TRANSCO PRICING DISCUSSION DOCUMENT PD11

2000 NTS Capacity Charge Re-balancing

SUMMARY

This discussion paper presents the proposed re-balancing of Transco's NTS capacity charges. Capacity charges have been calculated using Transcost in conjunction with the Long Run Marginal Cost (LRMC) methodology described in Transco's Transportation Charging Methodology.

The proposals are based around an average increase in NTS capacity charges of 0.7% and a planned 65:35 capacity commodity split.

The partial re-balancing is carried out in line with the methodology used for setting the October 1999 charges in that both 2000 and 1999 LRMCs are considered. Capacity charges are re-balanced only when a consistent change is demonstrated by both sets of LRMCs. Within this constraint re-balancing has been capped to a maximum increase of 11% and maximum decrease of -10%.

Re-balancing enables Transco to improve the cost reflectivity of NTS capacity charges, in line with the PGT Licence requirements.

1. INTRODUCTION

LRMC based capacity charges are intended to provide forward looking signals to system users, who are then able to make economically efficient investment decisions. Failure to re-balance National Transmission System (NTS) capacity charges in line with the LRMC signals diminishes the appropriateness of the charging signals provided.

The proposals are based around an average increase in NTS capacity charges of 0.7% and a planned 65:35 capacity commodity split.

The methodology used for calculating LRMC charges in 2000 remains unchanged from that used in 1999. The methodology is described in Section 3.2 of the Statement of Gas Transportation Charges from 1 October 1999. The tool used to calculate reinforcements over a ten year period is Transco's economic model specifically developed to support the setting of capacity charges, Transcost.

Although entry capacity has been allocated by means of monthly auctions since October 1999, there remains a need to update the administered charges on the previous basis. These administered charges are used to both establish entry capacity target revenue, and auction floor prices. In any case there will also be a need to set exit capacity charges from October.

2. TRANSCOST

Transcost is an economic model developed by Transco to support the setting of capacity charges for transporting gas on the NTS .

Transcost is designed to provide LRMCs and thus entry and exit charges which the whole industry can scrutinise. Transcost is also capable of estimating LRMCs for alternative supply and demand patterns relatively quickly and easily.

A free copy of Transcost, supporting documentation and the data used to calculate the 2000 LRMC reflective charges can be obtained by calling Transco on 0121 623 2142.

3. LRMC REFLECTIVE CHARGES

The 2000 LRMC reflective charges have been scaled to recover the 2000/01 NTS capacity charge target revenue, based upon the forecast 2000/01 peak day flow.

Changes in the balance of charges between two sets of LRMC results based on data from different years are expected since they reflect a changing pattern of potential capacity constraints on the pipeline system. The entry and exit charges relating to Transcost estimated 1999 and 2000 LRMCs are shown in Appendix 1.

The main changes between the 1999 and 2000 scaled LRMCs are as follows:

• The largest exit zone increase is at NT3 (up 0.0065 p/pdkwh/d). This is due to greater capacity constraints around the Peterborough and Huntingdon compressors. These constraints

have been caused by the assumption of increased supplies from Bacton through the European interconnector.

- The largest entry point increase is at Glenmavis (up 0.0026 p/pdkwh/d). This is due to increased St. Fergus flows along the western leg of the NTS in Scotland, and increasing LNG supplies from Glenmavis itself, over the forecast period.
- The largest decreases are for Seabank PG and Terra Severnside (down 0.0086 p/pdkwh/d) exit points. In general the western leg of the NTS south of Barrow is projected to be less constrained than before. This, in part, is due to reduced supply from the Barrow terminal, increased LNG supplies from Avonmouth and the introduction of compression at Nether Kellet.

4. PARTIAL REBALANCING

Transco proposes a partial re-balancing of NTS capacity charges in 2000, in line with established practice. In 1999 NTS capacity charges were only re-balanced if the 1999 and 1998 LRMC reflective charges provided a consistent signal as to the direction a particular charge should be moved. This partial re-balancing was felt necessary in order to give more stable charges from one year to the next. Such a process is still thought by Transco to be appropriate. The rules for the partial re-balancing are:

- If both LRMCs are at a higher level than the existing capacity charge, then the charge will be rebalanced to a level no greater than the minimum LRMC value.
- If both LRMCs are at a lower level than the existing charge, then the charge will be re-balanced to a level no lower than the maximum of the two LRMC values.
- Capacity charges that are already positioned between the two LRMCs will remain unchanged.
- The maximum levels by which a charge may be re-balanced are either an increase of 11% or a decrease of -10%.

Appendix 2 shows the proposed charges effective from 1 October 2000. The largest increase in capacity charges after applying the partial re-balancing, is SW3 (up 0.0027 p/pdkwh/d) at exit and Teesside (up 0.0005 p/pdkwh/d) at entry. The largest decreases are SW2 and Terra Severnside (both down 0.0022 p/pdkwh/d) at exit.

