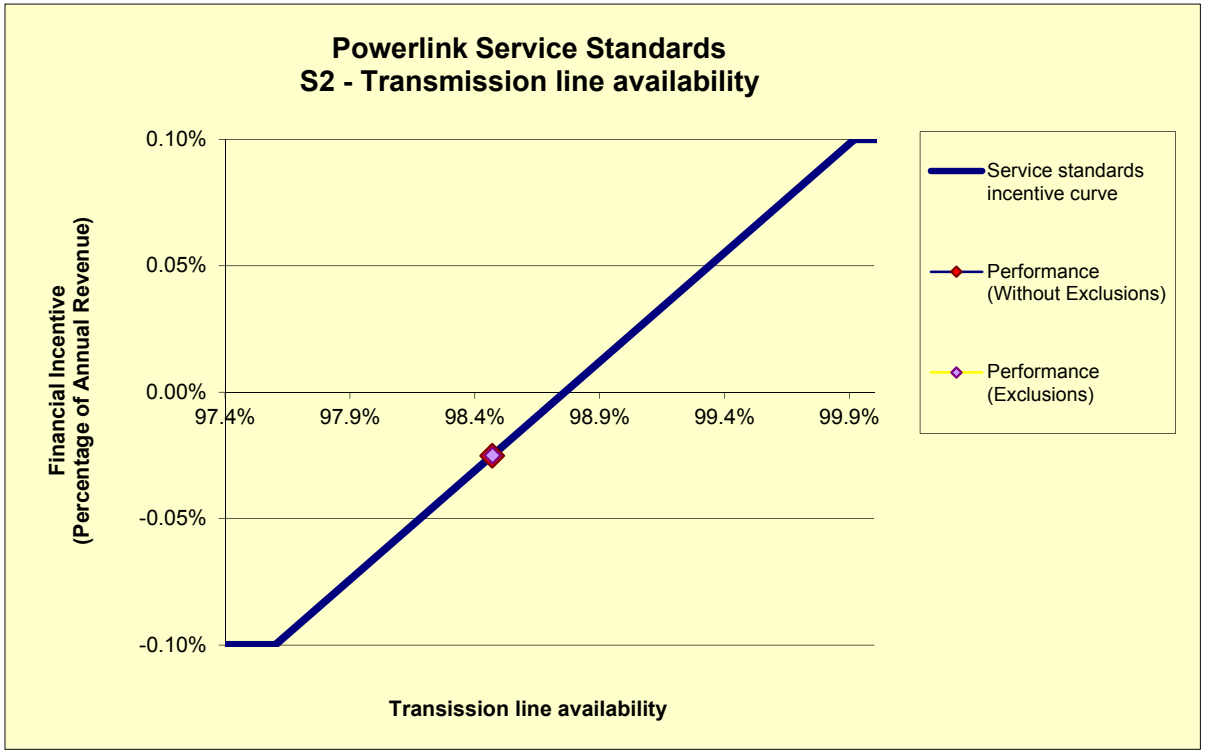

Powerlink - S3 - Transformer availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Transformer availability	98.10%	98.27%	98.76%	99.24%	99.40%
Weighting	-0.10%	-0.10%	0.00%	0.10%	0.10%

Performance Formulae		Formulae					Conditions					S- Calc 1	S- Calc 2
Performance	=	-0.001000					When:		Availability	<	98.27%	-0.001000	-0.001000
	=	0.204082	x	Availability	+	-0.201551	98.27%	≤	Availability	≤	98.76%	0.000307	0.000356
	=	0.208333	x	Availability	+	-0.205750	98.76%	≤	Availability	≤	99.24%	0.000313	0.000363
	=	0.001000					99.24%	<	Availability			0.001000	0.001000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Transformer availability	=	98.910289%	98.934378%
S-Factor	=	0.031310%	0.036329%

