

# Gas Transmission

**UNC0823**

**Initial Discussion Points  
NTSCMF**

**4<sup>th</sup> October 2022**

**nationalgrid**



# Overview of Changes



# Current Process for Proration of Multi routes

## Business Rules as described in UNC0728B

**37** Where a User specifies a single Entry Point as the relevant Entry Point for more than one route (i.e. in respect of more than one Exit Point):

**37.1** the Entry Capacity ( $CAP_{En}$ ) for the relevant route will be equal to the User's Entry Capacity at the ASEP pro-rated on the basis of the Exit Capacity quantity as a proportion of the aggregate of the Exit Capacity quantities (for which the Entry Point is the relevant Entry Point for the nominated routes);

**37.2** the quantity of Entry Capacity procured via an Existing Contract ( $EC_{En}$ ) for the relevant route will be the equal to the User's Entry Capacity procured via an Existing Contract at the ASEP pro-rated on the basis of the Exit Capacity quantity as a proportion of the aggregate of the Exit Capacity quantities (for which the Entry Point is the relevant Entry Point for the nominated routes);

**37.3** the Entry Allocation ( $A_{En}$ ) for the relevant route will be the equal to the User's Entry Allocation at the ASEP pro-rated on the basis of the Exit Allocation quantity as a proportion of the aggregate of the Exit Allocation quantities (for which the Entry Point is the relevant Entry Point for the nominated routes).

**37.4** the Apportionment Quantity ( $AQ_{En}$ ) for the relevant route will be the equal to the User's Apportionment Quantity pro-rated on the basis of the Exit Capacity quantity as a proportion of the aggregate of the Exit Capacity quantities (for which the Entry Point is the relevant Entry Point for the nominated routes);

# Proposed Process for Proration of Multi routes

## Business Rules as described in UNC0823

**37** Where a User specifies a single Entry Point as the relevant Entry Point for more than one route (i.e. in respect of more than one Exit Point):

**37.1** the Entry Capacity ( $CAP_{En}$ ) for the relevant route will be equal to the User's Entry Capacity at the ASEP pro-rated on the basis of the **minimum of Exit Capacity quantity and Exit Allocation quantity** as a proportion of the aggregate of the **minimum of Exit Capacity quantities and Exit Allocation quantity per route** (for which the Entry Point is the relevant Entry Point for the nominated routes);

**37.2** the quantity of Entry Capacity procured via an Existing Contract ( $EC_{En}$ ) for the relevant route will be the equal to the User's Entry Capacity procured via an Existing Contract at the ASEP pro-rated on the basis of the **minimum of Exit Capacity quantity and Exit Allocation quantity** as a proportion of the aggregate of the **minimum of Exit Capacity quantities and Exit Allocation quantity per route** (for which the Entry Point is the relevant Entry Point for the nominated routes);

**37.3** the Entry Allocation ( $A_{En}$ ) for the relevant route will be the equal to the User's Entry Allocation at the ASEP pro-rated on the basis of the **minimum of Exit Allocation quantity and Exit Allocation quantity** as a proportion of the aggregate of the **minimum of Exit Allocation quantities and Exit Allocation quantity per route** (for which the Entry Point is the relevant Entry Point for the nominated routes).

**37.4** the Apportionment Quantity ( $AQ_{En}$ ) for the relevant route will be the equal to the User's Apportionment Quantity pro-rated on the basis of the **minimum of Exit Capacity quantity and Exit Allocation quantity** as a proportion of the aggregate of the **minimum of Exit Capacity quantities and Exit Allocation quantity per route** (for which the Entry Point is the relevant Entry Point for the nominated routes);

# Gas Transmission

# Updated Examples

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# Current Process for Proration of Multi routes

Example 4: As described in [UNC0728B](#)

Entry Point D				BR	Entry Point D to Exit Point 1		Entry Point D to Exit Point 2	
Date Booked	Source	Type	kWh		Type	kWh	Type	kWh
01/01/2020	Trade	Firm	105,000	37.1	CAP <sub>En1</sub>	47,250	CAP <sub>En2</sub>	57,750
		Entry Flow	90,000	37.3	AQ <sub>En1</sub>	47,250	AQ <sub>En2</sub>	57,750
				37.4	A <sub>En1</sub>	42,353	A <sub>En2</sub>	47,647
Exit Point 1				Entry	kWh/day	Entry	kWh/day	
Date Booked	Source	Type	kWh					
01/01/2020	Trade	Firm	45,000	IEQ <sub>En</sub>	40,000	IEQ <sub>En</sub>	45,000	
		Entry Flow	40,000	EQ <sub>En</sub>	40,000	EQ <sub>En</sub>	45,000	
Exit Point 2				Exit	kWh/day	Exit	kWh/day	
Date Booked	Source	Type	kWh					
01/01/2020	Trade	Firm	55,000	IEQ <sub>Ex</sub>	40,000	IEQ <sub>Ex</sub>	45,000	
		Entry Flow	45,000	EQ <sub>Ex</sub>	40,000	EQ <sub>Ex</sub>	45,000	