5. IMPACT

Re-balancing will have no effect on the average level of charges. However, it will create regional variations around the average. For a domestic load in SW3 the proposed exit re-balancing along with an average entry charge (assuming auction revenue in line with the NTS target) would result in an 8.0% increase in NTS charges. However, this is equivalent to only a 1.7% increase in total transportation charges to such a supply point.

6. CONCLUSION

Transco would welcome respondents' views on the degree of re-balancing proposed for implementation from October 2000 and the level of any cap on increased charges and collar on decreased charges.

Appendix One : Comparison of LRMCs Scaled to Target Revenue

				Scaled LRMC's	
			1999	2000	Change
Entry - Beach	Bacton		0.0007	0.0009	0.0002
	Easington / Rough		0.0029	0.0024	-0.0005
		dlethorpe	0.0012	0.0012	0.0000
	St Fergus		0.0213	0.0192	-0.0021
	Teesside		0.0064	0.0072	0.0008
	Barrow		0.0042	0.0027	-0.0015
Entry - Onshore Fields	Hatfie	ld Moors	0.0029	0.0027	-0.0002
		n Farm	0.0000	0.0000	0.0000
	Cayth		0.0035	0.0024	-0.0011
	-	n Point	0.0000	0.0000	0.0000
		House Farm	0.0002	0.0003	0.0001
Entry - Storage	Horns		0.0044	0.0038	-0.0006
y Giorage	Glenn		0.0072	0.0098	0.0026
	Partin		0.0008	0.0019	0.0011
Exit LDZ	EA1	Eastern	0.0038	0.0020	-0.0018
	EA2	Eastern	0.0092	0.0105	0.0013
	EA3	Eastern	0.0043	0.0029	-0.0014
	EA4	Eastern	0.0102	0.0113	0.0011
	EM1	East Midlands	0.0018	0.0062	0.0044
	EM2	East Midlands	0.0001	0.0010	0.0009
	EM3	East Midlands	0.0062	0.0073	0.0011
	EM4	East Midlands	0.0067	0.0057	-0.0010
	NE1	North East	0.0001	0.0001	0.0000
	NE2	North East	0.0001	0.0026	0.0025
	NE3	North East	0.0001	0.0010	0.0009
	NO1	Northern	0.0001	0.0001	0.0000
	NO2	Northern	0.0006	0.0023	0.0017
	NT1	North Thames	0.0161	0.0210	0.0049
	NT2	North Thames	0.0134	0.0133	-0.0001
	NT3	North Thames	0.0090	0.0155	0.0065
	NW1	North West	0.0053	0.0091	0.0038
	NW2	North West	0.0046	0.0046	0.0000
	SC1	Scotland	0.0001	0.0001	0.0000
	SC2	Scotland	0.0043	0.0039	-0.0004
	SC4	Scotland	0.0001	0.0013	0.0012
	SE1	South East	0.0112	0.0105	-0.0007
	SE2	South East	0.0161	0.0210	0.0049
	SO1	Southern	0.0087	0.0145	0.0058
	SO2	Southern	0.0172	0.0191	0.0019
	SW1	South West	0.0088	0.0066	-0.0022
		South West	0.0185	0.0102	-0.0083
	SW3	South West	0.0329	0.0283	-0.0046
		Wales	0.0068	0.0086	0.0018
		Wales	0.0165	0.0151	-0.0014
		West Midlands	0.0052	0.0058	0.0006
		West Midlands	0.0075	0.0066	-0.0009
	WM3	West Midlands	0.0079	0.0066	-0.0013

