

NATIONAL EXCHANGE CARRIER ASSOCIATION  
COMMON LINE DEMAND TRENDS

VOLUME 3  
EXHIBIT 1  
Workpaper 1 OF 1

COMPANY: AVG SCHEDULE & COST

	<u>PYCOS 2019</u>	<u>2020/2021 Test Period</u>	<u>GROWTH RATE</u>
<b>COMMON LINE POOL MEMBERS</b>			
TOTAL CPT*	1,415,620	1,271,500	-6.9%
Monthly Residence Line CPT	1,075,839	958,779	-7.4%
Monthly Single Line Business CPT	70,230	64,941	-5.1%
Monthly Multi Line Business CPT	269,551	247,780	-5.5%
BRI ISDN Arrangements	242	229	-3.6%
PRI ISDN Arrangements	2,323	2,248	-2.2%
DS1 Arrangements	234	240	1.7%
SAS CHANNELS	5	6	12.9%
<b>END USER TARIFF MEMBERS</b>			
TARIFF MEMBER CPT*	1,406,794	1,263,443	-6.9%
Monthly Residence Line CPT	1,070,432	953,934	-7.4%
Monthly Single Line Business CPT	69,668	64,421	-5.1%
Monthly Multi Line Business CPT	266,694	245,088	-5.5%
BRI ISDN Arrangements	242	229	-3.6%
PRI ISDN Arrangements	2,294	2,219	-2.2%
DS1 Arrangements	234	240	1.7%
SAS CHANNELS	5	6	12.9%
<b>NON-END USER TARIFF MEMBERS</b>			
NON-TARIFF MEMBER CPT	8,826	8,057	-5.9%
Monthly Residence Line CPT	5,407	4,845	-7.1%
Monthly Single Line Business CPT	562	520	-5.0%
Monthly Multi Line Business CPT	2,857	2,692	-3.9%
BRI ISDN Arrangements	0	0	NA
PRI ISDN Arrangements	29	29	0.0%
DS1 Arrangements	0	0	NA
SAS CHANNELS	0	0	NA
<b>CBOL TARIFF MEMBERS</b>			
Consumer Broadband-only Loops	240,951	369,476	33.0%

\* Excludes 751 Unbunbled Network Element (UNE) CPT in PYCOS 2019 and 744 UNE CPT in 2020/2021 Test Period.

NATIONAL EXCHANGE CARRIER ASSOCIATION  
CAF ICC DATA COLLECTION SUMMARY

VOLUME 3  
EXHIBIT 2  
Workpaper 1 OF 1

COMPANY: AVG SCHEDULE & COST

	<u>FY 2019*</u>	<u>2020/2021 Test Period</u>	<u>Annualized Growth Rate</u>
<b>TRAFFIC SENSITIVE POOL MEMBERS</b>			
<b>MOU Projections</b>			
Interstate MOU	2,078,964,955	1,698,404,548	-10.9%
Intrastate MOU**	1,215,705,512	1,140,328,875	-3.6%
Recip. Comp. Originating MOU***	NA	16,743,868	NA
Recip. Comp. Terminating MOU***	NA	31,230,024	NA
<b>Access Lines Projections***</b>			
Residence CPT Excluding Lifeline CPT	NA	1,337,025	NA
Single-Line Business CPT	NA	94,059	NA
Multi-Line Business CPT	NA	358,649	NA

\* Fiscal year 2019 is a time period from October 1, 2018 through September 30, 2019.

\*\* For the companies which didn't provide FY 2019 data, settlement is used.

\*\*\* Demand for FY 2019 was not collected in 2020 CAF ICC data collection.

**NATIONAL EXCHANGE CARRIER ASSOCIATION  
 RATE DEVELOPMENT & COST ANALYSIS  
 SPECIAL ACCESS DEMAND TRENDS**

**VOLUME 3  
 EXHIBIT 3  
 WORKPAPER 1 OF 2**

**COST AND AVERAGE SCHEDULE  
 TOTAL NECA POOL - GROUP B,C,D**

LINE DESCRIPTION	2019 AVERAGE MONTHLY DEMAND	2020/2021 TEST PERIOD FORECAST	2020/2021 TEST PERIOD ANNUAL GROWTH
2W VG - CT <sup>1</sup>	107	80	-17.7%
2W VG - CMF <sup>1</sup>	3,124	2,331	-17.7%
2W VG - CMT <sup>1</sup>	152	113	-17.7%
2W VG - CIRCUITS <sup>1</sup>	82	61	-17.7%
4W VG - CT <sup>1</sup>	371	277	-17.7%
4W VG - CMF <sup>1</sup>	2,215	1,653	-17.7%
4W VG - CMT <sup>1</sup>	198	148	-17.7%
4W VG - CIRCUITS <sup>1</sup>	285	213	-17.7%

<sup>1</sup> INCLUDES WATS

**NATIONAL EXCHANGE CARRIER ASSOCIATION  
RATE DEVELOPMENT & COST ANALYSIS  
SPECIAL ACCESS DEMAND TRENDS**

**VOLUME 3  
EXHIBIT 3  
WORKPAPER 2 OF 2**

COST AND AVERAGE SCHEDULE  
TOTAL NECA POOL - GROUP B,C,D

LINE DESCRIPTION	2019 AVERAGE MONTHLY	2020/2021 TEST PERIOD	2020/2021 TEST PERIOD ANNUAL
HI CAP 1.544 - CT <sup>1</sup>	13,812	11,370	-12.2%
3 YEAR DISCOUNT CT	365	301	-12.2%
5 YEAR DISCOUNT CT	4,453	3,666	-12.2%
HI CAP 1.544 - CMF <sup>1</sup>	111,663	91,920	-12.2%
HI CAP 1.544 - CMT <sup>1</sup>	13,167	10,839	-12.2%
HI CAP 1.544 - CIRCUITS <sup>1</sup>	9,865	8,121	-12.2%
HI CAP 44.736 - CT <sup>2</sup>	254	200	-14.7%
3 YEAR DISCOUNT CT	16	13	-14.7%
5 YEAR DISCOUNT CT	75	59	-14.7%
HI CAP 44.736 - CMF <sup>2</sup>	5,147	4,054	-14.7%
HI CAP 44.736 - CMT <sup>2</sup>	339	267	-14.7%
HI CAP 44.736 - CIRCUITS <sup>2</sup>	182	143	-14.7%
SONET OC3 - CT	20	19	-2.7%
SONET OC3 - CMT	15	15	-1.4%
SONET OC3 - CMF	572	554	-2.1%
SONET OC3 - CIRCUITS	14	14	-2.7%
ETS Basic Port, 10 Mbps	527	586	7.4%
ETS Channel Termination, 10 Mbps, (300+ feet)	289	322	7.4%
ETS EVC, Interswitch, 10 Mbps	22	24	7.4%
ETS Basic Port, 50 Mbps	351	391	7.4%
ETS Channel Termination, 50 Mbps, (300+ feet)	233	259	7.4%
ETS EVC, Interswitch, 50 Mbps	11	12	7.4%
ETS Basic Port, 100 Mbps	754	839	7.4%
ETS Channel Termination, 100 Mbps, (300+ feet)	583	649	7.4%
ETS EVC, Interswitch, 100 Mbps	94	105	7.4%

<sup>1</sup> Includes counts for DS1 3 year & 5 year discount plans.

<sup>2</sup> Includes counts for DS3 3 year & 5 year discount plans.

**VOLUME 3**

**APPENDIX A**

**2020 FORECAST LINE COUNT DATA COLLECTION**

## **2020 Forecast Line Count Data Collection**

(For All Common Line Pool Participants)

DIRECT QUESTIONS TO:  
Roman Sysuyev  
Phone: (973) 884-8441  
E-mail: [rsysuyev@neca.org](mailto:rsysuyev@neca.org)

**ACCESS CHARGE TARIFF DEMAND DATA**  
**ITEM DESCRIPTION**

Company Name \_\_\_\_\_

Holding Company Name \_\_\_\_\_

Study Area Code (6 digits) \_\_\_\_\_

Contact Name \_\_\_\_\_

Contact Telephone Number \_\_\_\_\_

**GENERAL INSTRUCTIONS AND DESCRIPTIONS  
OF DATA ITEMS**

**Main Page**

The purpose of this data request is to collect study area level lines and Consumer Broadband Only Loop (CBOL) counts that NECA will use to set rates and file data used by USAC to develop Connect America Fund Broadband Loop Support (CAF BLS) for the July 1, 2020- June 30, 2021 test period. Following the requirements of the FCC's USF Reform Order released on December 13, 2018, the data will also be used to initialize the mandatory annual FCC Form 507 filing due by March 31, 2020.

To accommodate the requirements of the Order, the data are requested for historical and projected year-end access line counts as of December 31, 2019, December 31, 2020, and December 31, 2021. This data request also collects projected test period July 1, 2020– June 30, 2021 monthly average broadband-only loop counts from average schedule companies.

If you need assistance developing forecasted line counts for December 2020 and December 2021, you can consult the forecasts developed by NECA based on settlements data and last year's Annual Forecast Line Count Data Request inputs. NECA's forecasts can be obtained from your regional manager. Ultimately, your company is responsible for the line and loop count forecasts submitted to NECA in this Forecast Line Count Data Request.

To set rates for the 2020 Annual Access Tariff Filing, NECA requests that companies supply line and loop count information for the following:

- Residential Customer Premise Terminations (CPTs) - (Exclude Centrex, ISDN, & Lifeline Assistance CPTs)
- Lifeline CPTs
- Single Line Business CPTs - (Exclude ISDN)
- Multi-line Business Customer CPTs - (Exclude Centrex, ISDN and DS1 Channel Service Arrangements)
- Centrex residence and dormitory CPTs
- Centrex business CPTs

- Basic Rate Interface ISDN
- Primary Rate Interface ISDN (report arrangements, not access lines equivalent)
- DS1 Channel Line Arrangements (report arrangements, not access lines equivalent)
- Special Access Surcharge Channels

Companies that set their own SLC rates are asked to enter those rates into the following two fields:

- Residential and Single Line Business Rates
- Multi-line Business Rates

Companies using NECA's SLC rates are asked to indicate that NECA sets their SLC rates.

Average Schedule companies are required to enter projected average monthly Consumer Broadband-only Loop counts for the test period from July 1, 2020 to June 30, 2021.

**Special Instructions for Companies Having Fewer than 5,000 Residential/Single-Line Business Lines**

Companies with fewer than 5,000 access lines have an alternative option for reporting single and multi-line counts.

If your company chooses this option, please follow the following instructions:

- **Single-Lines**  
Report the sum of Residential Single CPTs, Single Line Business CPTs, Lifeline CPTs, Residential Centrex CPTs, and BRI ISDN Arrangements.  
  
(Note: The double counting of lines should be avoided. For example, it is assumed that Lifeline CPTs are NOT also counted in Residential Single CPTs.)
- In all cases, positive line count information must be placed in the residential CPTs Data Line #1010. However, in those cases where forecasts are not available for future time periods, it is acceptable to copy the historic period (Dec. 31, 2019 value into the two forecast period cells (for 2020 and 2021).
- **Multi-Lines**  
Report the sum of multi-line business CPTs, business Centrex CPTs, PRI ISDN

arrangements (with that item scaled by a factor of 5) and the DS1 Channel Service Arrangements (with that item also scaled by a factor of 5) into the columns of Data Line #1020.

- In those cases where forecasts are not available for future time periods, it is acceptable to copy the historic period (Dec. 31, 2019) value into the two forecast period cells (for 2020 and 2021).

Please Note: By aggregating your line count data on this website, you will automatically preclude your company from selecting the MLB FUSC Rate Banding Option in the upcoming annual filing. This is because the "minimal" two categories of line data on this website will not provide enough information to enable NECA to set up an MLB FUSC band option for your company.

If your company wishes to select the MLB FUSC Rate Banding Option and has a positive Business Centrex CPT count, you should report Business Centrex CPTs where indicated and exclude that number from the total multi-line count within this data request. If you enter 0 lines for Business Centrex CPTs, you will not be eligible for the MLB FUSC Rate Banding Option.

NATIONAL EXCHANGE CARRIER ASSOCIATION  
FORECAST LINE COUNT DATA COLLECTION

CPT Counts Section

COMMON LINE END USER ELEMENTS	Actual Amounts		Forecasted Amounts	
	Data Line	Dec. 31, 2019	Dec. 31, 2020	Dec. 31, 2021
Description				
Resident Customer Premises Terminations – <u>CPTs (Exclude Centrex, ISDN &amp; Lifeline Assistance)</u>	1010			
Lifeline Assistance Customer Premises Terminations – <u>CPTs</u>	1011			
Single-Line Business Customer Premises Terminations – <u>CPTs (Exclude ISDN and mobile telephone)</u>	1012			
Multi-Line Business Customer Premises Terminations – <u>CPTs (Exclude Centrex, total Payphone lines, ISDN and company officials)</u>	1020			
Number of <i>Centrex CPTs</i> (Residential/Dormitory)	1021			
Number of <i>Centrex CPTs</i> (Business)	1022			
Number of total <b>Payphone</b> Lines	1025			
Number of <b>Payphone</b> Lines that are assessed FUSC	1026			

**NATIONAL EXCHANGE CARRIER ASSOCIATION  
FORECAST LINE COUNT DATA COLLECTION**

**BRI and PRI Arrangements Section**

<b>COMMON LINE END USER ELEMENTS</b>	<b>Actual Amounts</b>		<b>Forecasted Amounts</b>	
	<b>Data Line</b>	<b>Dec. 31, 2019</b>	<b>Dec. 31, 2020</b>	<b>Dec. 31, 2021</b>
Description				
Number of BRI (Basic Rate Interface) – ISDN <u>Arrangements</u>	1030			
Number of PRI (Primary Rate Interface) - ISDN <u>Arrangements</u>	1040			
Number of DS1 Channel Service <u>Arrangements</u>	1045			

**Special Access Channels Section**

<b>COMMON LINE END USER ELEMENTS</b>	<b>Actual Amounts</b>		<b>Forecasted Amounts</b>	
	<b>Data Line</b>	<b>Dec. 31, 2019</b>	<b>Dec. 31, 2020</b>	<b>Dec. 31, 2021</b>
Description				
Special Access Surcharge <u>Channels</u>	1050			
Unbundled Network Elements Loop <u>UNE</u>	1055			

**CBOL Counts Section**

<b>Description</b>	<b>Data Line</b>	<b>Forecasted Counts</b>
		July 1, 2020-June 30, 2021
Forecasted Average Monthly CBOL Counts for the Test Period <b>July 1, 2020-June 30, 2021</b>	1100	

**NATIONAL EXCHANGE CARRIER ASSOCIATION  
FORECAST LINE COUNT DATA COLLECTION**

**For companies Filing their own End User Tariffs**

**SLC Rates Section**

(Please select one)

NECA sets rates

My company sets rates

**Please Indicate your SLC Rates for:**

Description	Data Line	Current Rate	Proposed Rate for Test Period Starting July 1, 2020
Residential and Single Line Business Rates*	2010		
Multi-Line Business Rates**	2020		

(\*) The current rate for Residential/ Single-Line Business EUCL is capped at \$6.50 and the proposed rate for Residential/Single-Line Business EUCL is capped at \$6.50.

