DS3 System Services Volume Uncapped Gate 3 Bidders' Information Conference Call

23 June 2020 10:00 – 11:30

Conference call details:

Ireland:	**1800 882365 or 01 2421977**
UK:	**0800 389 1681 or 020 3651 8923**
International:	**+353 1 2421977**
Participant Code:	**66188615#**

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Agenda

Topic	Time	Speaker
Introduction	10:00	Joe Deegan
Procurement Process Overview	10:10	Joe Deegan
Q&A	10:25	Attendees
Tender Pack and Technical Questionnaire	10:35	Joe Deegan
Q&A	10:50	Attendees
Testing and Signalling Requirements	11:00	TBC
Q&A	11:15	Attendees
Closing Comments	11:25	Joe Deegan
Call Ended	11:30	-

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Introduction

- Presentation will provide an overview of DS3 Volume Uncapped Gate 3 procurement.

- Q&A following each agenda item:
  - All queries will be captured and responded to in writing via the Gate 3 clarifications process.

- Queries can be emailed in the clarification template to sinead.connolly@eirgrid.com and tenders@eirgrid.com:
  - Closing date for receipt of queries is **12 noon on 30th June 2020**.

- The presentation slides will be available on eTenders and on the EirGrid and SONI websites.

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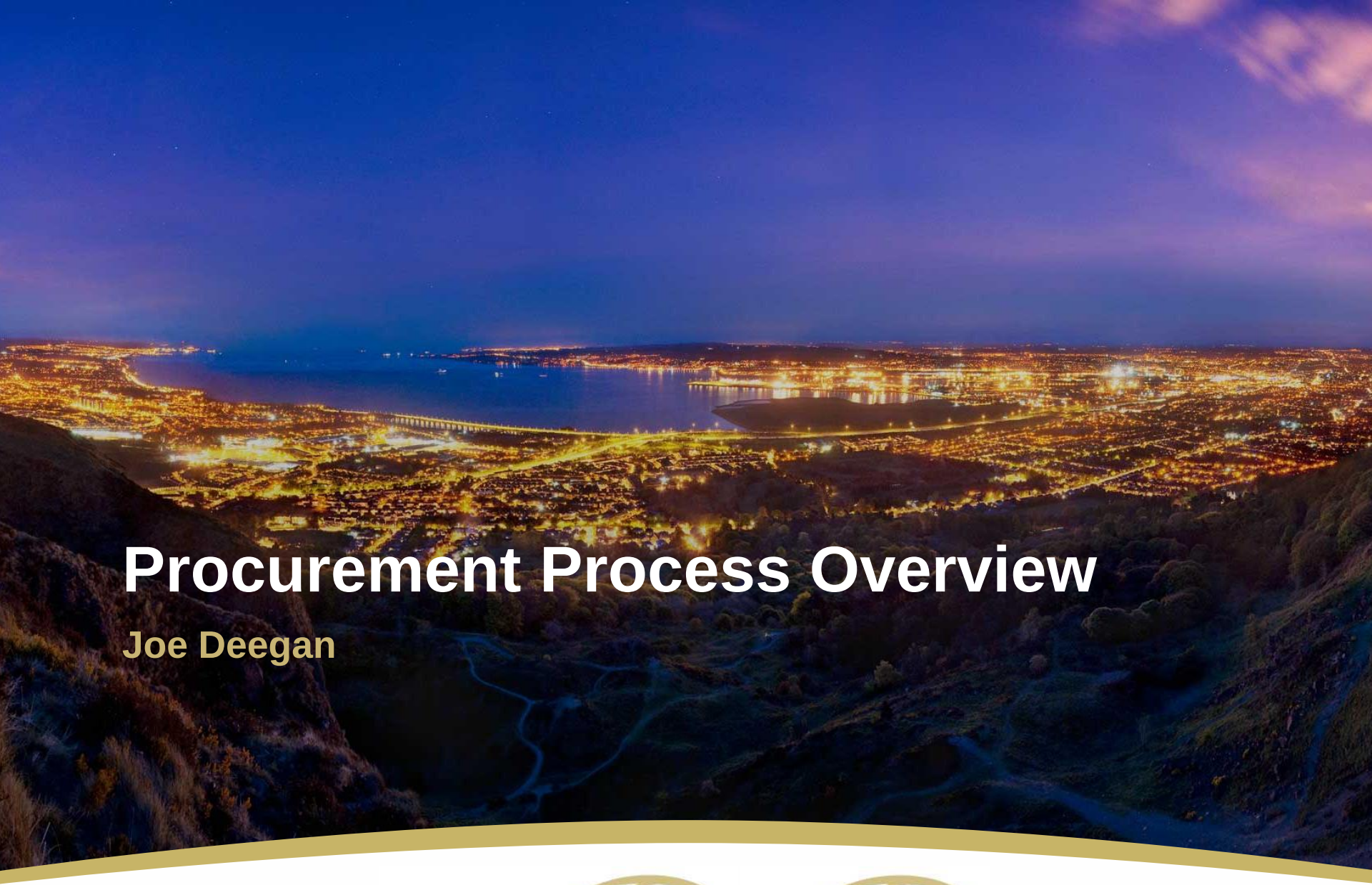

Procurement Process Overview

Joe Deegan

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Qualification System

- **Qualification System** – refers to the system that is in place to enable interested parties to submit a Response and subsequently qualify for award of Contract for provision of DS3 System Services (under Volume Uncapped Arrangements).

- Qualification System will last until April 2023, with the option to extend at the Contracting Entities' discretion and subject to Regulatory Authority approval (2 extensions, 18 months apiece).

- 14 System Services in total are being procured as part of the Qualification System, over 28 lots (14 for EirGrid and 14 for SONI).

- 12 services have been procured to date in accordance with Phase 1 and Phase 2 in 2018, Gate 1 in September 2019, and Gate 2 in April 2020.

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Gate Process

- **Gate Process** – refers to the period subsequent to the initial procurement Phases 1 and 2 whereby Tenderers may apply for a place on the Qualification System at any time.

- New applicants may submit a completed Response for a place on the Qualification System at any time.

- It is intended that specific contracts will be awarded every six months – these periods are referred to as Gate Dates. EirGrid will issue periodic notices on the OJEU / EirGrid websites outlining the requirements and timeframes involved. Indicative dates are contained in the briefing document.

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DS3 System Services Agreement

- This procurement is being run by EirGrid on behalf of both EirGrid and SONI for their respective DS3 System Services Agreement.

- A separate DS3 System Services Agreement is in place for:
  - EirGrid (as contracting entity for the DS3 System Services Agreement applicable to Ireland) and
  - SONI (as contracting entity for the DS3 System Services Agreement applicable to Northern Ireland).

- Existing holders of an agreement will receive an amended Schedule 9; new parties to the Qualification System will receive an agreement dated 1st October 2020.

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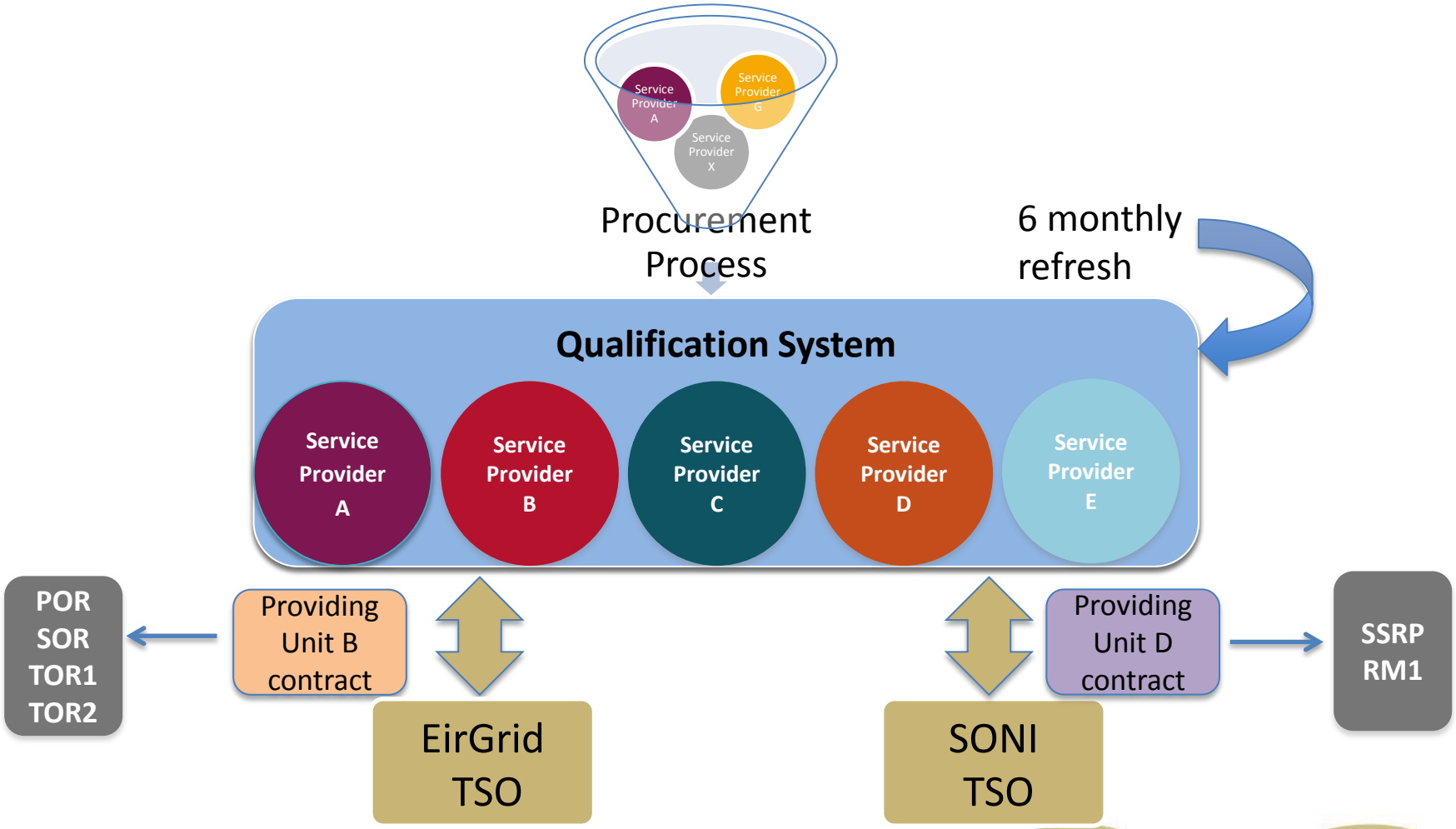
Volume Uncapped Procurement



