

Draft 1.0: 11 September 2019

**SUPPLEMENTAL AGREEMENT AND SHARED SITE AGREEMENT TEMPLATE DOCUMENT
(OFFTAKE ARRANGEMENTS DOCUMENT, SECTION N1.2.1)**

Version	Date	Recorded Changes

Introduction

This is the Supplemental Agreement and Shared Site Agreement Template Document referred to in the Offtake Arrangements Document (**OAD**) Section N1.2.1(g).

The Supplemental Agreement and Shared Site Agreement Template Document is an Offtake Subsidiary Document and accordingly is subject to the further provisions of OAD Section N1.2.

Contents

The Supplemental Agreement and Shared Site Agreement Template Document contains the following template documents:

Reference	Template Document	Notes
Part 1	Supplemental Agreement - NTS/LDZ Offtake (Bilateral)	Single Offtake at Offtake Site
Part 2	Supplemental Agreement - NTS/LDZ Offtake (Tripartite)	Two Offtakes and Offtake Site and single Site Services Party in respect of both Offtakes
Part 3	Supplemental Agreement - LDZ/LDZ Offtake	-
Part 4	Shared Site Agreement	Shared Site at which there is no Offtake

PART 1
NTS/LDZ OFFTAKE - SUPPLEMENTAL AGREEMENT (BILATERAL)

THIS SUPPLEMENTAL AGREEMENT is made on [] between:

- (1) **National Grid Gas plc**, a company incorporated in England and Wales with company registration number [] and whose registered office is at [] ("**National Grid NTS**"); and
- (2) [], a company incorporated in [England and Wales] with company registration number [] and whose registered office is at [] (the "**DNO**").

WHEREAS:

- (A) National Grid NTS is the operator of the National Transmission System.
- (B) The DNO is the operator of the Local Distribution Zone known as [].
- (C) The Local Distribution Zone is or is to be connected to the National Transmission System at an Offtake known as [] and located at [].
- (D) National Grid NTS and the DNO are Parties to the Offtake Arrangements Document.
- (E) The parties are entering into this Agreement for the purposes of recording certain details relating to the Offtake as required by the Offtake Arrangements Document.

NOW IT IS HEREBY AGREED as follows:

1. Interpretation

- 1.1 In this Agreement, "**Offtake Arrangements Document**" means the Offtake Arrangements Document which forms part of the Uniform Network Code prepared by the Parties (together with other parties) pursuant to their respective gas transporter's licences, as incorporated into the network code prepared by National Grid Gas plc pursuant to its gas transporter's licences and made binding by the Transporters Framework Agreement dated [] between National Grid NTS, the DNO and the other parties to that Agreement.
- 1.2 Subject to paragraph 1.3, terms defined in the Offtake Arrangements Document shall have the same meanings in this Agreement.
- 1.3 References in this Agreement to the Offtake are to the Offtake referred to in Recital A (and other terms defined in the Offtake Arrangements Document and used in this Agreement shall be construed accordingly).
- 1.4 This is a Supplemental Agreement for the purposes of the Offtake Arrangements Document.

2. Details of Offtake

- 2.1 The Offtake is more particularly described, and details of the Individual Offtake Point(s) comprised in the Offtake are set out, in Appendix A: Site Details.
- 2.2 Details of the Offtake Site (and in relation to such site or any part thereof the Site Owner and where applicable Site User) are set out in Appendix B: Site Assets and Ownership.

- 2.3 Details of the Site Services to be provided at the Offtake Site and the Party responsible for the provision of such Site Services are set out in Appendix C: Site Services.
 - 2.4 Details of the Measurement Equipment provided or to be provided by each Party are set out in Appendix D: Measurement Equipment and Permitted Ranges.
 - 2.5 Details of the points of telemetry data required by National Grid NTS are set out in Appendix E: Telemetered Data Requirements.
 - 2.6 Further matters (if any) agreed between the Parties in relation to the Offtake are set out in Appendix F: Miscellaneous.
- 3. Miscellaneous**
- 3.1 This Agreement is governed by, and shall be construed in all respects in accordance with, English law.
 - 3.2 This Agreement may be executed in counterparts.

AS WITNESS the hands of the duly authorised representatives of the parties hereto the day and year first above written.

Signed by **)
duly authorised for and on)
behalf of)
National Grid Gas plc)

Signed by **)
duly authorised for and on)
behalf of)
[DNO])

Appendix A

Site Details

Name of the Offtake Site		
Postal address of the Offtake Site		
Co-ordinates for the Offtake Site	OS Coordinates	BNG Coordinates
	SJ xxx xxx	E: xxxxxx, N: xxxxxx
Owner of the site (the Site Owner)		
Site User(s)		
Offtake Type	Type	Sub-Type
	NTS / LDZ LDZ / LDZ	Offtake Closed Offtake Bi-directional Offtake Non-offtake Shared Site
Site safety and access arrangements		
Third Party Interests		

Appendix B
Site Assets and Ownership

2.1 Points of Offtake

Points of Offtake		
Exceptions		
Other		
Drawing/Diagram	Please refer to the following Site Owner drawings:	
	PSD	
	GA	
	Electrical SLD	
	Other (please specify)	

2.2 Electrical Arrangements

2.2.1 Main Arrangements

Main Supply	
Specific Ownership	

2.2.2 Shared Boards

Board Number or Name			
Board Owner			
Specific Ownership	<i>Way/Fuse</i>	<i>Owner</i>	<i>Asset / Description</i>

2.2.2 Actuated Valves

Specific Ownership	DNO		NGG	
	Valve	Type	Valve	Type

2.2.3 Hydraulic Valves

Specific Ownership (note: Any RGH's will be connected to the site's telemetry arrangements)	DNO		NGG	
	Valve	Type	Valve	Type

2.2.4 Standby Power Arrangements

Item	Owner	Location	Supports
Comments:			

2.3 Telemetry Arrangements

2.3.1 Main Arrangements

Specific Ownership	Site Owner (DNO)		
	Assets	IS Barrier Box	<u>Notes:</u>
		RTU	
		Router	
		Ethernet Hub	
		Ports	
		DSL	
		Satellite Dish / Radio	
		Non IS I/F Box	
	Site User (NGG)		
	Assets	IS Barrier Box	<u>Notes:</u>
		RTU	
		Router	
		Ethernet Hub	
		Ports	
DSL			
Satellite Dish / Radio			
Non IS I/F Box			

2.3.2 P1 Pressure Transmitter

Transmitter	Owner	Demarcation	Location	RTU

2.3.3 Other Pressure Transmitters

Transmitter	Owner	Demarcation	Location	RTU

2.3.4 Shared Barrier Loops

Transmitter	Owner	Transmitter	Owner	Loop

Any maintenance required to P1 will require prior notification via the OAD process.