(\*\*) The rate cap for Multi-line Business is \$9.20.

**Comments Section (optional)**

Please use the space below for any comments that would be helpful relating to any of your data entry activities on this website for (your telephone company).

**END USER COMMON LINE QUANTITIES  
FORECAST LINE COUNT DATA COLLECTION  
DEFINITIONS**

<u>Data Line</u>	<u>Description</u>
<u>Definition</u>	Customer Premises Termination ( <b>CPT</b> ): CPTs are commonly referred to as “ <u>Main Station Equivalents</u> ” or “ <u>Billable Units</u> ”. A CPT is a line termination at the customer’s premises.
<u>Data Line</u>	<u>Description</u>
1010	<u>Residence Customer Premises Terminations (CPTs)</u>  The number of residence CPTs, as of Dec. 31 <sup>th</sup> each year that are assessed the residence interstate end user common line (EUCL) charge. If your company offers multi-party service, the number of CPTs will be greater than the number of access lines. If your company does not offer multi-party service, the number of CPTs will equal the number of access lines. <u>Lifeline CPTs, Centrex and ISDN assessed EUCLs should be excluded.</u> Here are three examples of how to count residence CPTs:  Example 1: One single-party residence access line = one residence CPT.  Example 2: One multi-party residence access line terminating at two customer premises locations (“bridged in field”) = two residence CPTs.  Example 3: Two single-party residence access lines terminating at one customer premises = two residence CPTs.
1011	<u>Lifeline Assistance Customer Premises Terminations (CPTs)</u>  The number of lifeline assistance service lines as of Dec. 31 <sup>th</sup> of each year.
1012	<u>Single-Line Business Customer Premises Terminations (CPTs)</u>  The number of single-line business CPTs, as of September 30 <sup>th</sup> each year that are assessed the single line business interstate EUCL charge. Refer to the residence CPT examples above. <u>Exclude ISDN services, and mobile telephone.</u>

**END USER COMMON LINE QUANTITIES  
FORECAST LINE COUNT DATA COLLECTION**

<u>Data Line</u>	<u>Description</u>
1020	<p><b><u>Multi-Line Business Customer Premises Terminations (CPTs)</u></b></p> <p>The number of Multi-Line Business CPTs as of Dec. 31<sup>th</sup> each year that are assessed the multi-line business interstate EUCL charge. A CPT is a line termination at the customer's premises. If your company offers multi-party, multi-line business service, the number of CPTs will be greater than the number of multi-line business access lines. If your company does not offer multi-party multi-line business service, the number of CPTs will equal the number of multi-line business access lines. . Exclude <u>ISDN, Centrex, total Payphone lines and company official lines.</u></p> <p>Here are four examples of how to count multi-line business CPTs.</p> <p>Example 1: Two single-party multi-line business access lines = two multi-line business CPTs.</p> <p>Example 2: Ten PBX trunks = ten multi-line business CPTs.</p> <p>Example 3: Five single-party multi-line business access lines terminating at one customer premises location = five multi-line business CPTs.</p> <p>Example 4: Two key system lines = two multi-line business CPTs.</p>
1021	<p><b><u>Residential (incl. Dormitory) Centrex Customer Premises Terminations (CPTs)</u></b></p> <p>The number of Residential/Dormitory Centrex CPTs as of Sept 30<sup>th</sup> each year that are assessed the single line interstate EUCL charge. Centrex service is a local exchange service, provided by a telephone company system located in a telephone company central office, which controls the switching of:</p> <ul style="list-style-type: none"><li>▪ Calls from the exchange network to the Centrex lines</li><li>▪ Calls from the Centrex lines to the exchange network</li><li>▪ Intercommunicating calls between Centrex lines.</li></ul>

**END USER COMMON LINE QUANTITIES  
FORECAST LINE COUNT DATA COLLECTION**

<u>Data Line</u>	<u>Description</u>
1022	<p><u>Business <b>Centrex</b> Customer Premises Terminations (CPTs)</u></p> <p>The number Business Centrex CPTs as of Sept 30<sup>th</sup> each year that are assessed the multi-line business interstate EUCL charge. Centrex service is a local exchange service, provided by a telephone company system located in a telephone company central office, which controls the switching of:</p> <ul style="list-style-type: none"><li>▪ Calls from the exchange network to the Centrex lines</li><li>▪ Calls from the Centrex lines to the exchange network</li><li>▪ Intercommunicating calls between Centrex lines.</li></ul>
1025	<p><u>Total Payphone Lines</u></p> <p>The number of Payphone lines as of September 30th each year.</p> <p>Total Number of Payphone Service Provider (PSP) lines. This number includes all PSP line counts regardless of whether the lines are assessed Federal Universal Charge (FUSC) or not. PSP customers who do not contribute directly to USF are subject to the standard FUSC surcharge on MLB EUCL charges rather than the higher surcharge under optional MLB EUCL FUSC rate banding, therefore the number of PSP lines has to be separated out from the MLB count (line 1020).</p>
1026	<p><u>Payphone Lines that are assessed FUSC</u></p> <p>The number of Payphone lines as of Dec. 31<sup>th</sup> each year that are assessed Federal Universal Service Charge (FUSC) because the PSP customer does not contribute directly to USF (i.e., the PSP is de minimis under the FCC's contribution rules). This line count is part of the total Payphone line count.</p> <p>Starting year 2010, this is a separate field. Because PSP customers who contribute directly to USF are not assessed FUSC, the lines that are assessed FUSC have to be reported separately from the total Payphone lines count (line 1025).</p>

**END USER COMMON LINE QUANTITIES  
FORECAST LINE COUNT DATA COLLECTION**

<u>Data Line</u>	<u>Description</u>
1030	<p><b><u>Basic Rate Interface (BRI) ISDN Arrangements</u></b></p> <p>The number of BRI ISDN arrangements as of Sept 30<sup>th</sup> each year. Each BRI ISDN arrangement is capable of deriving up to 2 voice channels and one data channel. <u>You need to enter the “number of arrangements” on this line, <b>not</b> the number of EUCL charges that will be billed.</u></p> <p>NECA Tariff no. 5 requires <u>one</u> Residence or <u>one</u> Single-Line Business EUCL charge to be assessed for each BRI ISDN arrangement/service.</p> <p>Example: If there are three Residence or Single-Line Business BRI ISDN arrangements/services, then enter 3 in line 1030.</p>
1040	<p><b><u>Primary Rate Interface (PRI) ISDN Arrangements</u></b></p> <p>The number of PRI ISDN arrangements as of Dec. 31<sup>th</sup> each year. Although capable of deriving up to 23 voice channels and one data channel from each PRI ISDN, each PRI ISDN arrangement is counted only once for purposes of this data collection. <u>You need to enter the “number of arrangements” on this line, <b>not</b> the number of EUCL charges that will be billed.</u></p> <p>NECA Tariff No. 5 requires <u>five</u> Multi-Line business EUCL charges be assessed for each PRI-ISDN arrangement.</p> <p>Example: If there are 2 PRI ISDN arrangements/services, enter 2 in line 1040.</p>
1045	<p><b><u>DS1 Channel Service Arrangements</u></b></p> <p>The number of DS1 Channel Service arrangements as of Dec. 31<sup>th</sup> each year. The DS1 channel service is an arrangement under which an end user is provided a DS1 (1.544 Mbps) local exchange service by the Telephone Company under the general and/or local exchange tariff(s), and where the end user provides terminating channelization equipment. <u>You need to enter the “number of arrangements” on this line, <b>not</b> the number of EUCL charges that will be billed.</u></p> <p>NECA Tariff No. 5 requires <u>five</u> Multi-Line business EUCL charges be assessed for each DS1 Channel Service arrangement.</p> <p>Example: If there are 2 DS1 Channel Service arrangements/services, enter 2 in line 1045.</p>

**END USER COMMON LINE QUANTITIES  
FORECAST LINE COUNT DATA COLLECTION**

Data Line      Description

1050      Number of Special Access Surcharge Channels

The average number of working interstate private line facilities as of Dec. 31<sup>th</sup> each year connected to a PBX, Centrex CO, Centrex CO-Type or other device capable of interconnecting the private line facility to the local exchange network. The surcharge applies to the closed-end termination of a circuit.

The surcharge applies on a voice grade equivalent basis as shown in the following example:

<u>Special Access Facility</u>	<u>Voice Grade Equivalent</u>		<u>Surcharge</u>	=	<u>Monthly Charge</u>
Voice Grade	1	x	\$25	=	\$ 25
DS1	24	x	\$25	=	\$600

1055      Unbundled Network Elements Loop

The number of working 1.3 Loops exclusively provided as Unbundled Network Elements (UNE) to carriers for the provision of local exchange service as of Dec. 31<sup>th</sup> of each year. Please note that line-share UNEs (when, for example, your company uses the lines to provide voice service and bills them as UNE to CLEC providing DSL) SHOULD NOT be included in this field to avoid double counting.

DO NOT include the loops listed in this item in any other categories.

1100      Consumer Broadband Only Loop (CBOL)

CBOL revenue projections for the Test Period will be forwarded to USAC, which will use the information to compute CAF BLS for the July 1, 2020 through June 30, 2021 support period. The line is only open for average schedule companies.

**VOLUME 3**

**APPENDIX B**

**2020 CAF ICC DATA COLLECTION**

**Below are the changes in the Data Request for the Test Period 2020-2021 relative to the Data Request for the Test Period 2019-2020**

This year, based on FCC rules, the true-up for TP2018-2019 will be calculated and the Eligible Recovery for TP 2020-2021 will be adjusted to reflect that calculation. In addition, based on FCC clarification, any double recovery adjustments must be quantified and removed from the filed Eligible Recovery amounts for Test Period 2020-2021. Identification of the reason for the double recovery and the dollar impacts for Interstate Switched Access, Interstate Special Access, Interstate Common Line, and other (for all other amounts not recovered through interstate access) are also required.

Based on these changes, the following is a list of data collection line numbers and descriptions of the data needed on each:

**Interstate Screen:**

**Line 1 - TY 2011-2012 interstate switched access revenue requirement excluding Pool Administration Expenses is reduced by the cost difference based on 2019 Cost Study for the new BDS companies electing to unfreeze their frozen category relationships.**

**Line 2 – The interstate switched access revenue requirement for the 2020-2021 test period is the base period 2011-2012 revenue requirement \*95%<sup>9</sup>, plus pool administration expenses. (Prepopulated, no input needed).**

**Line 3 – The TP 2019-20 interstate terminating switched access end office rate will be prepopulated. The current terminating end office rate including the information surcharge is \$0.0007. (Prepopulated, no input needed).**

**Line 4 – The proposed interstate terminating switched access end office rate would be Bill and Keep (= \$0) per minute. (No input needed).**

**Line 14A – Any adjustments to the 2011-2012 interstate baseline switched access revenue requirement due to double recovery must be reported as a negative value on this line. Further information on events causing double recovery and calculation of double recovery may be found in the paper “Cost Changes Requiring Action to Avoid Double Recovery”. Line 14A adjustments to the 2011-2012 interstate switched access revenue requirement due to double recovery are amounts companies have not reported in last year’s Data Collection and are based on the 2018 Cost Study.**

**Line 14B (four lines) - Detailed, pre-coded descriptions of double recovery amounts entered on Line 14A must be provided on line 14B. The FCC may require documentation to support explanations listed on this line.**

**Line 14 C (three lines) – This line is for the identification of offsetting double recovery adjustment amounts by category resulting from adjustments to the baseline switched access revenue requirement input on Line 14A. Companies must indicate category(ies) as interstate special access, interstate common line or “Other”.**

**Line 14 – This line will be the TP 2020-2021 interstate Eligible Recovery adjusted to remove double recovery. (Calculation line, no input needed).**

**Line 14D – This line identifies the true-up adjustment needed for the TP2017-2018 and TP 2018-2019 due to the double recovery amount. (Calculation line, no input needed).**

**Line 14E – This line is the adjusted interstate switched access Eligible Recovery which will be used in conjunction with TP 2018-2019 revenue and exogenous cost true ups, to calculate the post true up CAF ICC Support for TP 2020-2021. (Calculation line, no input needed).**

**Intrastate Screen:**

**Line 1** - The FY2011 (October 2010 through September 2011) Intrastate Terminating Switched Access Received Revenue including Adjustments due to Halo Uncollectibles (13A) and Correction of Errors (Line13B and 13D).

**Line 2** – The intrastate switched access revenue requirement for the 2020-2021 test period is the base period 2011-2012 revenue requirement \*95%<sup>9</sup> (Prepopulated, no input needed).

**Line 13 A** – Any adjustments to the FY2011 intrastate switched access revenue requirement due to Halo Uncollectibles should be reported on this line. NECA will store data for amounts reported that require an FCC waiver, and apply only those amounts for which waivers are granted.

**Line 13 B** – This line is for the downward correction of reporting errors for FY2011 received revenue. No waiver is needed for this adjustment if the amount reported is negative and reduces the frozen baseline. Please provide support documentation.

**Line 13 C** – Report received revenue adjustments to FY2011 related to double recovery on this line. A waiver is not necessary for this reporting because the correction decreases the frozen baseline for purposes of adjusting Eligible Recovery and enables the company to avoid double recovery.

**Line 13 D** – This line is for the reporting of additional FY2011 received revenues due to correction of errors. Please provide support documentation. The revenue must have been received by March 31, 2012 per FCC rules.

