## Use Instructions

This BDS TRP is for carriers that establish PCIs, APIs, SBIs, and upper SBI limits at the study area level.

The holding company BDS TRP is for carriers that establish a PCI, API, SBIs, and upper SBI limits at the holding company level.

Current entries are illustrative. Use actual data and modify spacing as needed.

Enter data in cells marked 'Input'. Output fields yield values based on formulas and input data.

Enter rates as of January 1, 2019 in the relevant cells in the study area worksheet. This worksheet adjusts these rates by applying the category relationships unfreeze and net contributor/net recipient factors, as applicable. Only carriers in NECA's Traffic Sensitive pool in TP1819 have a net contributor/net recipient factor. Other carriers enter 1.0000 as the net contributor/net recipient factor in the relevant cell of this worksheet. Carriers that did not unfreeze their category relationships enter 1.0000 as the category relationships unfreeze factor in the relevant cell in this worksheet.

Enter average monthly demand for monthly recurring rate elements over the entire base period and annual demand for non-recurring rate elements for the base period in the study area worksheet to calculate the revenues used in the price cap formulas. The worksheet multiplies monthly revenues derived from monthly recurring rates and average monthly demand by 12 to obtain annual revenues.

The term discount plans in the study area worksheet are examples. If a carrier offers discount plans with other term lengths and/or discounts, revise the relevant column headings to reflect these other term lengths, and revise the relevant formulas to reflect these other discounts to calculate the revenues for these plans.

Carriers shall reflect any exogenous cost adjustment for TRS in the TRP for the annual filing if the final contribution factor is known by May 1. Otherwise, they shall reflect this exogenous cost change in rates to become effective October 1. In the latter case, the exogenous cost adjustment for TRS shall be "grossed up" to spread the entire adjustment over the remaining months in the tariff year. The exogenous cost adjustments for NANPA and regulatory fees shall be reflected in rates that take effect October 1, reflecting that these fees are obligations covering a fiscal year that begins October 1.

File Includes the following tabs: Exogenous Costs Factor Dev(elopment) Study Area TRP

null\Instructions 4/29/2019

Exogenous Costs
Filing Date: 06/17/19
Filing Entity:
Transmittal Number: XXXX
June 17, 2019 Title Title

Со	ntribution Factor Embedded in Existing Rates		Contribution Factors for Test Perio of the fili	d Rates (if new factors ng, enter existing facto		
Factor	Existing Factor Value (Illustrative)	Source FCC Order	Factor	Existing Factor Value (Illustrative)	Source FCC Order	Incremental Fee Per \$ Revenue
Reg Fee Factor:	0.00300		Reg Fee Factor:	0.00400		\$0.001000
TRS Factor:	0.03000		TRS Factor:	0.04000		\$0.010000
NANPA Factor:	0.0000400		NANPA Factor:	0.0000500		\$0.000010

					Input from 2019 I	FCC Form 499A						Incremental Exogen	ous Costs - BDS Non (	Competitive Services	
					Interstate Local Private Line and Business Data Services ("Special Access")	Interstate Gross Revenues	Total Gross Revenues	Interstate	Total Special Access Revenues Including Interstate	Total Special Access Portion of Interstate FCC Form	Revenues (including				Incremental Exogenous Costs for BDS Services
Holding Company ID	Holding Company Name	Study Area ID	Study Area Name	Line 403d	Line 406d	Line 420d	Line 420a	Surcharge Factor	Surcharge	499A	2018	Reg Fee Col 9	TRS Fee	NANPA Fee	(Z)
				Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8		Col 10	Col 11	Col 12
												Incremental		Incremental NANPA	
								6.1.1.7.6.1.2.6.1					Fee Per \$ Revenue		
Input	Input	Input	Input	Input	Input	Input	Input	Col 1 / (Col 3 - Col	Col 2 X (1 + Col 5)	Col 6 / Col 3	Input	Col 7 X Col 8	X Col 3 X Col 7 X Col	X COI 4 X COI 7 X COI	+ Col 11)
mput	mput	123456	Test Company	\$26,000.00				0.181805			0.927515	\$19.73	\$197.31	\$0.58	\$217.62

null\Exogenous Costs

Factor Dev
Filing Date: 06/17/19
Filing Entity:
Transmittal Number: XXXX
June 17, 2019 Title Title Title