Gate 3

- OJEU Notice (2020/S 116-282623) published on 16 June 2020
  - ENQEIR722 – DS3 System Services – Volume Uncapped – Gate 3

- Two stages in this procurement process (submitted together):
  - Pre-Qualification; and
  - Tender

- Lots
  - Lots 1-12 IE
  - Lots 1-12 NI

- Documents available on eTenders www.etenders.gov.ie

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Gate 3

- Gate 3 applies to 3 scenarios:
  1) Providing Unit that is not currently contracted for the provision of any System Service and wishes to tender for one, some or all services;
  2) Providing Unit intends to amend its contracted values for a service that it currently provides (this may be enhancing or reducing its capability);
  3) Providing Unit that is contracted for the provision of one or more services and wishes to tender for additional services.

Tenderer will receive a new agreement

Tenderer will receive an amended Schedule 9

- Providing Units that do not wish to amend their existing provision of a particular service must not submit a tender for the respective Lot.

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Gate 3 Lot Numbers – EirGrid

Existing Services			
POR L1IE	Primary Operating Reserve	**SSRP L7IE**	Steady State Reactive Power
SOR L2IE	Secondary Operating Reserve	**SIR L8IE**	Synchronous Inertial Response
TOR1 L3IE	Tertiary 1 Operating Reserve	**RM1 L9IE**	Ramping Margin 1 Hour
TOR2 L4IE	Tertiary 2 Operating Reserve	**RM3 L10IE**	Ramping Margin 3 Hour
RRD L5IE	Replacement Reserve (De-Synchronised)	**RM8 L11IE**	Ramping Margin 8 Hour
RRS L6IE	Replacement Reserve (Synchronised)	**FFR L12IE**	Fast Frequency Response

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Gate 3 Lot Numbers – SONI

Existing Services			
POR L1NI	Primary Operating Reserve	**SSRP L7NI**	Steady State Reactive Power
SOR L2NI	Secondary Operating Reserve	**SIR L8NI**	Synchronous Inertial Response
TOR1 L3NI	Tertiary 1 Operating Reserve	**RM1 L9NI**	Ramping Margin 1 Hour
TOR2 L4NI	Tertiary 2 Operating Reserve	**RM3 L10NI**	Ramping Margin 3 Hour
RRD L5NI	Replacement Reserve (De-Synchronised)	**RM8 L11NI**	Ramping Margin 8 Hour
RRS L6NI	Replacement Reserve (Synchronised)	**FFR L12NI**	Fast Frequency Response

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Providing Unit

- Tenderers must submit a separate standalone tender for each and every Providing Unit.

- Providing Unit:
  - If registered in the SEM, to the extent that is required, Providing Units should apply in accordance with how they are registered in the SEM.
  - If not registered in the SEM, the Providing Unit is the Unit or collection of Units behind a single connection point.
  - In the case of an Aggregator, the Providing Unit is the collection of sites which is controlled by the Aggregator, and the interface with the TSO shall be with the Aggregator.

- Note: A Tenderer may have more than one Providing Unit.

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Tender Response

- Tenders should be split into two constituent parts (submitted at the same time):
  - A pre-qualification section; and
  - A tender section.

- Tenderers' response for each Providing Unit should consist of:
  - Part 2 of the **Qualification System Briefing Document**, including Forms 1, 2 and 3; and
  - A Completed **Technical Questionnaire** sheet for each Lot they are submitting for (must be completed in Excel).

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Tender Evaluation

- All Responses will be evaluated, on a lot by lot basis and Providing Unit by Providing Unit basis.

- As the payment rate (tariff) for each System Service will be fixed, Responses will be assessed under the award criteria based upon quality (technical compliance) only.

- Tender evaluation:
  - against the **Pass / Fail pre-qualification** minimum requirements for the lot concerned; and
  - against the **award criteria for compliance** in line **with the technical requirements** for the lot concerned.

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Qualification Criteria

Selection Criterion	Minimum Requirement	Weighting	Minimum
Exclusionary Criteria Declaration	Exclusionary Criteria Declaration must be completed satisfactorily. See Form 2 of Qualification System Briefing Document.	Pass/Fail	Pass
Financial & Economic Standing	Tenderers must complete the Self-Declaration of Financial and Economic Capacity. See Form 2 of Qualification System Briefing Document.	Pass/Fail	Pass
Health & Safety, Environment and Employment	Tenderers must demonstrate that they comply with the relevant health and safety, environmental and employment legislation. See Form 2 of Qualification System Briefing Document.	Pass/Fail	Pass

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Award Criteria

Award Criterion	Description	Weighting	Minimum
Technical Compliance	Tenderers are required to demonstrate compliance against the requirements set out in the Technical Questionnaire and Scope of Work, for each Lot they are applying for.	Pass/Fail	Pass
Legal	Acceptance of contractual conditions in accordance with Form 3. Tenderers shall complete the Contractual Acceptance Declaration as part of their tender submission. This verifies that Tenderers accept the Terms and Conditions as issued.	Pass/Fail	Pass

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Tender Queries

- **Queries Arising from this Call**
  - We will verbally answer some queries received via Q&A today.
  - Formal response will issue to all Tenderers which may supersede information provided today.
  - We request Candidates to formally submit queries via email.

- **General Queries**
  - Submit by email.
  - In Clarification Template.
  - Not later than **12:00 hrs Irish Time on 30th June 2020.**
  - Addressed to: Sinéad Connolly at sinead.connolly@eirgrid.com and tenders@eirgrid.com
  - EirGrid will respond to all queries by **7th July 2020**.

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Submission of Tenders

- Interested Tenderers must submit a tender response **through the eTenders portal** in respect of the relevant Lot.

- Tender box close time **12 noon**, Irish Time, on **Monday 20th July 2020** – **eTenders will not allow upload after this time**.

- **It is EirGrid policy to open tenders promptly on the closing date.**

- **The Tenderer is fully responsible for the timely delivery of the tender.**

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Tender Timetable

Event	Date
Deadline for Submission of Queries	No later than 12:00 hrs (Irish Time) on **30th June 2020**
EirGrid and SONI to Respond to Queries	By close of business on (Irish Time) on **7th July 2020**
Deadline for Submission of Tenders	No later than 12:00 hrs (Irish Time) on **20th July 2020**
Notification of Successful Tenderers	August 2020 (Indicative)
Standstill Period	14 days from Notification Date
Contract Commencement	**1st October 2020**