Line 13 – This line is the calculated TP 2020-2021 Intrastate terminating switched access Eligible Recovery adjusted for changes to the FY2011 received revenue due to double recovery. (Calculation line, no input needed).

**Line 13 E** – The True-up adjustment for intrastate terminating switched access related to TP 2017-2018 and TP 2018-2019 double recovery. (Calculation line, no input needed).

**Line 13F** – This line reflects the adjusted TP 2020-2021 intrastate eligible recovery that will be used, in conjunction with TP 2018-2019 revenue and exogenous cost true ups, to calculate the post true up CAF ICC Support for TP 2020-2021 . (Calculation line, no input needed).

**Interstate Data Needed at the Study Area Level to Calculate Expected Revenue and Eligible Recovery**

1	TY 2011-2012 Frozen Interstate Switched Access Revenue Requirement excluding Pool Administration Expenses	Prepopulated
2	Projected TY 2020-2021 Interstate Switched Access Revenue Requirement + Pool Administration Expenses	Prepopulated
3	Current TY 2019-2020 Interstate Terminating Switched Access End Office Rate = \$0.0007	Prepopulated
4	Proposed July 1, 2020 Interstate Terminating Switched Access End Office Rate = 0 (Bill and Keep)	Calculated
5	TY 2019-2020 Total Interstate Switched Access Composite Rate incl Rate Impact due to Changes in Pool Participation	Prepopulated
6	Projected TY 2020-2021 Total Interstate Local Switching Minutes	Prepopulated
7	Projected TY 2020-2021 Total Interstate Switched Access Revenue at the Current Rate	Line 5*Line 6
8	Projected TY 2020-2021 Interstate Terminating Switched Access End Office (Local Switching) Minutes	Input
9	Projected TY 2020-2021 Interstate Terminating Switched Access End Office Revenue at Current Rate	Line 3*Line 8
10	Projected TY 2020-2021 Interstate Terminating Switched Access End Office Revenue at Proposed Rate	Line 4*Line 8
11	Adjustments to the Total Projected TY 2020-2021 Interstate Switched Access Revenue	Line 9-Line 10
12	Projected TY 2020-2021 Total Interstate Switched Access Revenue at the Proposed Rate	Line 7-Line 11
13	Projected TY 2020-2021 Allocated Interstate Switched Access Revenue	Calculated
14A	Adjustments to the 2011-2012 Interstate Switched Access Revenue Requirement to Avoid Double Recovery	Input
14B	(1) Changes in Accounting or Categorization of Existing Investment	Input
14B	(2) Corrections of Errors	Input
14B	(3) Changes to Study Area Boundaries as a Result of Additions or Removals of Exchanges	Input
14B	(4) Other	Input
14C	Adjustment in 2011-2012 Interstate Special Access Revenue Requirement Related to Double Recovery	Input
14C	Adjustment in 2011-2012 Interstate Common Line Revenue Requirement Related to Double Recovery	Input
14C	Adjustment in 2011-2012 Other Related to Double Recovery	Input
14	Projected TY 2020-2021 Interstate Eligible Recovery	Line 2-Line13+(Line14A)*(0.95) <sup>9</sup>
14D	True-Up Adjustments for 2017-2018 and 2018-2019 to avoid Double Recovery	(14A*0.95 <sup>6</sup> )/2+14A*0.95 <sup>7</sup>
14E	Adjusted TY 2020-2021 Interstate Eligible Recovery	Line14+Line14D
15	Proposed TY 2020-2021 Total Interstate Switched Access Composite Rate	Line 12/Line 6
16	FY 2019 (October 1, 2018 - September 30, 2019) Total Interstate Local Switching Minutes	Prepopulated
17	TY 2020-2021 Growth Rate relative to FY 2019	Calculation [(Line 6/Line 16) <sup>12/21</sup> -1]*100

**Intrastate Data Needed at the Study Area Level to Calculate Expected Revenue and Eligible Recovery**

**(A) Calculate the Intrastate Terminating Revenue Requirement for TY 2020-2021**

1	FY2011 (October 2010 through September 2011) Received Revenue including Correction of Errors and Halo uncollectibles	Prepopulated
2	95% of Total TY2019-2020 Revenue Requirement (95% <sup>9</sup> * Lines 1 )	Calculated

**(B) Calculate the TY 2020-2021 Transitional Intrastate Access Service Revenue**

Use either (a) or (b):

*(a) The composite rate approach: Company should leave columns K through N of intrastate TRP blank and enter the Projected terminating intrastate local switching minutes below in Line 5, and the FY2019 terminating intrastate local switching minutes below in Line 7.*

3	Current TY2019-2020 Intrastate Terminating Composite Rate	Prepopulated
4	Proposed TY2020-2021 Intrastate Terminating Composite Rate	Calculated
5	Projected TY2020-2021 Intrastate Terminating Local Switching Minutes	Input
6	Projected Total TY2020-2021 Intrastate Terminating Switched Access Service Revenue	Line 4*Line 5
7	FY 2019 (October 1, 2018 through September 30, 2019) Intrastate terminating Local Switching Minutes	Input
8	TY2020-2021 Terminating Intrastate Local Switching Minutes Growth Rate	Calculated $[(\text{Line 5}/\text{Line 7})^{12/21}-1]*100$

*(b) The rate element approach: Enter the FY 2019 demand at the rate element level in Column K and Projected demand at the rate element level in Column L of the TRP. Growth rates in Column M will be calculated.*

9	Projected Total TY2020-2021 Intrastate Terminating Switched Access Service Revenue	Sum of Col N
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**(C) Calculate the Total TY 2020-2021 Projected Transitional Intrastate Access Service Revenue**

10	TY 2020-2021 Net Settlement from the State Pool	Input
11	TY 2020-2021 State Terminating Access Support Rebalancing Fund Revenue	Input
12	Total TY2020-2021 Projected Intrastate Terminating Switched Access Service Revenue	sum (Lines 6(or 9), 10,11)

**(E) Calculate the TY 2020-2021 Intrastate Eligible Recovery**

13A	Adjustments to FY2011 Received Revenue due to Halo Uncollectibles	Input
13B	Correction of Errors Resulting in Downward Adjustments in FY2011 Received Revenue	Input
13C	Adjustments to FY2011 Received Revenue to Avoid Double Recovery	Input
13D	Correction of Errors Resulting in Upward Adjustments in FY2011 Received Revenue	Input
13	Total TY2020-2021 Intrastate Eligible Recovery	Line 2-Line 12+(13C)*(0.95) <sup>9</sup>
13E	True-Up Adjustment for 2017-2018 and 2018-2019 to avoid Double Recovery	$((13C*0.95^6)/2)+13C*0.95^7$
13F	Adjusted TY2021-2021 Intrastate Eligible Recovery	Line13+Line13E

NECA  
VOLUME 3  
APPENDIX B

Intrastate (TRP) Data Needed at the Rate Element Level for Rate Verification and Forecasted Revenue Calculation

D	E	F	G	H	I	J	K	L	M	N
Columns Used for Rate Element Approach										
Intrastate and Interstate Switched Access Rate Elements for Transitional Intrastate Access Service Categories	Unit of Demand (e.g., MOU or miles)	7/1/2020 Interstate Rate	TY 2019-2020 Current Intrastate Rate	7/1/2020 Proposed Intrastate Rate	FY 2011 Intrastate Units: Terminating for Non-Dedicated and Total for Dedicated Elements	Intrastate Price-Out with 7/1/2020 Proposed Intrastate Rate and FY2011 Demand	FY 2019 Intrastate Units: Terminating for Non-Dedicated and Total for Dedicated Elements	TY 2020-2021 Forecasted Intrastate Units	Intrastate Units Growth Rates %: $[(L/K)^{(12/21)} - 1] * 100$	TY 2020-2021 Forecasted Intrastate Revenue
Input	Input	Prepopulated	Prepopulated	Input	Prepopulated	H*I	Input	Input	Calculated	H*L
<b>** Terminating End Office Access Service**</b>										
Terminating End Office, Premium, per access minute	Mou									
Terminating End Office, Non-Premium, per access minute	Mou									
<b>**Terminating Tandem Switched Transport Service**</b>										
Terminating Tandem Switched Transport Facility	Minute per Mile									
Terminating Tandem Switched Termination	Minute per Termination									
Terminating Tandem Switching	Minute per Tandem									
<b>** Originating and Terminating Dedicated Transport Access Service**</b>										
Entrance Facility, Per Termination	Circuit									
- Voice Grade Two Wire	Circuit									
- Voice Grade Four Wire	Circuit									
- High Capacity DS1	Circuit									
- High Capacity DS3	Circuit									
- Synchronous Optical Channel OC3	Circuit									
- Synchronous Optical Channel OC12	Circuit									
- ESALT 2 Mbps	Circuit									
- ESALT 10 Mbps	Circuit									
- ESALT 50 Mbps	Circuit									
Direct Trunked Transport Facility, Per Mile	Circuit Miles									
- Voice Grade	Circuit Miles									
- High Capacity DS1	Circuit Miles									
- High Capacity DS3	Circuit Miles									
- Synchronous Optical Channel OC3	Circuit Miles									
- Synchronous Optical Channel OC12	Circuit Miles									
- ESALT 2 Mbps DTF-E1	Circuit Miles									
- ESALT 2 Mbps DTF-E2	Circuit Miles									
- ESALT 2 Mbps DTF-E3	Circuit Miles									
- ESALT 2 Mbps DTF-E4	Circuit Miles									
- ESALT 10 Mbps DTF-E1	Circuit Miles									
- ESALT 10 Mbps DTF-E2	Circuit Miles									
- ESALT 10 Mbps DTF-E3	Circuit Miles									
- ESALT 10 Mbps DTF-E4	Circuit Miles									
- ESALT 50 Mbps DTF-E1	Circuit Miles									
- ESALT 50 Mbps DTF-E2	Circuit Miles									
- ESALT 50 Mbps DTF-E3	Circuit Miles									
- ESALT 50 Mbps DTF-E4	Circuit Miles									
Direct Trunked Transport Termination, Per Termination	Circuit terms									
- Voice Grade	Circuit terms									
- High Capacity DS1	Circuit terms									
- High Capacity DS3	Circuit terms									
- Synchronous Optical Channel OC3	Circuit terms									
- Synchronous Optical Channel OC12	Circuit terms									
- ESALT 2 Mbps	Circuit terms									
- ESALT 10 Mbps	Circuit terms									



**Reciprocal Compensation Data Needed to Calculate Forecasted Revenue and Eligible Recovery**

CMRS Traffic

1	2	3	4	5	6	7	8	9
FY2011 (October 2010 through September 2011) Net CMRS Reciprocal Compensation Received Revenue including Correction of Errors (Line 19A and 19B)	TY 2020-2021 Terminating CMRS Reciprocal Compensation Minutes	TY 2020-2021 Terminating CMRS Reciprocal Compensation Composite Rate which is bill and keep	TY 2020-2021 Originating CMRS Reciprocal Compensation Minutes	TY 2020-2021 Originating CMRS Reciprocal Compensation Composite Rate which is bill and keep	TY 2020-2021 Terminating CMRS Reciprocal Compensation Revenue	TY 2020-2021 Originating CMRS Reciprocal Compensation Expense	TY 2020-2021 Net CMRS Forecasted Reciprocal Compensation Revenue which is \$0	TY 2020-2021 Net CMRS Reciprocal Compensation Revenue Requirement
Prepopulated	Input	Input	Input	Input	Line 2 * Line 3	Line 4 * Line 5	Line 6- Line 7	Line 1*0.95 <sup>9</sup>

Non-CMRS Traffic

10	11	12	13	14	15	16	17	18
FY2011 (October 2010 through September 2011) Net Non-CMRS Reciprocal Compensation Received Revenue including Correction of Errors (Line 20A and 20B)	TY 2020-2021 Terminating Non-CMRS Reciprocal Compensation Minutes	TY 2020-2021 Terminating Non-CMRS Reciprocal Compensation Composite Rate which is bill and keep	TY 2020-2021 Originating Non-CMRS Reciprocal Compensation Minutes	TY 2020-2021 Originating Non-CMRS Reciprocal Compensation Composite Rate which is bill and keep	TY 2020-2021 Terminating Non-CMRS Reciprocal Compensation Revenue	TY 2020-2021 Originating Non-CMRS Reciprocal Compensation Expense	TY 2020-2021 Net Non-CMRS Forecasted Reciprocal Compensation Revenue which is \$0	TY 2020-2021 Net Non-CMRS Reciprocal Compensation Revenue Requirement
Prepopulated	Input	Prepopulated	Input	Prepopulated	Line 11 * Line 12	Line 13 * Line 14	Line 15 - Line 16	Line 10*0.95 <sup>9</sup>

Net Reciprocal Compensation Eligible Recovery

19	19A	19B		20	20A	20B		21
CMRS Eligible Recovery	Downward Adjustments to FY2011 Net CMRS Reciprocal Compensation Received Revenue	Upward Adjustments to FY2011 Net CMRS Reciprocal Compensation Received Revenue		Non-CMRS Eligible Recovery	Downward Adjustments to FY2011 Net Non-CMRS Reciprocal Compensation Received Revenue	Upward Adjustments to FY2011 Net Non-CMRS Reciprocal Compensation Received Revenue		Total Adjusted Recip Comp Eligible Recovery
Line 9 - Line 8	Input	Input		Line 18-Line 17	Input	Input		Line 19+Line 20