2.4 FWACV Arrangements

FWACV Asset	Number on Site	Location, description & ownership		
Sample Point	X	1		
		2		
PRU's	X	1		
		2		
Chromatographs	X	1		
		2		
OMNI Computers	X	1		
		2		
Controllers	X	1		
		2		
Mircobox / AB's	X	1		
		2		
Moxa Unit	X	1		
ADAM Unit	X	1		
Brief description of how systems are shared				

2.5 Cathodic Protection Arrangements

CP System / Asset	Owner	Comments
AGI TR		
Pipeline TR		
I/J's 1		
I/J's 2, 3, I/F5 and 6		
Groundbeds		
Drain Point(s)		
Shared Test Posts		
Data Loggers		
Other Information:		

Appendix C

Site Services

The following services are provided by the Site Owner to the Site User:

Cathodic Protection	<p>Where any Site User assets are connected to a Site Owner's Cathodic Protection system or Transformer Rectifier, permission via the OAD process must be ascertained before repair/replacement or maintenance is undertaken.</p> <p>In relation to cathodic protection systems, the Site Services (to be provided by the Services Party) include:</p> <ul style="list-style-type: none"> • maintaining and testing such cathodic protection systems (and planning for such maintenance in accordance with the provisions for Relevant Maintenance in Section G of the Offtake Arrangements Document); and • providing each Site User a report certifying compliance of the cathodic protection systems agreed standards no later than 14 days after any maintenance or testing in accordance with sub-paragraph (a). 												
Electrical	<p>All power provided to site users assets as provided via the main supply and busbar. This includes lighting to all buildings, site flood lighting, and space heating.</p> <p>See Section 2.2 for asset ownership.</p>												
Security	<p>Site Fence & ISS Requirements (Also see Section 1.0 for access and 2.6 for asset ownership)</p>												
General Site Services	<ul style="list-style-type: none"> • Drainage • General Site Maintenance 												
Telecommunications	<p>The following lines are available on site:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: yellow;"> <th style="text-align: center;">Line</th> <th style="text-align: center;">Type</th> <th style="text-align: center;">Owner</th> <th style="text-align: center;">Comment</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">xxxx – xxx xxxx</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">xxxx – xxx xxxx</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Line	Type	Owner	Comment	xxxx – xxx xxxx				xxxx – xxx xxxx			
Line	Type	Owner	Comment										
xxxx – xxx xxxx													
xxxx – xxx xxxx													
Telemetry	<p>All Telemetry assets except the P1 Transmitter are owned by the Site Owner (See Section 2.3)</p> <p>The following Site User's assets are connected to the Site Owners Telemetry system:</p> <ul style="list-style-type: none"> • The P1 transmitter is connected to the site owners IS Barrier Box & RTU. • The site user's FWACV system is connected via the site owners 												

Ethernet Hub. (See Section 2.4)

- The site user's ROV's are connected via the RTU and routers. This uses the site owners communication system for control.

Appendix D

Measurement Equipment and Permitted Ranges

Flow Rates

	Specified Range	Permitted Uncertainty Level	
Instantaneous Volume Flow Rate Based on pressure of xx barg	Between x% and x% of x.x MCM/day	+/- x.x % of actual flow between x% and x% of maximum flow rate.	
		+/- x.x % of actual flow between x% and x% of maximum flow rate.	
Instantaneous Energy Flow Rate. Based on mean CV = xx.xx MJ/m ³ and pressure of xx Bar	Between x % and x% of x.x TJ/day	+/- x.x % of actual flow between x% and x% of maximum flow rate.	
		+/- x.x % of actual flow between x% and x% of maximum flow rate.	
Pressure and Temperature			
	Specified Range		
Offtake Inlet Gas Pressure	0 – 80 barg	+/- x.x% of specified range	
Outlet Gas Temperature	-10 to 40 deg C	+/- x.x% of specified range	
Gas Quality – CV Directed Offtake			
	Specified Range	Permitted Uncertainty Level	
CV		+/- x.x MJ/m ³	
Carbon Dioxide		+/- x.x mol %	
Nitrogen		+/- x.x mol %	
Relative Density		+/- x.xxx	
Wobbe No.		+/- x.x MJ/m ³	
Measurement Equipment			
No. of Meter Streams	Stream flow as % of total capacity	Meter Type	Design Details
x stream(s)	(x) x 100%		Tube A DIA = x mm Nominal Plate Bore DIA = xmm

