Offtake Arrangements Further Flexibility

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Further Flexibility

Objectives

- Provision of flexibility required by loads connected to NTS
- Not unduly discriminatory
- Reveal investment signals
- Complimentary to existing arrangements

Key Aspects

- (1) Flexibility product
- (2) Ramp rates and notice periods/ rate changes

- Background
- Previous discussion
- Proposed product
 - Definition
 - Usage
 - Assessment
 - Release processes

Background

- NTS designed to accommodate 1/24th rates of offtake
- For NTS direct connects, MHQ = MDQ/ 24
- Planned provision of flexible offtake rates (diurnal storage) to DNs



Previous discussion





Rationale

Volume at rates above MDQ/24 is a proxy for additional linepack impact

Other aspects

- Application to all NTS exits
- Overruns where booked volume exceeded
- Requires continuous flow monitoring



"Diurnal" and "anti-diurnal" volumes

- Volumes taken at rates above MDQ/24 before time t contribute to NTS demand
- Volumes taken at rates above MDQ/24 after time t reduce NTS demand



- Exclude volumes taken at rates above MDQ/24 after t from product usage calculation
 - Develop positive and negative products for volumes before and after time t.
 - Develop "offset" arrangements
- Develop tender arrangements for NTS to purchase volumes after time t if necessary.

Interaction with NTS exit capacity Proposed product usage: Direct connects



Interaction with NTS exit capacity Proposed product usage: Direct connects



Two means of accommodating profile:

- 1. Book MDQ of 96 (4x24) and no flexibility product (as per current arrangements for direct connects)
- 2. Book MDQ of 72 (3x24) and flexibility product:
 - Incremental rate of 1(MHQ=4)
 - Volume of 10 (6x1 + 4x1)

Proposed product usage: DNs



Profile cycling and linepack impact



Proposed product addresses potential linepack impact but does not cater for profile cycling

Product Assessment

Pros	Cons
Simple additional product, no requirement to purchase	
Enables security of supply obligations to be met	
Enables optimisation of MDQ with flexibility product	
Reflects linepack impact when average rate is MDQ/24 if no profile cycling	 Does not deal fully with profile cycling
	 Assumes all flexibility used at rates<mdq 24="" be="" can="" from<br="" provided="">"unused" transmission capacity.</mdq>

Release processes

- 3+ years out for NTS and DN design purposes, investment decisions/ incentives
- 1 year out, further release incentives
- Within year

Tenders

NTS to tender for "anti-diurnal" product if necessary

Further consideration

- Tranching (annual, monthly, daily blocks)
- Zoning

(Consistent with primary NTS exit capacity product)

(2) Ramp rates and notice periods/ rate changes

Background

 Historically, ramp rate and notice period/ rate change limitations set via NExA, generally at time of connection, based on consumer requirements – hence differences across system



Rationale

- Ramp rates protect offtake equipment (e.g. orifice plates) and are thus essential where NTS owns the offtake equipment
- Both ramp rates and notice period/ rate change restrictions protect upstream equipment (especially compressors) from large and rapid pressure fluctuations that control equipment cannot cope with

(2) Ramp rates and notice periods/ rate changes

Future product

- Ramp rates only where NTS owns offtake facilities?
- Notice period and rate changes standardised?



Approaches to standardised notice periods/ rate changes