**CAF ICC Data Collection Instructions**

**Interstate Data Collection**

Line	Data Elements	Instructions
1	TY 2011-2012 Frozen Interstate Switched Access Revenue Requirement excluding Pool Administration Expenses	NECA will populate interstate switched access revenue requirement for base period 2011-2012 excluding pool administration expenses. The cost difference based on 2019 Cost Study is applied to TY 2011-2012 revenue requirement if new BDS company elects to unfreeze its frozen category relationships (FCC 18-182 ¶¶ 38-39 Separations Order released on December 17, 2018).
2	TY 2020-2021 Interstate Switched Access Revenue Requirement + Pool Administration Expenses	NECA will populate interstate switched access revenue requirement for TS pool members for test period July 2020-June 2021 based on 95% <sup>9*</sup> the frozen interstate switched access revenue requirement for July 2011-June 2012 plus pool administration expenses.
3	TY 2019-2020 Interstate Terminating Switched Access End Office Rate	NECA will prepopulate the current terminating end office rate. The current terminating end office rate includes the information surcharge and the rate is \$0.0007.
4	Proposed July 1, 2020 Interstate Terminating Switched Access End Office Rate	The proposed interstate Terminating End Office Access Rate for test period 2020-2021 is zero (Bill and Keep), per the FCC Order §51.909.
5	TY 2019-2020 Current Total Interstate Switched Access Composite Rate including rate impact due to changes in pool participations	NECA will prepopulate the total interstate switched access composite rate which is the total of 5 months (August 2019-December 2019) revenue divided by total local switching minutes from NECA settlement system. The current total composite rate includes rate impact due to changes in TS pool effective 7/1/2020.
6	TY 2020-2021 Total Forecasted Interstate Local Switching Minutes	NECA will populate the forecasted interstate local switching minutes for test period July 2020-June 2021 for TS pool members. Please review your interstate MOU forecast, taking into account recent market conditions. For this filing, there is no FCC imposed restriction that limits the demand loss to 15%. However, companies should be prepared to support and explain large forecasted demand losses in the study. Companies can override the forecast with their own forecasted minutes.
7	Projected TY 2020-2021 Total Interstate Switched Access Revenue at the Current Rate	NECA will calculate the total projected interstate switched access revenue at the current rate. Line 5* Line 6
8	Projected TY 2020-2021 Interstate Terminating Switched Access End Office Minutes	Please provide the interstate terminating switched access end office (local switching) minute forecasts for test period 2020-2021.
9	Projected TY 2020-2021 Interstate Terminating Switched Access End Office Revenue at Current Rate	NECA will calculate the projected interstate terminating switched access end office revenue at the current rate. Line 3* Line 8

NECA  
VOLUME 3  
APPENDIX B

10	Projected TY 2020-2021 Interstate Terminating Switched Access End Office Revenue at Proposed Rate	NECA will calculate the projected interstate terminating switched access end office revenue at the proposed rate. Line 4* Line 8
11	Adjustments to the Total Projected Interstate Switched Access Revenue	The difference in interstate terminating switched access end office revenue between current and proposed rates. Line 9-Line 10.
12	Projected TY 2020-2021 Total Interstate Switched Access Revenue at the Proposed Rate	Projected total interstate switched access revenue for test period 2020-2021, taking into account the new terminating end office rate. Line 7-Line 11.
13	TY 2020-2021 Forecasted Allocated Interstate Switched Access Revenue	NECA will allocate the interstate switched access revenue in Line 12 based on each company's share of the TY2011-2012 frozen revenue requirement, per FCC's August 31, 2012 Order.
14A	Adjustments to the 2011-2012 Interstate Switched Access Revenue Requirement	Please enter the adjustments to the 2011-2012 interstate switched access revenue requirement to avoid double recovery as a result of re-categorizing certain equipment or other reasons as described in the paper on "Cost Changes Requiring Action to Avoid Double Recovery". These are reductions and should be entered as negative numbers. Line 14A adjustments to the 2011-2012 interstate switched access revenue requirement due to double recovery are amounts companies have not reported in last year's Data Collection and are based on the 2018 Cost Study.
14B	Adjustments to the 2011-2012 Interstate Switched Access Revenue Requirement	Companies must identify the reasons for double recovery by selecting the check box. Please provide the explanations in the comment box if the reason is "other". Please be prepared to provide supporting documentation and detailed calculations in case the FCC requires it.
14C	Adjustments to the 2011-2012 Interstate Switched Access Revenue Requirement	Please enter the changes in interstate special access, interstate common line, or "Other" calculated per the Double Recovery paper. Companies are not allowed to change the frozen revenue requirement if waiver petitions are still pending.
14	Projected TY 2020-2021 Interstate Eligible Recovery	Line 2-Line13+(Line14A)*(0.95) <sup>9</sup>
14D	True-Up Adjustment for 2017-2018 and 2018-2019 to avoid Double Recovery	Prepopulated the amount of $((14A*0.95^6)/2+14A*0.95^7)$ for the DR adjustment based on 2018 Cost Study. These are the true up adjustments for test period 2017-2018 and 2018-2019.
14E	Adjusted TY 2020-2021 Interstate Eligible Recovery	Line14+Line14D
15	Proposed TY 2020-2021 Total Interstate Switched Access Composite Rate	Line 12/Line 6 (Projected total interstate switched access revenue divided by projected total local switching minutes). This rate will be compared with the effective non-CMRS reciprocal compensation rate.
16	FY 2019 (October 1, 2018 - September 30, 2019) Total Interstate Local Switching Minutes	NECA will prepopulate the FY 2019 interstate local switching minutes based on the data in the Settlement System.
17	TY 2020-2021 Growth Rate relative to FY 2019	The growth rate is calculated using the formula: $[(\text{Line 6}/\text{Line 16})^{(12/21)-1}]*100$

**Data Collection**

**Intrastate Tariff Review Plan (TRP)**

**Please note the following:**

(A)	A Rate-of-Return Carrier shall establish separate originating and terminating interstate and intrastate rate elements for all components within interstate End Office Access Service. For fixed charges, the Rate-of-Return Carrier shall divide the amount based on relative originating and terminating end office switching minutes. If sufficient originating and terminating end office switching minute data is not available, the carrier shall divide such charges equally between originating and terminating elements. A Rate-of-Return Carrier that has intrastate rates lower than its functionally equivalent interstate rates is not allowed to make any intrastate tariff filing or intrastate tariff revisions raising such rates. (FCC 91.509 (d)(4))
(B)	If you choose to use the composite rate approach of forecasting demand (Option A), please leave Columns K and L blank, enter the forecasted Terminating local switching minutes on the intrastate screen of the data request (Line 5). If you choose to use the approach of forecasting demand at the rate element level (Option B), please complete columns K and L. The forecasted demand for TY2020-2021 in Column L will be used to derive the TY2020-2021 intrastate terminating switched access forecasted revenue (Column N).

Line	Data Elements	Instructions
1	FY2011 (October 2010 through September 2011) Total Received Revenue includes Intrastate Terminating Switched Access Revenue, Net Settlement from the State Pool and State Terminating Access Support Rebalancing Fund. FY2011 Total Received Revenue also includes correction of errors that companies enter in Line 13A, 13B and 13D	NECA will prepopulate the fiscal year (October 1, 2010 through September 30, 2011) total actual received revenue which is used as revenue requirement for the base period. For companies in a state pool, Line 1 includes the amount of "contribution to" or "receipts from" the state pool associated with terminating switched access traffic for the fiscal year 2011. Line 1 also includes intrastate terminating access revenue companies receive from a state fund that is designed to offset rates and revenues associated with intrastate access billed to interexchange carriers for fiscal year 2011. In addition Line 1 is adjusted for correction of errors in FY2011 received revenue that companies enter in Line 13A, 13B and 13D.
2	TY2020-2021 Intrastate Terminating Revenue Requirement	The TY2020-2021 intrastate terminating revenue requirement is 95% <sup>9</sup> * the total received revenue for the base period of 2011-2012 (Line 1).
3	Current TY2019-2020 Intrastate Terminating Composite Rate	NECA will pre-populate the current intrastate terminating composite rate based on the 2019-2020 data collection. The current composite rate is the sum of July 2019 intrastate terminating rates multiply by the FY2011 demand at the rate element level and divided by the FY2011 local switching minutes.

NECA  
VOLUME 3  
APPENDIX B

4	Proposed TY2020-2021 Intrastate Terminating Composite Rate	The proposed intrastate terminating composite rate for the test period 2020-2021 is the sum of the July 2020 intrastate terminating rates multiply by the FY2011 demand at the rate element level, divided by the FY2011 local switching minutes (sum of column J on the intrastate TRP divided by the terminating end office minutes in column I). The composite rate should include the rate change in End Office rate following the FCC Order; the end office rate for test period 2020-2021 is \$0 per minute.
5	Projected TY 2020-2021 Intrastate Terminating Local Switching Minutes	If you use the composite rate approach to project the expected revenue, enter projected intrastate terminating local switching minutes for the test period July 2020-June 2021. Please adjust the minutes downward to account for uncollected minutes. You can leave this line blank, if you chose to enter forecasted demand at the rate element level on the TRP (column L). For this filing, there is no FCC imposed restriction that limits the demand loss to 15%. However, companies should be prepared to support and explain large forecasted demand losses in the study.
6	Projected TY 2020-2021 Intrastate Access Service Revenue (Using the composite rate approach)	Line 4 * Line 5 if you use the composite rate approach.
7	FY 2019 Terminating Intrastate Local Switching Minutes	Please enter the terminating intrastate local switching minutes from October 1, 2018 through September 30, 2019 in Line 7 or column K on the intrastate TRP if using the rate element approach. Please ensure the intrastate terminating VoIP minutes are included if there are any, so the growth rate is calculated correctly.
8	TY2020-2021 Terminating Intrastate Local Switching Minutes Growth Rate	The growth rate for TY2020-2021 is calculated using the formula: $[(\text{Line 5}/\text{Line 7})^{(12/21)-1}] * 100$
9	Projected TY 2020-2021 Intrastate Access Service Revenue (Using the rate element approach)	If you entered the forecasted demand at the rate element level (column L), this is the sum of column N on the TRP.
10	TY 2020-2021 Net Settlement from the State Pool	For companies in a state pool, please enter the projected amount of "contribution to" or "receipts from" the state pool associated with terminating switched access traffic for test period 2020-2021. Contribution to the pool should be entered as a negative number.
11	TY 2020-2021 State Terminating Access Support Rebalancing Fund Revenue to be Received	Please include intrastate terminating access revenues companies will receive from a state fund, that is designed to offset rates and revenues associated with intrastate access billed to interexchange carriers for TY 2020-2021.
12	Total TY2020-2021 Projected Intrastate Terminating Switched Access Service Revenue	Sum of Lines 6 (or 9), 10 and 11.

NECA  
VOLUME 3  
APPENDIX B

13A	Adjustments to FY2011 Received Revenue due to Halo Uncollectibles	Companies are requested to input the adjustments to the FY2011 intrastate terminating received revenue. The adjustments include those waivers filed with the FCC but not yet granted. The waivers include Halo revenues previously classified as uncollectibles. The adjustments must equal the amounts in the waivers. NECA will collect and store the adjustments, but will only apply them in the event the waiver is granted. The adjustments are used to increase Intrastate FY2011 received revenue (Line 1) when the FCC grants the waiver. Please do not enter the adjustment if NECA has already filed it with the FCC.
13B	Correction of Errors Resulting in Downward Adjustments in FY2011 Received Revenue	Companies do not need to file waivers if they need to decrease their intrastate baseline received revenue to correct errors made earlier. The adjustments are used to decrease FY2011 total Intrastate received revenue (Line 1). Please upload supporting documentation in pdf format onto the website, NECA will send the adjustments to the FCC for its review before being incorporated in the annual tariff filing.
13C	Adjustments to FY2011 Received Revenue to Avoid Double Recovery	Companies do not need to file waivers if they need to decrease their intrastate baseline received revenue to avoid double-recovery. Reductions should be entered as negative numbers. Please be prepared to provide the supporting documentation and detailed calculations in case the FCC requests it. The adjustments to FY2011 received revenue due to double recovery are used to adjust Intrastate Eligible Recovery (Line 13).
13D	Correction of Errors Resulting in Upward Adjustments in FY2011 Received Revenue	Companies do not need to file waivers if they need to increase their intrastate baseline received revenue to correct errors made earlier. The adjustments are used to increase FY2011 total Intrastate received revenue (Line 1). Please upload supporting documentation in pdf format onto the website, NECA will send the adjustments to the FCC for its review before being incorporated in the annual tariff filing. The revenue must have been received by March 31, 2012 per FCC rules.
13	Total TY 2020-2021 Intrastate Eligible Recovery	Line 2-Line 12+(13C)*(0.95) <sup>9</sup>
13E	True-Up Adjustment for Intrastate Terminating Switched Access in 2017-2018 and 2018-2019 for Double Recovery	$((13C*0.95^6)/2+13C*0.95^7)$
13F	Adjusted TY2020-2021 Intrastate Eligible Recovery	Line13+Line13E

**Exchange Level Data Collection**

The Exchange Level Data Request has not changed. The exchange/zone names and local charges will be prepopulated based on the previous data collection. Please update the local charges if the rates as of January 1, 2020 are HIGHER than the prepopulated rates as of January 1, 2012. Please enter the projected residential access lines and Lifelines at the exchange level for the test period 2020-2021. NECA will pre-populate the projected Single Line Business and Multi-Line Business Lines at the study area level for the test period 2020-2021. Company can override with its own forecasts.

**Reciprocal Compensation Data Collection**

**CMRS**

1	FY2011 (October 2010 through September 2011) Net CMRS Reciprocal Compensation Received Revenue including correction of errors entered in Line 19A and 19B.	NECA will prepopulate the October 1, 2010 through September 30, 2011 Net CMRS Reciprocal Compensation Received Revenue from the previous study. However the FY2011 Net CMRS RC received revenue includes the adjustments to reflect correction of errors (Line 19A and 19B).
2	TY 2020-2021 Terminating CMRS Reciprocal Compensation Minutes	Enter projected terminating non Bill and Keep CMRS reciprocal compensation minutes for test period July 2020-June 2021. If the contracts do not have a "Change in Law" provision, please enter the expiration date in the comment section and take into consideration the expiration date in the forecast.
3	TY 2020-2021 Terminating CMRS Reciprocal Compensation Composite Rate	The terminating CMRS reciprocal compensation rate is bill and keep, FCC §51.705.
4	TY 2020-2021 Originating CMRS Reciprocal Compensation Minutes	Enter projected originating non Bill and Keep CMRS reciprocal compensation minutes for test period July 2020-June 2021. If the agreements do not have a "Change in Law" provision, please enter the expiration date in the comment section and take into consideration the expiration date in the forecast.
5	TY 2020-2021 Originating CMRS Reciprocal Compensation Composite Rate	The originating CMRS reciprocal compensation rate is bill and keep, FCC §51.705.
6	TY 2020-2021 Terminating CMRS Reciprocal Compensation Revenue	Line 2 * Line 3
7	TY 2020-2021 Originating CMRS Reciprocal Compensation Expense	Line 4 * Line 5
8	TY 2020-2021 Net Expected CMRS Reciprocal Compensation Revenue	Line 6 - Line 7, the net expected revenue for CMRS reciprocal compensation is \$0.
9	TY 2020-2021 Net CMRS Reciprocal Compensation Revenue Requirement	NECA will prepopulate the TY 2020-2021 Net CMRS Reciprocal Compensation Revenue Requirement. The test period 2020-2021 revenue requirement is 95% <sup>9</sup> * the frozen net CMRS revenue (reciprocal compensation revenue minus expense) for the period of 2011-2012.