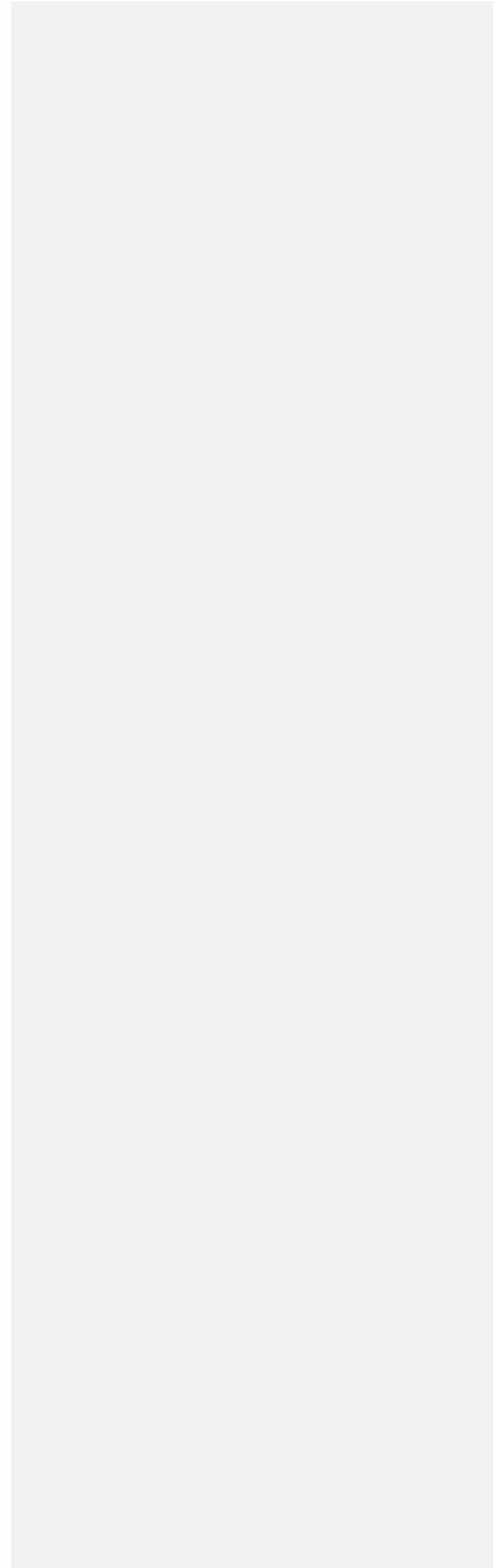
Part C – Valve Monitoring / Control

Point Name	Minimum Required	Site Specific Options	DN Control System Point Name	NGG Unique Name	Comments

Part D – Integrators

Point Name	Minimum Required	Site Specific Options	DN Control System Point Name	NGG Unique Name	Comments

Appendix F
Miscellaneous



PART 2
NTS/LDZ OFFTAKE - SUPPLEMENTAL AGREEMENT (TRIPARTITE)

THIS SUPPLEMENTAL AGREEMENT is made on [] between:

- (1) **National Grid Gas plc**, a company incorporated in England and Wales with company registration number [] and whose registered office is at [] ("**National Grid NTS**");
- (2) [], a company incorporated in [England and Wales] with company registration number [] and whose registered office is at [] (the "**DNO**"); and
- (3) [], a company incorporated in [England and Wales] with company registration number [] and whose registered office is at [] (the "**Site Services Party**").

WHEREAS:

- (A) National Grid NTS is the operator of the National Transmission System.
- (B) The DNO is the operator of the Local Distribution Zone known as [].
- (C) The Local Distribution Zone is or is to be connected to the National Transmission System at an Offtake known as [] and located at [].
- (D) The Offtake is located at an Offtake Site at which another Offtake is also located and in respect of which the Site Services Party is the Services Party, and the parties have agreed that the Site Services Party shall be responsible for providing the services as provided for in this Agreement.
- (E) National Grid NTS, the DNO and the Site Services party are Parties to the Offtake Arrangements Document.
- (F) The parties are entering into this Agreement for the purposes of recording certain details relating to the Offtake as required by the Offtake Arrangements Document.

NOW IT IS HEREBY AGREED as follows:

1 Interpretation

- 1.1 In this Agreement, "**Offtake Arrangements Document**" means the Offtake Arrangements Document which forms part of the Uniform Network Code prepared by the Parties (together with other parties) pursuant to their respective gas transporter's licences, as incorporated into the network code prepared by National Grid Gas plc pursuant to its gas transporter's licences and made binding by the Transporters Framework Agreement dated [] between National Grid NTS, the DNO and the other parties to that Agreement.
- 1.2 Subject to paragraph 1.3, terms defined in the Offtake Arrangements Document shall have the same meanings in this Agreement.
- 1.3 References in this Agreement to the Offtake are to the Offtake referred to in Recital A (and other terms defined in the Offtake Arrangements Document and used in this Agreement shall be construed accordingly).

1.4 This is a Supplemental Agreement for the purposes of the Offtake Arrangements Document.

2 Details of Offtake

2.1 The Offtake is more particularly described, and details of the Individual Offtake Point(s) comprised in the Offtake are set out, in Appendix A: Site Details.

2.2 Details of the Offtake Site (and in relation to such site or any part thereof the Site Owner and where applicable Site User) are set out in Appendix B: Site Assets and Ownership.

2.3 Details of the Site Services to be provided at the Offtake Site by the Site Services Party are set out in Appendix C: Site Services.

2.4 Details of the Measurement Equipment provided or to be provided by each Party are set out in Appendix D: Measurement Equipment and Permitted Ranges.

2.5 Details of the points of telemetry data required by National Grid NTS are set out in Appendix E: Telemetered Data Requirements.

2.6 Further matters (if any) agreed between the Parties in relation to the Offtake are set out in Appendix F: Miscellaneous.

3 Miscellaneous

3.1 This Agreement is governed by, and shall be construed in all respects in accordance with, English law.

3.2 This Agreement may be executed in counterparts.

AS WITNESS the hands of the duly authorised representatives of the parties hereto the day and year first above written.