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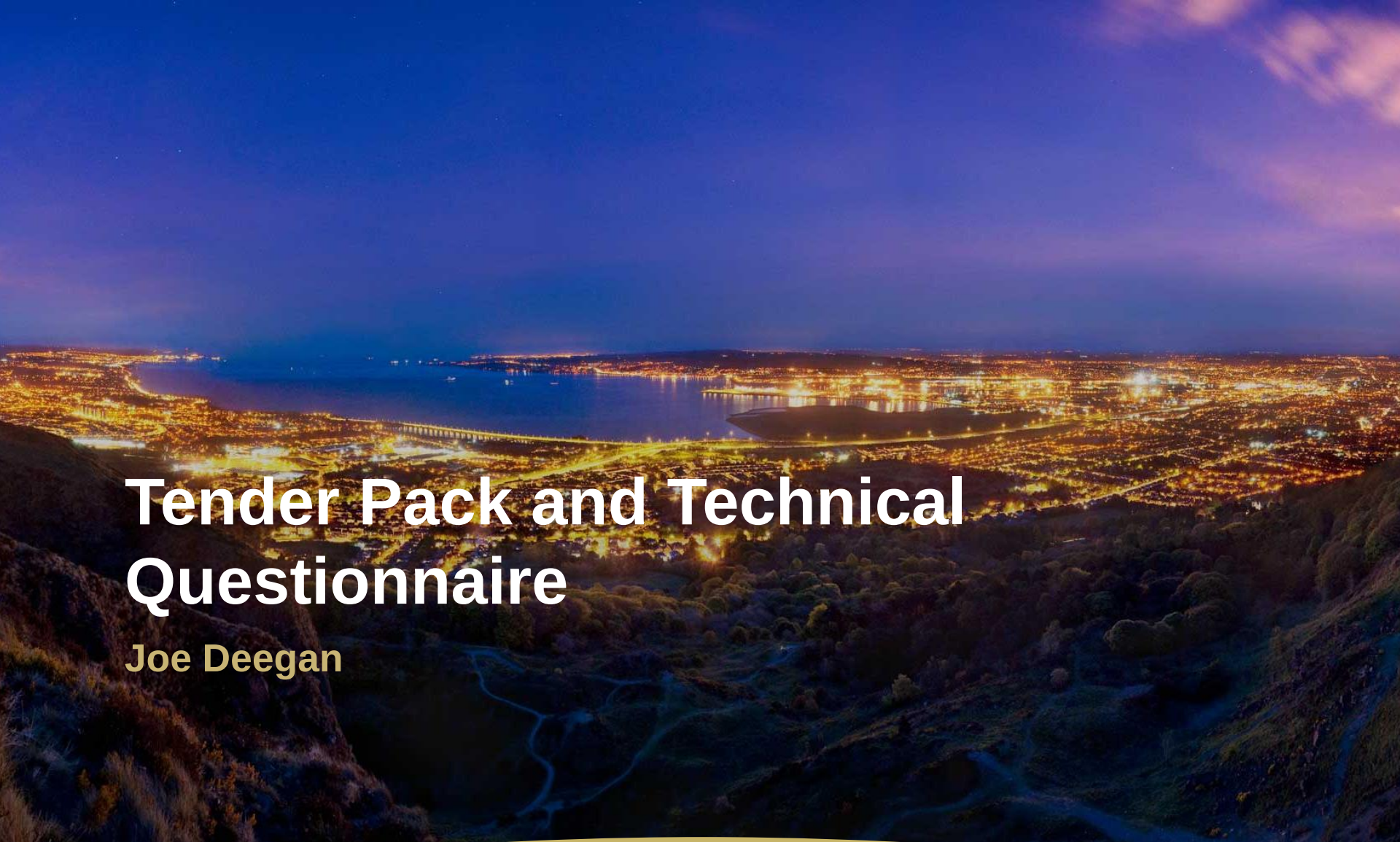
Procurement Process Overview

Q & A

TSOs will provide a verbal response to queries received during the conference call.

All queries will receive a written response following the conference call.



Tender Pack and Technical Questionnaire

Joe Deegan

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Amendments from Gate 2

- Commencement Date of the Agreement (applicable to Scenario 1) is 1st October 2020
- Clause 15.1 of the Agreement is amended to Electronic Signature clause
- Electronic Signature also applies to the Side Letter to the Agreement
- Revised Protocol Document effective 1st October 2020
- Implementation of Lessons Learned from Gate 2
  - New Testing Documentation (Scope and Checklist)
  - DSU Site Switching and Testing

Contractual Arrangements

Scenario 1 – agreement is dated 1st October 2020

Scenario 2 & 3 – amended Schedule 9 via Side Letter

DS3 System Services Agreement

- Standard contractual provisions
- Term
- Schedules for 14 DS3 System Services
- Scaling Factor details
  - Product Scalars
  - Locational Scalar

Clause 15.1 – Changed from Counterparts to Electronic Signature clause

Protocol Document

- Operational Requirements
- Performance Scalar Details
- Performance Monitoring Methods and infrastructure requirements
- Temporal Scarcity Scalar values
- Governance

Version 3 – Effective 1st October 2020

Statement of Payments

- DS3 System Service Payment rates

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Service Maximum Capability Volumes

Briefing Document Section 1.6.4 – maximum capability volumes to apply per service.

Service	Max Volume - Normal Operation	Max Volume - Requested by TSO
FFR	**75 MW**	**100 MW**
POR	**75 MW**	**100 MW**
SOR	**75 MW**	**100 MW**
TOR1	**75 MW**	**100 MW**
TOR2	**75 MW**	**100 MW**
RRD	300 MW	N/A
RRS	300 MW	N/A
RM1	450 MW	N/A
RM3	500 MW	N/A
RM8	500 MW	N/A
SSRP	400 Mvar	N/A
SIR	120,000 MWs^2	N/A

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Technical Questionnaire

- Excel document that is used to determine a unit's technical capability to provide a service

- Technical Questionnaire contains:

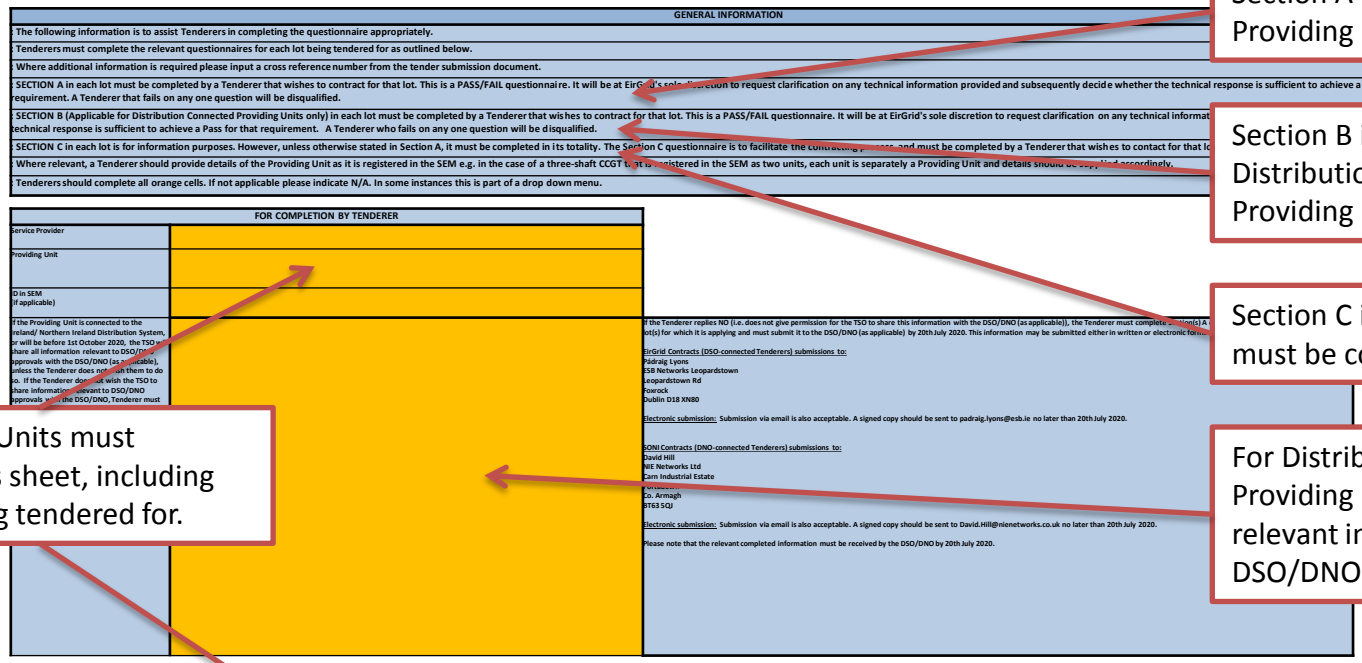
  - General Guidance sheet

  - Reserve Characteristic and PQ Capability sheets

  - System Services Site Info sheet for aggregated Providing Units

  - Individual sheets for each Lot (24 in total)

Technical Q - Guidance Sheet



GENERAL INFORMATION
The following information is to assist Tenderers in completing the questionnaire appropriately.
Tenderers must complete the relevant questionnaires for each lot being tendered for as outlined below.
Where additional information is required please input a cross reference number from the tender submission document.
SECTION A in each lot must be completed by a Tenderer that wishes to contract for that lot. This is a PASS/FAIL questionnaire. It will be at EirGrid's sole discretion to request clarification on any technical information provided and subsequently decide whether the technical response is sufficient to achieve a Pass for that requirement. A Tenderer that fails on any one question will be disqualified.
SECTION B (Applicable for Distribution Connected Providing Units only) in each lot must be completed by a Tenderer that wishes to contract for that lot. This is a PASS/FAIL questionnaire. It will be at EirGrid's sole discretion to request clarification on any technical information provided and subsequently decide whether the technical response is sufficient to achieve a Pass for that requirement. A Tenderer who fails on any one question will be disqualified.
SECTION C in each lot is for information purposes. However, unless otherwise stated in Section A, it must be completed in its totality. The Section C questionnaire is to facilitate the contracting process and must be completed by a Tenderer that wishes to contract for that lot
Where relevant, a Tenderer should provide details of the Providing Unit as it is registered in the SEM e.g. in the case of a three-shaft CCGT that is registered in the SEM as two units, each unit is separately a Providing Unit and details should be completed accordingly.
Tenderers should complete all orange cells. If not applicable please indicate N/A. In some instances this is part of a drop down menu.