**NonCMRS**

10	FY2011 (October 2010 through September 2011) Net Non-CMRS Reciprocal Compensation Received Revenue including correction of errors entered in Line 20A and 20B.	NECA will prepopulate the October 1, 2010 through September 30, 2011 Net NonCMRS Reciprocal Compensation Received Revenue from the previous study. The FY2011 net non-CMRS RC received revenue includes adjustments to reflect correction of errors in Line 20A and 20B .
11	TY 2020-2021 Terminating Non-CMRS Reciprocal Compensation Minutes	Enter projected terminating non-CMRS reciprocal compensation minutes for test period July 2020-June 2021. Please adjust the minutes downward to account for uncollected minutes.
12	TY 2020-2021 Terminating Non-CMRS Reciprocal Compensation Composite Rate	The terminating non-CMRS rate is bill and keep FCC \$51.705.
13	TY 2020-2021 Originating Non-CMRS Reciprocal Compensation Minutes	Enter projected originating non-CMRS reciprocal compensation minutes for test period July 2020 - June 2021.
14	TY 2020-2021 Originating Non-CMRS Reciprocal Compensation Composite Rate	The originating non-CMRS rate is bill and keep FCC \$51.705.
15	TY 2020-2021 Terminating Non-CMRS Reciprocal Compensation Revenue	Line 11 * Line 12
16	TY 2020-2021 Originating Non-CMRS Reciprocal Compensation Revenue	Line 13 * Line 14
17	TY 2020-2021 Net Expected Non-CMRS Reciprocal Compensation Revenue	Line 15 - Line 16, the net expected non-CMRS reciprocal compensation revenue is \$0 due to bill and keep.
18	TY 2020-2021 Net Non-CMRS Reciprocal Compensation Revenue Requirement	NECA will prepopulate the TY 2020-2021 Net Non-CMRS Reciprocal Compensation Revenue Requirement. The test period 2020-2021 revenue requirement is 95% <sup>9</sup> *the frozen net Non-CMRS revenue (reciprocal compensation revenue minus expense) for the period of 2011-2012.

**Reciprocal Compensation Eligible Recovery**

19	CMRS Eligible Recovery	Line 9-Line 8
19A- 19B	Adjustments to FY2011 Net CMRS Reciprocal Compensation Received Revenue	Please enter the correction of errors adjustments to FY2011 Net CMRS Reciprocal Compensation Received Revenue. Companies do not need to file waivers if they need to modify their FY2011 revenue to correct errors made earlier (Line 19A-19B). Reductions should be entered as negative numbers. Companies must upload the supporting documentation to the website in pdf format. NECA will send the adjustments to the FCC for its review before being incorporated in the annual tariff filing.
20	Non-CMRS Eligible Recovery	Line 18-Line 17
20A- 20B	Adjustments to FY2011 Net Non-CMRS Reciprocal Compensation Received Revenue	Please enter the correction of errors adjustments to FY2011 Net Non-CMRS Reciprocal Compensation Received Revenue. Companies do not need to file waivers if they need to modify their FY2011 revenue to correct errors made earlier (Line 20A-20B). Reductions should be entered as negative numbers. Companies must upload the supporting documentation to the website in pdf format. NECA will send the adjustments to the FCC for its review before being incorporated in the annual tariff filing.
21	Total Reciprocal Compensation Eligible Recovery	Line 19+Line 20

**Exogenous Costs**

Please enter the interstate portion of the exogenous costs (TRS, Regulatory, and NANPA increments) for the test year 2020-2021. These amounts represent the portion of fee increases (relative to fiscal year 2011) that would normally be recovered through increases in interstate switched access rates that are now capped pursuant to the USF/ICC Transformation Order. These items will be blocked for data entry for Average Schedule companies because there is no settlement formula to recover these amounts.

SLB and MLB Access Lines Data Needed to Calculate ARC Revenue  
at the Study Area Level

Study Area Code	TY 2020-2021 Single Line Business Lines	TY 2020-2021 Multi- Line Business Lines
	Prepopulated	Prepopulated

NECA  
VOLUME 3  
APPENDIX B

Local Charges Needed to Calculate Residential ARC Rates at the Exchange and Zone (Plan) Level

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Study Area Code	Exchange Name/Zone Name	Residential Access Lines	Lifeline Lines	Residential Lines excluding Lifelines (Line3 - Line4)	Current Residential Flat Rate	Additional Basic Local Rate Charges if applicable	Mandatory Expanded Calling	Fed Subscriber Line Charge	State Subscriber Line Charge	State USF Surcharge	County E-911 Surcharge	State E-911 (e.g. fire & police)	TRS & other hearing impaired Surcharges	Total Residential Charges (sum Lines 6 thru14)	Amount above/(below) \$30.00 Rate Ceiling
Study Area 1															
Study Area 1															
Study Area 1															
Study Area 1															
Study Area 1	etc.														
Study Area 2															
Study Area 2															
Study Area 2	etc.														
Study Area 3															
Study Area 3															
Study Area 3															
Study Area 3															
Study Area 3	etc.														

etc.

**Exchange Area/Rate Zone Data Needed for Residential Benchmarks**

Following the FCC guideline, the gap above/below rate ceiling of \$30.00 will determine the Residential ARC amount. For companies with Eligible Recovery, the FCC allowed an annual residential and single-line business ARC rate increase of \$0.50 and an annual multiline business ARC rate increase of \$1.00, with a limit of \$12.20 applied to Multi-Line Business Lines ARC plus SLC. Beginning July 1, 2017, a rate-of-return carrier may assess a maximum of \$3.00 per month for each residential excluding Lifeline and SLB line.

Please update the local tariff information if the rates on January 1, 2020 are higher than the prepopulated rates as of January 1, 2012. Companies do not have to update the local rate elements if local charges are lower than or remain the same as January 1, 2012. Please enter forecasted Residential lines and Lifelines for test period 2020-2021.

Instructions		
Line	Data Elements	Descriptions
1	Study Area Code	The study area code you have entered
2	Exchange Name/Zone Name	For each exchange and zone combination, please enter the exchange name, followed by "/", and then the zone name, as they appear in your local exchange tariff.
3	Residential Lines	Please enter forecasted average annual residential lines including Lifelines for the test period July 2020-June 2021. Residential lines include all lines assessed the residential end user common line charge. Please make an adjustment to residential lines to account for only half of the ARC applying to vacation lines. For instance, if there are 40 lines that have the vacation rate for three months a year (3/12 of the year), reduce the line count by 5 (40* 1/2 * 3/12).
4	Lifelines	Annual average Lifelines for the test period July 2020-June 2021.
5	Residential Lines excluding Lifelines	Line 3- Line 4
6	Residential Flat Rate	1FR or R1 Per Tariff or Price List. If Flat Rate service not available, enter Average Local Measured Service billed amount per customer.
7	Additional Local Rate Charges if applicable	Additional Basic Local Rate charges such as Touch Tone & Zone/Mileage Charges applicable to Residential Local Service only if they are mandatory. Please calculate and enter the charges per line.

NECA  
VOLUME 3  
APPENDIX B

8	Mandatory Expanded Calling	Rate per Tariff or Price List.
9	Federal Subscriber Line Charge	Per Tariff
10	State Subscriber Line Charge	Per Tariff or Price List.
11	State USF Surcharge	Per Tariff or Price List.
12	County E-911 Surcharge	Per County Contract; (if multiple counties in an exchange, use highest rate)
13	State E-911 (e.g. Fire & Police)	Per State Contract or other state entity
14	TRS & Other Hearing Impaired Surcharges	Per Tariff or Price List
15	Total Residential Charges	Sum Lines 6 through 14.
16	Amount above/(below) \$30.00 Rate Ceiling	\$30 - Line 15

## Overview of CAF ICC True-Ups

1. Pre-populated the forecasted 2018-2019 interstate switched access revenue, intrastate terminating switched access revenue, net recip compensation revenue, and ARC revenues. The forecasted revenues are from the 2018-2019 Annual Access Tariff and subsequent amendment filings.
2. Pre-populated the reported realized interstate switched access received revenue, intrastate terminating switched access and net recip comp received revenue, and ARC revenues. The realized revenues are from the settlement system. The cutoff date for realized revenues is 12/31/2019.
3. The FCC Order §51.917 (d)(1)(v) defines the true-up revenues as equal to (projected demand minus actual realized demand for that service) times the default transition rate for the service specified. The FCC permitted NECA to use the total switched access revenue as a surrogate.
4. The reported interstate switched access allocated revenues are calculated based on 2018-2019 TS Pool composition to be consistent with the forecasts in the Annual Access Tariff Filing.
5. Company needs to enter the intrastate terminating received revenue for TP 2018-2019. The net reciprocal compensation received revenue will be subtracted from the total of these two which is reported in the settlement system. The intrastate terminating received revenue includes intrastate terminating switched access revenue, net settlement from the State Pool, and State Terminating Access Support Rebalancing Fund revenue.
6. The forecasted ARC revenues on projected voice/voice-data lines at the FCC prescribed ARC rates and the limited imputed ARC revenues on the forecasted broadband-only lines are the 2018-2019 Annual and subsequent amendment filings. Company needs to enter the imputed ARC revenues using the authorized (calculated) ARC rates multiplying the actual broadband-only lines on the website before the true up screen becomes available.
7. Three separate exogenous costs (TRS increment, Regulatory fees, and NANPA increment) are forecasted in the annual filing, but the total is reported in the settlement system. COST companies need to report these costs as these amounts represent the portion of fee increases that would be recovered through increases in interstate switched access rates that are now capped pursuant to the USF/ICC Transformation Order. The difference between forecasted and reported exogenous costs will be included in the 2020-2021 eligible recovery calculation.
8. The net impact on total 2020-2021 eligible recovery is the sum of interstate revenue true-ups, intrastate terminating revenue true-ups, net reciprocal compensation revenue true-ups, ARC revenue true-ups including both on voice/voice-data lines and CBOL and exogenous costs true-ups. The positive 2018-2019 revenue true-ups is a subtraction to the 2020-2021 Eligible Recovery, and the negative 2018-2019 revenue true-ups is an addition to the 2020-2021 Eligible Recovery. The negative 2018-2019 exogenous costs true-ups is a subtraction to the 2020-2021 Eligible Recovery and the positive 2018-2019 exogenous costs true-ups is an addition to the 2020-2021 Eligible Recovery.
9. Projected Eligible Recovery and CAF ICC support are from the 2018-2019 Annual Access Tariff and subsequent amendment filings. The actual Eligible Recovery and CAF ICC support are calculated using revenues in the settlement system and the revenue requirement in the 2018-2019 Annual Access Tariff Filing.
10. The projected adjusted CAF ICC Support are from the 2018-2019 annual filing and subsequent amendment filings. The actual CAF ICC Support is reduced by the ARC revenue imputation on CBOL only if a carrier's maximum assessable ARCs and imputed CBOL ARCs, based on actual lines, falls short of the baseline amount which is the actual ARC revenues in Settlements for test period 2015-2016. (FCC 18-13 Second Order on Reconsideration and Clarification released on February 16, 2018).

**The reported revenues are blocked for any updates after the April lock.**

Test Period 2018-2019 True-Up

		Forecasted Data	Reported Data	Difference (Reported - Forecasted)
1	TY 2018-2019 Interstate Allocated Switched Access Revenue	Prepopulated	Prepopulated	Calculated
2	TY2018-2019 Intrastate Terminating & Net Reciprocal Compensation Revenue	Prepopulated	Prepopulated	Calculated
3	TY 2018-2019 Intrastate Terminating Switched Access Revenue	Prepopulated	Input	Calculated
4	TY 2018-2019 Net Reciprocal Compensation Revenue	Prepopulated	Calculated	Calculated
5	TY 2018-2019 Residential ARC Revenue	Prepopulated	Prepopulated	Calculated
6	TY 2018-2019 SLB ARC Revenue	Prepopulated	Prepopulated	Calculated
7	TY 2018-2019 MLB ARC Revenue	Prepopulated	Prepopulated	Calculated
8	TY 2018-2019 Total Limited Imputed ARC Revenue	Prepopulated	Calculated	Calculated
9	TY 2018-2019 TRS Increment	Prepopulated		
10	TY 2018-2019 Regulatory Fees Increment	Prepopulated		
11	TY 2018-2019 NANPA Increment	Prepopulated		
12	TY 2018-2019 Total Exogenous Costs	Calculated	Prepopulated	Calculated
13	Net Impact on Total Eligible Recovery			Calculated
14	TY 2018-2019 Eligible Recovery	Prepopulated	Prepopulated	Calculated
15	TY 2018-2019 CAF ICC Support	Prepopulated	Prepopulated	Calculated
16	TY 2018-2019 Adjusted CAF ICC Support	Prepopulated	Calculated	Calculated

Residential, SLB and MLB ARC revenues are the revenues on Voice/Voice-Data lines. Total limited imputed ARC revenues on actual CBOL are calculated following the FCC 18-13 Second Order on Reconsideration and Clarification released on February 16, 2018.

**Test Period 2018-2019 ARC Revenues**

	Residence	SLB	MLB	Total
Total ARC Revenues	Calculated (V/VD+DO)	Calculated (V/VD+DO)	Calculated (V/VD+DO)	Sum of Res, SLB and MLB
<b>Voice/Voice-Data ARC revenues (from Settlements)</b>	Prepopulated	Prepopulated	Prepopulated	Sum of Res, SLB and MLB
<b>Data-only ARC revenues</b>	Input	Input	Input	Sum of Res, SLB and MLB

ARC revenues for Voice/Voice-Data lines are the revenues reported in Settlements based on April view.