Signed by **)
duly authorised for and on)
behalf of)
National Grid Gas plc)

Signed by **)
duly authorised for and on)
behalf of)
[DNO])

Signed by **)
duly authorised for and on)
behalf of)
[Site Services Party])

Appendix A

Site Details

Name of the Offtake Site		
Postal address of the Offtake Site		
Co-ordinates for the Offtake Site	OS Coordinates	BNG Coordinates
	SJ xxx xxx	E: xxxxxx, N: xxxxxx
Owner of the site (the Site Owner)		
Site User(s)		
Offtake Type	Type	Sub-Type
	NTS / LDZ LDZ / LDZ	Offtake Closed Offtake Bi-directional Offtake Non-offtake Shared Site
Site safety and access arrangements		
Third Party Interests		

Appendix B
Site Assets and Ownership

2.1 Points of Offtake

Points of Offtake		
Exceptions		
Other		
Drawing/Diagram	Please refer to the following Site Owner drawings:	
	PSD	
	GA	
	Electrical SLD	
	Other (please specify)	

2.2 Electrical Arrangements

2.2.1 Main Arrangements

Main Supply	
Specific Ownership	

2.2.2 Shared Boards

Board Number or Name			
Board Owner			
Specific Ownership	<i>Way/Fuse</i>	<i>Owner</i>	<i>Asset / Description</i>

2.2.2 Actuated Valves

Specific Ownership	DNO		NGG	
	Valve	Type	Valve	Type

2.2.3 Hydraulic Valves

Specific Ownership (note: Any RGH's will be connected to the site's telemetry arrangements)	DNO		NGG	
	Valve	Type	Valve	Type

2.2.4 Standby Power Arrangements

Item	Owner	Location	Supports
Comments:			

2.3 Telemetry Arrangements

2.3.1 Main Arrangements

Specific Ownership	Site Owner (DNO)		
	Assets	IS Barrier Box	<u>Notes:</u>
		RTU	
		Router	
		Ethernet Hub	
		Ports	
		DSL	
		Satellite Dish / Radio	
		Non IS I/F Box	
	Site User (NGG)		
	Assets	IS Barrier Box	<u>Notes:</u>
		RTU	
		Router	
		Ethernet Hub	
		Ports	
DSL			
Satellite Dish / Radio			
Non IS I/F Box			

2.3.2 P1 Pressure Transmitter

Transmitter	Owner	Demarcation	Location	RTU

2.3.3 Other Pressure Transmitters

Transmitter	Owner	Demarcation	Location	RTU

2.3.4 Shared Barrier Loops

Transmitter	Owner	Transmitter	Owner	Loop

Any maintenance required to P1 will require prior notification via the OAD process.

2.4 FWACV Arrangements

FWACV Asset	Number on Site	Location, description & ownership		
Sample Point	X	1		
		2		
PRU's	X	1		
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		2		
Controllers	X	1		
		2		
Mircobox / AB's	X	1		
		2		
Moxa Unit	X	1		
ADAM Unit	X	1		
Brief description of how systems are shared				

2.5 Cathodic Protection Arrangements

CP System / Asset	Owner	Comments
AGI TR		
Pipeline TR		
I/J's 1		
I/J's 2, 3, I/F5 and 6		
Groundbeds		
Drain Point(s)		
Shared Test Posts		
Data Loggers		
Other Information:		

Appendix C

Site Services

The following services are provided by the Site Owner to the Site User:

Cathodic Protection	<p>Where any Site User assets are connected to a Site Owner's Cathodic Protection system or Transformer Rectifier, permission via the OAD process must be ascertained before repair/replacement or maintenance is undertaken.</p> <p>In relation to cathodic protection systems, the Site Services (to be provided by the Services Party) include:</p> <ul style="list-style-type: none"> • maintaining and testing such cathodic protection systems (and planning for such maintenance in accordance with the provisions for Relevant Maintenance in Section G of the Offtake Arrangements Document); and • providing each Site User a report certifying compliance of the cathodic protection systems agreed standards no later than 14 days after any maintenance or testing in accordance with sub-paragraph (a). 												
Electrical	<p>All power provided to site users assets as provided via the main supply and busbar. This includes lighting to all buildings, site flood lighting, and space heating.</p> <p>See Section 2.2 for asset ownership.</p>												
Security	<p>Site Fence & ISS Requirements (Also see Section 1.0 for access and 2.6 for asset ownership)</p>												
General Site Services	<ul style="list-style-type: none"> • Drainage • General Site Maintenance 												
Telecommunications	<p>The following lines are available on site:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: yellow;"> <th style="text-align: center;"><i>Line</i></th> <th style="text-align: center;"><i>Type</i></th> <th style="text-align: center;"><i>Owner</i></th> <th style="text-align: center;"><i>Comment</i></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">xxxx – xxx xxxx</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">xxxx – xxx xxxx</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	<i>Line</i>	<i>Type</i>	<i>Owner</i>	<i>Comment</i>	xxxx – xxx xxxx				xxxx – xxx xxxx			
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xxxx – xxx xxxx													
xxxx – xxx xxxx													
Telemetry	<p>All Telemetry assets except the P1 Transmitter are owned by the Site Owner (See Section 2.3)</p> <p>The following Site User's assets are connected to the Site Owners Telemetry system:</p> <ul style="list-style-type: none"> • The P1 transmitter is connected to the site owners IS Barrier Box & RTU. • The site user's FWACV system is connected via the site owners 												

	<p>Ethernet Hub. (See Section 2.4)</p> <ul style="list-style-type: none">• The site user's ROV's are connected via the RTU and routers. This uses the site owners communication system for control.
Water and Welfare Arrangements	

Appendix D

Measurement Equipment and Permitted Ranges

Flow Rates

	Specified Range	Permitted Uncertainty Level	
Instantaneous Volume Flow Rate Based on pressure of xx barg	Between x% and x% of x.x MCM/day	+/- x.x % of actual flow between x% and x% of maximum flow rate.	
		+/- x.x % of actual flow between x% and x% of maximum flow rate.	
Instantaneous Energy Flow Rate. Based on mean CV = xx.xx MJ/m ³ and pressure of xx Bar	Between x % and x% of x.x TJ/day	+/- x.x % of actual flow between x% and x% of maximum flow rate.	
		+/- x.x % of actual flow between x% and x% of maximum flow rate.	
Pressure and Temperature			
	Specified Range		
Offtake Inlet Gas Pressure	0 – 80 barg	+/- x.x% of specified range	
Outlet Gas Temperature	-10 to 40 deg C	+/- x.x% of specified range	
Gas Quality – CV Directed Offtake			
	Specified Range	Permitted Uncertainty Level	
CV		+/- x.x MJ/m ³	
Carbon Dioxide		+/- x.x mol %	
Nitrogen		+/- x.x mol %	
Relative Density		+/- x.xxx	
Wobbe No.		+/- x.x MJ/m ³	
Measurement Equipment			
No. of Meter Streams	Stream flow as % of total capacity	Meter Type	Design Details
x stream(s)	(x) x 100%		Tube A DIA = x mm Nominal Plate Bore DIA = xmm