			(Scaled LRMC's	}
			1999	2000	Change
Exit - NTS Interruptible	106	Barking PG	0.0139	0.0142	0.0003
	l11	Brigg PG	0.0001	0.0005	0.0004
	l14	Connahs Quay PG	0.0056	0.0076	0.0020
	l17	Cottam PG	0.0001	0.0005	0.0004
	124	Hays Chemicals	0.0048	0.0042	-0.0006
	130	Little Barford PG	0.0055	0.0075	0.0020
	132	Medway PG	0.0095	0.0085	-0.0010
	134	Peterborough PG	0.0038	0.0020	-0.0018
	138	Roosecote PG	0.0013	0.0031	0.0018
	I41	Sellafield PG	0.0014	0.0031	0.0017
	146	Teesside PG	0.0001	0.0001	0.0000
	I10	Bridgewater Paper	0.0056	0.0076	0.0020
	162	Drakelow	0.0062	0.0066	0.0004
	163	Rolls Royce Ansty	0.0067	0.0077	0.0010
Exit - NTS Firm	102	AM Paper	0.0041	0.0032	-0.0009
	107	BASF Teesside	0.0001	0.0001	0.0000
	108	BP Grangemouth	0.0001	0.0008	0.0007
	109	BP Saltend (HP)	0.0001	0.0007	0.0006
	l21	Brimsdown PG	0.0131	0.0131	0.0000
	160	British Sugar Cantley	0.0038	0.0029	-0.0009
	l13	Brunner Mond	0.0048	0.0037	-0.0011
	l15	Corby PG	0.0067	0.0054	-0.0013
	I16	Coryton PG	0.0131	0.0081	-0.0050
	l18	Deeside PG	0.0056	0.0076	0.0020
	l19	Didcot PG	0.0122	0.0167	0.0045
	123	Great Yarmouth PG	0.0038	0.0019	-0.0019
	125	ICI Runcorn	0.0056	0.0076	0.0020
	126	Keadby PG	0.0001	0.0002	0.0001
	127	Kemira Ince	0.0056	0.0076	0.0020
	128	Kings Lynn PG	0.0038	0.0020	-0.0018
	129	Kingsnorth PG	0.0095	0.0085	-0.0010
	I31	Longannet PG	0.0001	0.0008	0.0007
	135	Peterhead PG	0.0001	0.0001	0.0000
	136	Phillips Seal Sands	0.0001	0.0001	0.0000
	137	Rocksavage PG	0.0056	0.0076	0.0020
	139	Rye House PG	0.0131	0.0131	0.0000
	I40	Saltend PG	0.0001	0.0007	0.0006
	158	Sappi Paper Mill	0.0053	0.0095	0.0042
	103	Seabank PG	0.0185	0.0099	-0.0086
	142	South Humber Bank PG	0.0001	0.0007	0.0006
	145	Sutton Bridge PG	0.0018	0.0032	0.0014
	147	Terra Billingham	0.0001	0.0001	0.0000
	I48	Terra Severnside	0.0185	0.0099	-0.0086
	I49	Thornton Curtis PG	0.0001	0.0007	0.0006
	149				
	150	Zeneca	0.0001	0.0001	0.0000
Exit - NTS Interconnectors	_				0.0000 -0.0019

Appendix Two: Comparison of May 2000 & Re-balanced October 2000 Charges

Entry - Beach			Capacity Charges			
Entry - Beach					Chan	
Entry - Reach			May-00	Oct-00	p/pdkwh/d	%
Lilliy - Deach	Bactor	ı	0.0007	0.0007	0.0000	0%
	Easing	ton / Rough	0.0022	0.0024	0.0002	9%
	Thedd	lethorpe	0.0012	0.0012	0.0000	0%
	St Ferg	gus	0.0209	0.0213	0.0004	2%
	Teessi	de	0.0047	0.0052	0.0005	11%
	Barro		0.0043	0.0043	0.0000	0%
	W					
Entry - Onshore Fields	Hatfield Moors		0.0022	0.0024	0.0002	9%
	Wytch		0.0000	0.0000	0.0000	0%
	Caytho	orpe	0.0018	0.0020	0.0002	11%
	Burton Point		0.0000	0.0000	0.0000	0%
	Hole House Farm		0.0003	0.0003	0.0000	0%
Entry - Storage	Hornse	ea	0.0022	0.0024	0.0002	9%
ļ	Glenm	avis	0.0082	0.0083	0.0001	1%
	Parting	gton	0.0008	0.0008	0.0000	0%
Exit LDZ	EA1	Eastern	0.0038	0.0039	0.0001	3%
	EA2	Eastern	0.0094	0.0096	0.0002	2%
	EA3	Eastern	0.0043	0.0044	0.0001	2%
	EA4	Eastern	0.0102	0.0104	0.0002	2%
	EM1	East Midlands	0.0022	0.0022	0.0000	0%
	EM2	East Midlands	0.0007	0.0007	0.0000	0%
	EM3	East Midlands	0.0060	0.0063	0.0003	5%
	EM4	East Midlands	0.0061	0.0062	0.0001	2%
	NE1	North East	0.0001	0.0001	0.0000	0%
	NE2	North East	0.0019	0.0019	0.0000	0%
	NE3	North East	0.0010	0.0010	0.0000	0%
	NO1	Northern	0.0001	0.0001	0.0000	0%
	NO2	Northern	0.0006	0.0006	0.0000	0%
	NT1	North Thames	0.0139	0.0154	0.0015	11%
	NT2	North Thames	0.0133	0.0135	0.0002	2%
	NT3	North Thames	0.0115	0.0117	0.0002	2%
	NW1	North West	0.0060	0.0061	0.0001	2%
ļ	NW2	North West	0.0079	0.0071	-0.0008	-10%
	SC1	Scotland	0.0001	0.0001	0.0000	0%
	SC2	Scotland	0.0007	0.0008	0.0001	14%
	SC4	Scotland	0.0001	0.0001	0.0000	0%
	SE1	South East	0.0112	0.0114	0.0002	2%
ļ	SE2	South East	0.0139	0.0154	0.0015	11%
	SO1	Southern	0.0133	0.0135	0.0002	2%
ļ	SO2	Southern	0.0184	0.0187	0.0003	2%
	SW1	South West	0.0121	0.0109	-0.0012	-10%
ļ	SW2	South West	0.0210	0.0188	-0.0022	-10%
ļ	SW3	South West	0.0261	0.0288	0.0027	10%
ļ	WA1	Wales	0.0114	0.0102	-0.0012	-11%
	WA2	Wales	0.0195	0.0175	-0.0020	-10%
	WM1	West Midlands	0.0079	0.0071	-0.0020	-10%
	WM2	West Midlands	0.0073	0.0076	-0.0004	-5%
	WM3	West Midlands	0.0000	0.0106	-0.0012	-10%