ARC revenues imputation on Data-only lines should apply the Voice/Voice-Data ARC rates to the actual Data-only lines for the test period 2018-2019.

1. The net impact on total 2020-21 eligible recovery is the sum of interstate switched access revenue true-ups, intrastate terminating switched access revenue true-ups, net reciprocal compensation revenue true-ups, ARC revenue true-ups and exogenous costs true-ups. The positive 2018-19 revenue true-ups is a subtraction to the 2020-21 Eligible Recovery, and the negative 2018-19 revenue true-ups is an addition to the 2020-21 Eligible Recovery. The negative 2018-19 exogenous costs true-ups is a subtraction to the 2020-21 Eligible Recovery and the positive 2018-19 exogenous costs true-ups is an addition to the 2020-21 Eligible Recovery.
2. The net impact on total eligible recovery is used to adjust the test period 2020-2021 eligible recovery before ARC and CAF ICC support are calculated.

Test Period 2020-2021 Pre True-Up View

1	Total Eligible Recovery	Prepopulated
2	Total Eligible Recovery (excluding pool administration expense)	Prepopulated
3	Residential ARC Revenue at FCC Prescribed Rate	Prepopulated
4	SLB ARC Revenue at FCC Prescribed Rate	Prepopulated
5	MLB ARC Revenue at FCC Prescribed Rate	Prepopulated
6	Total ARC Revenue	Prepopulated
7	CAF ICC Support	Prepopulated

Test Period 2018-2019 True-Up

8	Net Impact on Total Eligible Recovery	Line 12 on the True-Up screen
---	---------------------------------------	-------------------------------

Test Period 2020-2021 Filing (Post True-Up) View

9	Total Eligible Recovery	Line 1+Line 8
10	Total Eligible Recovery (excluding pool administration expense)	Line 2+Line 8
11	Residential ARC Revenue at FCC Prescribed Rate	Calculated
12	SLB ARC Revenue at FCC Prescribed Rate	Calculated
13	MLB ARC Revenue at FCC Prescribed Rate	Calculated
14	Total ARC Revenue	Line 11+Line 12+Line 13
15	CAF ICC Support	Line 9-Line 14

The FCC Reform Order released on March 30<sup>th</sup> requires Rate-of-Return carriers to impute ARC revenues for Broadband Only lines, starting in January 2017, in order to avoid unintentional increases in CAF ICC support. *Connect America Fund et. al.*, WC Docket Nos. 10-90 et. al., Report and Order, Order and Order on Reconsideration and Further Notice of Proposed Rulemaking, 31 FCC Rcd 3087 (2016) (*RoR Reform Order*).

The FCC procedure order has that imputed ARC revenues underlying the true-up period will be based on each type of line per study area. *Access Charge Tariff Filings Introducing Broadband-only Loop Service*, WC Docket No. 16-317, Order DA16-1145 (rel. Oct 6, 2016).

The ARCs used for ARC revenue imputation on broadband-only lines are the proposed ARCs for Voice and Voice/Data lines for the test period 2020-2021.

Companies are requested to provide the projected broadband-only lines including Lifelines eligible for CBOL support for residence at the exchange level, and projected broadband-only lines of SLB and MLB at the study area level.

Companies must identify residential broadband-only lines migrated from voice only or voice/data lines and enter projected residential broadband-only lines including Lifelines eligible for CBOL support at the exchange/zone(plan) level. If companies can identify new broadband-only lines at the exchange/zone (plan) level, they should enter the projected new broadband-only lines at the exchange/zone (plan) level. Companies may enter new broadband-only lines at the exchange level only if new lines are not geographically identified by zone (plan). NECA will calculate the weighted average residential ARC at the exchange level and apply to the new projected residential broadband-only lines for ARC revenue imputation.  $\text{Monthly weighted average residential ARC at the exchange level} = \frac{\text{Sum residential ARC revenues across all zones (plans) within the exchange}}{\text{total residential lines for the exchange}} / 12$  based on the Voice-Data or Voice lines. Company can elect to enter the total projected residential broadband-only lines including Lifelines eligible for CBOL support and not separate migrated or new broadband-only lines.

There are two options for companies to enter the projected SLB and MLB broadband-only lines. Option A is for companies to enter the SLB and MLB projected broadband-only lines separately. If companies are not able to differentiate broadband-only lines between SLB and MLB lines, please enter the total projected business broadband-only line using Option B. NECA will calculate the weighted average of SLB and MLB ARCs and apply to the projected broadband-only lines for ARC revenue imputation.  $\text{Monthly Weighted Average of SLB and MLB ARC} = \frac{(\text{SLB ARC Revenue} + \text{MLB ARC Revenue})}{(\text{SLB Lines} + \text{MLB Lines})} / 12$  based on Voice-Data or Voice lines.

The CAF ICC Support will be reduced by the ARC imputation on CBOL only if a carrier's maximum assessable ARCs and imputed CBOL ARCs falls short of the baseline amount which is the actual ARC revenues in Settlements for test period 2015-2016. (FCC 18-13 Second Order on Reconsideration and Clarification released on February 16, 2018).

**Adjusted CAF ICC Support Reduced by Imputed ARC Revenue for Broadband-only Lines**

Company is requested to enter projected residential broadband-only lines including Lifelines and imputed ARC revenues for the test period of 2020-2021 are calculated. Company can elect to enter the total projected residential broadband-only lines in Column C only and not separate migrated or new broadband-only lines.

Option (A): Company can identify the residential broadband-only lines at the exchange/zone (plan) level will enter the projected broadband-only lines at the exchange/zone level.

Exchange/Zone (Plan) Name	Projected Residential Broadband-only Lines including Lifelines eligible for CBOL support (Migration from Voice or Voice/Data Lines)	Projected Residential Broadband-only Lines including Lifelines eligible for CBOL support (New Lines)	Total Projected Residential Broadband-only Lines including Lifelines eligible for CBOL support	Residential ARC	$[A*D*12+B*D*12] = C*D*12$ Imputed Residential ARC Revenue
	(A)	(B)	(C) =( A) + (B)	(D)	(F)
Exchange A/Zone X	input	input	calculated	pre-populated	calculated
Exchange A/Zone Y	input	input	calculated	pre-populated	calculated
Exchange A/Zone Z	input	input	calculated	pre-populated	calculated
Exchange B	input	input	calculated	pre-populated	calculated
Study Area Summary	calculated	calculated	calculated		calculated

Option (B): Company can identify the residential broadband-only lines migrated from voice or voice/data lines at the exchange/zone level, but can not identify the new broadband-only lines at the exchange/zone level. Company can enter the new broadband-only lines at the exchange level, and the monthly weighted average ARC at the exchange level will be applied to impute the ARC revenue.

Exchange/Zone (Plan) Name	Projected Residential Broadband-only Lines including Lifelines eligible for CBOL support (Migration from Voice or Voice/Data Lines)	Projected Residential Broadband-only Lines including Lifelines eligible for CBOL support (New Lines)	Total Projected Residential Broadband-only Lines including Lifelines eligible for CBOL support	Residential ARC	Monthly Weighted Average Residential ARC at the exchange level	$[A1*D*12+B1*E*12]$ Imputed Residential ARC Revenue
	(A1)	(B1)	( C1) =(A1) + (B1)	(D)	( E)	(F)
Exchange A/Zone X	input		calculated	pre-populated		calculated
Exchange A/Zone Y	input		calculated	pre-populated		calculated
Exchange A/Zone Z	input		calculated	pre-populated		calculated
Exchange A		input	calculated		calculated	calculated
Exchange B	input	input	calculated	pre-populated		calculated
Study Area Summary	calculated	calculated	calculated			calculated

Monthly Weighted Average Residential ARC at the exchange level = Sum the residential ARC revenues across all zones (plans) within the exchange/total residential lines for the exchange/12 based on the Voice-Data or Voice lines.

Option (A): Companies can identify SLB and MLB broadband-only lines and input the projected SLB and MLB broadband-only lines separately.

Study Area	Projected SLB Broadband-only Lines	SLB ARC	Imputed SLB ARC Revenue	Projected MLB Broadband-only Lines	MLB ARC	Imputed MLB ARC Revenue	Total Imputed Residential, SLB and MLB ARC Revenue

NECA  
VOLUME 3  
APPENDIX B

	(G)	(H)	(I)=(G)*(H)*12	(J)	(K)	(L)=(J)*(K)*12	(F)+(I)+(L)
Study Area Summary	Input	pre-populated	calculated	Input	pre-populated	calculated	calculated

Option (B): if companies can not separate SLB and MLB broadband-only lines, input the total SLB and MLB broadband-only lines.

		Monthly Weighted Average of SLB and MLB ARC	Imputed SLB+MLB ARC Revenue	Total Imputed Residential, SLB and MLB ARC Revenue
Study Area	Projected SLB+MLB Broadband-only Lines			
	(M)	(N)	(O)=(M)*(N)*12	(F)+(O)
Study Area Summary	input	calculated	calculated	calculated

Monthly Weighted Average of SLB and MLB ARC=(SLB ARC Revenue + MLB ARC Revenue)/(SLB Lines + MLB Lines)/12 based on Voice-Data or Voice lines.

	Line Description	Source
10	Test Period 2020-2021 CAF ICC Support	Prepopulated (Line 150 (Post True-Up) on the Eligible Recovery and CAFICC screen)
20	Total Test Period 2020-2021 Imputed ARC Revenue	Columns on the table above
20A	Total Test Period 2020-2021 Imputed ARC Revenue following FCC 18-13	Revised ARC imputation following "Second Order on Reconsideration and Clarification" rele:
30	Adjusted Test Period 2020-2021 CAF ICC Support	Line 10 - Line 20A

Second Order on Reconsideration and Clarification (FCC 18-13) released on February 16, 2018

	Tariff "Affected" Year	Base Year 15/16	Compare A and	Next Step	Next Step
<b>Example 1</b>					
51.917(e) Rules for calculating ARCs	\$7,000 A1				
51.917(f)(4) Imptn for CBOL loops	\$2,000 A2		A less or		
Total	\$9,000 A	\$12,000 B	equal to B	No change	
<b>Example 2</b>					
51.917(e) Rules for calculating ARCs	\$12,000 A1				
51.917(f)(4) Imptn for CBOL loops	\$2,000 A2			Compare (A1) to B	No imputation on CBOLs
Total	\$14,000 A	\$10,000 B	A greater	and see former is greater	as (A1)> B
<b>Example 3</b>					
51.917(e) Rules for calculating ARCs	\$12,000 A1				
51.917(f)(4) Imptn for CBOL loops	\$2,000 A2			Compare (A1) to B	Limit imputation to
Total	\$14,000 A	\$12,000 B	A greater	and see they are equal	difference = 0 (no imputation)
<b>Example 4</b>					
51.917(e) Rules for calculating ARCs	\$12,000 A1				
51.917(f)(4) Imptn for CBOL loops	\$2,000 A2			Compare (A1) to B	Limit imputation to
Total	\$14,000 A	\$13,000 B	A greater	and see latter is greater	difference = B-A1=1000

(A) Calculate the projected ARC revenues on voice lines for TP 2020-2021 (A1)  
 Calculate the imputed ARC revenues on Broadband-only lines for TP 2020-2021 (A2)  
 Total A = (A1+A2)

(B) Compare A and B (total ARC revenues for TP 2015-16 are the baseline amounts)

Example 1: if A < B or A = B, revised CAF ICC = CAF - A2

Example 2 and 3: if A > B, compare A1 to B, if A1 > B or A1 = B, revised CAF = CAF ICC

Example 4: if A > B, compare A1 to B, if A1 < B, revised CAF = CAF - (B-A1)

Second Order on Reconsideration and Clarification (FCC 18-13) released on February 16, 2018

	Tariff "Affected" Year	Base Year 15/16	Limitation Comparison and Calculation
<b>Example 1</b> 51.917(e ) Rules for calculating ARCs 51.917(f)(4) Imptn for CBOL loops Total (A1+A2)	A1 A2 A	B	If A<B or A=B, then imputed ARC revenues on CBOL loops are not limited.
<b>Example 2</b> 51.917(e ) Rules for calculating ARCs 51.917(f)(4) Imptn for CBOL loops Total	A1 A2 A	B	If A>B, compare A1 to B. If A1>B or A1=B, then imputed ARC revenues on CBOL loops are set to zero.
<b>Example 3</b> 51.917(e ) Rules for calculating ARCs 51.917(f)(4) Imptn for CBOL loops Total	A1 A2 A	B	If A>B, compare A1 to B. If A1<B, then imputed ARC revenues on CBOL loops are limited to the difference between Base Year 2015-2016 and projected Voice/Voice Data ARC revenues.

**VOLUME 3**

**APPENDIX C**

**2020 ADVANCED SERVICES DEMAND DATA REQUEST**



**INSTRUCTIONS FOR THE**  
**2020 ADVANCED SERVICES DEMAND DATA REQUEST**

**Tuesday 28 January 2020 – Tuesday 24 March 2020**

Study Contacts

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**Table of Contents\***

Introduction .....3  
Logging into the Website .....4  
Study Area – Exchange Carrier List.....4  
Special Access Revenues .....5  
Demand for Access Elements.....5  
    NECA Tariff 5 Services.....5  
    General Instructions – Services Sections .....6  
    DSL .....8  
    DSL Access Service Connection Points ..... 11  
    Ethernet Transport Service..... 12  
    IP Gateway Access ..... 17  
    High Capacity (DS1/DS3)..... 18  
    SONET ..... 18  
    Access Order Charge (AOC) Revenue ..... 18  
    Comments ..... 19

\* Bookmarks are available in Adobe to jump to the different sections of the document.

## Introduction

The 2020 Advanced Services Demand Data Request collects information that is integral to developing NECA's special access rates for the 2020 Annual Filing.

This document provides detailed instructions to help you login to the website, navigate it, and enter data for your study area(s). In this study there are separate sections devoted to itemized special access revenue data and demand data for the NECA Tariff 5 Services.



### What's new this year?

- In 2020, NECA added some new questions related to switching and interconnection capabilities. We have also kept questions related to recent broadband investment and broadband traffic size. These questions will help us understand your market better and design future tariff rates.
- In 2020, NECA also added data inputs for new SDSL Voice-Data and Data-Only speed options for 512 kbps.
- In 2020, NECA also added data inputs for 10 Mbps and 500 Mbps ETS Bandwidth Add-On (ETS BAO) demand for I-EVC (51-75 miles).