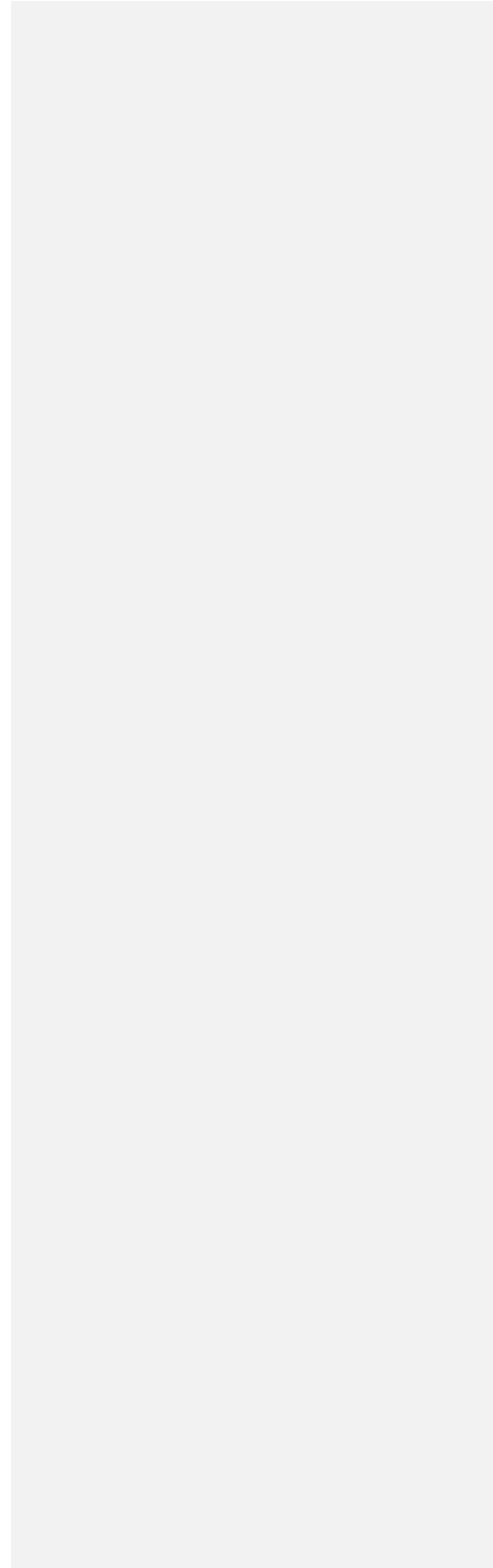
Part C – Valve Monitoring / Control

Point Name	Minimum Required	Site Specific Options	DN Control System Point Name	NGG Unique Name	Comments

Part D – Integrators

Point Name	Minimum Required	Site Specific Options	DN Control System Point Name	NGG Unique Name	Comments

Appendix F
Miscellaneous



PART 3

LDZ/LDZ OFFTAKE - SUPPLEMENTAL AGREEMENT

THIS SUPPLEMENTAL AGREEMENT is made on [] between:

- (1) [], a company incorporated in [England and Wales] with company registration number [] and whose registered office is at [] (the "**Upstream DNO**"); and
- (2) [], a company incorporated in [England and Wales] with company registration number [] and whose registered office is at [] (the "**Downstream DNO**")
(each a "**Party**" and collectively the "**Parties**").

WHEREAS:

- (A) The Upstream DNO is the operator of the Local Distribution Zone known as [].
- (B) The Downstream DNO is the operator of the Local Distribution Zone known as [].
- (C) The LDZs are or are to be connected at an Offtake known as [] and located at [].
- (D) The Upstream DNO and Downstream DNO are parties to the Offtake Arrangements Document.
- (E) The Parties are entering into this Agreement for the purposes of recording certain details relating to the Offtake as required by the Offtake Arrangements Document.

NOW IT IS HEREBY AGREED as follows:

1 Interpretation

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- 1.2 Subject to paragraph 1.3, terms defined in the Offtake Arrangements Document shall have the same meanings in this Agreement.
- 1.3 References in this Agreement to the Offtake are to the Offtake referred to in Recital A (and other terms defined in the Offtake Arrangements Document and used in this Agreement shall be construed accordingly).
- 1.4 This is a Supplemental Agreement for the purposes of the Offtake Arrangements Document.

2 Details of Offtake

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AS WITNESS the hands of the duly authorised representatives of the parties hereto the day and year first above written.

Signed by **)
duly authorised for and on)
behalf of)
[Upstream DNO])

Signed by **)
duly authorised for and on)
behalf of)
[Downstream DNO])

Appendix A

Site Details

Name of the Offtake Site		
Postal address of the Offtake Site		
Co-ordinates for the Offtake Site	OS Coordinates	BNG Coordinates
	SJ xxx xxx	E: xxxxxx, N: xxxxxx
Owner of the site (the Site Owner)		
Site User(s)		
Offtake Type	Type	Sub-Type
	NTS / LDZ LDZ / LDZ	Offtake Closed Offtake Bi-directional Offtake Non-offtake Shared Site
Site safety and access arrangements		
Third Party Interests		

Appendix B
Site Assets and Ownership

2.1 Points of Offtake

Points of Offtake		
Exceptions		
Other		
Drawing/Diagram	Please refer to the following Site Owner drawings:	
	PSD	
	GA	
	Electrical SLD	
	Other (please specify)	

2.2 Electrical Arrangements

2.2.1 Main Arrangements

Main Supply	
Specific Ownership	

2.2.2 Shared Boards

Board Number or Name			
Board Owner			
Specific Ownership	<i>Way/Fuse</i>	<i>Owner</i>	<i>Asset / Description</i>