			Capacity Charges			
			May-00	Oct-00	Chan p/pdkwh/d	ige %
Exit - NTS Interruptible	106	Barking PG	0.0097	0.0107	0.0010	10%
	111	Brigg PG	0.0005	0.0005	0.0000	0%
	114	Connahs Quay PG	0.0104	0.0093	-0.0011	-11%
	117	Cottam PG	0.0005	0.0005	0.0000	0%
	124	Hays Chemicals	0.0023	0.0025	0.0002	9%
	130	Little Barford PG	0.0047	0.0052	0.0005	11%
	132	Medway PG	0.0095	0.0097	0.0002	2%
	134	Peterborough PG	0.0035	0.0036	0.0001	3%
	138	Roosecote PG	0.0017	0.0017	0.0000	0%
	141	Sellafield PG	0.0017	0.0017	0.0000	0%
	146	Teesside PG	0.0001	0.0017	0.0000	0%
	110	Bridgewater Paper	0.0104	0.0093	-0.0011	-11%
	162	Drakelow	0.0060	0.0093	0.0003	5%
	163	Rolls Royce Ansty	0.0039	0.0003	0.0003	10%
Exit - NTS Firm	103	AM Paper	0.0039	0.0045	0.0004	9%
LXII - INTOTIIII	102	BASF Teesside	0.0023	0.0023	0.0002	0%
	107		0.0001	0.0001	0.0000	0%
	108	BP Grangemouth BP Saltend (HP)	0.0001	0.0001	-0.0001	-10%
	121	` '				11%
	160	Brimsdown PG	0.0104	0.0115	0.0011	3%
		British Sugar Cantley	0.0038	0.0039	0.0001	
	113	Brunner Mond	0.0023	0.0025	0.0002	9%
	115	Corby PG	0.0039	0.0043	0.0004	10%
	116	Coryton PG	0.0104	0.0106	0.0002	2%
	118	Deeside PG	0.0104	0.0093	-0.0011	-11%
	119	Didcot PG	0.0113	0.0124	0.0011	10%
	123	Great Yarmouth PG	0.0038	0.0039	0.0001	3%
	125	ICI Runcorn	0.0106	0.0095	-0.0011	-10%
	126	Keadby PG	0.0001	0.0001	0.0000	0%
	127	Kemira Ince	0.0106	0.0095	-0.0011	-10%
	128	Kings Lynn PG	0.0035	0.0036	0.0001	3%
	129	Kingsnorth PG	0.0095	0.0097	0.0002	2%
	I31	Longannet PG	0.0001	0.0001	0.0000	0%
	135	Peterhead PG	0.0001	0.0001	0.0000	0%
	136	Phillips Seal Sands	0.0001	0.0001	0.0000	0%
	137	Rocksavage PG	0.0106	0.0095	-0.0011	-10%
	139	Rye House PG	0.0104	0.0115	0.0011	11%
	140	Saltend PG	0.0010	0.0009	-0.0001	-10%
	158	Sappi Paper Mill	0.0060	0.0061	0.0001	2%
	103	Seabank PG	0.0191	0.0188	-0.0003	-2%
	142	South Humber Bank PG	0.0010	0.0009	-0.0001	-10%
	145	Sutton Bridge PG	0.0017	0.0018	0.0001	6%
	147	Terra Billingham	0.0001	0.0001	0.0000	0%
	148	Terra Severnside	0.0219	0.0197	-0.0022	-10%
	149	Thornton Curtis PG	0.0005	0.0005	0.0000	0%
	150	Zeneca	0.0001	0.0001	0.0000	0%
Exit - NTS Interconnectors		Bacton I/C	0.0038	0.0039	0.0001	3%
	133	Moffat I/C	0.0001	0.0001	0.0000	0%