FOR COMPLETION BY TENDERER	
Service Provider	
Providing Unit	
ID in SEM (if applicable)	
If the Providing Unit is connected to the Ireland/ Northern Ireland Distribution System, or will be before 1st October 2020, the TSO will share all information relevant to DSO/DNO approvals with the DSO/DNO (as applicable), unless the Tenderer does not wish them to do so. If the Tenderer does not wish the TSO to share information relevant to DSO/DNO approvals with the DSO/DNO, Tenderer must	

If the Tenderer replies NO (i.e. does not give permission for the TSO to share this information with the DSO/DNO (as applicable)), the Tenderer must complete Section(s) A of the lot(s) for which it is applying and must submit it to the DSO/DNO (as applicable) by 20th July 2020. This information may be submitted either in written or electronic format.

EirGrid Contracts (DSO-connected Tenderers) submissions to:
Padraig Lyons
ESB Networks Leopardstown
Leopardstown Rd
Powrock
Dublin D18 XN80

Electronic submission: Submission via email is also acceptable. A signed copy should be sent to padraig.lyons@esb.ie no later than 20th July 2020.

SONI Contracts (DNO-connected Tenderers) submissions to:
David Hill
NIE Networks Ltd
Carn Industrial Estate
Portadown
Co. Armagh
BT63 5QJ

Electronic submission: Submission via email is also acceptable. A signed copy should be sent to David.Hill@nienetworks.co.uk no later than 20th July 2020.

Please note that the relevant completed information must be received by the DSO/DNO by 20th July 2020.

PLEASE COMPLETE THE FOLLOWING GUIDANCE TABLE AS APPROPRIATE: THIS IS TO ASSIST THE TENDERER TO COMPLETE A SUCCESSFUL TENDER AND TO ALLOW THE TSO TO ASSESS THE INFORMATION FOR COMPLIANCE

IRELAND			CONFIRMATION
LOT1(IE)	POR	ARE YOU APPLYING FOR THIS LOT?	
		HAVE YOU COMPLETED THE TECHNICAL QUESTIONNAIRE SHEET?	
		HAVE YOU FILLED IN THE APPROPRIATE RESERVE CHARACTERISTIC INFORMATION (WHERE APPLICABLE)?	
LOT2(IE)	SOR	ARE YOU APPLYING FOR THIS LOT?	
		HAVE YOU COMPLETED THE TECHNICAL QUESTIONNAIRE SHEET?	
		HAVE YOU FILLED IN THE APPROPRIATE RESERVE CHARACTERISTIC INFORMATION (WHERE APPLICABLE)?	
LOT3(IE)	TOR1	ARE YOU APPLYING FOR THIS LOT?	
		HAVE YOU COMPLETED THE TECHNICAL QUESTIONNAIRE SHEET?	
		HAVE YOU FILLED IN THE APPROPRIATE RESERVE CHARACTERISTIC INFORMATION (WHERE APPLICABLE)?	
LOT4(IE)	TOR2	ARE YOU APPLYING FOR THIS LOT?	
		HAVE YOU COMPLETED THE TECHNICAL QUESTIONNAIRE SHEET?	
		HAVE YOU FILLED IN THE APPROPRIATE RESERVE CHARACTERISTIC INFORMATION (WHERE APPLICABLE)?	

NORTHERN IRELAND			CONFIRMATION
LOT1(NI)	POR	ARE YOU APPLYING FOR THIS LOT?	
		HAVE YOU COMPLETED THE TECHNICAL QUESTIONNAIRE SHEET?	
		HAVE YOU FILLED IN THE APPROPRIATE RESERVE CHARACTERISTIC INFORMATION (WHERE APPLICABLE)?	
LOT2(NI)	SOR	ARE YOU APPLYING FOR THIS LOT?	
		HAVE YOU COMPLETED THE TECHNICAL QUESTIONNAIRE SHEET?	
		HAVE YOU FILLED IN THE APPROPRIATE RESERVE CHARACTERISTIC INFORMATION (WHERE APPLICABLE)?	
LOT3(NI)	TOR1	ARE YOU APPLYING FOR THIS LOT?	
		HAVE YOU COMPLETED THE TECHNICAL QUESTIONNAIRE SHEET?	
		HAVE YOU FILLED IN THE APPROPRIATE RESERVE CHARACTERISTIC INFORMATION (WHERE APPLICABLE)?	
LOT4(NI)	TOR2	ARE YOU APPLYING FOR THIS LOT?	
		HAVE YOU COMPLETED THE TECHNICAL QUESTIONNAIRE SHEET?	
		HAVE YOU FILLED IN THE APPROPRIATE RESERVE CHARACTERISTIC INFORMATION (WHERE APPLICABLE)?	

Section A is Pass/Fail for all Providing Units.

Section B is Pass/Fail for Distribution Connected Providing Units.

Section C is for information but must be completed as specified.

All Providing Units must complete this sheet, including the Lots being tendered for.

For Distribution Connected Providing Units, TSO will share relevant information with the DSO/DNO if tenderer permits.

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Technical Q – Reserve Characteristic

INSTRUCTIONS FOR COMPLETING THIS SHEET.

: If the Providing Unit can operate on only one fuel, please complete TABLE 1.
: If the Providing Unit can operate on two fuels, please complete TABLE 1 and TABLE 2.
: If the Providing Unit can operate on three fuels, please complete TABLE 1, TABLE 2 and TABLE 3.
: If the Providing Unit is a CCGT and can operate in Open Cycle Mode, in addition please complete TABLE 4.
: If the Providing Unit is a CCGT and can operate on two fuels in Open Cycle Mode, in addition please complete TABLE 5.
: If the Providing Unit is a WFPS and can provide FFR through emulated inertia please complete TABLE 2.

TABLE 1 - RESERVE CHARACTERISTIC PARAMETERS ON PRIMARY FUEL / FUEL 1

	DS3 System Services Reserve Characteristic parameters					
	FFR	POR	SOR	TOR1	TOR2	RR
RMX						
GMN						
R0						
R1						
R2						
DELTA1						
DELTA2						
DELTA3						
BETA						
PRIMARY FUEL / FUEL 1						

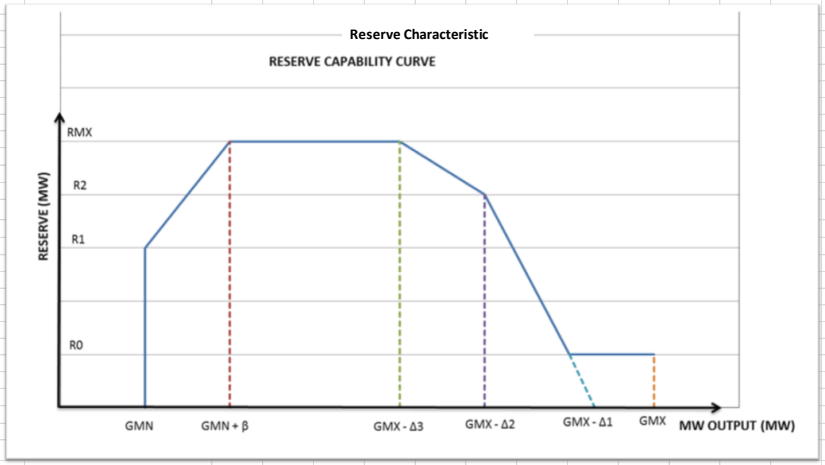
TABLE 2 - RESERVE CHARACTERISTIC PARAMETERS ON SECONDARY FUEL / FUEL 2

	DS3 System Services Reserve Characteristic parameters					
	FFR	POR	SOR	TOR1	TOR2	RR
RMX						
GMN						
R0						
R1						
R2						
DELTA1						
DELTA2						
DELTA3						
BETA						
SECONDARY FUEL / FUEL 2						

TABLE 3 - RESERVE CHARACTERISTIC PARAMETERS ON TERTIARY FUEL / FUEL 3

	DS3 System Services Reserve Characteristic parameters					
	FFR	POR	SOR	TOR1	TOR2	RR
RMX						
GMN						
R0						
R1						
R2						
DELTA1						
DELTA2						
DELTA3						
BETA						
TERTIARY FUEL / FUEL 3						