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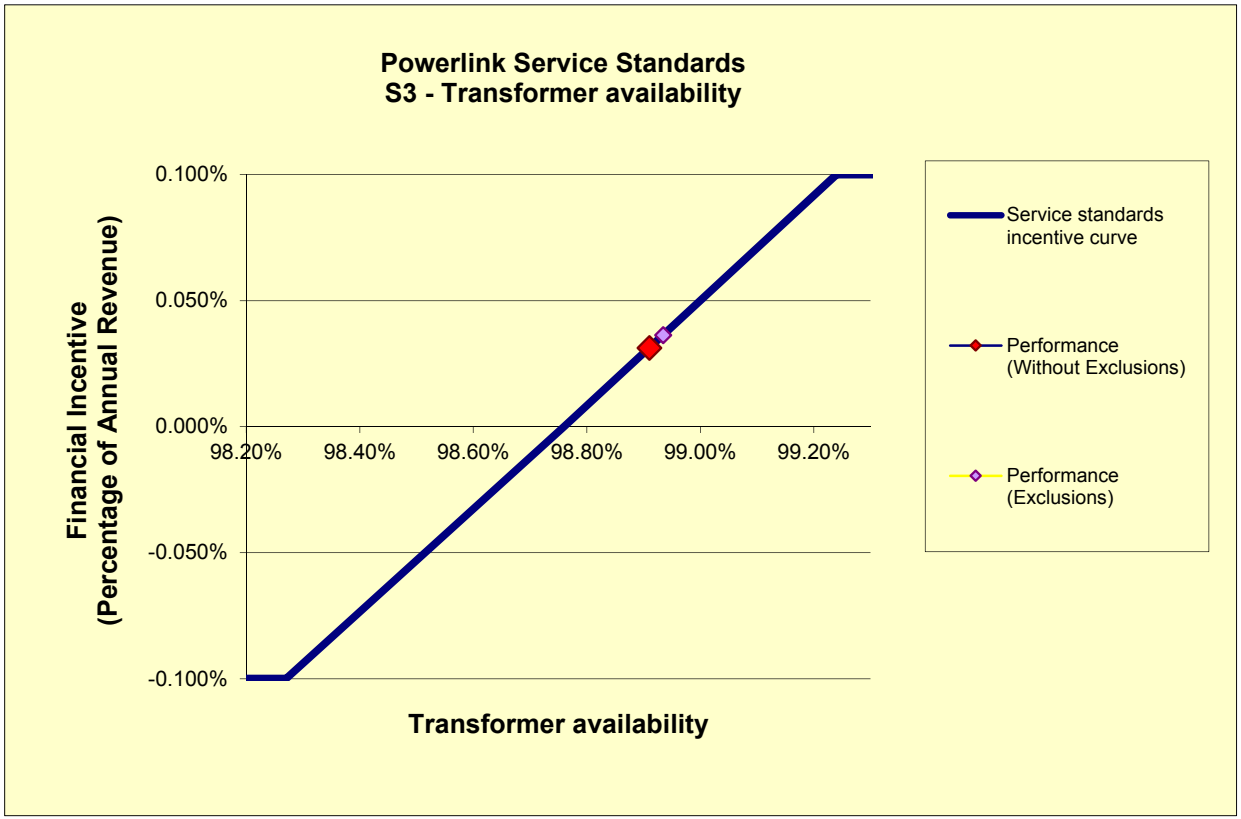

Powerlink - S4 - Reactive plant availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Reactive plant availability	94.30%	94.45%	97.15%	99.84%	100.00%
Weighting	-0.15%	-0.15%	0.00%	0.15%	0.15%

Performance Formulae		Formulae					Conditions					S- Calc 1	S- Calc 2
Performance	=	-0.001500					When:		Availability	<	94.45%	-0.001500	-0.001500
	=	0.055556	x	Availability	+	-0.053972	94.45%	≤	Availability	≤	97.15%	0.000268	0.000268
	=	0.055762	x	Availability	+	-0.054173	97.15%	≤	Availability	≤	99.84%	0.000269	0.000269
	=	0.001500					99.84%	<	Availability			0.001500	0.001500

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Reactive plant availability	=	97.633122%	97.633122%
S-Factor	=	0.026940%	0.026940%