2.2.2 Actuated Valves

Specific Ownership	DNO		NGG	
	Valve	Type	Valve	Type

2.2.3 Hydraulic Valves

Specific Ownership (note: Any RGH's will be connected to the site's telemetry arrangements)	DNO		NGG	
	Valve	Type	Valve	Type

2.2.4 Standby Power Arrangements

Item	Owner	Location	Supports
Comments:			

2.3 Telemetry Arrangements

2.3.1 Main Arrangements

Specific Ownership	Site Owner (DNO)		
	Assets	IS Barrier Box	<u>Notes:</u>
		RTU	
		Router	
		Ethernet Hub	
		Ports	
		DSL	
		Satellite Dish / Radio	
		Non IS I/F Box	
	Site User (NGG)		
	Assets	IS Barrier Box	<u>Notes:</u>
		RTU	
		Router	
		Ethernet Hub	
		Ports	
DSL			
Satellite Dish / Radio			
Non IS I/F Box			

2.3.2 P1 Pressure Transmitter

Transmitter	Owner	Demarcation	Location	RTU

2.3.3 Other Pressure Transmitters

Transmitter	Owner	Demarcation	Location	RTU

2.3.4 Shared Barrier Loops

Transmitter	Owner	Transmitter	Owner	Loop

Any maintenance required to P1 will require prior notification via the OAD process.

2.4 FWACV Arrangements

FWACV Asset	Number on Site	Location, description & ownership		
Sample Point	X	1		
		2		
PRU's	X	1		
		2		
Chromatographs	X	1		
		2		
OMNI Computers	X	1		
		2		
Controllers	X	1		
		2		
Mircobox / AB's	X	1		
		2		
Moxa Unit	X	1		
ADAM Unit	X	1		
Brief description of how systems are shared				

2.5 Cathodic Protection Arrangements

CP System / Asset	Owner	Comments
AGI TR		
Pipeline TR		
I/J's 1		
I/J's 2, 3, I/F5 and 6		
Groundbeds		
Drain Point(s)		
Shared Test Posts		
Data Loggers		
Other Information:		

Appendix C

Site Services

The following services are provided by the Site Owner to the Site User:

Cathodic Protection	<p>Where any Site User assets are connected to a Site Owner's Cathodic Protection system or Transformer Rectifier, permission via the OAD process must be ascertained before repair/replacement or maintenance is undertaken.</p> <p>In relation to cathodic protection systems, the Site Services (to be provided by the Services Party) include:</p> <ul style="list-style-type: none"> • maintaining and testing such cathodic protection systems (and planning for such maintenance in accordance with the provisions for Relevant Maintenance in Section G of the Offtake Arrangements Document); and • providing each Site User a report certifying compliance of the cathodic protection systems agreed standards no later than 14 days after any maintenance or testing in accordance with sub-paragraph (a). 												
Electrical	<p>All power provided to site users assets as provided via the main supply and busbar. This includes lighting to all buildings, site flood lighting, and space heating.</p> <p>See Section 2.2 for asset ownership.</p>												
Security	<p>Site Fence & ISS Requirements (Also see Section 1.0 for access and 2.6 for asset ownership)</p>												
General Site Services	<ul style="list-style-type: none"> • Drainage • General Site Maintenance 												
Telecommunications	<p>The following lines are available on site:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: yellow;"> <th style="text-align: center;">Line</th> <th style="text-align: center;">Type</th> <th style="text-align: center;">Owner</th> <th style="text-align: center;">Comment</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">xxxx – xxx xxxx</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">xxxx – xxx xxxx</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Line	Type	Owner	Comment	xxxx – xxx xxxx				xxxx – xxx xxxx			
Line	Type	Owner	Comment										
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Telemetry	<p>All Telemetry assets except the P1 Transmitter are owned by the Site Owner (See Section 2.3)</p> <p>The following Site User's assets are connected to the Site Owners Telemetry system:</p> <ul style="list-style-type: none"> • The P1 transmitter is connected to the site owners IS Barrier Box & RTU. • The site user's FWACV system is connected via the site owners 												

	<p>Ethernet Hub. (See Section 2.4)</p> <ul style="list-style-type: none">• The site user's ROV's are connected via the RTU and routers. This uses the site owners communication system for control.
Water and Welfare Arrangements	

Appendix D

Measurement Equipment and Permitted Ranges

Flow Rates

	Specified Range	Permitted Uncertainty Level	
Instantaneous Volume Flow Rate Based on pressure of xx barg	Between x% and x% of x.x MCM/day	+/- x.x % of actual flow between x% and x% of maximum flow rate.	
		+/- x.x % of actual flow between x% and x% of maximum flow rate.	
Instantaneous Energy Flow Rate. Based on mean CV = xx.xx MJ/m ³ and pressure of xx Bar	Between x % and x% of x.x TJ/day	+/- x.x % of actual flow between x% and x% of maximum flow rate.	
		+/- x.x % of actual flow between x% and x% of maximum flow rate.	
Pressure and Temperature			
	Specified Range		
Offtake Inlet Gas Pressure	0 – 80 barg	+/- x.x% of specified range	
Outlet Gas Temperature	-10 to 40 deg C	+/- x.x% of specified range	
Gas Quality – CV Directed Offtake			
	Specified Range	Permitted Uncertainty Level	
CV		+/- x.x MJ/m ³	
Carbon Dioxide		+/- x.x mol %	
Nitrogen		+/- x.x mol %	
Relative Density		+/- x.xxx	
Wobbe No.		+/- x.x MJ/m ³	
Measurement Equipment			
No. of Meter Streams	Stream flow as % of total capacity	Meter Type	Design Details
x stream(s)	(x) x 100%		Tube A DIA = x mm Nominal Plate Bore DIA = xmm