## Logging into the Website

1. Go to [www.neca.org](http://www.neca.org) and click on **Log In**. The NECA Login screen will be displayed where you can submit your NECA member User ID and Password.
2. Click on **NECA Data Collections** under **Member Services** on the top menu of the page.
3. Click on **Advanced Services Demand Data Request** on the **NECA Data Collections** page.
4. The **WELCOME** screen of the Advanced Services Demand Data Request will appear. When you click on the **Proceed** button in the bottom right hand corner, you will be asked to enter the contact information. Then, you will be redirected to the **Study Area - Exchange Carrier List**. Please follow the instructions posted on the website for this section as well as the other sections of the study.

## Study Area – Exchange Carrier List

The **Study Area - Exchange Carrier List** contains the study areas that are associated with your User ID in NECA's records. (Many users will see one study area code listed.) You will use this page to select the study area(s) for which you are entering data. Besides Study Area Code and Study Area Name columns, you will see additional columns to indicate the data submission status: one column for each of the services.

Initially you will see a status of "No Data Entered (denoted by )" for each of the categories. The status column will change after you make changes to each section (described below) and after you answer questions about each service. The status changes to "Pending" (denoted by ) if you indicate on the **NECA Tariff 5 Services** page that you offer a particular service. It changes to "Completed" (denoted by ) after you answer the questions about the service. For your convenience, **Blank Forms** are available and downloadable from the web site. With printed forms, you can preview the data request and fill it out on paper before entering the data on the web site.

## Special Access Revenues

You will be asked to provide special access revenue for each service category for the calendar year 2019 based on the Settlement data. It is useful information that will help NECA develop special access rates for the 2020 Annual Filing. The following itemized special access revenues are requested:

- DSL Voice-Data and Data-Only Revenue (2019 Annual Total)
- ETS Revenue (2019 Annual Total)
- ATM Revenue (2019 Annual Total)
- High Capacity Revenue (2019 Annual Total)
- SONET Revenue (2019 Annual Total)
- Frame Relay Revenue (2019 Annual Total)
- Narrow Band (Legacy Service) Revenue (2019 Annual Total)
- Others (2019 Annual Total)
- Total Special Access Revenue including DSL (2019 Annual Total)\*



Note\*: Please make sure that total special access revenue at the bottom equals the sum of all itemized revenues. NECA has already pre-populated revenue numbers for DSL, ETS, and total special access services based on recent Settlement data. If you have more accurate numbers, please enter them.

## Demand for Access Elements

### NECA Tariff 5 Services

Please use the check boxes on this screen to indicate the NECA Tariff 5 services that you billed during the calendar years 2018 and 2019.

For each service in your selection, you will have to report actual year-end demand for calendar years 2018 and 2019. The 2020 study covers the following NECA Tariff 5 services:

- DSL
- DSL Access Service Connection Points
- Ethernet Transport Service
- IP Gateway
- High Capacity (DS1/DS3)

- SONET
- Access Order Charge (AOC) Revenue

In addition, there are sections for Comments. You will always have access to these Instructions from a link on the menu bar at the top of each page.

After you click on the **Submit** button, you will be redirected to a page for itemized special access revenue for 2019 first and then a page that has questions about the first service you checked. In addition, each line you checked on the Tariff 5 Services page becomes a link. When you click on a link, you will be redirected to a series of questions about the demand for the service.

There is also a check box for **Comments**. Please check this box. You can use the **Comments** section to clarify information you enter in other sections or make suggestions for future studies.

### **General Instructions – Services Sections**

Each section devoted to a service has a series of questions about customer demand in terms of various rate elements. The questions ask about the demand that was in place as of December 31, 2018 and December 31, 2019.

After you answer the set of questions, you will see a **Prev** button and a **Submit & Next** button at the bottom of the screen. To return to the previous screen without submitting any data, click on the **Prev** button. Please note that if you do this, any data you entered in the section will be lost. To submit your answers to the questions, click on the **Submit & Next** button. Your data for the section will be entered and you will be redirected to the screen for the next service that you chose in the NECA Tariff 5 Services list.

If you offer a service but don't have demand for the service, e.g., SONET, please go to the section and submit zeros. Because all the fields are pre-populated with zeros, you simply have to go to the section and click on **Submit & Next**. You will receive a **Warning Message** that you are submitting zeros. Click on **OK** to proceed.

In several areas of the survey, edit checks have been included that will issue a **Warning Message** if you enter a value that appears very high or too low. The system will highlight the suspect fields in red. At this point you can proceed with the data submission by clicking on **OK** in the Warning Message, or review the suspect fields by clicking on **Cancel**. If you receive such a Warning Message, please verify the data points that triggered the message before you submit them.

In a few areas of the survey, an edit check will issue an **Error Message** if data appear erroneous. The problem data are highlighted in red. If you get an Error Message, you will not be able to submit the data until you correct the error.

After you enter data for a service, the status for the service will change from “Pending” to “Completed” on the **NECA Tariff 5 Services** screen and the **Study Area - Exchange Carrier List** screen. You can always go back to a section to revise data you have entered.

You can also delete data that you have entered for a section. To do this, go to the **NECA Tariff 5 Services** screen, and uncheck the section that contains the data you want to delete. You will see a **Warning Message** that you are about to delete data for the section. To proceed with the deletion, click on **OK**, otherwise click on **Cancel**. You must complete the deletion by clicking on the **Next** button at the bottom of the page. When you do this, all the data fields in the section will be replaced with zeros.

After you have entered data successfully for all of the relevant sections, you will be redirected to the **NECA Tariff 5 Services** screen to review the completion status. You may **Logout** from the study or choose to enter data for another Study Area by clicking on the **Finish** button on the menu at the bottom of the screen or **View SARs** on the menu at the top of the **NECA Tariff 5 Services** screen.

Finally, the menu at the *top* of screen will appear in each section as shown below. The menu contains a variety of functions that you can click on:



**Home:** Takes you back to the Welcome screen.

**Contact Us:** Launches a form you can use to send an email to NECA about any problems you are experiencing with the study.

**Instructions:** Launches a copy of this document.

**Blank Forms:** Launches a downloadable copy of the data request.

**View Study Areas:** Takes you back to the **Study Area - Exchange Carrier List** screen.

**NECA Services:** Takes you back to **NECA Tariff 5 Services** screen.

**Print:** Prints a copy of the screen.

**Download Data:** NECA archived your data submissions in the past. You can download the archived data in an Excel format by selecting a study year from the menu. Note that if the downloaded spreadsheet shows all blank cells, it means that your company did not provide data for the particular study year.

**Logout:** Logs you out from the study.

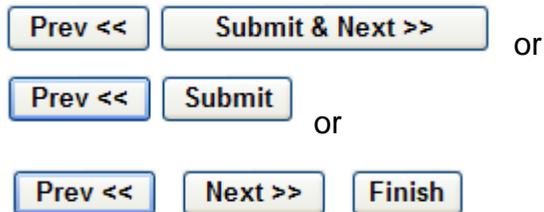
Also, a navigation bar under the *top* menu of the screen will appear in each section. An example is shown below. This navigation bar indicates where your current section is

located within the website. You can click on a destination on the bar and move to a different section of the website.

[Home](#) > [Study Area List](#) > [Main](#) > [NECA Tariff5 Services](#) > High Capacity (DS1/DS3)



The menu at the *bottom* of screen will appear in each section as shown below:



**Prev <<:** Takes you back to the previous section.

**Next >>:** Takes you to the next section.

**Submit & Next:** Submits the current section data and moves to the next section.

**Submit:** Submits the data and then takes you back to the **NECA Tariff 5 Services** screen.

**Finish:** Takes you to **Study Area - Exchange Carrier List** after completing all selected services. This button will appear at the bottom of the **NECA Tariff 5 Services** screen only when you complete all services in your selection.

## DSL

To simplify data entry, the DSL section only asks for high-level information in the following categories:

- ADSL line counts
- SDSL line counts

### DSL Line Counts

Please enter the number of ADSL lines that were in service under NECA Tariff No. 5 as of Dec. 31, 2018 and Dec. 31, 2019. ADSL speed options are listed: ADSL 1/6 Mbps, ADSL 1/10 Mbps, ADSL 3/15Mbps, ADSL 3/25 Mbps, ADSL 25/50 Mbps, ADSL 50/100 Mbps, ADSL 100/200 Mbps, ADSL 100/500 Mbps and ADSL 100/1000 Mbps. Please

provide separate counts for Voice-Data and Data-Only lines, classified according to whether they were Non-discounted rates, Monthly Plan (discounted rates), 1-year Term Plan (discounted rates), and 3-Year Term Plan (discounted rates).

Please enter the SDSL line counts that were in service under NECA Tariff No. 5 as of Dec. 31, 2018 and Dec. 31, 2019. For SDSL 256 kbps, **SDSL 512 kbps**, SDSL 768 kbps, SDSL 10 Mbps, SDSL 50 Mbps, SDSL 100 Mbps, SDSL 200 Mbps, SDSL 500 Mbps, and SDSL 1000 Mbps, please provide separate counts for Voice-Data and Data-Only lines, classified according to whether they were Non-discounted rates, Monthly Plan (discounted rates), 1-year Term Plan (discounted rates), and 3-Year Term Plan (discounted rates).

For all other SDSL speed options (SDSL 144 kbps, SDSL 2 Mbps, SDSL 4 Mbps), please enter total count for each year in the “All Other SDSL Lines” category.

The website will automatically show total number of DSL lines by summing up your inputs for ADSL and SDSL services in the previous tables. The website will compare it with the DSL line count recently reported to the EC1050 or AS1000. When it finds a reasonably big difference, it will raise a warning for your confirmation.



*NECA uses an “Accordion” web page style to the DSL section. Only one table is open for your input. When you click on a table title for an A/SDSL speed option, the web browser will expand the table for your input while collapsing all other tables and showing only the table titles.*

*Here is an example. Suppose you want to enter demand counts for a speed option **ADSL 1/6 Mbps**. You will click on the table title **ADSL 1/6 Mbps**. Then, the web browser will expand the table and show the input cells (see the demo screenshot below):*

**NECA** Advanced Services Demand Data Request Wednesday, Feb 04, 2015

Home | Contact Us | Instructions | Blank Forms | View Study Areas | NECA Tariff 5 Services | Print | Download Data | Logout

Home > Study Area List > Special Access Revenue > NECA Tariff 5 Services > DSL

**DSL**

Study Area Code: **123456** Study Area Name: **ABC**

Please enter the number of Digital Subscriber (DSL) Lines in service under NECA's Tariff 5 for the categories and time periods listed below. To submit the DSL line counts, please click on the title of the speeds applicable to your company.

**DSL Line Counts**

Total DSL Lines under NECA's Tariff 5 *(Note: Total DSL, ADSL, SDSL Lines below are automatically computed.)*

	Actuals for Dec. 31 2013	Actuals for Dec. 31 2014
Total DSL Lines	2801	30
Total ADSL Lines	2751	0
Total SDSL Lines	50	30

**ADSL 1 Mbps/6 Mbps**

ADSL Rate Plan	Actuals for Dec. 31 2013		Actuals for Dec. 31 2014	
	Voice-Data Line Count	Data-only Line Count	Voice-Data Line Count	Data-only Line Count
a. Non-discounted rates	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
b. Monthly Plan (discounted rates)	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
c. 1-Year Term (discounted rates)	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
d. 3-Year Term (discounted rates)	<input type="text" value="1815"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
subtotal	1815	0	0	0

ADSL 3 Mbps/15 Mbps

ADSL 25 Mbps/50 Mbps

ADSL 50 Mbps/100 Mbps

SDSL 256 kbps

SDSL 768 Kbps

SDSL 10 Mbps/10 Mbps

After you complete the table for **ADSL 1/6 Mbps**, you want to fill out demand counts for the speed **ADSL 3/15 Mbps**. Please click on the table title **ADSL 3/15 Mbps**. The web browser will expand the table for your input, collapse all other tables, and show only the table titles (please see the demo screen shot below).

This new feature will save you a great deal of time when you want to navigate many tables without scrolling up and down in a window.

**NECA** Advanced Services Demand Data Request Wednesday, Feb 04, 2015

Home | Contact Us | Instructions | Blank Forms | View Study Areas | NECA Tariff 5 Services | Print | Download Data | Logout

[Home](#) > [Study Area List](#) > [Special Access Revenue](#) > [NECA Tariff 5 Services](#) > [DSL](#)

**DSL**

Study Area Code: **123456** Study Area Name: **ABC**

Please enter the number of Digital Subscriber (DSL) Lines in service under NECA's Tariff 5 for the categories and time periods listed below. To submit the DSL line counts, please click on the title of the speeds applicable to your company.

**DSL Line Counts**

Total DSL Lines under NECA's Tariff 5 [Note: Total DSL, ADSL, SDSL Lines below are automatically computed.]

	Actuals for Dec. 31 2013	Actuals for Dec. 31 2014
Total DSL Lines	2801	30
Total ADSL Lines	2751	0
Total SDSL Lines	50	30

**ADSL 1 Mbps/6 Mbps**

**ADSL 3 Mbps/15 Mbps**

ADSL 3 Mbps/15 Mbps

ADSL Rate Plan	Actuals for Dec. 31 2013		Actuals for Dec. 31 2014	
	Voice-Data Line Count	Data-only Line Count	Voice-Data Line Count	Data-only Line Count
a. Non-discounted rates	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
b. Monthly Plan (discounted rates)	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
c. 1-Year Term (discounted rates)	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
d. 3-Year Term (discounted rates)	<input type="text" value="815"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
subtotal	815	0	0	0

**ADSL 25 Mbps/50 Mbps**

**ADSL 50 Mbps/100 Mbps**

**SDSL 256 kbps**

**SDSL 768 Kbps**

**SDSL 10 Mbps/10 Mbps**

## DSL Access Service Connection Points



*The DSL Connection Points section is applicable to traffic sensitive pool members regardless of whether they use NECA's DSL tariff rates.*

The DSL Access Service Connection Point aggregates data traffic from one or more Serving Wire Centers, where it is then transferred to the network of an ISP, corporate LAN provider, or other telecom service provider. The DSL Access Service Connection Point is an optional feature the provider orders under Special Access, ATM Cell Relay Access Service, Ethernet Transport Service, and/or Frame Relay Access Service. The Access Service Connection Point option has recurring and nonrecurring charges under High Capacity, SONET, and Metallic Service, whereas it has a nonrecurring charge under ATM and Ethernet Transport Service.