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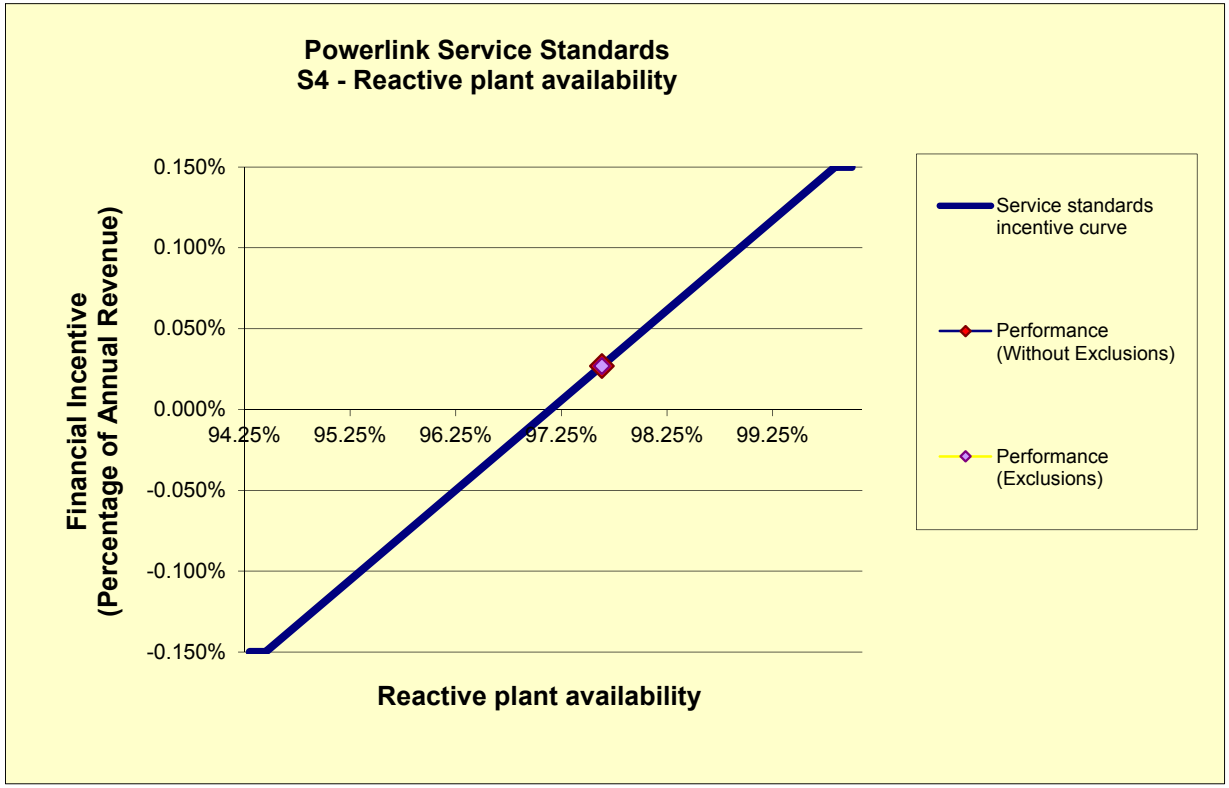

Powerlink - S5 - Loss of supply event frequency (No of events > 0.1 system minutes)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency (No of events > 0.1 system minutes)	8	6	4	2	-
Weighting	-0.15%	-0.150%	0.00%	0.150%	0.15%

Performance Formulae		Formulae					Conditions					S- Calc 1	S- Calc 2
Performance	=	-0.001500					6	<	No. of events			-0.001500	-0.001500
	=	-0.000750	x	No. of events	+	0.003000	4	≤	No. of events	≤	6	0.003000	0.003000
	=	-0.000750	x	No. of events	+	0.003000	2	≤	No. of events	≤	4	0.003000	0.003000
	=	0.001500							No. of events	<	2	0.001500	0.001500

Loss of supply event frequency (No of events > 0.1 system minutes)	=	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency (No of events > 0.1 system minutes)	=	0	0
S-Factor		0.150000%	0.150000%