FOR INFORMATION: RESERVE FUEL GENERATION MODEL



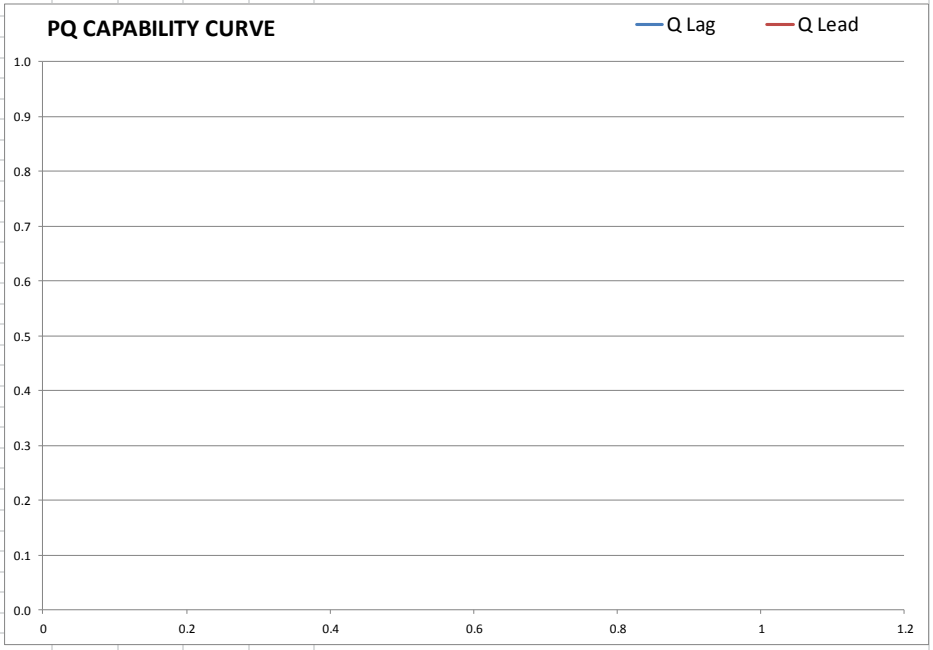
Technical Q – PQ Capability

INSTRUCTIONS FOR COMPLETING THIS SHEET.
: If the Providing Unit is a Generation Unit, but is not a dual-shaft or three-shaft which is part of a CCGT installation, please complete TABLE1
: If the Providing Unit is a dual-shaft or three-shaft which is part of a CCGT installation, please complete TABLE2, TABLE3
: If the Providing Unit is non-synchronous and has a negative Active Power range, please complete TABLE4

Generation Unit, but is not a dual-shaft or three-shaft which is part of a CCGT installation

TABLE 1 - PQ Capability

Registered Capacity			
% RCAP	P	Q Lead	Q Lag
0.00 of RCAP	0.0		
0.05 of RCAP	0.0		
0.10 of RCAP	0.0		
0.12 of RCAP	0.0		
0.15 of RCAP	0.0		
0.20 of RCAP	0.0		
0.25 of RCAP	0.0		
0.30 of RCAP	0.0		
0.35 of RCAP	0.0		
0.40 of RCAP	0.0		
0.45 of RCAP	0.0		
0.50 of RCAP	0.0		
0.55 of RCAP	0.0		
0.60 of RCAP	0.0		
0.65 of RCAP	0.0		
0.70 of RCAP	0.0		
0.75 of RCAP	0.0		
0.80 of RCAP	0.0		
0.85 of RCAP	0.0		
0.90 of RCAP	0.0		
0.95 of RCAP	0.0		
1.00 of RCAP	0.0		



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Sample Lot – Section A

SECTION A.1 - EXISTING CONTRACTED ENTITIES ONLY					
1.1	Has the Providing Unit an existing DS3 System Services Agreement for Regulated Arrangements for POR for a non-zero value and is applying to change the Reserve Characteristic for POR relative to the values specified in its DS3 System Services Agreement or to change from Static to Dynamic service provision or vice versa??			**Tenderer must respond YES and must answer questions 1.2A - 1.4, Section B and all of Section C.** **If the Providing Unit is an Aggregator please provide all associated MPRN meter numbers, and Individual Demand Sites or Generator Sites details, as outlined in the Grid Codes (SONI section PC.A3.4.2 for AGU, SONI section PC.A3.4.3 for DSU, EirGrid section PC.A4.13 for AGU, EirGrid section PC.A7 for DSU) by filling out the System Services Site Info tab. Aggregators must be able to provide all contracted capability by 1 October 2020 and that capability must be reflected on the Providing Unit's Operational Certificate on or before 1 October 2020.** **Where an Individual Demand Site or Generator Site is not currently contracted with the Aggregator, the Providing Unit must provide satisfactory evidence, for example a letter of intent, that such contracts will be in place by 1 October 2020. Where an Individual Demand Site or Generator Site is currently contracted to another Aggregator, in order to complete the transfer of an Individual Demand Site or Generator Site into the Operational Certificate of the tendering Providing Unit effective 1 October 2020, the TSO will require written confirmation from the Individual Demand Site or Generator Site, via the other Aggregator to which it is currently contracted, stating that it consents to the transfer taking place on or before 1 October 2020; where the other Aggregator has advised the TSO that an Individual Demand Site or Generator Site will remain contracted with it beyond 1 October 2020, the TSO will not proceed with the transfer.**	
1.2A	Has the Providing Unit a TSO-approved System Services Test Report demonstrating the Providing Unit's capability to provide the POR service according to the applied for changes (i.e. changed Reserve Characteristic and/or Static/Dynamic classification)? (This question is only pass / fail in combination with 1.2B & 1.2C.) Note: Test Reports must be in the correct System Services Test Report template. System Services Test Report templates are available here: http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-testing/system-services-testing/index.xml			**Tenderer must respond either YES or NO.** **If Tenderer responds YES, Tenderer must provide the TSO-approved System Services Test Report demonstrating the Providing Unit's capability.** **If Tenderer responds NO, Tenderer must respond to questions 1.2B - 1.2C and provide the associated evidence.**	
1.2B	If the answer to question 1.2A above is **NO**, please confirm: Has the Providing Unit conducted testing with the TSO to demonstrate capability to provide the POR service and has not yet had a test report approved by the TSO? OR Has the Providing Unit submitted a Testing Request to the TSO and the TSO has agreed to a date, which must not be after **31 July 2020**, for testing to take place? OR Has the Providing Unit submitted test data (witnessed as required by the TSO), or performance data, to the TSO and the TSO has agreed to evaluate the Providing Unit's capability to provide the POR service based on the data? Note 1: Tenderer must have engaged with the TSO regarding the Providing Unit's testing requirements in advance of tender submission. Note 2: If Tenderer is a DSU, Tenderer must submit a completed DSU application form when requesting a test date, which must include all Individual Demand Sites that are to be tested. Note 3: If Tenderer is a DSU or AGU and is intending to test an Individual Demand Site or Generator Site that is currently contracted to another Aggregator, Tenderer must provide signed correspondence (or e-mail approval) from the Individual Demand Site or Generator Site confirming that the Individual Demand Site or Generator Site will ensure to declare down availability with the other Aggregator during any associated testing period. Note 4: Tenderer must submit a System Services Testing Scope Document within 2 working days of confirmation of a test date. Note 5: Following testing, Tenderer must submit a completed System Services Test Report and Checklist to the TSO within 10 working days of the testing date as per the Testing process. This deadline will be strictly enforced by the TSO. Where the Tenderer has outsourced testing to a third party, it is the Tenderer's responsibility to ensure that testing requirements and Test Report deadlines are met. Test Reports must be in the correct System Services Test Report template. Note 6: The TSO's testing procedures and requirements apply to this procurement process. DS3 System Services Testing Scope Document, Test Report and Checklist templates are available here: http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-testing/system-services-testing/index.xml			**Tenderer must respond YES.** **Tenderer must provide written confirmation from the relevant system operator confirming that:** **Testing has taken place. Tenderer must state the test date.** **OR** **If a Testing Request has been submitted, that the TSO has agreed a date, which must not be after 31 July 2020, for testing to take place. Tenderer must state the test date.** **OR** **If test / performance data has been submitted, that the TSO has agreed to evaluate the Providing Unit's capability to provide the service based on the data.**	
1.2C	If the answer to question 1.2A above is **NO**, do you understand that a System Services Test Report demonstrating the Providing Unit's capability to provide the POR service must be approved by the TSO by **17 August 2020**, unless otherwise agreed with the TSO?			**Tenderer must respond YES.**	

Section A.1 is for Candidates that are applying to amend their existing contracted service values.

Aggregators take note of Q1.1 – specifically relating to individual sites that are not currently contracted with the Providing Unit.

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Aggregator Site Switching

- A service provider managing an aggregated DSU / AGU may submit a tender in respect of a Providing Unit comprising a list of constituent sites where for such sites there is either:
  - an active contract in place between the service provider and the site; or
  - where a site is not currently contracted with the Aggregator, satisfactory evidence, for example a letter of intent, that such contracts will be in place by 1 October 2020.

- Where another aggregator has advised the TSO that an Individual Demand Site or Generator Site will remain contracted with it beyond 1 October 2020, the TSO will not proceed with any transfer to an Ops Cert.

- All necessary testing as specified under the procurement rules must be completed by the deadlines specified within the procurement.