 GDP-PI Q4 2017
 108.807
 https://apps.bea.gov/iTable/iTable.cfm?reqid=19&step=2

 GDP-PI Q4 2018
 111.134
 Table 1.1.4. Price Indexes for Gross Domestic Product (updated 3/28/19)

				relationship	did not unfreeze t s enter 1.0000 as t ps unfreeze factor	he category	Other carriers ent	er 1.0000 for the N	.7. let Contributor/Ne l 19.	t Recipient Factor in							
Holding Company ID	Holding Company Name	Study Area ID	Study Area Name	BDS Costs from Unfrozen 2018 Cost Study	BDS costs from Original (Frozen) 2018 Cost Study	Category Relationships Unfreeze Factor	7/1/18 - 12/31/18	Special Access Revenues 7/1/18 - 12/31/18	Difference Revenue - Settlements	Net Contributor / Net Recipient Factor	Productivity Factor (X Factor)	Percent Change in GDP-PI (GDP-PI)	Study Area Tab) (R)	Exogenous Costs for BDS Services (Z)	Revenues (w)	Jan. 1, 2019 PCI (PCl <sub>1/1/19</sub> )	Study Area Proposed PCI
				Col 13	Col 14	Col 15	Col 16	Col 17	Col 18	Col 19	Col 20	Col 21	Col 22	Col 23	Col 24	Col 25	Col 26
Input	Input	Input	Input	Input	Input	Col 13 / Col 14	Input	Input	Col 17 - Col 16	1 - (Col 18 / Col 17)	FCC 61.45(b)(1)(iv)	(GDP-PI Q4 2018 - GDP-PI Q4 2017) / GDP-PI Q4 2017	Sum Col 31 + Col	Col 12	(Col 22 + Col 23) / Col 22	Input	Col 25 X (1 + Col 24 X (Col 21 - Col 20) + Col 23 / Col 22)
			Test Company	\$1,250,000.00	\$1,000,000.00	1.2500	\$100,000.00	\$110,000.00	\$10,000.00		2.0000%	2.1386%	\$773,693.00		1.000281	100.0000	

null\Factor Dev

Study Area TRP Filing Date: 06/17/19 Filing Entity:

Transmittal Number: XXXX
June 17, 2019 Title Title Title

Study Area Code: Study Area Name: Category Relationship Unfreeze Factor: Net Contributor or Net Recipient Factor: Proposed PCI: 123456 Test Company 1.2500 0.9091 100.166824

	Study Are	ea Dashboard				Annual Recur	ring Revenue	Annual Non-rec	urring Revenue	Total Annual Revenue	
	Service Band	Jan. 1, 2019 Service Band Index (SBl <sub>1/1/19</sub> for Service Bands) or Jan. 1, 2019 Actual Price Index (API <sub>1/1/19</sub> for Total Basket)	Proposed Service Band Index (for Service Bands) or Proposed Actual Price Index (for Total	SBI Upper Limit (for Service Bands) or Proposed PCI (for Total Basket)	Pass if Proposed SBI Less Than or Equal to SBI Limit, or if Proposed API Less Than or Equal To Proposed PCI	At Adjusted Current Rates	At Proposed Rates	At Adjusted Current Rates	At Proposed Rates	At Adjusted Current Rates	At Proposed Rates
	Service band	Col 27	Col 28	Col 29	Col 30	Col 31	Col 32	Col 33	Col 34	Col 35	Col 36
				(Proposed PCI/PCI <sub>1/1/19</sub> ) x 1.05 (for Service Bands) or	Less Than Or	Sum of Recurring Charges at Adjusted	Sum of Recurring Charges at	Sum of Non- recurring Charges at	Sum of Charges at		
Line No.		I manual	(Col 36 / Col 35) X Col 27	= Proposed PCI (for Total Basket)	Equal To Col 29 To Pass	Current Rates X 12	Proposed Rates X 12	Adjusted Current Rates	Proposed Rates	Sum(Col 31 + Col 33)	Sum(Col 32 + Col 34)
1	Voice Grade, WATS, Metallic and Telegraph Special Access Services	Input 100.0000	100.0271	105.1752	Pass	\$47,560.50	\$56,025.00	\$153,410.00	\$145,000.00	\$200,970.50	\$201,025.00
2	Audio and Video Services	100.0000	100.1438	105.1752	Pass	\$30,685.50	\$33,750.00	\$45,455.00	\$42,500.00	\$76,140.50	\$76,250.00
3	DS1	100.0000	98.6745	105.1752	Pass	\$38,353.50	\$40,500.00	\$48,295.00	\$45,000.00	\$86,648.50	\$85,500.00
4	DS3	100.0000	97.5221	105.1752	Pass	\$46,021.50	\$47,250.00	\$51,136.00	\$47,500.00	\$97,157.50	\$94,750.00
5	High Capacity (DS1 and DS3) + DDS	100.0000	97.5221	105.1752	Pass	\$138,064.50	\$141,750.00	\$153,408.00	\$142,500.00	\$291,472.50	\$284,250.00
6	Wideband Data and Wideband Analog Services	100.0000	95.8320	105.1752	Pass	\$61,357.50	\$60,750.00	\$56,818.00	\$52,500.00	\$118,175.50	\$113,250.00
7	Total (Lines 1, 2, 5, 6 and Miscellaneous Charges)	100.0000	98.1042	100.1668	Pass	\$354,375.00	\$366,525.00	\$419,318.00	\$392,500.00	\$773,693.00	\$759,025.00