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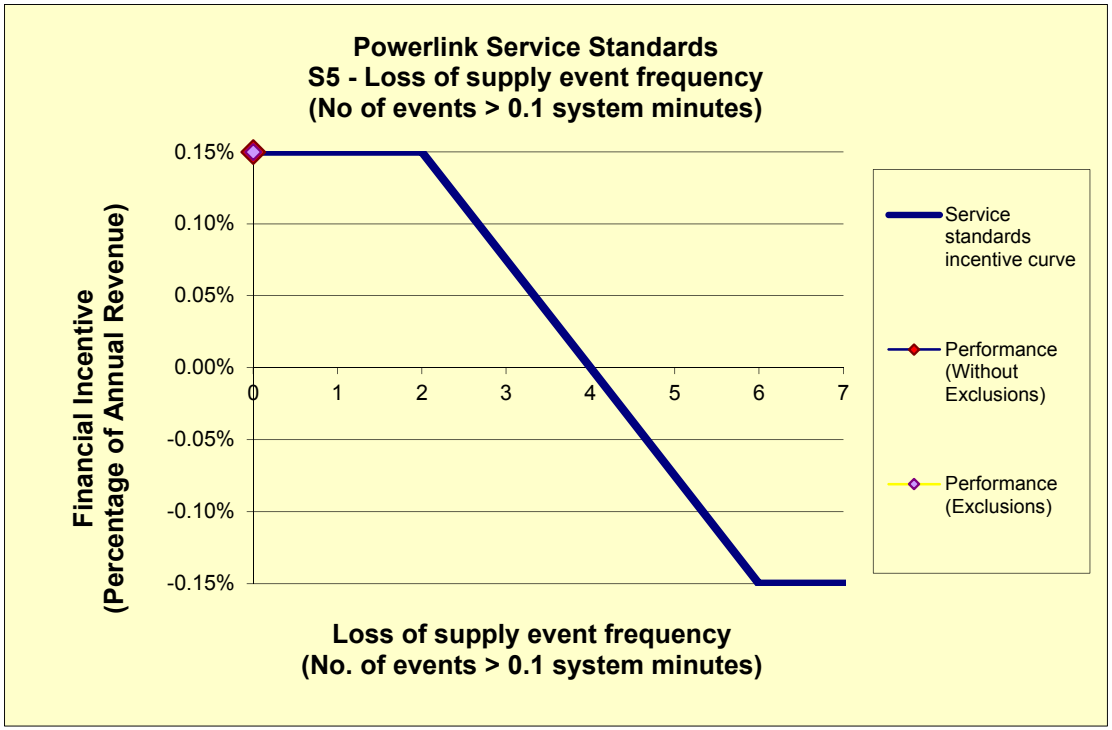

Powerlink - S6 - Loss of supply event frequency (No of events > 0.75 system minutes)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency (No of events > 0.75 system minutes)	4	2	1	0	0
Weighting	-0.30%	-0.300%	0.00%	0.300%	0.30%

Performance Formulae	Formulae						Conditions					S- Calc 1	S- Calc 2
Performance	=	-0.003000					2	<	No. of events			-0.003000	-0.003000
	=	-0.003000	x	No. of events	+	0.003000	1	≤	No. of events	≤	2	0.003000	0.003000
	=	-0.003000	x	No. of events	+	0.003000	0	≤	No. of events	≤	1	0.003000	0.003000
	=	0.003000							No. of events	=	0	0.003000	0.003000

Loss of supply event frequency (No of events > 0.75 system minutes)	=	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency (No of events > 0.75 system minutes)	=	0	0
S-Factor		0.300000%	0.300000%