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System Services Site Info

	Site No.	Tenderer should align the Site no. with site numbers listed in the DSU Application form / AGU Application form / DSU Ops Cert / GASOA Schedule	1	2	3	4	5	6	7
1	Is this site providing DS3 System Services?	Yes / No	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List
2	Name of Individual Demand Site		<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>
3	MPRN		<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>
4	Irish Grid Co-ordinates of the Connection Point		<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>
5	Maximum Export Capacity	(MW)	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>
6	Maximum Import Capacity	(MW)	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>
7	Performance Measurement Device Standards for Fast Acting Services installed in agreement with TSO.	Yes / No	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List	Please Select from Drop Down List
8	The Trigger Point that the IDS is expected to start responding at (F Trigger On).	(Hz)	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>
9	The frequency range over which the IDS will go from minimum to maximum declared response (F Trigger Range).	(Min Hz - Max Hz)	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>
10	The frequency at which the IDS will begin to cease responding at (F Trigger Off).	(Hz)	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>
11	Time delay to the F Trigger Off characteristic that the IDS will continue to respond for thereafter (T loiter).	(sec)	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>
12	Minimum time duration following a response before the IDS will become available to respond again (T Min Interval).	(sec)	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>	<Insert Here>

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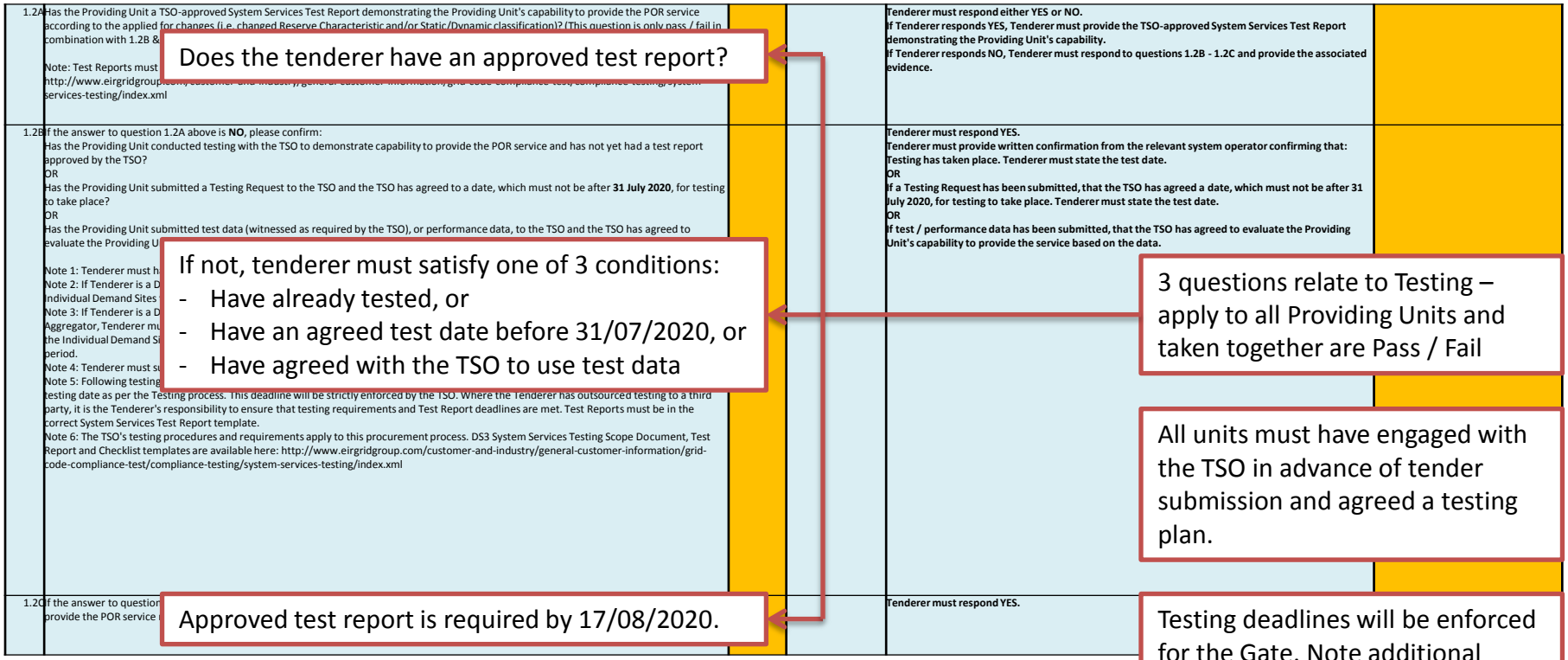
Sample Lot – Section A – Testing



1.2A	Has the Providing Unit a TSO-approved System Services Test Report demonstrating the Providing Unit's capability to provide the POR service according to the applied for changes (i.e. changed Reserve Characteristic and/or Static/Dynamic classification)? (This question is only pass / fail in combination with 1.2B & Note: Test Reports must http://www.eirgridgroup services-testing/index.xml		**Tenderer must respond either YES or NO.** **If Tenderer responds YES, Tenderer must provide the TSO-approved System Services Test Report demonstrating the Providing Unit's capability.** **If Tenderer responds NO, Tenderer must respond to questions 1.2B - 1.2C and provide the associated evidence.**
1.2B	If the answer to question 1.2A above is **NO**, please confirm: Has the Providing Unit conducted testing with the TSO to demonstrate capability to provide the POR service and has not yet had a test report approved by the TSO? OR Has the Providing Unit submitted a Testing Request to the TSO and the TSO has agreed to a date, which must not be after **31 July 2020**, for testing to take place? OR Has the Providing Unit submitted test data (witnessed as required by the TSO), or performance data, to the TSO and the TSO has agreed to evaluate the Providing U Note 1: Tenderer must h Note 2: If Tenderer is a D Individual Demand Sites Note 3: If Tenderer is a D Aggregator, Tenderer mu the Individual Demand Si period. Note 4: Tenderer must su Note 5: Following testing testing date as per the Testing process. This deadline will be strictly enforced by the TSO. Where the Tenderer has outsourced testing to a third party, it is the Tenderer's responsibility to ensure that testing requirements and Test Report deadlines are met. Test Reports must be in the correct System Services Test Report template. Note 6: The TSO's testing procedures and requirements apply to this procurement process. DS3 System Services Testing Scope Document, Test Report and Checklist templates are available here: http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-testing/system-services-testing/index.xml		**Tenderer must respond YES.** **Tenderer must provide written confirmation from the relevant system operator confirming that:** **Testing has taken place. Tenderer must state the test date.** **OR** **If a Testing Request has been submitted, that the TSO has agreed a date, which must not be after 31 July 2020, for testing to take place. Tenderer must state the test date.** **OR** **If test / performance data has been submitted, that the TSO has agreed to evaluate the Providing Unit's capability to provide the service based on the data.**
1.2C	If the answer to question provide the POR service		**Tenderer must respond YES.**

Does the tenderer have an approved test report?

If not, tenderer must satisfy one of 3 conditions:
- Have already tested, or
- Have an agreed test date before 31/07/2020, or
- Have agreed with the TSO to use test data

Approved test report is required by 17/08/2020.

3 questions relate to Testing – apply to all Providing Units and taken together are Pass / Fail

All units must have engaged with the TSO in advance of tender submission and agreed a testing plan.

Testing deadlines will be enforced for the Gate. Note additional documentation requirements for testing.

It is the tenderer's responsibility to ensure that testing activities are conducted within the required timeframes.

We encourage units to test early!

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Sample Lot – Section A – Signals

1.2B	If the answer to question 1.2A above is **NO**, please confirm: Has the Providing Unit conducted testing with the TSO to demonstrate capability to provide the POR service and has not yet had a test report approved by the TSO? OR Has the Providing Unit submitted a Testing Request to the TSO and the TSO has agreed to a date, which must not be after **31 July 2020**, for testing to take place? OR Has the Providing Unit submitted test data (witnessed as required by the TSO), or performance data, to the TSO and the TSO has agreed to evaluate the Providing Unit's capability to provide the POR service based on the data? Note 1: Tenderer must have engaged with the TSO regarding the Providing Unit's testing requirements in advance of tender submission. Note 2: If Tenderer is a DSU, Tenderer must submit a completed DSU application form when requesting a test date, which must include all Individual Demand Sites that are to be tested. Note 3: If Tenderer is a DSU or AGU and is intending to test an Individual Demand Site or Generator Site that is currently contracted to another Aggregator, Tenderer must provide signed correspondence (or e-mail approval) from the Individual Demand Site or Generator Site confirming that the Individual Demand Site or Generator Site will ensure to declare down availability with the other Aggregator during any associated testing period. Note 4: Tenderer must submit a System Services Testing Scope Document within 2 working days of confirmation of a test date. Note 5: Following testing, Tenderer must submit a completed System Services Test Report and Checklist to the TSO within 10 working days of the testing date as per the Testing process. This deadline will be strictly enforced by the TSO. Where the Tenderer has outsourced testing to a third party, it is the Tenderer's responsibility to ensure that testing requirements and Test Report deadlines are met. Test Reports must be in the correct System Services Test Report template. Note 6: The TSO's testing procedures and requirements apply to this procurement process. DS3 System Services Testing Scope Document, Test Report and Checklist templates are available here: http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-testing/system-services-testing/index.xml			**Tenderer must respond YES.** **Tenderer must provide written confirmation from the relevant system operator confirming that:** **Testing has taken place. Tenderer must state the test date.** **OR** **If a Testing Request has been submitted, that the TSO has agreed a date, which must not be after 31 July 2020, for testing to take place. Tenderer must state the test date.** **OR** **If test / performance data has been submitted, that the TSO has agreed to evaluate the Providing Unit's capability to provide the service based on the data.**	
1.2C	If the answer to question 1.2A above is **NO**, do you understand that a System Services Test Report demonstrating the Providing Unit's capability to provide the POR service must be approved by the TSO by **17 August 2020**, unless otherwise agreed with the TSO?			**Tenderer must respond YES.**	
1.3A	Does the Providing Unit comply with the signalling requirements for the provision of the POR service, as applicable to the Providing Unit's technology? Note 1: There are specific signalling requirements for the provision of the POR service from Aggregated Generator Units, Demand Side Units, Energy Storage Providing Units (including batteries), and Wind Farms providing the service through emulated inertia. Note 2: Sign technology, compliance- In addition, Requiremer http://www			**Tenderer must respond either YES or NO.** **If Tenderer responds YES, Tenderer must provide a site-specific Wiring Certificate confirming compliance with the signalling requirements for the POR service.** **If Tenderer responds NO, Tenderer must respond to question 1.3B.**	
1.3B	If the answe must be me			**Tenderer must respond YES.**	

Does the unit comply with the Signalling requirements for the service? Specific Signalling requirements are noted per Lot.

