Connecting Coal Bed Methane to the NTS

Transmission Workstream 1st July 2010





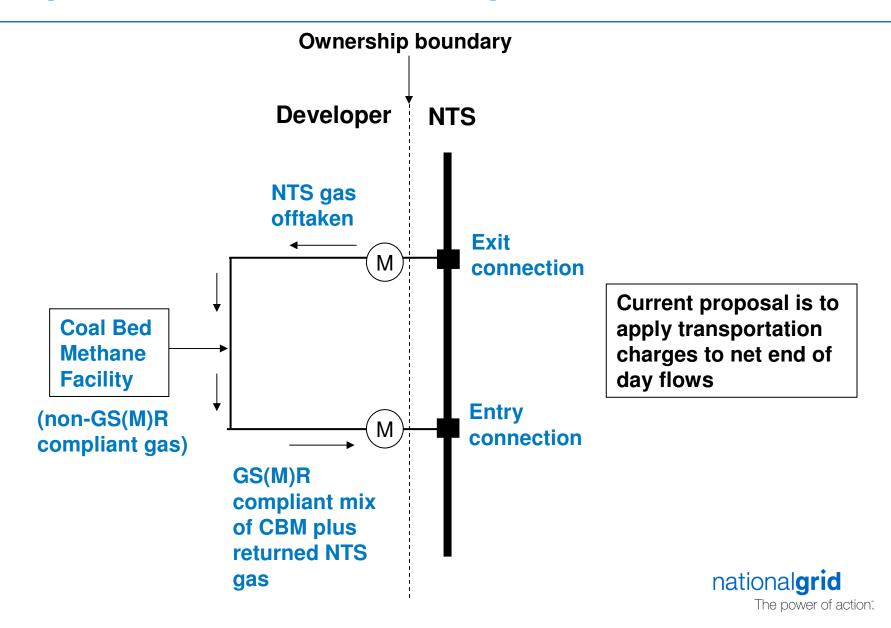








Proposed Connection Arrangement



Issue 1: Will the arrangement generate CV shrinkage?

- We do not expect additional CV shrinkage costs to be generated from the current connection enquiry
- We do not believe we have a remit to restrict gas that is legally compliant
- For new NTS entry connections we do not apply 'target'
 CVs, nor do we publish analysis on potential CV impacts
- We propose to treat the new CBM connection in the same way
- We may publish CV shrinkage impact assessments where an existing entry point wants to change its contractual gas quality limits

Issue 2: Project life vs Asset Life

- Due to the anticipated flows, we do not currently expect CBM connections to require significant NTS investment
- Even if we did, under the current rules, project life is not a consideration for capacity release
- We propose to treat this CBM connection in the same way any other new entry connection



Issue 3: How will the allocations work?

- EOD exit and entry measurements will be required
- Option 1: Two allocations per shipper 1 exit, 1 entry
 - Subtract one from the other to generate the chargeable quantity
- Option 2: One allocation per shipper, i.e. the net position
- Our current preference is for option 2
 - Sets an appropriate basis for other aspects to flow from, eg. system clearing and neutrality processes, nominations and charging
 - Expected to minimise system changes



Issue 4: What is the impact on daily energy accounting?

- We believe that the 'net' position should feed into shipper UDQI and UDQO for the day rather than the 'gross' quantities offtaken and delivered
 - Eg. if 3 units are offtaken and 4 units are entered by a shipper on a day, then the UDQI would be 1 unit and the UDQO zero.
 - 1 unit of 'throughput' would then feed into balancing neutrality
- The 'option 2' allocation mechanism would facilitate this

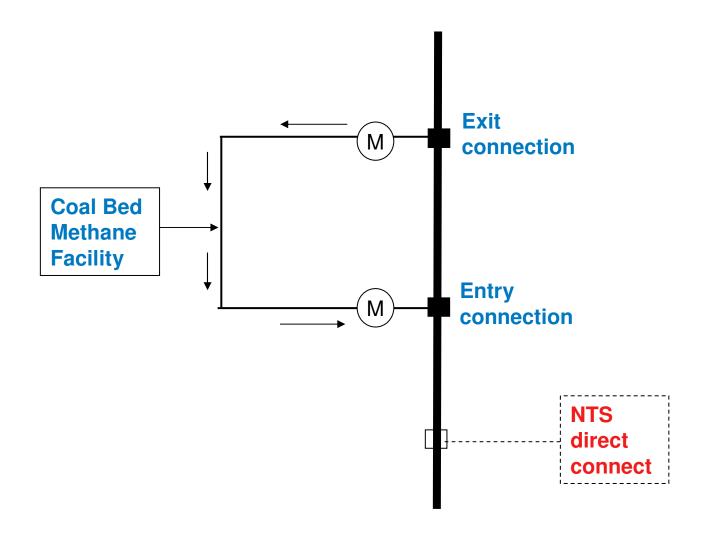


Issue 5: Will short-haul apply?