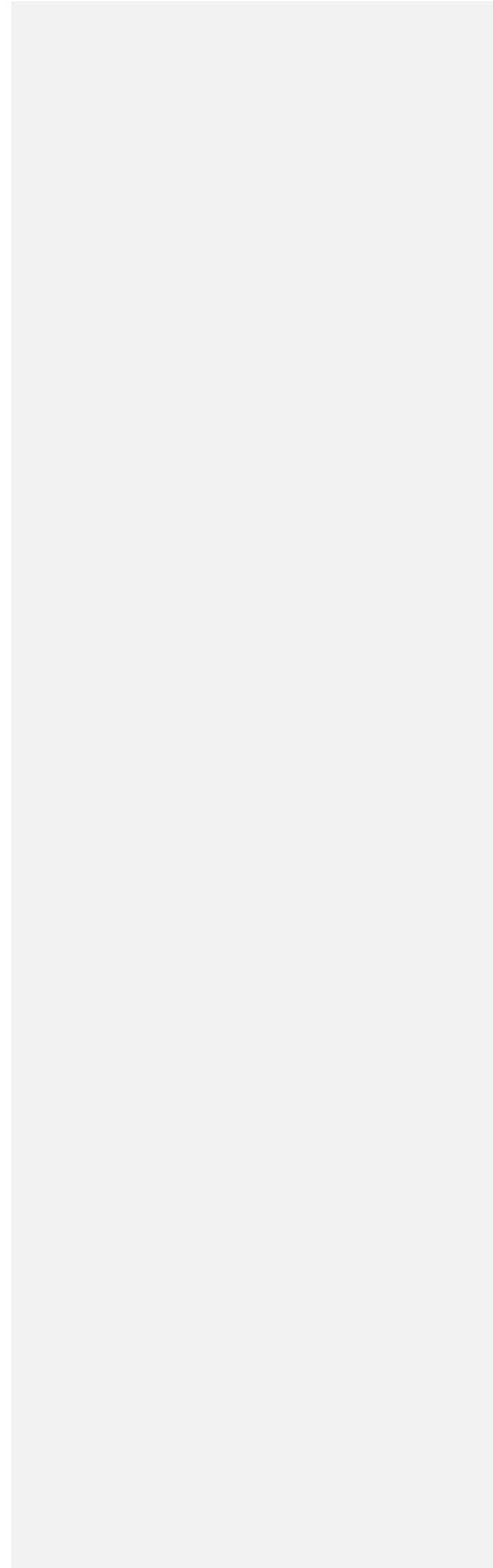
Part C – Valve Monitoring / Control

Point Name	Minimum Required	Site Specific Options	DN Control System Point Name	NGG Unique Name	Comments

Part D – Integrators

Point Name	Minimum Required	Site Specific Options	DN Control System Point Name	NGG Unique Name	Comments

Appendix F
Miscellaneous



PART 4
SHARED SITE AGREEMENT (NO OFFTAKE)

THIS SHARED SITE AGREEMENT is made on [] between:

- (1) [], a company incorporated in England and Wales with company registration number [] and whose registered office is at [] ("**Party 1**"); and
- (2) [], a company incorporated in [England and Wales] with company registration number [] and whose registered office is at [] ("**Party 2**").

WHEREAS:

- (A) [Party 1] is the operator of the [].
- (B) [Party 2] is the operator of the [].
- (C) [Party 1] and [Party 2] are Parties to the Offtake Arrangements Document.
- (E) The parties are entering into this Agreement for the purposes of recording certain details relating to the Shared Site as required by the Offtake Arrangements Document.

NOW IT IS HEREBY AGREED as follows:

1. Interpretation

- 1.1 In this Agreement, "**Offtake Arrangements Document**" means the Offtake Arrangements Document which forms part of the Uniform Network Code prepared by the Parties (together with other parties) pursuant to their respective gas transporter's licences, as incorporated into the network code prepared by National Grid Gas plc pursuant to its gas transporter's licences and made binding by the Transporters Framework Agreement dated [] between National Grid NTS, the DNO and the other parties to that Agreement.
- 1.2 Subject to paragraph 1.3, terms defined in the Offtake Arrangements Document shall have the same meanings in this Agreement.
- 1.3 References in this Agreement to the Shared Site are to the Shared Site referred to in Recital A (and other terms defined in the Offtake Arrangements Document and used in this Agreement shall be construed accordingly).
- 1.4 This is a Shared Site Agreement for the purposes of the Offtake Arrangements Document.

2. Details of Offtake

- 2.1 The Shared Site is more particularly described in Appendix A: Site Details.
- 2.2 Details of the Shared Site (and in relation to such site or any part thereof the Site Owner and where applicable Site User) are set out in Appendix B: Site Assets and Ownership.
- 2.3 Details of the Site Services to be provided at the Shared Site and the Party responsible for the provision of such Site Services are set out in Appendix C: Site Services.
- 2.4 Further matters (if any) agreed between the Parties in relation to the Offtake are set out in Appendix D: Miscellaneous.