Site specific wiring cert is required by 17/08/2020.

Questions relate to Signalling – apply to Providing Units depending on the technology and the service being tendered for.

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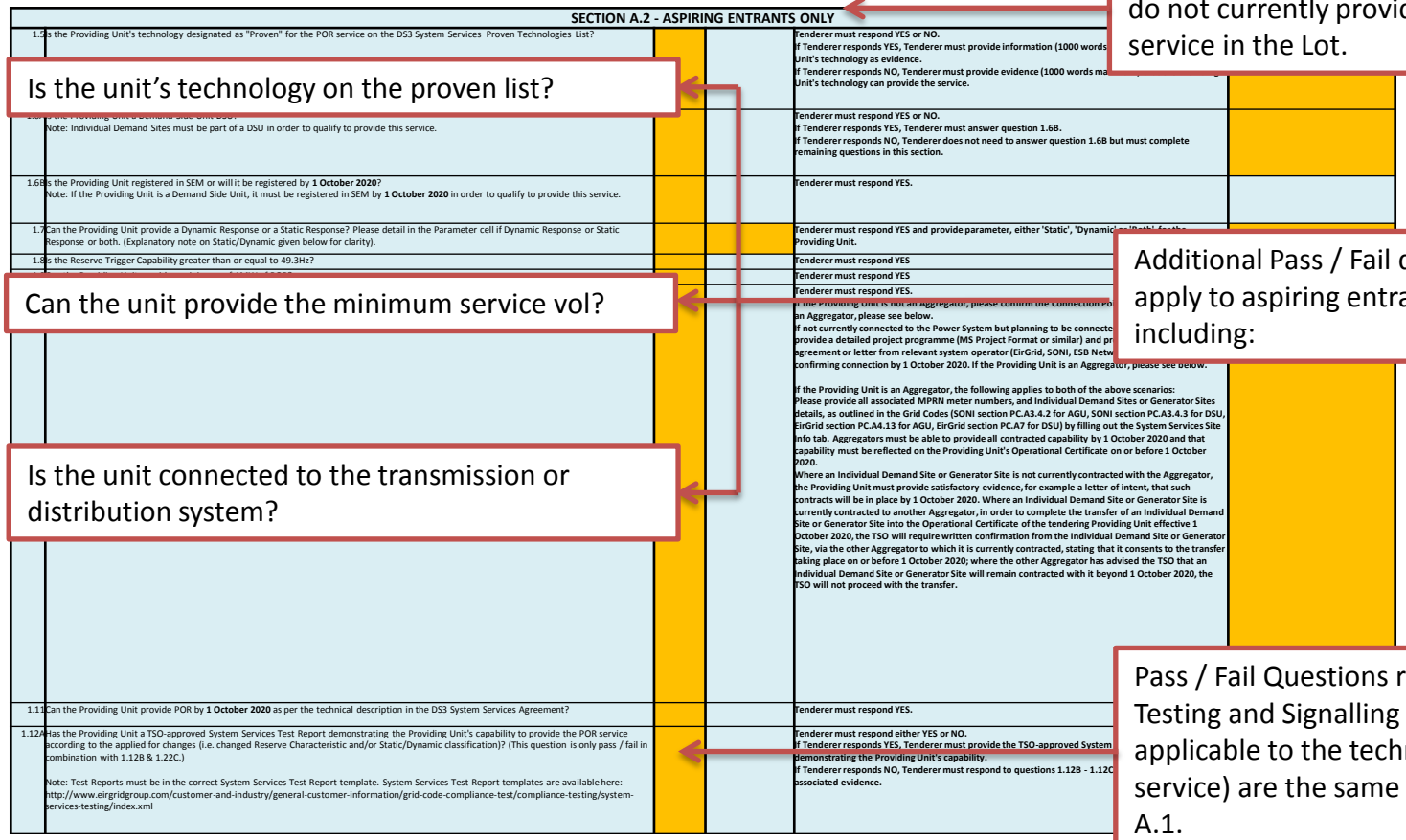
Sample Lot – Section A



SECTION A.2 - ASPIRING ENTRANTS ONLY			
1.5	Is the Providing Unit's technology designated as "Proven" for the POR service on the DS3 System Services Proven Technologies List?		Tenderer must respond YES or NO. If Tenderer responds YES, Tenderer must provide information (1000 words Unit's technology as evidence. If Tenderer responds NO, Tenderer must provide evidence (1000 words ma Unit's technology can provide the service.
	Note: Individual Demand Sites must be part of a DSU in order to qualify to provide this service.		Tenderer must respond YES or NO. If Tenderer responds YES, Tenderer must answer question 1.6B. If Tenderer responds NO, Tenderer does not need to answer question 1.6B but must complete remaining questions in this section.
1.6B	Is the Providing Unit registered in SEM or will it be registered by **1 October 2020**? Note: If the Providing Unit is a Demand Side Unit, it must be registered in SEM by **1 October 2020** in order to qualify to provide this service.		Tenderer must respond YES.
1.7	Can the Providing Unit provide a Dynamic Response or a Static Response? Please detail in the Parameter cell if Dynamic Response or Static Response or both. (Explanatory note on Static/Dynamic given below for clarity).		Tenderer must respond YES and provide parameter, either 'Static', 'Dynamic Providing Unit.
1.8	Is the Reserve Trigger Capability greater than or equal to 49.3Hz?		Tenderer must respond YES
			Tenderer must respond YES
			Tenderer must respond YES. If the Providing Unit is not an Aggregator, please confirm the connection Po an Aggregator, please see below. If not currently connected to the Power System but planning to be connecte provide a detailed project programme (MS Project Format or similar) and pr agreement or letter from relevant system operator (EirGrid, SONI, ESB Netw confirming connection by 1 October 2020. If the Providing Unit is an Aggregator, please see below. If the Providing Unit is an Aggregator, the following applies to both of the above scenarios: Please provide all associated MPRN meter numbers, and Individual Demand Sites or Generator Sites details, as outlined in the Grid Codes (SONI section PC.A3.4.2 for AGU, SONI section PC.A3.4.3 for DSU, EirGrid section PC.A4.13 for AGU, EirGrid section PC.A7 for DSU) by filling out the System Services Site Info tab. Aggregators must be able to provide all contracted capability by 1 October 2020 and that capability must be reflected on the Providing Unit's Operational Certificate on or before 1 October 2020. Where an Individual Demand Site or Generator Site is not currently contracted with the Aggregator, the Providing Unit must provide satisfactory evidence, for example a letter of intent, that such contracts will be in place by 1 October 2020. Where an Individual Demand Site or Generator Site is currently contracted to another Aggregator, in order to complete the transfer of an Individual Demand Site or Generator Site into the Operational Certificate of the tendering Providing Unit effective 1 October 2020, the TSO will require written confirmation from the Individual Demand Site or Generator Site, via the other Aggregator to which it is currently contracted, stating that it consents to the transfer taking place on or before 1 October 2020; where the other Aggregator has advised the TSO that an individual Demand Site or Generator Site will remain contracted with it beyond 1 October 2020, the TSO will not proceed with the transfer.
1.11	Can the Providing Unit provide POR by **1 October 2020** as per the technical description in the DS3 System Services Agreement?		Tenderer must respond YES.
1.12A	Has the Providing Unit a TSO-approved System Services Test Report demonstrating the Providing Unit's capability to provide the POR service according to the applied for changes (i.e. changed Reserve Characteristic and/or Static/Dynamic classification)? (This question is only pass / fail in combination with 1.12B & 1.22C.) Note: Test Reports must be in the correct System Services Test Report template. System Services Test Report templates are available here: http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-testing/system-services-testing/index.xml		Tenderer must respond either YES or NO. If Tenderer responds YES, Tenderer must provide the TSO-approved System demonstrating the Providing Unit's capability. If Tenderer responds NO, Tenderer must respond to questions 1.12B - 1.12C associated evidence.

Section A.2 is for Tenderers that do not currently provide the service in the Lot.

Is the unit's technology on the proven list?

Can the unit provide the minimum service vol?

Is the unit connected to the transmission or distribution system?

Additional Pass / Fail questions apply to aspiring entrants, including:

Pass / Fail Questions relating to Testing and Signalling (where applicable to the technology and service) are the same as Section A.1.