- Under allocation option 1, the CBM shipper could apply for short-haul but there would appear to be no commercial driver to do so
 - Short-haul could only apply for the NTS gas offtaken and returned (not to the net exit / entry flow) which we are proposing would attract nil commodity charges
 - Eg. if 3 units were offtaken and 4 entered, short-haul could only apply to 3 units, the net entry of 1 must be charged at standard entry commodity
- Under allocation option 2, short-haul could not be applied to the site
 - There would either be an exit allocation or an entry allocation but not both



Issue 5: Will short-haul apply? (cont'd)





Issue 5: Will short-haul apply? (cont'd)

- If gas were shipped from the CBM site to a local NTS direct connect load then short-haul could apply
- We believe that the entry quantity available for short-haul should be the 'net' entry position, not the 'gross' quantity entered
- The 'option 2' allocation mechanism would facilitate this
- Short-haul could not apply in this scenario if there was a net zero or net exit flow



Issue 6: Would the site be receiving a free blending service from National Grid?

- National Grid would provide two minimum connections in accordance with its standard terms
- We would not intend to take on any additional obligations, risks or rewards compared to any other connection
 - The availability of NTS gas at a suitable volume and quality is not guaranteed
 - The blending of NTS gas with CBM occurs off the NTS at the developer's risk



Issue 7: Would there be a cross subsidy from beach terminals?

- Upstream parties incur gas processing costs to achieve gas quality compliance
- The CBM site would appear to be benefiting from the processing carried out by third parties upstream
- However, we do not intend to restrict the availability of this arrangement, provided that others meet the UNC definition



Issue 8: How does this fit with National Grid's approach to the Bacton / IUK gas quality issue?

- A gas quality solution discussed in relation to Bacton for IUK imports entailed the provision of a blending/processing service and associated service obligations
- Under the CBM proposal, our involvement would be limited to the construction of two NTS connections – we would not be processing or blending any gas



Issue 9: Mod Proposal 0164

- Raised: July 2007 by CSL
- Purpose: "To stop Users of bi-directional points suffering capacity overrun charges when they have not exceeded their capacity physically"
- Issue: Where net physical flow at a bi-directional site is entry and a
 User requires an exit allocation (or vice-versa) the entry allocation has
 to be increased by the exit allocation amount, which increases the risk
 of overrun
- Proposed resolution: For overrun purposes, subtract the exit allocation from the entry allocation
- Withdrawn in Sept 2007: "the modification cannot be applied at entry zones which have multiple entry points"



Issue 9: Mod Proposal 0164

- Key learning point: UNC requires that aggregate exit or entry allocations at a point must equal the meter reading
 - Entry (TPD E2.1.7(b) and E1.4.1)
 - Exit (TPD E3.2.6 and E1.5.2)
- A net allocation process for the CBM site (option 2 in these slides) would appear not to comply with this principle



Issue 10: Could there be an adverse impact on balancing the NTS?

- Based on current CBM enquiries and preliminary design, this does not give us cause for concern
- If a compliant mix could not be achieved, only the CBM would be curtailed, not the NTS gas
- The pipework required is expected to have very limited linepack capability relative to the NTS



Issue 11: Should the UNC Mod Proposal cover DN networks as well as the NTS?

- In principle, we are not opposed to the CBM proposal being applied to the 'Total System'
- However, due to the timescales associated with the current CBM enquiry our preference would be to limit a Mod Proposal to an NTS application at this stage
- If DNs feel that there would be benefits in extending the arrangement, this could be achieved by a subsequent Mod Proposal



Issue 12: Commissioning gas

- If commissioning operations cause a net exit position, then exit charges will be levied
- The CBM site would be treated the same as any other minimum offtake undertaking commissioning flows



Issue 13: How does the proposal interact with the enduring exit regime?

- We believe that the exit point could be classed as a CSEP, downstream of which is a Connected Offtake System
 - Potentially add the facility definition to the list in TPD J1.4.4
 - NExA required (J1.5.2(a), J1.5.4(a))
- The capacity regime could apply as in respect of any other exit point:
 - Exit point recorded in our Licence with a zero baseline
 - NG has no obligation to make gas available for offtake until a shipper(s) makes a firm booking
 - Off peak product available as an alternative to firm



Issue 14: Is it possible for the site to have a net exit end of day position?

- This could result:
 - During commissioning
 - If no CBM is input on a day and the exit meter registers slightly more gas than the entry meter (i.e. due to NTS pressure fluctuations)
 - If a pipe break / gas escape occurs on the third party's pipework
- We have been informed that there is no possibility of the NTS gas being 'consumed' by the project



Way Forward

- Produce a comprehensive 'issues list', including:
 - Site definition
 - Capacity booking
 - Overruns
 - Allocation rules
 - Charging arrangements
 - Energy balancing etc.
- Draft business rules for each issue (July/Aug)
- Produce a draft Mod Proposal thereafter (Sept/Oct)