3. Miscellaneous

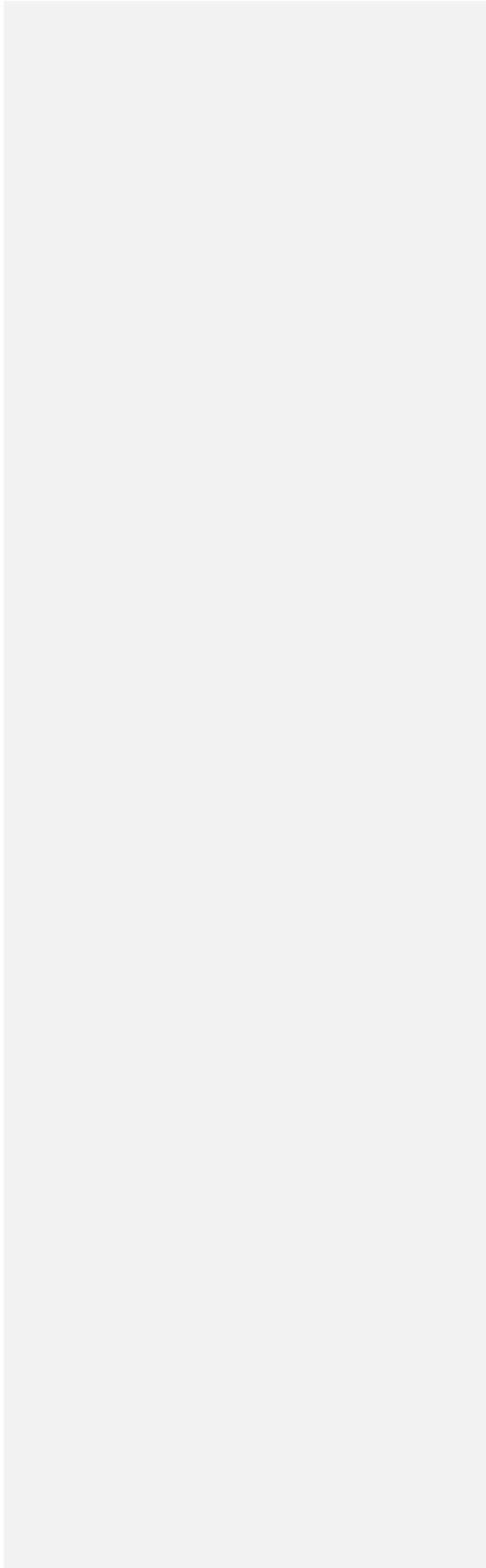
3.1 This Agreement is governed by, and shall be construed in all respects in accordance with, English law.

3.2 This Agreement may be executed in counterparts.

AS WITNESS the hands of the duly authorised representatives of the parties hereto the day and year first above written.

Signed by **)
duly authorised for and on)
behalf of)
[Party 1])

Signed by **)
duly authorised for and on)
behalf of)
[Party 2])



Appendix A

Site Details

Name of the Shared Site		
Postal address of the Shared Site		
Co-ordinates for the Shared Site	OS Coordinates	BNG Coordinates
	SJ xxx xxx	E: xxxxxx, N: xxxxxx
Owner of the site (the Site Owner)		
Site User(s)		
▼	▼	▼
	▼	▼
Site safety and access arrangements		
Third Party Interests		

Deleted: Offtake

Deleted: Offtake

Deleted: Offtake

Deleted: Offtake Type

Deleted: Type

Deleted: Sub-Type

Deleted: NTS / LDZ¶
LDZ / LDZ

Deleted: Offtake¶
Closed Offtake¶
Bi-directional Offtake¶
Non-offtake Shared Site¶

Appendix B
Site Assets and Ownership

2.1

2.2 **Electrical Arrangements**

2.2.1 Main Arrangements

Main Supply	
Specific Ownership	

2.2.2 Shared Boards

Board Number or Name			
Board Owner			
Specific Ownership	<i>Way/Fuse</i>	<i>Owner</i>	<i>Asset / Description</i>

2.2.2 Actuated Valves

Specific Ownership	DNO		NGG	
	<i>Valve</i>	<i>Type</i>	<i>Valve</i>	<i>Type</i>

2.2.3 Hydraulic Valves

Specific Ownership	DNO	NGG
--------------------	------------	------------

(note: Any RGH's will be connected to the site's telemetry arrangements)	<i>Valve</i>	<i>Type</i>	<i>Valve</i>	<i>Type</i>

2.2.4 Standby Power Arrangements

Item	Owner	Location	Supports
Comments:			

Appendix C

Site Services

The following [Site Services](#) are provided by the Site Owner to the Site User:

Deleted: services

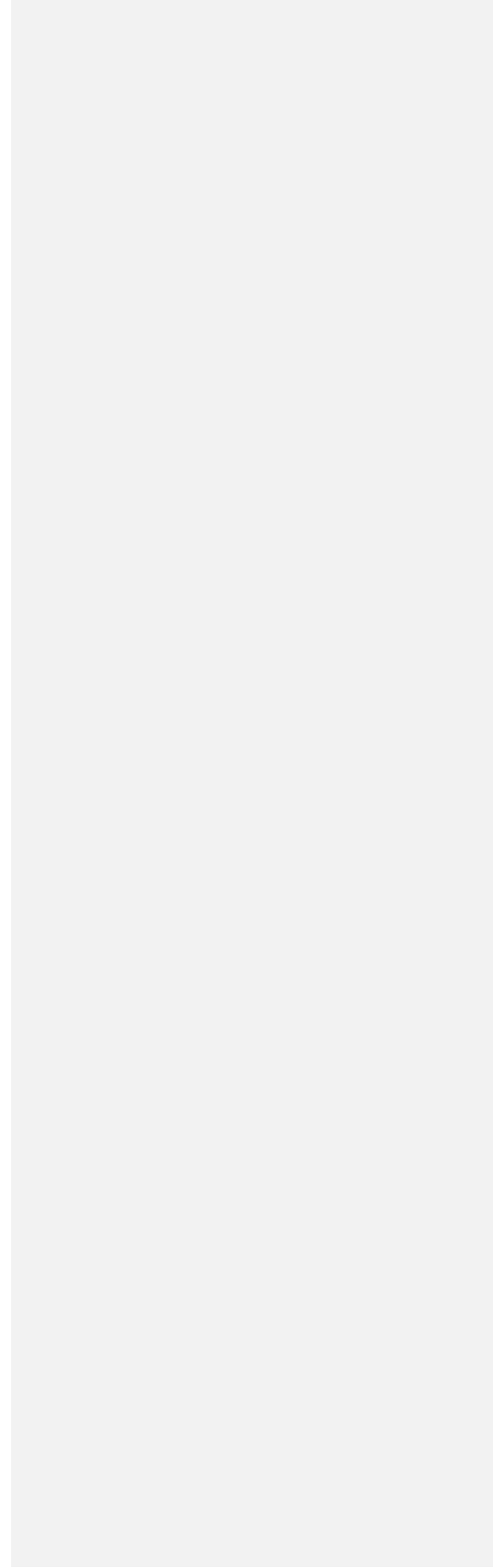
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|

|



Appendix F
Miscellaneous