				Recu	rring Charge	S							
											Aver	age Monthly R	evenue
									TERM DISCOUNT PLAN	TERM DISCOUNT PLAN			
									Average Monthly Demand Over	Average Monthly Demand Over			
				Adimated Income	Proposed July	Percent Rate Change	Percent Rate		Base Period (Calendar Year	Base Period (Calendar Year			
Tariff				Adjusted January 2019 Tariffed Rate	2019 Tariff Rate	from Adjusted Current Rate	from Current			2018) In a 3-YR Term Plan			Difference
Referenc e	Tariff Rate Element	Service Category	Tariffed Rate (Current Rate)	(Adjusted Current Rate)	(Proposed Rate)	to Proposed Rate	Rate to Proposed Rate	(Calendar Year 2018)		Demand (10% Discount)	At Adjusted Current Rate	At Proposed Rate	Proposed - Adjusted Current
		Col 37	Col 38	Col 39	Col 40	Col 41	Col 42	Col 43	Col 44	Col 45	Col 46	Col 47	Col 48

Input	Input	Input	Input	Col 38 X Category Relationship Unfreeze Factor X Net Contributor or Net Recipient Factor	Input	(Col 40 / Col 39) - 1	(Col 40 / Col 38) - 1	Input	Input	Input	43) + (Col 39 X Col 44 X Appropriate Discount) + (Col 39 X Col 45 X Appropriate Discount))	43) + (Col 40 X Col 44 X Appropriate Discount) + (Col 40 X Col 45 X Appropriate Discount))	Col 47 - Col 46
	** VOICE GRADE SPECIAL ACCESS SVCS **	VG	·		•	-	-	·	·	•	1		
Example	Example Voice Grade Special Access Svc	VG	\$5.00		\$7.50	32.0%	50.0%	100	10	5			
				\$0.00		0.0%	0.0%				\$0.00		
				\$0.00 \$0.00		0.0%	0.0%				\$0.00 \$0.00	\$0.00 \$0.00	
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	
	** WATS SPECIAL ACCESS SVCS**	WATS		\$0.00		0.070	0.070				φ0.00	\$0.00	\$0.00
Example	Example WATS Special Access Svc	WATS	\$10.00	\$11.36	\$15.00	32.0%	50.0%	100	10	5	\$1,278.00	\$1,687.50	\$409.50
				\$0.00		0.0%	0.0%				\$0.00		
				\$0.00		0.0%	0.0%				\$0.00		
				\$0.00 \$0.00		0.0% 0.0%	0.0%				\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00
	** METALLIC SPECIAL ACCESS SVCS**	METAL		\$0.00		0.0%	0.0%				\$0.00	\$0.00	φ0.00
Example	Example Metallic Special Access Svc	METAL	\$15.00	\$17.05	\$17.50	2.6%	16.7%	100	10	5	\$1,918.13	\$1,968.75	\$50.63
·			· ·	\$0.00		0.0%	0.0%				\$0.00		
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	
	** TELEGRAPH SPECIAL ACCESS SVCS **	TGR		\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00