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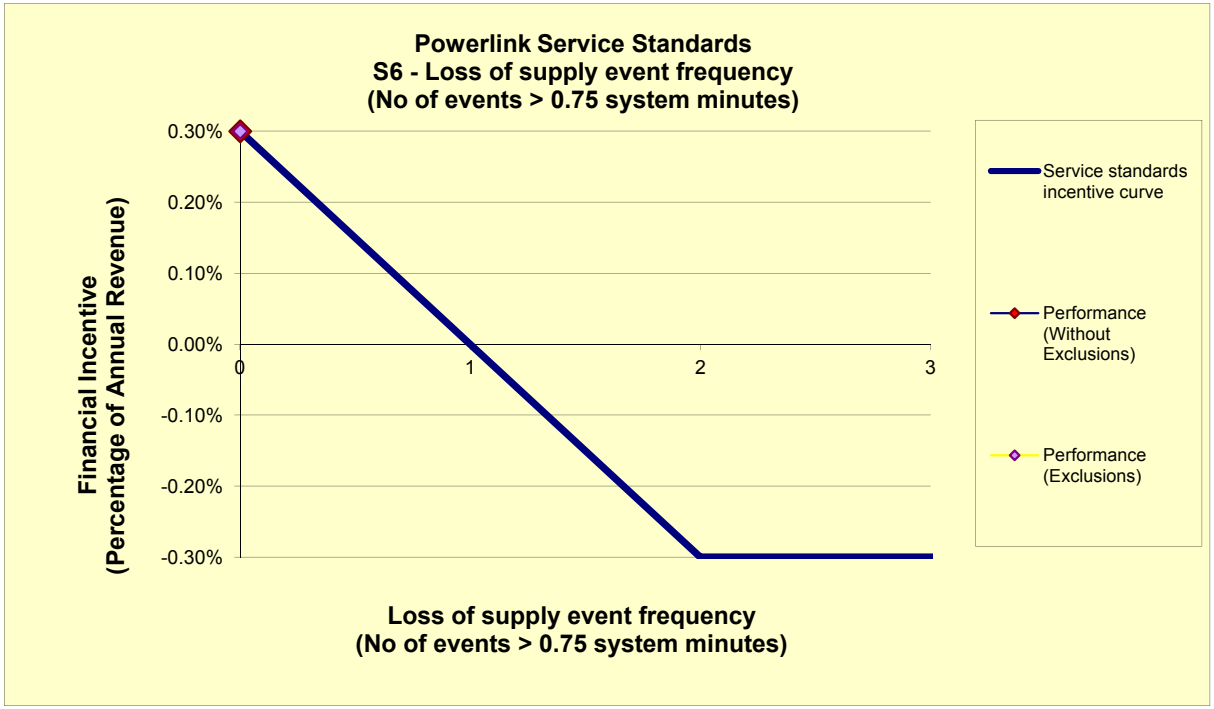

Powerlink - S7 - Average outage duration

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Average outage duration	1,506	1,306	859	412	-
Weighting	-0.10%	-0.100%	0.00%	0.100%	0.10%

Performance Formulae		Formulae					Conditions					S- Calc 1	S- Calc 2
Performance	=	-0.001000					1306	<	Duration			-0.001000	-0.001000
	=	-0.000002	x	Duration	+	0.001922	859	≤	Duration	≤	1,306	-0.000721	-0.000921
	=	-0.000002	x	Duration	+	0.001922	412	≤	Duration	≤	859	-0.000721	-0.000921
	=	0.001000							Duration	<	412	0.001000	0.001000

Average outage duration	=	Performance (Without Exclusions)	Performance (Exclusions)
Average outage duration	=	1181.147849	1270.845601
S-Factor		-0.072069%	-0.092135%