All of the DSL Access Service Connection Point information is being collected in one section. Please indicate the number and type(s) of ports from NECA's Tariff 5 with DSL Access Service Connection Point Option in your network as of Dec. 31, 2018 and Dec. 31, 2019.



*Later sections of the survey also ask for port counts. Any ports that you enter in this section that serve as connection points should also be included in port counts in later sections of the survey.*

## Ethernet Transport Service

An ETS Channel Termination provides the transport facility between the customer designated premises and an ETS Basic Port at the Telephone Company's ETS serving wire center (SWC). NECA's rates vary by capacity and by the distance between the customer designated premises and the ETS SWC.



*NECA uses an "Accordion" web page style to the ETS section. Only one table is open for your input. When you click on a table title, the web browser will expand the table for your input while collapsing all other tables and showing only the table titles.*

### Counts of Ethernet Transport Service Channel Terminations

Please enter total number of ETS Channel Terminations you provide under NECA's Tariff 5 for the periods listed. Please itemize the Channel Terminations by capacity and by whether the customer designated premises is within 300 feet of the ETS SWC.

### Shares of ETS CTs by Term Plans

As of Dec. 31, 2018 and Dec. 31, 2019, please break down total monthly Channel Terminations into counts by term plan: counts that are not committed to a term plan, counts committed to a 3-year term discount plan, and counts committed to a 5-year term discount plan.

### Counts of Ethernet Transport Service Basic Ports and Port Protections

ETS Basic Ports provide the interface to the Telephone Company's ETS network. The ETS Basic Port counts should include the basic ports supporting ETS Channel Termination, optional DSL Access Service Connection function, and other logical transmission paths.

Please enter total number of Basic Ports as of Dec. 31, 2018 and Dec. 31, 2019, you provided under NECA's Tariff 5. Please itemize the port counts by their capacity and by the distance from the Serving Wire Center.

For the ETS Basic Port Protection counts, please provide the total number of the ETS Basic Ports for which the customer orders the ETS Port Protection feature. These ports are known as Primary ETS Basic Ports.

*Note: (1) Your count should include Ethernet ports that are part of Ethernet Transport Service.*

*(2) Please use the ATM section instead of this section to report Ethernet ports that are part of ATM service.*

*(3) Please include in your port counts any ETS ports that are equipped with the optional DSL Access Service Connection function that you may have entered in the DSL Connection Point section.*



*The number of total ETS Basic ports includes the sum of ETS basic ports for ETS CTs and for the optional DSL Access Service Connection function, at minimum. We expect that the number of ETS ports by date is greater than or equal to the sum of ETS CTs and ETS DSL Connection Points. You may have to go back to the DSL Connection Points section and the previous ETS CT section to adjust your inputs.*

### Counts of Ethernet Transport Service Interconnection Ports

ETS Interconnection Ports provide the interface to the Telephone Company's ETS network and are used in conjunction with Special Access service.

They permit the ETS customer to: 1) connect a customer designated premises served by an ETS or non-ETS SWC to the Telephone Company's ETS network, or 2) interconnect the Telephone Company's ETS network to an Ethernet network in the serving territory of a non-adjacent telephone company.

Please enter total number of Interconnection Ports as of Dec. 31, 2018 and Dec. 31, 2019, you provided under NECA's Tariff. Please itemize the port counts by their capacity.

*Note: (1) If you have demand for ETS Interconnection Ports, please report the associated demand of DS3, OC3, or OC12 Special Access service in the appropriate section of this study.*

*(2) Please include in your port counts any ETS ports that are equipped with the optional DSL Access Service Connection function that you may have entered in the DSL Connection Point section.*

Counts of ETS Ethernet Virtual Connections

An ETS Ethernet Virtual Connection (EVC) is a logical association established across a shared transmission path that allows the customer to transmit packets between any two ETS ports located on the Telephone Company's ETS network. The intraswitch ETS EVC rate applies when the EVC is between two ETS ports in the same serving wire center. The interswitch ETS EVC rate applies when the EVC is between ETS ports that are in different serving wire centers within the Telephone Company's serving territory.

Please enter total number of Intraswitch and Interswitch Ethernet Virtual Connections as of Dec. 31, 2018 and Dec. 31, 2019, you provided under NECA's Tariff. Please itemize the EVCs by type (intra/inter-switch) and capacity.

Counts of ETS Extended Ethernet Virtual Connections

An ETS Extended Ethernet Virtual Connection (E-EVC) is a logical association established across a shared transmission path that allows the customer to transmit packets between an ETS port located in the Telephone Company's ETS network and the Ethernet network of another telephone company located in an adjacent serving territory.

Please enter the total number of ETS Extended Ethernet Virtual Connections as of Dec. 31, 2018 and Dec. 31, 2019, you provided under NECA's Tariff 5.

Counts of ETS Interconnected Ethernet Virtual Connections up to 50 miles

An ETS Interconnected Ethernet Virtual Connection (ETS I-EVC) is a transport option for jointly provided ETS service between non-adjacent telephone company operating territories, where the airline distance between the ETS Serving Wire Centers (SWCs) serving the customer designated premises (CDPs) is 50 miles or less.

Please enter the total number of ETS I-EVCs provided under NECA's Tariff 5 for the time periods listed, itemized by capacity.

Counts of ETS Interconnected Ethernet Virtual Connections at 51-75 miles

Please enter the total number of ETS I-EVCs provided under NECA's Tariff 5 for the time periods listed, itemized by capacity. Please enter only ETS I-EVC counts of non-adjacent telephone company operating territories, where the airline distance between the ETS Serving Wire Centers (SWCs) serving the customer designated premises (CDPs) is in the range of 51-75 miles.

Counts of ETS Ethernet Class of Service – Near Real Time (NRT)

ETS CoS NRTs are available in 1 Mbps increments on the customer's ETS Intraswitch or Interswitch Ethernet Virtual Connections (ETS EVCs) between two ETS Basic Ports located within the operating territory of the telephone company.

Please enter the total number of megabits ordered by all ETS customers for Ethernet Class of Service (CoS) Near Real Time provided under NECA's Tariff 5 for the time periods listed below. Please itemize the total number of Mbps by switch type (intra/inter-switch) regardless of EVC capacity.

For example, an ETS customer with a 250 Mbps ETS Intraswitch EVC between two 250 Mbps ETS Basic Ports orders a total of 100 Mbps of Near Real Time CoS. Then you will enter "100".

Please provide the data for two periods, as of Dec. 31, 2018 and Dec. 31, 2019.

Counts of ETS Ethernet Class of Service –Real Time (RT)

ETS CoS RTs are available in 1 Mbps increments on the customer's ETS Intraswitch or Interswitch Ethernet Virtual Connections (ETS EVCs) between two ETS Basic Ports located within the operating territory of the telephone company.

Please enter the total number of megabits ordered by all ETS customers for Ethernet Class of Service (CoS) Real Time provided under NECA's Tariff 5 for the time periods listed below. Please itemize the total number of megabits by switch type (intra/inter-switch) regardless of EVC capacity.

For example, an ETS customer with a 250 Mbps ETS Intraswitch EVC between two 250 Mbps ETS Basic Ports orders a total of 100 Mbps of Real Time CoS. Then you will enter "100".

Please provide the data for two periods, as of Dec. 31, 2018 and Dec. 31, 2019.

Counts of ETS Low Bit Rate Ethernet Virtual Circuit Channels

An ETS LBR-VCC option provides a 64 kbps two-way virtual communications path (upstream and downstream). It is designed to meet the needs of providers of home monitoring services such as security and metering applications, including Advanced Metering Infrastructure for smart grid functions. The ETS LBR-VCC provides a 64 kbps virtual circuit path (secure VLAN) between the ETS customer's CDP and the premises of its end user customer, provided the end user customer's premises is equipped with a

tariffed A/SDSL Access Service provided by the telephone company. It is available in increments of 64 kbps.

Please enter the total number of 64 kbps increments for all the LBR-VCCs as of Dec. 31, 2018 and Dec. 31, 2019.

#### Counts of ETS Multimedia Virtual Circuit Channels

An ETS Multimedia Virtual Circuit Channel (MM-VCC) is used for high speed multimedia transmission between the customer designated premises and the premises of the end user ADSL customer. It is available in increments of 10 Mbps.

The monthly recurring charge for ETS MM-VCCs is waived when local exchange telephone service, ADSL Access Service, and ETS MM-VCCs are provided from the same serving wire center where the ETS DSL Access Service Connection Function is deployed.

Please enter total number of ETS MM-VCCs as of Dec. 31, 2018 and Dec. 31, 2019 you provided under NECA's Tariff 5.

**Example:** *A 20 Mbps ETS MM-VCC would have two 10 Mbps increments. If there are 25 ETS MM-VCCs, and each one is 20 Mbps, then the number of 10 Mbps increments is  $25 \times 2 = 50$ .*

Among the total number of ETS MM-VCCs entered in the question above, please provide how many ETS MM-VCCs (and their associated bandwidth) had the monthly recurring charge waived as of Dec. 31, 2018 and Dec. 31, 2019.

*Note: Because ETS MM-VCCs are used in conjunction with an ETS port that has been equipped with the optional DSL Access Service Connection Function, the port count you entered in the DSL Connection Point section should include the ETS port that is so equipped.*

Finally, please enter total number of incidences for ETS MM-VCC Non-recurring Charge that your company billed under NECA's Access Tariff for the past two years.

#### Counts of ETS Bandwidth Add-On 10 Mbps (ETS BAO)

The ETS Bandwidth Add-On (ETS BAO) feature offers an ETS customer increased flexibility when additional bandwidth capacity on eligible ETS service elements is needed. It is only available for the following eligible ETS service elements and speed option combinations: ETS Basic Port, ETS CT, ETS EVC, ETS E-EVC, and/or ETS I-

EVC at 50 Mbps, 100 Mbps, 200 Mbps, 250 Mbps, 300 Mbps, 400 Mbps, 500 Mbps, 600 Mbps, 700 Mbps, 750 Mbps, 800 Mbps and/or 900 Mbps.

**Example:** *an ETS customer with an existing 100 Mbps ETS Basic Port needs 150 Mbps of bandwidth capacity. Although it would be paying for bandwidth it did not need, the ETS customer could replace the existing 100 Mbps ETS Basic Port with the next highest speed available under the tariff (i.e., 250 Mbps). Alternatively, the ETS customer could order one ETS BAO feature comprised of five 10 Mbps increments of additional bandwidth added to the underlying 100 Mbps ETS Basic Port to achieve the 150 Mbps of bandwidth capacity that the customer actually needs. For such a case, the number of 10 Mbps increments for ETS Basic Port is  $25 \times 2 = 50$ .*

Please provide the data for two periods, as of Dec. 31, 2018 and Dec. 31, 2019. The input data are separately collected for circuits up to 50 miles and circuits 51-75 miles.

#### Counts of ETS Bandwidth Add-On 500 Mbps (ETS BAO)

The ETS Bandwidth Add-On (ETS BAO) feature offers an ETS customer increased flexibility when additional bandwidth capacity on eligible ETS service elements is needed. It is only available for the following eligible ETS service elements and speed option combinations: ETS Basic Port, ETS CT, ETS EVC, ETS E-EVC, and/or ETS I-EVC at 1 Gbps, 2.5 Gbps or 5 Gbps.

Please provide the data for two periods, as of Dec. 31, 2018 and Dec. 31, 2019. The input data are separately collected for circuits up to 50 miles and circuits 51-75 miles.

### **IP Gateway Access**

IPG provides customers the ability to deliver interexchange voice traffic originated on or transported across their IP networks for termination to the telephone company's local exchange service subscribers, and to accept interexchange voice traffic originated on or transported across the telephone company's network, using FGD Switched Access Service and IP packet transport technology. IPG transport options enable transmission at data speeds of 1.544 Mbps or 44.736 Mbps. IPG service is available at designated telephone company serving wire centers where the telephone company has deployed an IP gateway switch and provides FGD Switched Access Service.

For Dec. 31, 2018 and Dec. 31, 2019, please enter actual total number of IPG Ports, IPG Transport Terminations (IPG TT), IPG Transport Mileage Terminations (IPG TMT), and IPG Transport Mileage Facility mileages (IPG TMF).

### **High Capacity (DS1/DS3)**

The High Capacity section asks about demand for Channel Terminations (CT), Channel Mileage Terminations (CMT), and Channel Mileage Facility (CMF) mileage for interstate DS1 and DS3 circuits you provided under NECA Tariff No. 5. The elements may be undiscounted or discounted under either a three-year or five-year term plan.

*Note: Please include in your counts any DS1 or DS3 services equipped with the optional DSL Access Service Connection function that you may have entered in the DSL Connection Point section.*

For Dec. 31, 2018 and Dec. 31, 2019, please enter actual CT and CMT counts, and CMF mileage.

### **SONET**

The SONET section is similar to the High Capacity section. It asks about demand for Channel Terminations, Channel Mileage Terminations, and Channel Mileage Facility mileage for interstate OC3 and OC12 circuits you provided under NECA Tariff No. 5. The elements may be undiscounted or discounted under either a three-year or five-year term plan.

*Note: Please include in your counts any OC3 service equipped with the optional DSL Access Service Connection function that you may have entered in the DSL Connection Point section.*

For Dec. 31, 2018 and Dec. 31, 2019, please enter actual CT, CMT, and CMF mileage.

### **Access Order Charge (AOC) Revenue**

Unlike the other sections of the survey devoted to services, the Access Order Charge (AOC) section asks for annual revenue rather than demand quantities. Please enter your annual Access Order Charge (AOC) Non-Recurring Revenue billed under NECA Tariff No. 5 as of Dec. 31, 2018 and Dec. 31, 2019.

## **Comments**

Please use this section to clarify information you enter in other sections or to make suggestions for future studies. Please be as specific as possible. Please provide your name, phone number, and e-mail ID in case we have to contact you.

## **Help**

For more information, please refer to the online NECA Access Charge Handbook on the NECA website. Also, you can send your question to us by using the “Contact” function on this data request website.