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Sample Lot – Section B

Section B is for Distribution-Connected Candidates only.

PRIMARY OPERATING RESERVE (POR) SECTION B - PASS/FAIL TECHNICAL QUESTIONNAIRE FOR DISTRIBUTION CONNECTED PROVIDING UNITS ONLY					
Q No.	Description	Response		Minimum Evidence Required to demonstrate compliance	Please provide document name, location and cross reference number in submission for explanation where required (e.g. pg.4 POR Testing Report)
1.15	If the Providing Unit is connected to the Ireland/ Northern Ireland Distribution System or will be before **1 October 2020**, do you understand that formal notification must be provided from the relevant DSO/DNO confirming consent for the service to be provided by **21 August 2020**?			**Tenderer must respond YES.** **Formal notification from the relevant DSO/DNO confirming consent for the Providing Unit to provide the service must be provided by 21 August 2020.**	

Sample Lot – Section C

Section C is for information purposes but must be completed as specified.

Tenderers must specify the total contracted volume that is being applied for.

FAST FREQUENCY RESPONSE (FFR) SECTION C - TECHNICAL (FOR INFORMATION PURPOSES ONLY) QUESTIONNAIRE					
Q No.	Description	Response	Parameter (All orange fields must be completed, if not applicable please indicate N/A.	Notes	location and cross reference number in submission for explanation where required (e.g. pg.4 FFR Testing Report)
	Operating Reserve Questions Relating to FFR (DYNAMIC RESPONSE)				
2	If the Providing Unit can provide a Dynamic Response please confirm and complete questions 2.1 - 2.8.				
2.1	Is the Providing Unit automatically able to track changes in frequency dynamically and respond in a continuously controlled manner proportional to the system frequency?				
2.2A	Does the Providing Unit provide a response in discrete steps? Note: To be considered as dynamic provision of FFR, for each step as the frequency recovers the withdrawal of the provision of the service must be identical in both MW volume and response time to that provided at the corresponding Reserve Step Trigger when providing the service. Otherwise, the provision of the FFR service is deemed as Static.			**Tenderer must respond YES or NO** **If Tenderer responds YES, Tenderer must complete Questions 2.2b - 2.**	
2.2B	In how many discrete steps can the Providing Unit provide a response? Note: For dynamic capability when providing FFR, a Providing Unit must be able to respond with a minimum of 10 discrete steps.				
2.2C	What is the maximum individual discrete step size with which the Providing Unit provides an FFR response? Note: The maximum individual discrete step size cannot exceed 5 MW for a dynamic response.				
2.2D	Does the Providing Unit provide an FFR response in a monotonically increasing manner? (Definition of 'monotonically increasing manner' given below.)				
2.2E	Can the Providing Unit provide each discrete step of response within the maximum allowable tolerance? Note: All discrete steps should be of equal magnitude, but a maximum allowable tolerance of 1MW of the average step size will apply, where the average step size is the FFR available volume divided by the number of discrete steps in the response. For example, for a Providing Unit that can provide 20 MW of FFR with 10 discrete steps, the average step size will be 2 MW; therefore, the smallest discrete step that the Providing Unit may provide is 1 MW, and the largest discrete step that the unit may provide is 3 MW.				
2.3	What is FFR Response Time of the Providing Unit, measured in seconds? (Definition of FFR Response Time given below.)				
2.4	What is the Reserve Trigger Capability of the Providing Unit? (Definition of Reserve Trigger Capability given below.)				
2.5	Is the Reserve Trigger adjustable? (Definition of Reserve Trigger given below.)				
2.6	If the Reserve Trigger is adjustable what is the adjustable range? Note: The lower limit of the range cannot be lower than 49.8 Hz and the upper limit of the range cannot be above 49.985 Hz.				
2.7	What is the FFR Trajectory Capability of the Providing Unit, measured in Hz? (Definition of FFR Trajectory Capability given below). Note 1: For a Providing Unit to be eligible to be contracted as a dynamic provider of FFR, the unit must be able to operate with a minimum trajectory capability of 2 Hz in response to a Reserve Trigger. For Providing Units that provide a response in discrete steps, the unit's final discrete step must occur at or above 49.3 Hz. Note 2: For this gate, the Providing Unit's FFR Trajectory Capability is determined as part of the testing process.				
2.8	What is the adjustable range of the FFR Trajectory Capability of the Providing Unit, measured in Hz?				
2.9	Is the Providing Unit capable of operating following a frequency event without recovering its resource until the system frequency has recovered and been sustained at an acceptable level? The exact timeframes for resource recovery and acceptable level of frequency restoration shall be agreed by the TSOs. For example, a battery that wishes to re-charge following a frequency event may be instructed to wait for a period of time after the frequency has recovered above an acceptable level e.g. 49.8 Hz before re-charging. Note: This is a question to determine the capability of a Providing Unit. System and market operations may determine the timeframe for a Providing Unit to recover its resource following a frequency event.				

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Tender Pack and Technical Questionnaire

Q & A

TSOs will provide a verbal response to select queries received during the conference call.

All queries will receive a written response following the conference call.

Testing and Signalling

TBC

EIRGRID GROUP

DS3 System Services Compliance Webpage

- EirGrid website has a DS3 System Services compliance webpage at **http://www.eirgridgroup.com/customer-and-industry/general-customer-information/grid-code-compliance-test/compliance-testing/system-services-testing/index.xml**
- System Services test reports and procedures per technology type
- System Services signalling requirements / lists per technology type
- System Services reserve curve tool
- Any questions on testing / signals can be directed to the relevant testing team:
  - Generator_Testing@EirGrid.com
  - Generator_Testing@SONI.ltd.uk
  - DSU@eirgrid.com *(for DSU related queries)*

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Tender Testing Requirements

- Tenderers **must** engage with our testing teams prior to tender submission

- Tender submissions **must** be accompanied by:

  - Approved recent DS3 System Services Test Report

    Or

  - Evidence of recent testing, where a Test Report has not yet been approved

    Or

  - Confirmed Testing Date

    Or

  - Confirmation from TSOs that alternate test data can be used for the purpose of demonstrating capability

Testing Dates

- **Early engagement** please.
- Please contact us **now** to book testing slots if you intend to tender for services.
- Testing Dates (subject to availability)
  - First date: Now
  - Last date: **Friday 31st July 2020**
- Testing deadlines will be enforced e.g. 10 working days to submit a report post test (note – TSOs may return reports that are incomplete)
- **Monday 17th August 2020** is the deadline for an approved test report.

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New Testing Documentation

- Scope – Document to be submitted 2 BD following confirmation of test date outlining the services the unit wishes to contract for including a detailed plan and timeline of how they will achieve these goals.

- Checklist – A checklist is to be completed with each report to ensure all required aspects of a complete report are met. This is to help mitigate delays at the report reviewing stage.

- Templates for the documents will be available on the EirGrid website in the coming days.

- Those with test dates already booked in will be asked to complete the scope document once it is published.

Testing of DSUs

- **Early engagement** please

- When requesting a Testing Date:
  - DSUs must submit a DSU application at the same time
  - This is required in order for the TSOs to understand the scope of the unit's testing requirements and to resource accordingly

- Individual Demand Site switching:
  - Please ensure that applications are supported by satisfactory evidence, for example a letter of intent, that contracts with the site will be in place by 1 October 2020, as well as consent from the sites to be tested
  - The Providing Unit must provide signed correspondence (or e-mail approval) from the site confirming that it will ensure to declare down availability with another Aggregator during any associated testing period

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Reserve Testing Standards

- No change to the testing standards from Gate 2

- For reserve services, the following standards apply:
  - Conventional units – a frequency injection of 200 mHz to 500 mHz
  - Wind farms – a frequency injection of 200 mHz
  - Aggregators – based on the unit's reserve trigger(s)
  - Interconnectors – based on the unit's reserve trigger(s)
  - Batteries – based on the unit's reserve trigger(s)

- TOR2 assessment:
  - TOR2 may be assessed from a frequency injection
  - TOR2 may be assessed based on approved TOD

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Signalling Requirements

- Certain DS3 System Services have specific signalling requirements:
  - Dependent on the Providing Unit's technology
  - Noted in the relevant Lot of the Technical Questionnaire
  - Published on the DS3 System Services Compliance webpage
  - Refer to 'DS3 System Services New Signaling Requirements for the Regulated Arrangements' document dated November 2019 (in tender pack)

- Signalling requirements obligations must be met by **Monday 17th August 2020**:
  - Providing Unit must request a site-specific Signal List
  - TSO issues site-specific signal list (based on TSO templates & site-specific info)
  - Providing Unit must make the signals available to the TSO (at interface)
  - Providing Unit must complete, sign and submit the site-specific Wiring Certificate

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Testing and Signalling

Q & A

TSOs will provide a verbal response to select queries received during the conference call.

All queries will receive a written response following the conference call.

Information Call – Concluded

Queries on Volume Uncapped Gate 3:

- **Send no later than 12:00 hrs Irish Time on 30th June 2020.**
- **To: sinead.connolly@eirgrid.com and tenders@eirgrid.com**

EirGrid will respond to all queries by 7th July 2020.

Information slide deck will be published shortly.

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