# Proposed Process for Proration of Multi routes

Example 4: Adjusted based on UNC0823

Entry Point D				BR	Entry Point D to Exit Point 1		Entry Point D to Exit Point 2	
Date Booked	Source	Type	kWh		Type	kWh	Type	kWh
01/01/2020	Trade	Firm	105,000	37.1	CAP <sub>En1</sub>	49,412	CAP <sub>En2</sub>	55,588
		Entry Flow	90,000	37.3	AQ <sub>En1</sub>	47,250	AQ <sub>En2</sub>	57,750
				37.4	A <sub>En1</sub>	42,353	A <sub>En2</sub>	47,647
Exit Point 1					Entry	kWh/day	Entry	kWh/day
Date Booked	Source	Type	kWh		IEQ <sub>En</sub>	40,000	IEQ <sub>En</sub>	45,000
01/01/2020	Trade	Firm	45,000		EQ <sub>En</sub>	40,000	EQ <sub>En</sub>	45,000
		Entry Flow	40,000					
Exit Point 2					Exit	kWh/day	Exit	kWh/day
Date Booked	Source	Type	kWh		IEQ <sub>Ex</sub>	40,000	IEQ <sub>Ex</sub>	45,000
01/01/2020	Trade	Firm	55,000		EQ <sub>Ex</sub>	40,000	EQ <sub>Ex</sub>	45,000
		Entry Flow	45,000					

# Current Process for Proration of Multi routes

Example 5: As described in [UNC0728B](#)

Entry Point E				BR	Entry Point E to Exit Point 1		Entry Point E to Exit Point 2	
Date Booked	Source	Type	kWh		Type	kWh	Type	kWh
01/04/2017	Existing	Firm	100,000	37.1	CAP <sub>En1</sub>	45217	CAP <sub>En2</sub>	84783
01/01/2020	Auction	Firm	50,000	37.2	EC <sub>En1</sub>	34783	EC <sub>En2</sub>	65217
01/04/2020	Auction	Interruptible	50,000	37.3	A <sub>En1</sub>	56667	A <sub>En2</sub>	113333
01/07/2020	Trade	Firm	-20,000	37.4	AQ <sub>En1</sub>	17391	AQ <sub>En2</sub>	32609
			Entry Flow					
			170,000					
Exit Point 1				BR	Entry		Entry	
Date Booked	Source	Type	kWh		Type	kWh/day	Type	kWh/day
01/01/2020	Auction	Firm	50,000		IEQ <sub>En</sub>	5217	IEQ <sub>En</sub>	9783
01/04/2020	Auction	Interruptible	20,000		EQ <sub>En</sub>	5217	EQ <sub>En</sub>	9783
01/07/2020	Trade	Firm	-10,000					
			Entry Flow					
			55,000					
Exit Point 2				BR	Exit		Exit	
Date Booked	Source	Type	kWh		Type	kWh/day	Type	kWh/day
01/01/2020	Auction	Firm	60,000		IEQ <sub>Ex</sub>	40000	IEQ <sub>Ex</sub>	75000
01/04/2020	Auction	Interruptible	30,000		EQ <sub>Ex</sub>	40000	EQ <sub>Ex</sub>	60000
01/07/2020	Trade	Firm	15,000					
			Entry Flow					
			110,000					



# Current Process for Proration of Multi routes

## Example 5: Adjusted based on UNC0823

Entry Point E				BR	Entry Point E to Exit Point 1		Entry Point E to Exit Point 2	
Date Booked	Source	Type	kWh		Type	kWh	Type	kWh
01/04/2017	Existing	Firm	100,000	37.1	CAP <sub>En1</sub>	45217	CAP <sub>En2</sub>	84783
01/01/2020	Auction	Firm	50,000	37.2	EC <sub>En1</sub>	34783	EC <sub>En2</sub>	65217
01/04/2020	Auction	Interruptible	50,000	37.3	A <sub>En1</sub>	59130	A <sub>En2</sub>	110870
01/07/2020	Trade	Firm	-20,000	37.4	AQ <sub>En1</sub>	17391	AQ <sub>En2</sub>	32609
			Entry Flow					
			170,000					
Exit Point 1				BR	Entry		Entry	
Date Booked	Source	Type	kWh		Type	kWh/day	Type	kWh/day
01/01/2020	Auction	Firm	50,000		IEQ <sub>En</sub>	5217	IEQ <sub>En</sub>	9783
01/04/2020	Auction	Interruptible	20,000		EQ <sub>En</sub>	5217	EQ <sub>En</sub>	9783
01/07/2020	Trade	Firm	-10,000					
			Entry Flow					
			55,000					
Exit Point 2				BR	Exit		Exit	
Date Booked	Source	Type	kWh		Type	kWh/day	Type	kWh/day
01/01/2020	Auction	Firm	60,000		IEQ <sub>Ex</sub>	40000	IEQ <sub>Ex</sub>	75000
01/04/2020	Auction	Interruptible	30,000		EQ <sub>Ex</sub>	40000	EQ <sub>Ex</sub>	60000
01/07/2020	Trade	Firm	15,000					
			Entry Flow					
			110,000					