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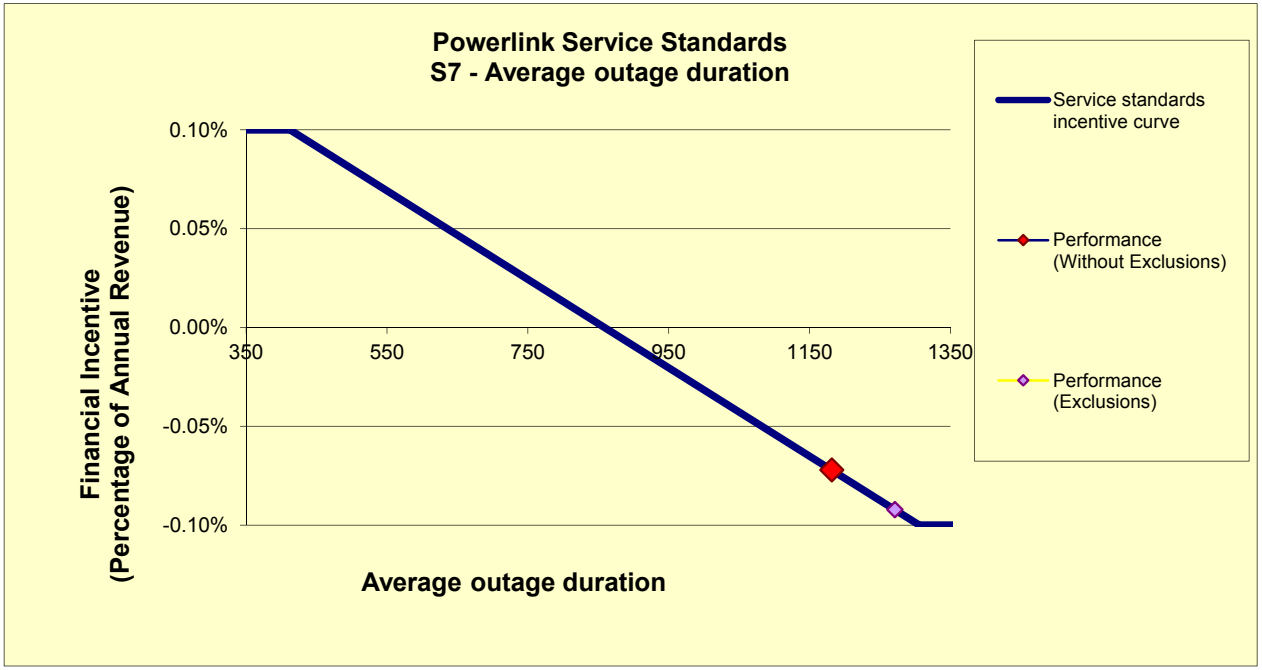

Powerlink - Revenue Calculation

Revenue cap information	
Base year allowed revenue	$835,000,000
Base year	2012-13
X-factor	-3.02%
Commencement of regulatory period	1-Jul-12

Annual revenue adjusted for CPI	Mar-12	Mar-13	Mar-14	Mar-15	Mar-16	Mar-17
CPI	179.5	-	-	-	-	-
CPI	99.9	102.4	105.4	106.8	108.2	-

Nominal annual revenue	2012-13	2013-14	2014-15	2015-16	2016-17
Allowed Revenue	$835,000,000	$881,743,952	$934,985,098	$976,015,864	$1,018,672,144

Calendar year revenue	2H/2012	2013	2014	2015	2016
Revenue	$417,500,000	$858,371,976	$908,364,525	$955,500,481	$997,344,004

NOTE:

This sheet will automatically update based on data on input sheets.

Grey cells show calendar year revenue

Green cells are for formula

Powerlink - Performance outcomes

Revenue calendar year	*$997,344,004*

S	*Performance parameter*	Target	Performance without exclusions			Performance with exclusions			Impact of exclusions
			Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	
S1	Peak transmission circuit availability	98.76%	99.052474%	0.066471%	$662,947	99.066979%	0.069768%	$695,828	0.003297%
S2	Transmission line availability	98.76%	98.469283%	-0.025062%	-$249,952	98.470896%	-0.024923%	-$248,566	0.000139%
S3	Transformer availability	98.76%	98.910289%	0.031310%	$312,270	98.934378%	0.036329%	$362,323	0.005019%
S4	Reactive plant availability	97.15%	97.633122%	0.026940%	$268,683	97.633122%	0.026940%	$268,683	0.000000%
S5	Loss of supply event frequency (No of events > 0.1 system minutes)	4	0	0.150000%	$1,496,016	0	0.150000%	$1,496,016	0.000000%
S6	Loss of supply event frequency (No of events > 0.75 system minutes)	1	0	0.300000%	$2,992,032	0	0.300000%	$2,992,032	0.000000%
S7	Average outage duration	859	1181	-0.072069%	-$718,775	1271	-0.092135%	-$918,908	-0.020067%
	TOTALS			0.477591%	$4,763,222		0.465978%	$4,647,408	-0.011612%

NOTE: This sheet will automatically update based on data in input sheets.

Grey cell shows relevant calendar year revenue

Green cells show performance measure targets

Pink cells show performance, s-factor results and financial incentive without exclusions

Orange cells show performance, s-factor results and financial incentive with exclusions

Blue cells show the impact of exclusions on revenue

Aggregate outcome	
S-factor	0.465978%
Financial Incentive	$4,647,408
Financial year affected by financial incentive	2017/18