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01

Basis of Idea



Basis of Idea

The following elements have been considered in creating the idea for the NTS Bypass Avoidance Charge:

- Adjustment of capacity charges
- Based on CWD, most common reference price methodology in 0621 Mods
- Self limiting no distance cap, methodology/formula should restrict application
- Not available to storage sites
- No direct link to pipeline cost calculations, factor applied to make distance a non-linear formula element to represent varying costs
- User commitment through application process and non-use charges

02

Assumptions



Current Assumptions

- A UNC 0621 Mod has been in effect since October 2019 that features:
 - CWD using National Grid FCC from October 2021
 - No NTS Optional Commodity Charge exists after October 2021
- Yearly application product can be combined with a standard daily product with multiplier
- Additional element can be applied into the anticipated bookings process
- Technically available to all users (apart from storage)
- The level of charge derived provides enough incentive to avoid inefficient bypass

03

Methodology



Charge is intended to provide reduced entry and exit capacity charges at applicable points.

As with 0653, there is the need for defining an Applicable Quantity (Q) per gas day

- Q = MIN {CAPen, CAPex, FLOWen, FLOWex } where
- CAPen = User's entry capacity entitlement on the day at the applicable ASEP
- CAPex = User's exit capacity entitlement on the day at the applicable exit point
- FLOWen = User's gas flow entry allocation on the day at the applicable ASEP
- FLOWex = User's gas flow exit allocation on the day at the applicable exit point

Transmission Services charges or Non-Transmission Services charges will apply, as appropriate, to those capacities or gas flows not covered by the Applicable Quantity (Q)

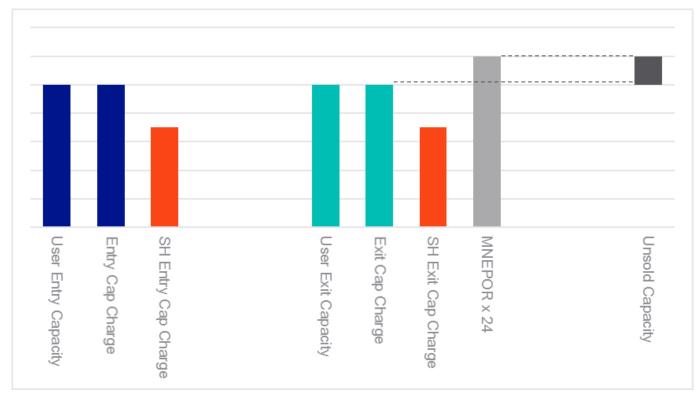
Reserve Charges for the Applicable Quantity:

Alternative Entry Capacity Charge = $((D \times Z) / WADen) \times RPen$ Alternative Exit Capacity Charge = $((D \times Z) / WADex) \times RPex$

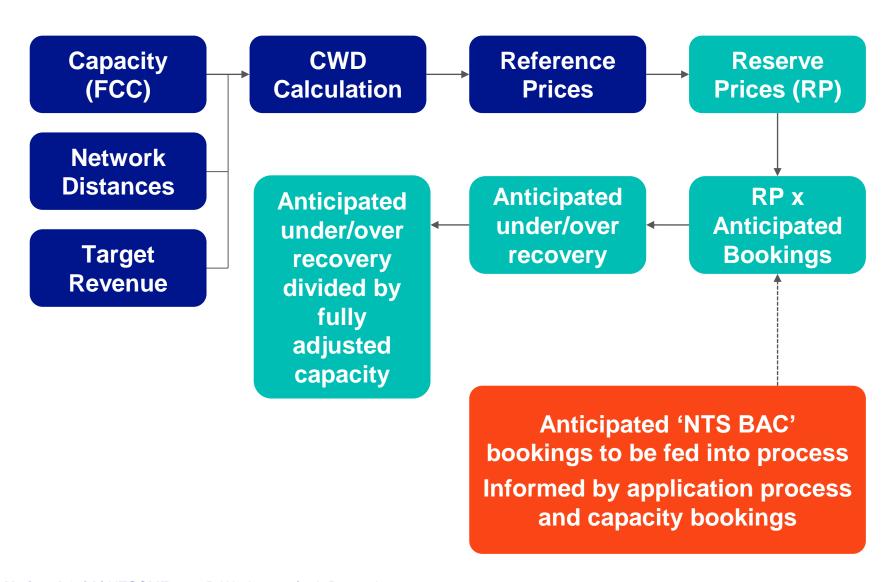
- D is the straight-line distance between the entry and exit point
- Z is a factor (yet to be determined) applied to D in order to reflect the likelihood of increased cost and complexity of pipeline projects over distance
- WADen is the capacity weighted average distance for the entry point
- WADex is the capacity weighted average distance for the exit point
- RPen is the prevailing capacity reserve price for the entry point
- RPex is the prevailing capacity reserve price for the exit point

If an independent pipeline was in operation, associated costs would be incurred regardless of capacity or flow on the day. A Nominal Charge could be applied to unsold capacity of exit point:

 NCQ = (Maximum NTS Exit Point Offtake Rate (MNEPOR) x 24) – (all Users CAPex)



Note: Graphical example, variance of SH charges not based on any calculation



04

Assessment



Proposed Assessment Criteria

- Reliant on FCC, therefore assumptions need to be made on change between obligated capacity baseline and FCC, influenced by behavioural changes anticipated from lack of zero priced capacity
- Analysis to be completed against a clear methodology that covers a range of scenarios – e.g. workgroup agreed variance in firm to interruptible/off-peak bookings
- Comparison of the potential impact on current users
- Check against relevant legislation for compliance