# Current Process for Proration of Multi routes

0823 Mod Example: Calculated using the method as described in UNC0728B

Entry Point F				Entry Point F to Exit Point 1		Entry Point F to Exit Point 2		
Date Booked	Source	Type	kWh	Type	kWh	Type	kWh	
01/04/2017	Existing	Firm	0	37.1	CAP <sub>En1</sub>	75	CAP <sub>En2</sub>	25
01/01/2020	Auction	Firm	100	37.2	EC <sub>En1</sub>	0	EC <sub>En2</sub>	0
01/04/2020	Auction	Interruptible	0	37.3	A <sub>En1</sub>	20	A <sub>En2</sub>	80
01/07/2020	Trade	Firm	0	37.4	AQ <sub>En1</sub>	75	AQ <sub>En2</sub>	25
		Entry Flow	100					
Exit Point 1				Entry	kWh/day	Entry	kWh/day	
Date Booked	Source	Type	kWh					
01/01/2020	Auction	Firm	150	IEQ <sub>En</sub>	10	IEQ <sub>En</sub>	25	
01/04/2020	Auction	Interruptible	0	EQ <sub>En</sub>	10	EQ <sub>En</sub>	25	
01/07/2020	Trade	Firm	0					
		Entry Flow	10					
Exit Point 2				Exit	kWh/day	Exit	kWh/day	
Date Booked	Source	Type	kWh					
01/01/2020	Auction	Firm	50	IEQ <sub>Ex</sub>	10	IEQ <sub>Ex</sub>	25	
01/04/2020	Auction	Interruptible	0	EQ <sub>Ex</sub>	10	EQ <sub>Ex</sub>	25	
01/07/2020	Trade	Firm	0					
		Entry Flow	40					

# Proposed Process for Proration of Multi routes

0823 Mod Example:

Entry Point E				Entry Point F to Exit Point 1		Entry Point F to Exit Point 2		
Date Booked	Source	Type	kWh	Type	kWh	Type	kWh	
01/04/2017	Existing	Firm	0	37.1	CAP <sub>En1</sub>	20	CAP <sub>En2</sub>	80
01/01/2020	Auction	Firm	100	37.2	EC <sub>En1</sub>	0	EC <sub>En2</sub>	0
01/04/2020	Auction	Interruptible	0	37.3	A <sub>En1</sub>	20	A <sub>En2</sub>	80
01/07/2020	Trade	Firm	0	37.4	AQ <sub>En1</sub>	20	AQ <sub>En2</sub>	80
			Entry Flow					
Exit Point 1				Entry	kWh/day	Entry	kWh/day	
Date Booked	Source	Type	kWh					
01/01/2020	Auction	Firm	150	IEQ <sub>En</sub>	10	IEQ <sub>En</sub>	40	
01/04/2020	Auction	Interruptible	0	EQ <sub>En</sub>	10	EQ <sub>En</sub>	40	
01/07/2020	Trade	Firm	0					
			Entry Flow					
Exit Point 2				Exit	kWh/day	Exit	kWh/day	
Date Booked	Source	Type	kWh					
01/01/2020	Auction	Firm	50	IEQ <sub>Ex</sub>	10	IEQ <sub>Ex</sub>	40	
01/04/2020	Auction	Interruptible	0	EQ <sub>Ex</sub>	10	EQ <sub>Ex</sub>	40	
01/07/2020	Trade	Firm	0					
			Entry Flow					

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# Initial Analysis

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# High Level Figures

Based on current route nominations

Defining a route as a unique combination of:

- Shipper
- Entry Point
- Exit Point

There are currently **41** nominated routes

There are currently **8** Shippers and **2** Entry Points with active routes to multiple Exit Points

**24** multi-routes in total will be affected by this change

# High Level Figures

Invoicing data for the period Oct-21 to Jul-22 has been used to calculate the following:

The **24** multi-routes contributed circa **£2.5m** in combined Entry & Exit Revenues from Eligible Quantities over this ten month period.

Approximately **£22.2m** was socialised due to the discounts applied.

This contribution is generated from approx. **22.3m kWh** of Eligible Quantities.

This is approximately **35%** of the potential Entry Eligible Quantities and **18%** of the potential Exit Eligible Quantities observed across those routes.

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# Next Steps

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