Example	Example Telegraph Special Access Svc	TGR	\$1.00	\$1.14	\$1.50	31.6%	50.0%	100	10	5	\$128.25	\$168.75	\$40.50
ZXGIIIPIC	Example relegiouply operativecess sive		<b>\$2.00</b>	\$0.00	<b>42.30</b>	0.0%	0.0%	100			\$0.00		
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00
Example	** AUDIO AND VIDEO SERVICES ** Example Audio and Video Special Access Svc	AV AV	\$20.00	\$22.73	\$25.00	10.0%	25.0%	100	10	5	\$2,557.13	\$2,812.50	\$255.38
Example	Example Addio and video Special Access Svc	AV	\$20.00	\$0.00	\$23.00	0.0%	0.0%	100	10		\$0.00		
				\$0.00		0.0%	0.0%				\$0.00		
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00
	** DS1 SPECIAL ACCESS SERVICES **	DS1	+25.00	+20.41	+20.00	F. 60/	20.00/	100	10	_	+2.106.12	+2 275 00	+170.00
Example	Example DS1 Special Access Svc	DS1	\$25.00	\$28.41 \$0.00	\$30.00	5.6% 0.0%	20.0%	100	10	5	\$3,196.13 \$0.00		
				\$0.00		0.0%	0.0%				\$0.00		
				\$0.00		0.0%	0.0%				\$0.00		
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00
	** DS3 SPECIAL ACCESS SERVICES **	DS3											
Example	Example DS3 Special Access Svc	DS3	\$30.00		\$35.00	2.7%	16.7%	100	10	5			
				\$0.00 \$0.00		0.0%	0.0%				\$0.00 \$0.00	\$0.00 \$0.00	
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00
	** DDS Services **	DDS		·							·		·
Example	Example DDS Special Access Svc	DDS	\$35.00		\$40.00	0.6%	14.3%	100	10	5	7 .7=0	\$4,500.00	
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	
				\$0.00 \$0.00		0.0%	0.0%				\$0.00 \$0.00	\$0.00 \$0.00	
		+		\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00
	** WIDEBAND DATA AND WIDEBAND ANALOG SVCS **	WIDE		Ψ0.00		0.076	0.076				φ0.00	φ0.00	φ0.00
Example	Example Wideband Special Access Svc	WIDE	\$40.00	\$45.45	\$45.00	-1.0%	12.5%	100	10	5	\$5,113.13	\$5,062.50	-\$50.63
				\$0.00		0.0%	0.0%				\$0.00		
				\$0.00		0.0%	0.0%				\$0.00		
				\$0.00 \$0.00		0.0%	0.0%				\$0.00 \$0.00	1	
				1 \$0.00		U.U%	U.U%				\$0.00	\$0.00	\$0.00

	** MISCELLANEOUS CHARGES **												
	(Access ordering, additional labor, etc.)	MISC											
Example	Example Miscellaneous Special Access Svc	MISC	\$50.00	\$56.82	\$55.00	-3.2%	10.0%	100	10	5	\$6,392.25	\$6,187.50	-\$204.75
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00
				\$0.00		0.0%	0.0%				\$0.00	\$0.00	\$0.00

## **Non-recurring Charges**

										Annual Revenue	s
Tariff Referenc e	Tariff Rate Element	Service Category	January 2019 Tariffed Rate (Current Rate)	Adjusted January 2019 Tariffed Rate (Adjusted Current Rate)	Proposed July 2019 Tariff Rate (Proposed Rate)	Percent Rate Change from Adjusted Current Rate to Proposed Rate	Percent Rate Change from Current Rate to Proposed Rate	Cumulative Demand Over Base Period (Calendar Year 2018)	At Adjusted Current Rate	At Proposed Rate	Difference Proposed - Adjusted Current
		Col 49	Col 50	Col 51	Col 52	Col 53	Col 54	Col 55	Col 56	Col 57	Col 58
Input	Input	Input	Input	Col 50 X Category Relationship Unfreeze Factor X Net Contributor or Net Recipient	Input	(Col 52 / Col 51) - 1	(Col 52 / Col 50) - 1	Input	Col 51 Y Col 55	Col 52 X Col 55	Col 57 - Col 56
IIIput	** VOICE GRADE SPECIAL ACCESS SVCS **	VG	IIIput	Net Recipient	прис	31,-1	30) - 1	прис	COI 31 X COI 33	COI 32 X COI 33	COI 37 - COI 30
Example	Example Voice Grade Special Access Svc	VG	\$300.00	\$340.91	\$325.00	-4.7%	8.3%	100	\$34,091.00	\$32,500.00	-\$1,591.00
		1	\$30.00	\$0.00		0.0%		100	\$0.00	\$0.00	\$0.00
				\$0.00		0.0%			\$0.00	\$0.00	\$0.00
				\$0.00		0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
	** WATS SPECIAL ACCESS SVCS**	WATS									
Example	Example WATS Special Access Svc	WATS	\$325.00	\$369.32		-5.2%		100	1 1	\$35,000.00	-\$1,932.00
				\$0.00		0.0%			\$0.00	\$0.00	\$0.00
				\$0.00		0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00		0.0%	0.0%		\$0.00	\$0.00	\$0.00
	** METALLIC SPECIAL ACCESS SVCS**	METAL		\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
Example	Example Metallic Special Access Svc	METAL	\$350.00	\$397.73	\$375.00	-5.7%	7.1%	100	\$39,773.00	\$37,500.00	-\$2,273.00
Example	Example Metallic Special Access Svc	METAL	\$330.00	\$397.73		0.0%	0.0%	100	\$39,773.00	\$37,300.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	1	0.0%	0.0%		\$0.00	\$0.00	\$0.00
		<del></del>		\$0.00		0.0%	0.0%		\$0.00	\$0.00	\$0.00
	** TELEGRAPH SPECIAL ACCESS SVCS **	TGR		ψ0.00	ψ0.00	0.070	0.070		ψ0.00	φ0.00	ψ0.00
Example	Example Telegraph Special Access Svc	TGR	\$375.00	\$426.14	\$400.00	-6.1%	6.7%	100	\$42,614.00	\$40,000.00	-\$2,614.00
			1	\$0.00		0.0%			\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
	** AUDIO AND VIDEO SERVICES **	AV									
Example	Example Audio and Video Special Access Svc	AV	\$400.00	\$454.55		-6.5%		100		\$42,500.00	-\$2,955.00
				\$0.00		0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	1	0.0%			\$0.00	\$0.00	\$0.00
				\$0.00		0.0%	0.0%		\$0.00	\$0.00	\$0.00
	** DS1 SPECIAL ACCESS SERVICES **	DS1		\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
Example	Example DS1 Special Access Svc	DS1 DS1	\$425.00	\$482.95	\$450.00	-6.8%	5.9%	100	\$48,295.00	\$45,000.00	-\$3,295.00
Liample	Lyampie D31 Special Access Svc	DSI	\$425.00	\$462.95		0.0%	0.0%	100	\$46,295.00	\$45,000.00	\$0.00
				\$0.00		0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00		0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00		0.0%	0.0%		\$0.00	\$0.00	\$0.00
	** DS3 SPECIAL ACCESS SERVICES **	DS3									

Example	Example DS3 Special Access Svc	DS3	\$450.00	\$511.36	\$475.00	-7.1%	5.6%	100	\$51,136.00	\$47,500.00	-\$3,636.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
	** DDS Services **	DDS									
Example	Example DDS Special Access Svc	DDS	\$475.00	\$539.77	\$500.00	-7.4%	5.3%	100	\$53,977.00	\$50,000.00	-\$3,977.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
	** WIDEBAND DATA AND WIDEBAND ANALOG SVCS **	WIDE									
Example	Example Wideband Special Access Svc	WIDE	\$500.00	\$568.18	\$525.00	-7.6%	5.0%	100	\$56,818.00	\$52,500.00	-\$4,318.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
	** MISCELLANEOUS CHARGES **										
	(Access ordering, additional labor, etc.)	MISC									
Example	Example Miscellaneous Special Access Svc	MISC	\$90.00	\$102.27	\$100.00	-2.2%	11.1%	100	\$10,227.00	\$10,000.00	-\$227.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00
				\$0.00	\$0.00	0.0%	0.0%		\$0.00	\$0.00	\$0.00